CATEGORY "S"
BASELINE ENVIRONMENTAL ASSESSMENT
FORMER TECUMSEH PRODUCTS PLANT
100 AND 101 EAST PATTERSON STREET
TECUMSEH, MICHIGAN
ATC PROJECT NO.: 39.02922.8N01

VOLUME 2 OF 3

APPENDIX G

RMT'S CURRENT CONDITIONS REPORT

VOLUME 2 OF 3

RMT

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September 21, 2009

Mr. Hak Cho
USEPA Region V, DW-8J
77 West Jackson Blvd.
Chicago, IL 60604

Subject: Current Conditions Report – Tecumseh Products Company Property
Tecumseh, Michigan

Dear Mr. Cho:

As a follow up to RMT, Inc.'s (RMT) letter dated June 17, 2009, to the United States Environmental Protection Agency (USEPA), please find enclosed two copies of the Current Conditions Report (CCR) for the Tecumseh Products Company, Inc. (TPC) property located at 100 East Patterson Street, Tecumseh, Lenawee County, Michigan.

If you have any questions regarding the attached, please contact me at (734) 971-7080, ext. 7122.

Sincerely,

RMT, Inc.

Graham Crockford
Project Manager
graham.crockford@rmtinc.com

Attachments: Current Conditions Report – September 2009

cc: Peter Quackenbush, MDEQ, WHMD, Hazardous Waste Permits
Jason Smith, Corporate Environmental Director, Tecumseh Products Company
Laurel Krueger, Tecumseh Products Company
Douglas McClure, Conlin, McKenney & Philbrick, P.C.

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Current Conditions Report

Tecumseh Manufacturing Facility
Lenawee County, Michigan

September 2009

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Current Conditions Report

Tecumseh Manufacturing Facility

Lenawee County, Michigan

September 2009

Prepared For
Tecumseh Products Company

Graham Crockford
Project Manager

Stacy E. Metz
Environmental Specialist

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Section 1
Introduction

1.1 Site Description

Tecumseh Products Company (TPC) owns a manufacturing site located in Lenawee County, Michigan (Figure 1). The approximately 53-acre TPC manufacturing site is located at 100 East Patterson Street between Evans Street and Maumee Street. This parcel includes an expanse of interconnected buildings/building additions that occupy approximately 750,000 square feet (Figure 2).

1.2 Project Background

In 2008, a Phase I Environmental Site Assessment (ESA) was conducted by Atwell-Hicks, LLC as part of the potential sale of the TPC manufacturing site to Consolidated Biscuit Company (CBC). The Phase I ESA Report recommended that a Phase II Subsurface Investigation be conducted to address the identified recognized environmental conditions (RECs). A Phase II ESA was performed by ATC Environmental Consultants (ATC) on behalf of CBC between December 2008 and January 2009. A copy of the Draft Limited Phase II ESA Report was provided to TPC in February 2009.

At the request of TPC, RMT, Inc., (RMT) reviewed the Draft Limited Phase II ESA Report. Based on this review, RMT recommended an investigation be performed to determine the potential for off-site migration of volatile organic compounds (VOCs) above the generic cleanup criteria specified in the Michigan Department of Environmental Quality (MDEQ) Part 201, Environmental Remediation, of the Natural Resources and Environmental Protection Act, 1994 PA 451, as amended (NREPA). In March 2009, RMT initiated a perimeter subsurface investigation to further evaluate the potential for off-site migration. Data from the perimeter investigation indicated that VOCs were present above Part 201 criteria at the property boundary. In accordance with Part 201 rules, potentially affected property owners and the MDEQ were notified of the potential for off-site migration of affected groundwater from the site on April 8, 2009.

During the period from April through August 2009, RMT advanced numerous off-site soil borings, installed monitoring wells, collected samples from the storm water sewer system, and performed groundwater sampling in the backfill surrounding the storm and sanitary sewer systems in order to define the horizontal extent of constituents of concern (COCs) above generic cleanup criteria adjacent to the site. Based on the results of this off-site subsurface investigation,

on June 1, 2009, additional property owners were notified of the potential for off-site migration of affected groundwater. RMT also conducted a well survey, which included a review of publically available water well logs, records of municipal water usage for the area adjacent to the site, and evaluated whether the City of Tecumseh municipal water supply has the potential to become affected by off-site migrations of COCs. The well survey also included sampling of private wells at properties potentially affected by off-site migration of COCs. A limited on-site subsurface investigation was also performed to further refine probable on-site source areas.

On April 15, 2009, following the submittal of the initial notices of off-site migration, TPC met with the MDEQ to discuss the potential off-site migration of affected groundwater, appropriate interim response activities, and regulatory control. Because the site is a former Part A Interim Status Facility, MDEQ indicated that the site was subject to RCRA corrective action under the authority of the United States Environmental Protection Agency (USEPA) rather than Part 201 corrective action led by the MDEQ. During this meeting, MDEQ staff made a commitment to contact USEPA to determine whether the MDEQ or USEPA would take the lead agency role. As explained in a subsequent email from Peter Quackenbush (MDEQ Waste and Hazardous Materials Division) on May 14, 2009, the MDEQ has referred the project to the USEPA.

1.3 Purpose and Scope

This Current Conditions Report (report) was prepared for submittal to the USEPA in order to initiate the corrective action process. This report describes and summarizes the physical setting of the site, the historical operations, recent sampling data, and voluntary remedial activities undertaken by TPC.

Section 2
Site Setting

2.1 Site Location and Description

The TPC manufacturing site is located in the Section 34, Township 5 South, Range 4 East, Tecumseh, Lenawee County, Michigan (Figure 1). The site, also known as the property located at 100 East Patterson Street, in the City of Tecumseh, consists of approximately 53 acres of land, which includes an expanse of interconnected buildings/building additions that occupy approximately 750,000 square feet.

2.2 Geology

The site is located near the southeast rim of the Michigan Basin. Topographically, the region is relatively flat and characterized by glaciofluvial sediments at the surface (Figure 1). The geology consists of a series of unconsolidated Holocene and Pleistocene age glacial deposits, predominantly gravel and sand with areas of silt and clay overlying Mississippian age shales. The thickness of the glacial deposits varies from a few feet to over 200 feet thick throughout the region. Local water well logs within one mile of the site indicate bedrock in that area is 150 to 200 feet deep.

RMT evaluated the unconsolidated materials underlying the site through a review of logs from soil borings advanced at the site during field activities conducted by RMT from April through July 2009. Logs of soil borings and monitoring wells installed during the investigation are included as Appendix A. Geologic cross sections developed from these boring logs illustrate the geology underlying the TPC site. Figure 4 shows the orientation of the cross-section transects (A-A', B-B', C-C', and D-D'), while Figures 5 to 8 present the cross sections.

As shown on the cross sections, the site geology generally consists of a surficial clay interval ranging from 3 to 7 feet thick, underlain by unconsolidated fine to coarse sand and gravel. On the east edge of the site, a second clay interval was observed approximately 30 to 35 feet bgs. The continuity and thickness of the lower clay layer is currently unknown; however, based on data from water supply wells, this clay likely serves as an aquitard. Bedrock was not encountered in any of the borings. As discussed above, local water well logs indicate that bedrock is 150 to 200 feet deep at the site.

2.3 Hydrogeology

The site and surrounding area are centrally located in the River Raisin watershed. Because bedrock is frequently encountered 150 feet or more below ground surface in the Raisin River Basin area, the more accessible, unconsolidated aquifers in this system are frequently used for drinking water sources. Area well records indicate that the primary groundwater source for Lenawee County and the City of Tecumseh are unconsolidated glacial deposits.

Data collected from the soil borings and monitoring wells installed during the 2009 subsurface investigation activities indicate that shallow groundwater in the unconsolidated sediments typically ranges in depth from 3 to 30 feet bgs within the sand and gravel (Appendix A, Table 1). The variation in groundwater depth is a result of site topography, which slopes downward to the east, toward the Raisin River. A clay unit was observed at a depth of 30 to 35 feet bgs in multiple locations underlying the sand interval, topographically and hydraulically downgradient, east and northeast, of the site.

The groundwater elevation data collected in June 2009 were used to construct a contour map and determine the direction of groundwater flow and hydraulic gradient within the unconsolidated sand underlying the site (Figure 9). Several rounds of water levels have been collected (Table 1), and the depth to groundwater and the direction of groundwater flow is generally consistent. Groundwater flow at the TPC site is generally east toward the Raisin River, the nearest body of water located 1,500 to 2,500 feet east of the site. The Raisin River is the regional discharge feature for groundwater beneath the TPC site. A mean horizontal hydraulic gradient of 0.002 was measured across the site using the June 2009 groundwater elevation data.

Section 3
Site History

3.1 Historical Uses of the Site

The TPC site consisted of farmland (undeveloped woodlands/farmland) until it was first developed for industrial use in the late 1800s and early 1900s. Prior to TPC's acquisition of the site in 1934, portions of the property had been occupied by the following manufacturing facilities: Tiffany Iron Works (iron foundry); Heesen Brothers and Company (feed cookers, hog rings and hollowware); Carson Foundry and Manufacturing/Bruce Manufacturing (job castings and food cookers); Anthony Fence Company/American Steel and Wire Company (steel wire and woven wire fencing); and H. Brewer Company (concrete mixers and general foundry products). Since 1934, the site has been occupied by various divisions of TPC. Historical documents indicate that the uses of the site have not changed significantly since 1934, other than changes in some product lines, several episodes of facility expansion, and an increasing level of development until June 2008.

3.2 Site Operations

The TPC site is occupied by a series of interconnected buildings/building additions that occupy approximately 750,000 square feet (main building). There are other buildings on site, but they are significantly smaller in size, and were typically not utilized for manufacturing operations. Letter designations, *i.e.*, Area K, Building Q, etc., for each building/building addition are shown on Figure 2.

The oldest portion of the main building, referred to as Area K (Figure 2), is located in the northern portion of the site; subsequent building expansions and additions have grown the main building to the south and east. Areas H and J in the northwestern portion of the building have historically housed the TPC corporate headquarters and TPC research and development (Engineering Department). The rest of the main building was used primarily for the manufacture and storage of TPC products. The first products manufactured by TPC included automotive parts, refrigeration systems, small tools, and toys. By June 2008, when manufacturing operation ceased at the site, TPC operations focused on the production and reconditioning of compressors and condensing units for refrigeration and air conditioning units. Significant manufacturing processes formerly conducted at the site are listed below:

- Parts degreasing (trichloroethene, 1,1,1-trichloroethane, and water)
- Unit assembly

- Paint preparation (water, citric acid, iron phosphate, fix solution)
- Unit painting
- Unit reconditioning
- Shipping and receiving, including use of an on-site rail spur until the 1960s

Approximately 30 TPC employees currently occupy the office/engineering portions of the building (Areas H and J). The balance of the site, including the front offices (Area Z), is currently unoccupied, pending a sale of the site. TPC plans to relocate their remaining staff in 2010.

3.3 Types of Waste Generated and Waste Management

Several waste streams were generated during the former production processes. The primary wastes generated at TPC were solvent distillation sludges (F001), spent mineral spirits (D001), paint waste (D007), waste oil (F002), scrap metal, metal fines, and an iron phosphate and citric acid solution. The following is a summary describing the waste generation and treatment processes at TPC.

Wastewater treatment was performed at two locations at the site. The first wastewater treatment system operated in the K-1 area of the main building. This wastewater system is also described as solid waste management unit (SWMU) #1 later in this report, and is not to be confused with the newer wastewater treatment system that was built in 1990 and operated in a separate building (Building R) on the eastern side of the main building (Figure 2). These wastewater treatment systems were used to treat process wastewater that contained suspended solids, water-based cleaning compounds, coolants, and a trace amount of oil and solvents. Wastes generated during the water treatment process included filtercake from water filtration, solids generated during the settling process, and residual oil that was skimmed off and managed with all other waste oil generated at the site (solvent waste code F002). Treated wastewater was discharged to the City of Tecumseh publicly-owned treatment works (POTW).

TPC operated a Distillation Solvent Recovery System used to distill spent 1,1,1-trichloroethane (1,1,1-TCA) that was generated by two vapor degreasers (Area M). 1,1,1-TCA was used in 10 percent of the degreasing operations at the site. The vapor degreasers were used to clean used motors during reconditioning and the tubes and valves that were assembled into new units. Spent 1,1,1-TCA was distilled and the clean solvent was recycled back into the vapor degreasers. The distillation sludge was stored in the Hazardous Waste Drum Storage Area (outside of Area L-1), before being sent to Safety-Kleen of Hebron, Ohio for recycling. TPC previously managed spent 1,1,1-TCA by storing it in the Former Spent Solvent Storage Tank (Area TD), which was taken out of service in 1979. The distillate solvent recovery system operated until the early 1990s.

TPC generated waste citric acid solution and iron phosphate solution during the cleaning and priming of the units prior to the painting process. These solutions were collected in 55-gallon drums at the Citric Acid and Iron Phosphate Solution Accumulation Area (Area V-2) until they were emptied into the Wastewater Treatment System.

Paint waste was generated when the paint areas were cleaned-out. TPC representatives reported that the site switched from solvent-based paint to water-based paint in 1984. Paint waste was still treated as a hazardous waste because it contained chromium. As part of the painting process, manufactured units, hanging on a conveyor belt, were sent through an enclosed structure open at the front and back for the conveyor to move through. The paint was applied in this enclosed structure. When the paint areas were cleaned, all four sides were scraped. These scrapings, which included tubes or fixtures that fell off of the parts, were accumulated in a 55-gallon drum at a Paint Waste Accumulation Area (Area G-2) until enough paint waste (D007 chromium) accumulated to be transferred to the Hazardous Waste Drum Storage Area. Paint waste was picked up by Chem-Met in Wyandotte, Michigan, for treatment and disposal.

Waste oil was generated at the site in several areas. Compressors and motors brought in for reconditioning were drained of any residual oil. The oil skimmers that operated as a part of the wastewater treatment system collected oil. Maintenance of machinery as a part of site operations generated waste hydraulic oil. Waste oil was collected in the 6,000-gallon Waste Oil Storage Tank, which was located in Area TD of the main building.

Metal fines were generated during the machining process. Iron castings were machined to specifications and the resulting iron fines were collected at the Metal Fines Storage Area (outside of Area B-2). These fines were sold to Jackson Iron and Metal in Adrian, Michigan, who in turn sent the fines to a foundry.

Scrap metal was generated at several different areas of the plant. When used compressors and motors were brought in to be reconditioned, worn parts were replaced. Worn metal parts were collected and placed in one of the Scrap Metal Bins (outside of Areas B-2 and L-1). Scrap metal was also generated during equipment maintenance. Scrap metal was sold to recyclers.

3.4 Summary of Historic Waste Management Permits and Licenses

3.4.1 RCRA Part A Permit

TPC filed a RCRA Part A permit application with the USEPA on March 17, 1981. The permit application allowed for container (S01) and tank (S02) storage for solvent wastes (F002 and F017). On June 10, 1982, the USEPA granted TPC interim status for the

container storage and the tank storage areas, identified as SWMU #6 and #10, respectively, in a USEPA Preliminary Assessment/Visual Site Inspection (PA/VSI) conducted in April 1982. The approximate locations of the SWMUs are shown on Figure 2. On June 21, 1982, TPC submitted a closure plan for its container storage and 2,500-gallon spent solvent storage tank and reported that the site would discontinue storage of hazardous waste for greater than 90 days. USEPA granted approval of TPC's closure plan and reported that it would consider closure final with the submittal of a certification of closure for the storage tank. On November 12, 1982, an engineering firm representing TPC submitted a certificate of closure for the storage tank. TPC was regulated as a generator of hazardous waste with less-than-90-day storage until 2008.

3.4.2 National Pollution Discharge Elimination System Permit

TPC was granted a National Pollution Discharge Elimination System (NPDES) permit on April 16, 1979. The permit was issued by the Michigan Water Resources Commission and authorized TPC to discharge to the Raisin River via a Patterson Street storm sewer, Permit Number MIO000256. TPC was required under their NPDES permit to submit sampling results for the following parameters: 1) total suspended solids, 2) total dissolved solids, 3) temperature, 4) oil and grease, 5) pH, and 6) 1,1,1- TCA.

3.4.3 Air Permits

TPC was reported to have had two air permits with the state of Michigan. One permit was issued for the application of water-based paints, Permit Number 312-83. The second permit was for one 1,1,1-TCA vapor degreaser, Permit Number 726-86. TPC reported that its second 1,1,1-TCA degreaser was covered by a grandfather clause, which did not require that a permit be issued because it was installed before the regulations became effective. In early 2000, TPC operated under a synthetic minor operating permit, as source ID 26091000031.

3.5 On-site Treatment Facilities

Prior to 1990, TPC operated a wastewater treatment system with a capacity of up to 20,000 gallons per day (SWMU-#1 on Figure 2). This system, located in area K-1 of the main building, was used to treat process wastewater that contained suspended solids, water-based cleaning compounds, coolants, and a trace amount of oil and solvents. The system managed all process wastewater and the resulting by-product consisted of filtercake that was scraped off and stored in a hopper at the point of generation. TPC then transported the filtercake to the Laidlaw Landfill in Adrian, Michigan, for disposal. The solids generated during the settling process were collected in a hopper at the point of generation and then transferred to a

20-cubic-yard steel Metal Solids Bin located directly outside of the wastewater treatment system building. Chem-Met of Wyandotte, Michigan, picked up the solids consisting of metal chips and metal fines for treatment and disposal. Any residual oil was skimmed off and transferred to a waste oil storage tank. Because trace amounts of solvents remained in this residual oil, which was mixed in with all other waste oil generated at the site, all waste oil was classified with a solvent waste code (F002). The wastewater was sent through sand filters prior to being discharged to the City of Tecumseh POTW. A new Waste Water Treatment Plant (Building R) was constructed in 1990 and placed in its own 2,000-square-foot building, located east of the main manufacturing building (Figure 2).

Prior to 1979, TPC managed spent 1,1,1-TCA by storing it in the Former Spent Solvent Storage Tank. After the tank was taken out of service TPC operated a Distillation Solvent Recovery System used to distill spent 1,1,1-TCA that was generated by two vapor degreasers. This is also referred to as SWMU-5 in latter portions of this report; the location is shown on Figure 2. 1,1,1-TCA was used in 10 percent of the degreasing operations at this site. The vapor degreasers were used to clean used motors during reconditioning and the tubes and valves that were assembled into new units. Spent 1,1,1-TCA was distilled and the clean solvent was recycled back into the vapor degreasers. The distillation sludge was stored in the Hazardous Waste Drum Storage Area, before being sent to Safety-Kleen of Hebron, Ohio, for recycling.

3.6 On-Site Storage Facilities

Eighteen underground storage tanks (USTs) and numerous above ground storage tanks (ASTs) have been identified at the site. Appendix C provides a copy of a TPC table, created in 1986, with a summary of the storage tanks in place at the time the table was created, including the eighteen identified USTs and 8 bulk ASTS. A figure showing their corresponding locations is also included in Appendix C. Additional smaller ASTs were identified in the Phase I ESA Report and the USEPA PA/VSI Report.

3.6.1 Underground Storage Tanks

Eighteen USTs have been identified at the site. These USTs are described below. Additional information and a map showing the locations these USTs are provided in Appendix C. UST tank areas are also shown on Figure 2.

The MDEQ UST database contains records for 15 of these USTs. The USTs listed in the MDEQ database were previously used by the site for storage of lubricating oils, lap oil, kerosene, used oil, fuel oil, and hazardous substances. The USTs, located immediately west of the central part of the building, were installed between 1946 and 1970, and ranged in size from 6,000 to 20,000 gallons. All of the USTs were closed between

July 1990 and November 1990. The UST database indicates that three of the tanks were abandoned in place and the remaining tanks were removed from the ground. According to an October 25, 1990, letter from TPC sent to the Michigan Fire Marshall, the five tanks that were removed in July 1990 were cleaned and inspected; none of the tanks reportedly exhibited evidence of leakage. No other documentation was available concerning removal of the former USTs or any sampling conducted at the time of removal. The MDEQ UST database reports no active USTs and fifteen tanks either removed from the ground or closed in ground. The TPC site is not listed on the Leaking Underground Storage Tank (LUST) database.

In addition to the fifteen USTs listed in the MDEQ UST database and discussed above, the March 1993 PA/VSI Report identified a 20,000-gallon tank divided into two 10,000-gallon compartments, located beneath the floor of the former wastewater treatment area, which were used to hold untreated wastewater. These tanks were reportedly constructed of stainless steel with a fiberglass lining and were installed in the early 1980s. According to site personnel, these tanks were pumped out and filled with sand in 1990. Based on their construction, it is unlikely that significant releases were associated with the historical usage of these former wastewater holding tanks.

The site records, included in Appendix C, also show two additional USTs (a 20,000-gallon quench oil tank and a 6,000-gallon alcohol tank) that were removed in November 1987. These tanks do not appear in the UST database searched by EDR.

3.6.2 Aboveground Storage Tanks

Through a review of site records, the Phase I ESA Report and the USEPA PA/VSI Report, numerous ASTs have been identified at the site. These ASTs are described below. Additional information and a map showing the locations the 8 bulk ASTs are provided in Appendix C.

According to the 1986 tank inventory table and figure in Appendix C, there were eight bulk aboveground bulk storage tanks (ASTs) at the site, with capacities ranging from 6,000 to 12,000. Three of the tanks contained used oil; the remaining tanks contained compressor oils. All of these bulk tanks were located inside buildings in areas that have concrete floors and concrete dike walls for secondary containment. Currently all of the bulk ASTs are currently empty and out of service.

In addition to the eight large ASTs, a Phase I ESA Report and the USEPA PA/VSI Report noted additional smaller tanks. A summary of these tanks is provided below:

- There are five small tanks located in Area E (estimated capacities of between 500 and 1,000 gallons) that were used to hold and distribute refrigeration oils. These tanks are now empty.
- In the former wastewater treatment area (Area K-1), there are two aboveground storage tanks that were used to hold wastewater.
- In the newer wastewater treatment building (Building R), there are several aboveground vessels, including reactor tanks, holding tanks, and an oil-water separator.
- Two propane tanks are located in the southwest corner of the site (both 1,000-gallon capacity) that provide propane for the site forklifts.
- One oxygen tank (1,000-gallon capacity), located in the western portion of the site, supplies oxygen used in the brazing operations.
- There were four tanks located in the Engineering Department containing refrigerants used to charge refrigeration units for testing purposes (capacities ranging from 1,350 to 1,750 pounds).
- The site also has two emergency diesel generators, which have tanks that have a combined capacity for 733 gallons of fuel. The diesel tanks are equipped with secondary containment.
- A 2,800-gallon "used oil burn tank" in Area TD contained oils from compressor tear-downs that was later used to fuel the boilers.
- A 5,000-gallon AST in Area TD contained 1,1,1-TCA.
- A 3,500-gallon AST outside of Building L held acid from de-rust operations.
- A 2,500-gallon spent solvent (TCA) AST located near Area K (RCRA-closed in 1982).

Site personnel were not aware of any leaks or spills relating to the ASTs, and the Phase I ESA report did not note any observed evidence of staining or past releases at the time of the site visit.

3.6.3 Drum and Other Storage Areas

New oils and non-flammable chemicals were stored in a separate building (Building Q). The walls and floor of the building provided adequate secondary containment. A partitioned self-contained flammable chemical storage building located adjacent to Building Q was used for the storage of flammable chemicals (*e.g.*, paints, non-hazardous parts washer solvent, acetone, and alcohols), as well as hazardous waste. Maintenance oils, used oil, and smaller containers of oils and greases were once stored in the maintenance shop. Drums containing oil-contaminated solids (mostly absorbents used

for minor spills/leaks) and empty drums were stored in Area TD. Drums containing compressor oil were stored and maintained in the compressor room. Containers of boiler treatment chemicals were once stored in the boiler room (Area N-2). Drip pans provided secondary containment for drums used to dispense the water treatment chemicals. A roll-off container with grinding swarf was staged in a shed located in the western part of the site that is no longer present. Cylinders of compressed gases were staged in a shed located north of the Engineering Department. Drums and totes containing various chemicals were once stored in the de-rust area (Area W-1). Totes containing a two-part disocyanate foam packaging system were once used in the shipping department (Area P). Three parts washers that contained a non-hazardous petroleum-based solvent were used in the maintenance shop (one washer) and the Engineering Department (two washers). Several drums and smaller containers with machine oils and greases and used oil were stored in the Engineering Department. All of these containers were provided with secondary containment.

According to the Phase I ESA, site personnel were not aware of any significant spills or releases of materials nor did the report note any observed evidence of significant spills or uncontrolled releases from these storage areas. In addition, Tecumseh Fire Chief Joseph Tuckey had no knowledge of any spills at the site.

3.7 Disposal Activities

The Phase I ESA did not identify any on-site disposal areas, ponds or apparent evidence of solid waste dumping (*i.e.*, unusual mounding, debris piles, or depressions), suspect fill material, or landfilling on the TPC property during site reconnaissance. A pile of concrete rubble was observed on the south side of the subject site building. Although the source was unknown, based on its appearance and inert nature, this concrete rubble was not considered to be an environmental concern.

3.8 Summary of Past Releases

Two spills have been documented at the site.

- **1992 Spill:** The site is listed in the Emergency Release Notification System (ERNS) database as having had a reported release of 200 gallons of oil from overfilling of an aboveground storage tank in 1992. The release reportedly entered a storm sewer outfall. No further documentation was available concerning this spill response and no enforcement action was made.
- **2003 Spill:** The site is listed in the Michigan Pollution Emergency Alerting System (PEAS) database as having had a release of compressor oil onto a loading dock in August 2003. The spill was reportedly cleaned up and did not enter the storm sewer system.

3.9 Summary of Potential Sources of Contamination

This section summarizes the potential sources of contamination identified at the site in the USEPA PA/VSI Report and the Phase I ESA. This section will describe each possible source of contamination in detail including historical use, current status, and any corrective action taken.

3.9.1 1992 USEPA Preliminary Assessment/Visual Site Inspection

According to the USEPA Final PA/VSI Report resulting from an inspection of the TPC site on April 28, 1992, twelve solid waste management units (SWMUs) were identified. Figure 2 shows the approximate locations of each SWMU. The PA/VSI did not identify any other areas of concern. A general summary of each SWMU is as follows:

- **SWMU 1: Old Wastewater Treatment System**
  - Capacity: 20,000 gallons of wastewater per day
  - Location: Area K-1
  - Dates of Operation: 1975 through early 1990s
  - Unit Description: Composed of a settling tank with attached oil skimmers, a treatment tank with attached oil skimmers, a deep bed filter and a filter press
  - Functionality: Managed process wastewater that contained suspended solids, water-based cleaning compounds, coolants, and a trace amount of oil and solvents
  - Environmental Protection: Concrete floor with minimum thickness of 8 inches
  - Status: Decommissioned in 1990s
- **SWMU 2: Metal Solids Bins**
  - Capacity: 20 cubic yards
  - Location: Area TD
  - Dates of Operation: Early 1970s through 2008
  - Unit Description: Steel bin
  - Functionality: Containment for metal fines separated at the waste water settling tank
  - Environmental Protection: Concrete pad
  - Status: Bins have been removed

- **SWMU 3: Underground Wastewater Storage Tank**
  - Capacity: 20,000 gallons, two 10,000-gallon compartments
  - Location: Area K-1
  - Dates of Operation: Early 1980s through 1990
  - Unit Description: Fiberglass-lined stainless steel underground storage tank divided into two compartments
  - Functionality: Holding tanks to control flow of process wastewater
  - Status: Pumped out and filled with sand in 1990
- **SWMU 4: Final Holding Tank**
  - Capacity: 3,500 gallons
  - Location: Area G-2
  - Dates of Operation: 1975 through 1990
  - Unit Description: Steel tank with oil skimmer and connected sand filters
  - Functionality: Used to settle solids, skim residual oil, and filter wastewater prior to discharge to the City of Tecumseh POTW
  - Environmental Protection: Oil collected was transferred to the Waste Oil Storage Tank (SWMU 11)
  - Status: Decommissioned in 1990
- **SWMU 5: Distillation Solvent Recovery System**
  - Location: Area M
  - Dates of Operation: 1984 through early 1990s
  - Unit Description: Water vapor conveyed heated solvents through the system's separator and the recovered solvents were pumped into 55-gallon drums for reuse in the degreasing process
  - Functionality: Distillation of spent 1,1,1-TCA generated during degreasing operations
  - Status: Decommissioned in early 1990s
- **SWMU 6: Hazardous Waste Drum Storage Area**
  - Area: 8 feet by 25 feet
  - Location: Outside of Area L-1
  - Dates of Operation: Late 1970s through 1990

- Unit Description: Sloped concrete pad with a covering over the top and 4-foot concrete walls on three sides
- Functionality: Storage and containment drum containing solvent distillation sludge, spent mineral spirits, and paint waste
- Environmental Protection: Managed under a Part A Interim Status but closed in 1982 as a permitted unit and then managed as a less-than-90-day unit from 1982 to 1990
- Status: Closed

– **SWMU 7: Citric Acid and Iron Phosphate Solution Accumulation Area**

- Capacity: 55 gallons
- Location: Area V-2
- Dates of Operation: 1976 until June 2008
- Unit Description: Drum on a wooden pallet located in the interior of the site
- Functionality: Accumulation and temporary storage of spent non-hazardous citric acid and iron phosphate solution from the wash process
- Status: Removed June 2008

– **SWMU 8: Scrap Metal Bins**

- Capacity: Multiple units ranging in size from 55-gallon drums to an 8-foot by 5-foot hopper
- Location: Outside of Areas L-1 and B-2
- Dates of Operation: 1934 through June 2008
- Unit Description: Steel bins
- Functionality: Contain scrap parts from the production processes and site maintenance operations. Aluminum parts were separated from the copper and steel parts. All other parts were stored outside of bins.
- Status: Bins and all scrap metal have been removed

– **SWMU 9: Paint Waste Accumulation Area**

- Capacity: Two 55-gallon drums
- Location: Area G-2
- Dates of Operation: 1960s through June 2008

- Unit Description: Steel drums
- Functionality: Collection of paint waste generated during the cleaning of the painting machines
- Environmental Protection: Concrete floor
- Status: Drums and paint waste have been removed

– **SWMU 10: Former Spent Solvent Storage Tank**

- Capacity: 2,500 gallons
- Location: Area TD
- Dates of Operation: Unknown through 1982
- Unit Description: Aboveground storage tank
- Functionality: Storage of spent solvents
- Environmental Protection: Concrete floor
- Status: RCRA closure in 1982

– **SWMU 11: Waste Oil Storage Tank**

- Capacity: 6,000 gallons
- Location: Area N-1
- Dates of Operation: 1976 through June 2008
- Unit Description: Aboveground storage tank
- Functionality: Managed waste oil generated during manufacturing, from maintenance of on-site machinery, from the draining of compressors that came back to the plant, and by the oil skimmers that were part of the old wastewater treatment system
- Environmental Protection: Concrete floor
- Status: Tank is empty

– **SWMU 12: Metal Fines Storage Area**

- Location: Outside of Area B-2
- Dates of Operation: 1940s through June 2008
- Unit Description: Area with concrete base, surrounded on three sides by the building walls
- Functionality: Storage of metal fines generated during the machining processes

- Environmental Protection: Drain leading to the wastewater treatment plant to collect all run-off from the area
- Status: Bins and metal fines have been removed

3.9.2 Phase I Environmental Site Assessment

In October 2008, Atwell Hicks, LLC conducted a Phase I ESA to evaluate the presence of recognized environmental conditions (RECs) or other environmental concerns at the TPC site. This evaluation identified two general RECs, which are described below:

- **REC 1:** According to a report prepared by Environmental Data Resources (EDR), the TPC site is listed on the following environmental databases: Comprehensive Environmental Response, Compensation, and Liability Information System-No Further Remedial Action Planned (CERCLIS NFRAP); a Corrective Action Report (CORRACTS); a Resource Conservation Recovery Act-Treatment, Storage, and Disposal Facility (RCRA-TSDF); a NPDES, PEAS, and a UST database. Lacking information on site assessment activities related to the RCRA, CERCLIS, UST, CORRACTS listings, or the PEAS incident. The Phase I Report identified "release(s) associated with the subject site activities" as a REC.
- **REC 2:** A potential for subsurface impact by releases of petroleum products and/or other hazardous substances related to the long-term industrial operations or the railroad siding represents a REC to the site.

3.9.3 Assessment of SWMUs and RECs

Soil and analytical data indicate that operations related to SWMU 5, the distillation and solvent recovery system, may be a significant source area for 1,1,1-TCA and TCE in soil and groundwater. Although concentrations of chlorinated VOCs (CVOCs) are elevated throughout the site, there is no evidence that other units (SWMUs, USTs, ASTs, etc.) are the source of on-site CVOCs. Rather, on-site CVOCs appear to be a result of long-term industrial operations at the site (REC 2). The subsurface contamination will be addressed as part of the site-wide corrective action response.

Section 4
Nature and Extent of Affected Media

4.1 Summary of Previous Investigation Activities

In 2008, a Phase I ESA was conducted by Atwell-Hicks, LLC, as part of the potential sale of the TPC manufacturing site to CBC. The Phase I ESA Report recommended that a Phase II Subsurface Investigation be conducted to determine the nature and extent of the recognized environmental conditions.

A Phase II ESA conducted by ATC on behalf of CBC was performed between December 2008 and January 2009. The Limited Phase II Investigation included the advancement of 30 on-site soil borings. Soil and groundwater samples were analyzed for VOCs, semi-volatile organic compounds (SVOCs), and 11 metals.

In February 2009, RMT reviewed the Draft Limited Phase II ESA Report on behalf of TPC. Based on this review, RMT identified two likely source areas: the Northern Source Area and the Southern Source Area. The Northern South Area is in the vicinity of GP-14 and GP-15 (Figure 3) where the highest concentration of TCE was found in the soil, and upgradient of GP-2 where high concentrations of TCE were found in the groundwater. There is no single known source for TCE in the Northern Source Area and TCE is detected at varying concentrations throughout the area. The distribution suggests incidental usage during the manufacturing process (REC 2), and potential sources of TCE include use of TCE during machining and degreasing processes and a former railroad spur where various chemicals, including TCE, were off-loaded from rail cars. The Southern Source Area is in the vicinity of GP-21 and GP-22 where high concentrations of TCE and 1,1,1-TCA were found in the groundwater. A distillation and solvent recovery system (SWMU 5) located in area M of the main building is in the vicinity of the Southern Source Area and is the most likely source of the COCs in this area (Figure 2).

After review of the Draft Phase II ESA Report, RMT concluded that there was a potential for off-site migration of VOCs above the MDEQ Part 201 generic cleanup criteria (GCC). RMT also investigated the presence of 1,4-dioxane, which is sometimes used to stabilize 1,1,1-TCA. In March 2009, RMT initiated a phased series of investigations to define the horizontal extent of COCs above generic cleanup criteria adjacent to the site and to evaluate potential exposure pathways. The investigation activities, which were conducted between March 2009 and August 2009 are described below:

- A Perimeter and Off-Site Subsurface Investigation, which included:
  - Advancement of forty-one soil borings (B-1 through B-8, B-10 through B-26, and B-29 through B-44) to evaluate the lateral extent of off-site contaminant migration in groundwater (Figure 3);
  - Collection of 68 groundwater samples from perimeter and off-site soil boring locations;
  - Installation of 17 shallow monitoring wells (MW-1s through MW-17s) at perimeter and off-site locations;
  - Collection of groundwater samples from 16 monitoring wells (MW-16s was dry);
  - Collection of 5 additional groundwater samples (B-23b, B-24b, B-27b, B-28b, and B-32b) from the backfill surrounding the storm and sanitary system using an air-knife in order to assess the potential for preferential contaminant migration along the public utility corridors;
  - Collection and analysis of water from the storm sewer at 8 locations (STW-1 through STW-8) adjacent to the site;
  - Analysis of groundwater samples for VOCs; and
  - Analysis of groundwater samples downgradient of the Southern Source Area for 1,4-dioxane.
- A Well Survey for the area downgradient and adjacent to the site, which included:
  - Review of publically available water well logs;
  - Review of City of Tecumseh municipal water usage and connection records;
  - Review of City of Tecumseh Wellhead Protection Area Study; and
  - Collection of water samples from 7 private wells downgradient of the subject site to determine if private water supply wells were affected by the off-site migration of contaminants.
- An On-Site Source Area Investigation, which included:
  - Advancement of 10 on-site soil borings (NS-1 through NS-10) to locate potential on-site source areas in the north areas of the building (North Source Area);
  - Advancement of 8 on-site soil borings (SS-1 through SS-8) to locate potential on-site source areas in the south areas of the building (Southern Source Area);
  - Collection of 22 groundwater samples from on-site boring locations;
  - Collection of 26 soil samples from on-site boring locations;
  - Analysis of soil and groundwater samples for VOCs; and

- Analysis of soil and groundwater samples from the Southern Source Area for 1,4-dioxane.

Tables 2 through 5 summarize the groundwater and soil data collected by RMT. Laboratory results are included in Appendix H.

4.2 Existing On-Site Source Area Conditions

The Phase II Subsurface Investigation conducted by ATC and the Source Area Investigation conducted by RMT identified the presence of affected soil and groundwater on-site above the GCC.

The Phase II Investigation conducted by ATC found that VOCs are present in soil and groundwater throughout the former manufacturing area. The VOCs at the site appear to be predominantly the result of historic solvent usage in manufacturing portions of the site (REC 2). VOCs above GCC include BTEX compounds (benzene, toluene, ethylbenzene, and xylenes), trimethylbenzenes (TMBs), and CVOCs. In particular, CVOCs which were typically used for degreasing purposes including trichloroethene (TCE), tetrachloroethene (PCE) and 1,1,1-TCA, and associated byproducts of their decomposition such as cis-1,2-dichloroethene (cis 1,2-DCE), trans-1,2-dichloroethene (trans 1,2-DCE), 1,1-dichloroethene (1,1,-DCE), and vinyl chloride are present at elevated concentrations throughout the site.

The Phase II Investigation conducted by ATC also included SVOC and metals analysis. SVOCs and metals were found slightly above GCC at several locations. However, as described in subsequent sections of this report, there is no evidence of a significant on-site source of SVOCs or metals, nor is there evidence to suggest that these potential COCs are likely to migrate off-site. Therefore, VOCs, particularly CVOCs, were the focus of the investigations conducted by RMT and are expected to drive the scope of corrective action at the site.

4.2.1 Analysis of SVOCs in Soil and Groundwater

In February 2009, RMT reviewed preliminary analytical data for SVOCs collected during the Phase II Investigation by ATC. One or more SVOCs were found in soil at three locations. These data are summarized in draft analytical data tables from the Limited Phase II ESA Report by ATC, which are included in Appendix B. The naphthalene concentration at GP-15 and GP-16 was 1,800 µg/kg and 1,500 µg/kg, respectively, compared to a Groundwater/Surface Water Interface Protection (GSIP) criterion of 870 µg/kg. At HB-31 the fluoranthene concentration was 13,000 µg/kg and the phenanthrene concentration was 5,700 µg/kg compared to GSIP criteria of 5,500 µg/kg and 5,300 µg/kg, respectively. No other GCC for soil was exceeded, and no SVOCs were

detected in groundwater above GCC. Therefore SVOCs, with the exception of 1,4-dioxane (as described previously), were not included in the subsurface investigation conducted by RMT.

4.2.2 Analysis of Metals in Soil and Groundwater

RMT also reviewed preliminary analytical data for metals collected during the Phase II Investigation. Both arsenic and selenium were found in soil above the Statewide Default Background concentration and GCC. Arsenic concentrations ranged from 2.3 to 14 mg/kg. Arsenic concentrations exceeded the Statewide Default Background concentration (5.8 mg/kg) and the Drinking Water Protection (DWP) criteria (4.6 mg/kg) at four locations, and the Direct Contact (DC) criteria (7.6 mg/kg) at two locations. Selenium concentrations in soil ranged from 0.23 to 3.5 mg/kg. Selenium concentrations exceeded the Statewide Default Background concentration (0.41 mg/kg) and the GSIP criteria (0.40 mg/kg) at eight locations. Neither arsenic nor selenium was detected in on-site groundwater. The only metal detected in groundwater above GCC was lead at a single location. The measured concentration of lead at GP-10 was 5.0 µg/L compared to a Drinking Water (DW) criterion of 4.0 µg/L. Given the relatively low concentrations and the natural variation in metal concentrations in soil and groundwater, RMT concluded that there is no significant evidence that manufacturing operations at the TPC site affected on-site soil and groundwater with metals. Therefore, metals were not analyzed during the RMT subsurface investigation. Draft analytical data tables from the Limited Phase II ESA Report, prepared by ATC, are included in Appendix B.

4.2.3 Analysis of VOCs and 1,4-Dioxane in Soil

VOCs are present in soils throughout the area beneath the 750,000-square-foot manufacturing building. VOCs found in soil above GCC include BTEX compounds, TMBs, n-butyl benzene, naphthalene, n-propyl benzene, and CVOCs. 1,4-dioxane was not detected in on-site soils. Figure 10 shows on-site sampling locations and criteria exceedences, and Table 2 presents a summary of VOCs detected in on-site soil during the source area investigation. Analytical data from the Phase II ESA performed by ATC can be found in Appendix B.

Petroleum hydrocarbons, (*i.e.*, BTEX compounds, TMBs, n-butyl benzene, naphthalene, and n-propyl benzene), were detected only in the northern portion of the site. These compounds exceed the DWP criteria and/or the GSIP criteria at eight locations (NS-1, NS-6, NS-9, NS-10, GP-14, GP-15, GP-16, and GP-23) on site. As discussed subsequently, these compounds have not been detected in off-site groundwater above GCC. Therefore, they are not expected to significantly drive remedial activities at the site.

CVOCs detected above GCC in on-site soils include PCE, TCE, and 1,1,1-TCA, their degradation byproducts (1,1-DCE, cis-1,2-DCE, and vinyl chloride). PCE and TCE are present in soils beneath the 750,000-square-foot former manufacturing building, and are likely related to historic solvent usage. The TCE concentration was above the DWP criterion (100 µg/kg) in 45 of 47 samples, above the GSIP criterion (4,000 µg/kg) in 16 samples, and above the Industrial Soil Volatilization to Indoor Air Inhalation Criteria (SVIAIC) (37,000 µg/kg) in 2 samples. The PCE concentration was above the DWP criterion (100 µg/kg) in 18 of 47 samples, and above the GSIP criterion (900 µg/kg) in 5 samples. The highest concentrations of TCE (43,000 µg/kg) and PCE (5,900 µg/kg) in soil were detected at GP-14, which is located in Area K. 1,1,1-TCA is present above GCC primarily in the Southern Source Area. The 1,1,1-TCA concentration was above the DWP (4,000 µg/kg) and GSIP criteria (4,000 µg/kg) in 7 of 47 samples. The highest concentration of 1,1,1-TCA (13,000 µg/kg) in soil was found at SS-5 (3-4'). 1,1-DCE, cis-1,2-DCE, and vinyl chloride, the degradation byproducts of PCE, TCE, and 1,1,1-TCA, were detected less frequently in on-site soils and were found above one or more GCC in only 7 of 47 samples.

4.2.4 Analysis of VOCs and 1,4-Dioxane in Groundwater

The VOC data for on-site source area groundwater include data from the Phase II ESA and from the Source Area Investigation. The Phase II ESA performed by ATC included the advancement of direct push Geoprobe® borings at 28 locations, and collection of 31 groundwater samples for VOCs analysis. Three of these samples (GP-1, GP-24, and GP-26) are located outside of the area of the main manufacturing building at 100 E Patterson and are considered in the discussion below of VOCs in off-site and perimeter groundwater, rather than this discussion of on-site source area groundwater. Preliminary analytical data from ATC's Phase II ESA can be found in Appendix B. The subsequent Source Area Investigation conducted by RMT on behalf of TPC included:

- the advancement of 10 on-site soil borings (NS-1 through NS-10) and collection of 12 groundwater samples for VOCs analysis in the Northern Source Area; and
- the advancement of 8 on-site soil borings (SS-1 through SS-8) and collection of 10 groundwater samples for VOCs and 1,4-dioxane analysis in the Southern Source Area.

Sample locations and criteria exceedences from the Source Area Investigation are shown on Figure 11 and groundwater analytical data are presented in Table 3.

CVOCs detected above the GCC in on-site groundwater include PCE, TCE, 1,1,1-TCA, and their degradation byproducts (1,1-DCE, cis-1,2-DCE, and vinyl chloride). TCE is

present in groundwater throughout the area beneath and adjacent to the 750,000-square-foot former manufacturing building, and is likely related to historic solvent usage. The TCE concentration was above the Drinking Water (DW) criterion (5.0 µg/L) in 45 of 52 samples and above the Groundwater/Surface Water Interface (GSI) criterion (200 µg/L) in 31 samples. The highest concentration of TCE (4,500 µg/L) was detected at NS-6. 1,1,1-TCA is present in groundwater above GCC only in the Southern Source Area. The 1,1,1-TCA concentration was above the DW (200 µg/kg) and GSIP criteria (200 µg/kg) in 12 of 52 samples. The highest concentration of 1,1,1-TCA (8,500 µg/L) in groundwater was found at GP-21. 1,4-Dioxane, which is known to be associated with 1,1,1-TCA, was detected above the Residential DW criterion (85 µg/L) at only one location, SS-6 (23-27') (160 µg/L). PCE was detected above the DW criterion (5.0 µg/L) in only 4 on-site groundwater samples and above the GSI criterion (45 µg/L) at only one sample location. The maximum concentration of PCE in on-site groundwater is 120 µg/L at SS-3 (20-24'). 1,1-DCE, cis-1,2-DCE, and vinyl chloride, the degradation byproducts of PCE, TCE, and 1,1,1-TCA, were found above one or more relevant GCC in 28 of 52 samples. The highest concentration of 1,1-DCE, cis-1,2-DCE, and vinyl chloride were found at GP-21 (920 µg/L), GP-3 (760 µg/L), and NS-3 (37-41') (480 µg/L), respectively.

Benzene and 1,2,4-TMB were each detected above their DW criteria (5.0 µg/L and 63 µg/L, respectively) at a single location. Benzene was detected at GP-16 at a concentration of 9.0 µg/L, and 1,2,4-TMB was detected at a concentration of 64 µg/L at GP-11. These compounds were not detected in perimeter or off-site groundwater (see Section 4.3 below).

4.2.5 Analysis of VOCs in Surface Water

There is no surface water present at the TPC site.

4.2.6 Analysis of VOCs in Indoor Air

No indoor air sampling has been conducted. However, soil analytical data indicate that concentrations of chlorinated ethenes are above the Industrial SVIAIC at two locations, GP-14 and GP-15. Analytical data for GP-14 and GP-15 indicate TCE concentrations of 43 mg/kg and 38 mg/kg, respectively. These concentrations slightly exceed the SVIAIC of 37 mg/kg. Data for GP-15 also indicate a 1,1-DCE concentration of 0.36 mg/kg, which slightly exceeds the SVIAIC of 0.33 mg/kg.

4.3 Existing Off-Site and Perimeter Conditions

4.3.1 Soil

Based on the historical site use, off-site soil is not an affected media as there is no known migration pathway for COCs from the site to affect off-site soils.

4.3.2 Groundwater

The VOC data for off-site and perimeter groundwater include data from the Phase II ESA and from the Source Area Investigation. The Phase II ESA included the collection of 3 groundwater samples from off-site and perimeter locations (GP-1, GP-24, and GP-26). Preliminary analytical data from the Phase II ESA can be found in Appendix B. As described above, the perimeter and off-site investigation conducted by RMT on behalf of TPC included: 1) the advancement of forty-one soil borings (B-1 through B-8, B-10 through B-26, and B-29 through B-44) and collection of 68 groundwater samples; 2) the installation of 17 shallow monitoring wells (MW-1s through MW-17s) at perimeter and off-site locations and collection of groundwater samples from 16 monitoring wells (MW-16s was dry); and 3) collection of 5 additional groundwater samples (B-23b, B-24b, B-27b, B-28b, and B-32b) from the backfill surrounding the storm and sanitary system using an air-knife. Sample locations and criteria exceedences from the perimeter and off-site investigation are shown on Figures 11 and 12 and groundwater analytical data are presented in Table 4.

VOCs detected above GCC in off-site and perimeter groundwater include 1,1,1-TCA, TCE, and the degradation byproducts of TCE (cis-1,2-DCE and vinyl chloride). The lateral extent of the VOCs is shown on Figure 13. 1,1,1-TCA was detected above GCC (200 µg/L) at two on-site perimeter locations MW-1s and MW-9s; 1,1,1-TCA was not detected off-site. The highest concentration of 1,1,1-TCA (1,100 µg/L) was detected at MW-1s on April 20, 2009. 1,4-dioxane was not detected in any of the off-site or perimeter locations. TCE concentrations in groundwater above GCC (5.0 µg/L) were found around the entire perimeter of the site and extend east of the site to B-27b, B-21 and B-29. Cis-1,2-DCE concentrations are above GCC (70 µg/L) near the northeast perimeter of the site (MW-4s, MW-3s, B-23, and B-32). Vinyl chloride concentrations above GCC (2.0 µg/L) are found around the northeast and east perimeter of the site and extend northeast of the site to B-35 and east of the site to B-21. The highest detected concentrations of TCE (5,000 µg/L) and vinyl chloride (520 µg/L) were detected at MW-4s on April 20, 2009, and March 13, 2009, respectively. The highest concentration of cis-1,2-DCE (5,500 µg/L) was detected at B-23a.

Seventeen monitoring wells (MW-1s through MW-17s) were installed at perimeter and off-site locations to monitor water quality adjacent to the site. Nine monitoring wells (MW-1s through MW-9s) were installed around the site perimeter. These wells confirm that CVOCs are present above GCC around the site perimeter. Five monitoring wells (MW-10s, MW-12s, MW-13s, MW-14s, and MW-17s) were installed downgradient of the site (Figure 3). No VOCs were detected above GCC in samples collected from these five wells. These downgradient monitoring wells can be used to confirm that the River Raisin remains unaffected in the future. Two monitoring wells (MW-11s and MW-15s) were installed between the site and the City of Tecumseh water supply wells located approximately ½ mile west of the site. (See Section 6.1 for further discussion of the Public Water Supply Well Survey). No VOCs have been detected in these wells and water levels indicate that drawdown from the city well field has not changed the natural west to east horizontal groundwater flow direction. Upgradient monitoring wells MW-11s and MW-15s can be used in the future to provide background water quality data and to confirm that the City of Tecumseh water supply remains unaffected.

4.3.3 Surface Water

The closest downgradient surface water body is the River Raisin, which is approximately ¼ mile east of the site. The lateral extent of the groundwater plume was defined during the off-site subsurface investigation (Figure 13). There is currently no evidence of any surface water body being affected by the off-site migration of contaminants through groundwater. Five monitoring wells (MW-10s, MW-12s, MW-13s, MW-14s, and MW-17s) were installed to verify the horizontal extent of VOCs downgradient of the site (Figure 3). No VOCs were detected above GCC in samples collected from these wells. These monitoring wells can be used to confirm that the River Raisin remains unaffected in the future.

Storm sewer samples were collected at 8 locations (STW-1 through STW-8) adjacent to the site to determine whether storm water was an affected media and to determine whether COCs had the potential to discharge to the River Raisin above GSI criteria. Storm water analytical data are presented in Table 5 and sample locations are shown on Figure 3. Storm water from the site flows either to the east along Patterson Street or to the south along Maumee Street. Analytical results from STW-1 and STW-7 downgradient of the site to the east and south, respectively, were reported below generic GSI criteria. Consequently, there is no evidence that storm water above the GCC is discharged to the River Raisin.

4.3.4 Indoor Air

Measured concentrations of VOCs in off-site groundwater are below Residential Groundwater Volatilization to Indoor Air Inhalation Criteria (GVIAIC). Therefore, off-site indoor air is not expected to be affected by groundwater volatilization to indoor air.

Section 5
Receptors and Potential Exposure Pathways

5.1 On-Site Receptors

For the TPC site, potential on-site receptors include employees and construction workers. The potentially relevant exposure pathways are listed below, with potential receptors noted in parenthesis.

- Soil:
  - Direct or incidental contact with affected surface soils (employees, construction workers)
  - Direct or incidental contact with affected subsurface soils (construction workers)
  - Incidental ingestion of affected surface soils (tenants, construction workers)
  - Incidental ingestion of affected subsurface soils (construction workers)
- Groundwater:
  - Direct or incidental contact with affected groundwater (tenants, construction workers)
  - Ingestion of affected groundwater (tenants, construction workers)
  - Incidental ingestion of affected groundwater (construction worker)
- Air:
  - Inhalation of affected indoor air (tenants, construction workers)

5.2 Off-Site Receptors

Potential off-site receptors include tenants (residents, owners, and employees), construction workers, recreational users, and flora/fauna. The potentially relevant exposure pathways are listed below, with potential receptors noted in parenthesis.

- Groundwater:
  - Direct or incidental contact with affected groundwater (tenants, construction workers)
  - Ingestion of affected groundwater (tenants, construction workers)
  - Incidental ingestion of affected groundwater (construction worker)

- Air:
  - Inhalation of affected indoor air (tenants, construction workers)
- Surface Water:
  - Direct or incidental contact with affected surface water (recreational users, flora/fauna)
  - Incidental ingestion of surface water (recreational users, flora/fauna)

5.3 Potentially Applicable Criteria and Clean-up Requirements

The TPC site is zoned for industrial use and is anticipated to remain industrial in the future. The area downgradient of the site, where groundwater may be affected by off-site migration of VOCs, is zoned for mixed residential-commercial use. A zoning map for the City of Tecumseh can be found in Appendix D. Based on current and anticipated future land use, the generic Part 201 **industrial** criteria were used to evaluate on-site exposure pathways. Generic **residential** Part 201 criteria were used to evaluate potential exposure pathways off-site. Potentially applicable criteria include the following:

- On-Site:
  - Industrial Soil (SVIIC) and Groundwater (GVIIC) Volatilization to Indoor Air Inhalation Criteria
  - Industrial Direct Contact (DC) Criteria – soil and groundwater
  - Drinking Water Protection (DWP) Criteria – soil
  - Groundwater/Surface Water Interface Protection (GSIP) Criteria – soil
  - Groundwater Contact Protection (GCP) Criteria – soil
  - Drinking Water (DW) Criteria – groundwater
  - Groundwater/Surface Water Interface (GSI) Criteria – groundwater
- Off-Site:
  - Residential Groundwater (GVIIC) Volatilization to Indoor Air Inhalation Criteria
  - Residential Direct Contact (DC) Criteria – groundwater
  - Residential Drinking Water (DW) Criteria – groundwater
  - Groundwater/Surface Water Interface (GSI) Criteria – groundwater

5.4 Non-Relevant Criteria

Based on a comparison of VOC analytical data to Part 201 criteria, the following criteria are not exceeded at any of the applicable (on-site or perimeter/off-site) sample locations and are therefore not relevant:

- On-Site:
  - Industrial Groundwater (GVIIC) Volatilization to Indoor Air Inhalation Criteria
  - Industrial Direct Contact (DC) Criteria – soil and groundwater
  - Groundwater Contact Protection (GCP) Criteria – soil
- Off-Site:
  - Residential Groundwater (GVIIC) Volatilization to Indoor Air Inhalation Criteria
  - Residential Direct Contact (DC) Criteria – groundwater

5.5 Potentially Relevant Criteria and Pathway Evaluation

Based on a comparison of analytical data to applicable Part 201 criteria, there are only five potentially relevant criteria. The three relevant exposure pathways associated with these criteria include:

- On-site or off-site ingestion of affected groundwater (DW and DWP Criteria)
- On-site inhalation of affected indoor air (Industrial SVIIC)
- Contact with or incidental ingestion of affected surface water (GSI and GSIP Criteria)

The completeness of these relevant exposure pathways is evaluated below. Complete or potentially complete exposure pathways may need to be addressed through Restrictive Covenants (or equivalent):

5.5.1 Ingestion of Affected Groundwater

On-site VOCs have been identified in soil and groundwater above the industrial DWP and DW Criteria. However, the TPC site is connected to water from the City of Tecumseh. On-site groundwater is not used as a potable water source, nor are there any on-site supply wells. Consequently, ingestion of on-site groundwater is a relevant, but incomplete, exposure pathway. TPC is the current owner of the site and intends to record a Restrictive Covenant with the local register of deeds to further restrict this potential route of exposure..

VOCS have been detected in off-site groundwater above DW Criteria. As described in Section 6, RMT conducted a well survey to determine if ingestion of off-site

groundwater was a complete exposure pathway. VOCs were identified above the GCC at two well locations. One property was using the well water for potable purposes; the other well is used for irrigation. The property that utilizes the water for irrigation has been notified of the test results. The property using the water for potable purposes has since been connected to the municipal water supply, and the shallow water supply well at the property has been decommissioned. Subsequent to this action, there are no known instances of ingestion of affected groundwater. Ingestion of off-site groundwater is a relevant pathway. However, data indicate this pathway is currently incomplete.

5.5.2 On-Site Inhalation of Affected Indoor Air

Soil analytical data indicate that concentrations of chlorinated ethenes are above the Industrial SVIAIC at two locations, GP-14 and GP-15. Analytical data for GP-14 and GP-15 indicate TCE concentrations of 43 mg/kg and 38 mg/kg, respectively. These concentrations slightly exceed the SVIAIC of 37 mg/kg. Data for GP-15 also indicate a 1,1-DCE concentration of 0.36 mg/kg, which slightly exceeds the SVIAIC of 0.33 mg/kg. Neither of these locations is within the limited area that is currently occupied by the remaining TPC employees. On-site inhalation of affected indoor air is a relevant pathway. Further evaluation is necessary to determine if this pathway is complete.

5.5.3 Contact with or Incidental Ingestion of Affected Surface Water

The closest downgradient surface water body is the River Raisin, which is approximately ¼ mile east of the site. Analytical data indicate that concentrations of VOCs in on-site soil and in on-site and off-site groundwater are above GSI and GSIP Criteria. However, as described in Section 4 above, there is currently no evidence of any surface water body being affected by the off-site migration of COCs. Therefore, data indicate that contact with ingestion of affected surface water is a potentially relevant, but currently incomplete, exposure pathway.

Section 6
Summary of Response Activities

6.1 Public Water Supply Well Survey

The City of Tecumseh owns and operates two municipal well fields. One well field is located north of the City of Tecumseh, and is on the north (opposite) side of the River Raisin relative to the TPC site. The second well field (south) is located approximately one-half mile west of the site, west of South Union Street. This well field is hydraulically upgradient of the site, and analytical data from water quality testing routinely performed by the City of Tecumseh indicate that these wells are unaffected by COCs. Furthermore, a monitoring well (MW-11s) was installed approximately halfway between the well field and the site and near the edge of the wellhead protection area. No VOCs were detected in samples collected from MW-11s. Groundwater elevation data does not indicate that drawdown associated with the municipal well field has affected the horizontal groundwater flow direction (Table 1 and Figure 9).

6.2 Private Well Survey

RMT conducted a private well survey to determine whether potentially affected off-site groundwater was used as potable water or for other uses. The survey area extended from Pearl Street west of the site to the River Raisin, south to Russell Road and north to Potawatomie Street. The survey included a search of publicly available water well logs through the MDEQ website (Well Logic System and historical well logs database) and through a Freedom of Information Act request to the Lenawee County Health Department (LCHD). Well logs obtained from the MDEQ or LCHD for wells that may be located within the area described above are included in Appendix E. RMT also worked with the City of Tecumseh to identify properties that do not use municipal water (*i.e.*, are not receiving a water bill from the City of Tecumseh).

As described below, Notices of Off-Site Migration (NOMs) were sent to potentially affected property owners. Each NOM requested that property owners with private wells contact TPC to arrange for their well to be tested at no cost to them. A representative from TPC and RMT hand delivered NOMs to the owners of the properties not connected to city water in order to personally verify the presence of a private well and to request permission to collect a sample for analysis. Of the properties receiving NOMs, one non-potable (irrigation) supply well and five potable water supply wells were identified. The non-potable (irrigation) well (509 S. Maumee Street) and one of the five potable water supply wells (610 Mohawk Street) were determined to be relatively shallow (*e.g.*, less than 25 feet bgs). The four remaining potable wells were deeper (*e.g.*, greater than 50 feet). No well logs were available for the two shallow wells or for one of

the deeper wells (307 Kilbuck Street). Well logs for the other three deeper wells are included in Appendix E.

6.3 Notices of Off-Site Migration

On April 8, 2009, and June 1, 2009, TPC submitted NOM letters to seventy-two property owners in the City of Tecumseh to notify them that contaminated groundwater, which originated beneath the subject site, may have migrated beneath their property. Included with this letter was a Question and Answers page, an MDEQ Notice of Migration of Contamination Form, a table identifying the potentially affected property owners, a figure identifying potentially affected properties, and analytical results from the City of Tecumseh Municipal Water Supply, which show that the municipal water supply has not been affected by the VOCs (Appendix F). Figure 14 identifies potentially affected properties and property information is listed in Table 6.

6.4 Private Water Supply Well Testing

During the RMT private well survey, described above, six private water supply wells were identified downgradient of the subject site (one irrigation and five potable). In order to verify whether or not these wells were affected by the contaminant plume, TPC collected water samples from each well to be analyzed for VOCs by USEPA Method 524.2 (Drinking Water) and for 1,4-dioxane by USEPA Method 8270C in wells downgradient of the south (former vapor degreaser) source area. A seventh well, not located within the extent of known VOCs, at 6719 Mills Highway (immediately south of the study area) was also tested at the owner's request.

Results indicate that two shallow water wells, located at 610 Mohawk Street and at 509 S. Maumee Street, are affected by VOCs (Appendix G). The well at 610 Mohawk Street (reportedly approximately 18 feet deep) was used as a potable water supply well. No well log was available for this well. The property owner was notified immediately after the data were received and was supplied with bottled water. Additionally, TPC made arrangements with the property owner to connect him to the municipal water supply. In May 2009, 610 Mohawk was connected to the municipal water supply and the shallow water well at the property was decommissioned. The property at 509 S. Maumee Street is connected to the municipal water supply and the private supply well is used as a non-potable supply well for on-site irrigation. The property owner was notified by TPC on August 25, 2009. 1,4-dioxane was not detected in any of the private water supply wells.

The remaining five potable wells (four in the study area and one immediately south of the study area) appear to be screened in a deeper water bearing unit, and do not appear to be withdrawing

groundwater from the affected aquifer. As part of ongoing investigation and monitoring activities, TPC will perform periodic monitoring of these water wells.

6.5 Installation of Monitoring Well Network

As part of the perimeter investigation conducted by RMT in March 2009, nine monitoring wells (MW-1s through MW-9s) were installed around the perimeter of the site so that off-site migration of COCs could be monitored. Samples were collected at these locations between March 13 and March 16, 2009, and again on April 20, 2009. Based on preliminary results of the off-site subsurface investigation, two upgradient (MW-11s and MW-12s) and six downgradient (MW-10s, MW-13s, MW-14s, MW-15s, MW-16s and MW-17s) monitoring wells were installed off-site. MW-16s is dry, and TPC plans to abandon it. No VOCs have been detected above GCC in the five monitoring wells (MW-10s, MW-13s, MW-14s, MW-15s, and MW-17s) downgradient of the plume. These monitoring wells may be used to confirm that the River Raisin remains unaffected in the future.

Section 7
Summary/Conclusions

This Current Conditions Report for the TPC manufacturing site in Tecumseh, Michigan, provides a description of physical setting, site history, on-site and off-site investigation activities, the nature and extent of affected media, and a summary of potentially complete exposure pathways. Key findings are listed below:

- COCs have been identified in soil and groundwater at the site above potentially relevant generic Part 201 cleanup criteria.
- There is no evidence of a significant on-site source of SVOCs or metals, nor is there evidence to suggest that these potential COCs are likely to migrate off-site. Therefore, VOCs, particularly CVOCs, were the focus of the investigation conducted by RMT and are expected to drive the scope of corrective action at the site.
- Historical operations at TPC focused on the production and reconditioning of compressors and condensing units for refrigeration and air conditioning units. Two likely source areas, the Northern Source Area located in the former manufacturing areas in and around Area K (TCE and degradation byproducts) and the Southern Source Area in the vicinity of Area M (1,1,1-TCA, TCE and degradation byproducts), were identified.
  - There is no single known source for TCE in the Northern Source Area and TCE is detected at varying concentrations throughout the area. The distribution suggests incidental usage during the manufacturing process.
- A distillation and solvent recovery system (SWMU 5) was located in the vicinity of the Southern Source Area and is the most likely source of the COCs in this area.
- Any VOC-affected media generated during any future remedial investigations/actions (*e.g.*, soil boring auger cuttings, soil, broken concrete, etc.) removed from the site will be characterized based on representative sampling and analyzed/assessed for hazardous characteristics, because there are no known or documented releases from hazardous waste storage units where F001 waste was managed on-site. Furthermore, no determination can be made if 1,1,1-TCA and/or TCE were in soil and groundwater prior to promulgation of RCRA regulations and the effective date of applicable land disposal restrictions. This approach is consistent with the USEPA's *Management of Remediation Waste Under RCRA* guidance document, published in 1998.
- CVOCs, specifically 1,1,1-TCA, TCE, cis-1,2-DCE, and vinyl chloride, have been identified in groundwater at perimeter and off-site locations.
- The horizontal extent of groundwater affected by CVOCs has been defined and is shown on Figure 13. The vertical extent of VOC-affected groundwater has not been fully

characterized. However, data support that a relatively continuous clay layer downgradient of the site is impeding vertical migration of VOCs into deeper aquifers.

- Municipal water wells are located approximately ½ mile from the site. These wells are upgradient of the site and are not affected by COCs.
- Private water supply wells have been identified in the affected area; these wells were sampled and tested for VOCs. VOCs were identified above the GCC at one potable water supply well and one water supply well used for irrigation.
  - The affected potable water supply well has been decommissioned and the property has since been connected to the municipal water supply. Subsequent to this action, there are no known instances of ingestion of affected groundwater.
  - The owner of the water supply well used for irrigation has been notified.
- Concentrations of COCs are below the applicable criteria; therefore, the following exposure pathways are not relevant:
  - Off-site indoor air inhalation pathway
  - On-site and off-site direct contact pathway
- Concentrations of COCs are above the SVIAIC at two locations; therefore, on-site inhalation of affected indoor air is a relevant and potentially complete exposure pathway.
- Groundwater and storm water analytical data indicate that surface water is currently not an affected media. Therefore, contact with or ingestion of affected surface water is a relevant, but currently incomplete, exposure pathway.
- The well survey indicates that there are currently no known instances of ingestion of affected groundwater. Therefore, ingestion of affected groundwater is a relevant, but incomplete, exposure pathway.
- TPC, the current owner of the site, intends to place a Restrictive Covenant on the site to prevent the future installation and use of on-site water supply wells.

Section 8
References

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Jones and Henry Engineers, Ltd., Toledom Ohio. June 1997. Wellhead Protection Program Delineation of Wellhead Protection Area. Prepared for the City of Tecumseh, Michigan.

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Tables

Table 1
Groundwater Elevations
Tecumseh Products Company
Tecumseh, Michigan

Well Location	Top of Well Casing (ft MSL)	Measurement Date	Depth to Groundwater (ft BTOC)	Groundwater Elevation (ft MSL)
MW-1S	796.53	03/16/09	16.13	780.40
		04/20/09	15.95	780.58
		06/04/09	16.14	780.39
MW-2S	802.14	03/16/09	21.94	780.20
		04/20/09	21.60	780.54
		06/04/09	21.53	780.61
MW-3S	787	03/16/09	7.63	779.37
		04/20/09	7.45	779.55
		06/04/09	7.63	779.37
MW-4S	794.42	03/16/09	14.64	779.78
		04/20/09	14.40	780.02
		06/04/09	14.48	779.94
MW-5S	805.59	03/16/09	24.73	780.86
		04/20/09	24.40	781.19
		06/04/09	24.41	781.18
MW-6S	803.73	03/16/09	23.26	780.47
		04/20/09	22.85	780.88
		06/04/09	22.72	781.01
MW-7S	804.4	03/16/09	23.85	780.55
		04/20/09	23.40	781.00
		06/04/09	23.24	781.16
MW-8S	804.39	03/16/09	23.61	780.78
		04/20/09	23.30	781.09
		06/04/09	23.24	781.15
MW-9S	783.97	03/16/09	4.46	779.46
		04/20/09	4.30	779.67
		06/04/09	4.63	779.34
MW-10S	788.65	03/16/09	NI	NI
		04/20/09	NI	NI
		06/04/09	10.46	778.19
MW-11S	809.64	03/16/09	NI	NI
		04/20/09	NI	NI
		06/04/09	28.09	781.55
MW-12S	790.9	03/16/09	NI	NI
		04/20/09	NI	NI
		06/04/09	12.40	778.50
MW-13S	787.35	03/16/09	NI	NI
		04/20/09	NI	NI
		06/04/09	14.88	772.47
MW-14S	780.67	03/16/09	NI	NI
		04/20/09	NI	NI
		06/04/09	5.12	775.55
MW-15S	811.72	03/16/09	NI	NI
		04/20/09	NI	NI
		06/04/09	29.59	782.13
MW-16S	782.9	03/16/09	NI	NI
		04/20/09	NI	NI
		07/23/09	Dry	NM
MW-17S	754.49	03/16/09	NI	NI
		04/20/09	NI	NI
		07/23/09	5.33	749.16

Notes:
Survey conducted to feet mean sea level by Midwestern Consultants, Inc. (2009)
ft BTOC - feet below top of casing
ft MSL - feet above mean sea level
NI - Not Installed at time of measurement
NM - Not Measured

Table 2
Summary of Detected Volatile Organic Compounds in On-Site Soil
Tecumseh Products Company
Tecumseh, Michigan

Analyte		n-Butyl Benzene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	Ethylbenzene[2]	Napthalene	N-propyl Benzene[2]	Tetrachloroethene	Toluene[2]	1,1,1-Trichloroethane	Trichloroethene	1,2,4-Trimethylbenzene[2]	1,3,5-Trimethylbenzene[2]	Vinyl Chloride	Xylenes[2]
Residential DWPC		1,600	1,400	2,000	1,500	35,000	1,600	100	16,000	4,000	100	2,100	1,800	40	5,600
Industrial DWPC		4,600	1,400	2,000	1,500	1.00E+05	4,600	100	16,000	4,000	100	2,100	1,800	40	5,600
GSI Protection Criteria		NC	12,000	30,000	360	870	NC	900[1]	2,800	4,000	4000[1]	570	1,100	300	700
Groundwater Contact Protection Criteria		1.20E+05	6.40E+05	1.40E+06	1.40E+05	2.10E+06	3.00E+05	88,000	2.50E+05	4.60E+05	4.40E+05	1.10E+05	94,000	20,000	1.50E+05
Soil Volatilization to IAI Criteria		NC	41,000	43,000	1.40E+05	4.70E+05	NC	60,000	2.50E+05	4.60E+05	37,000	1.10E+05	94,000	2,800	1.50E+05
Industrial and Commercial DCC		8.00E+06	6.40E+05	1.40E+06	1.40E+05	5.20E+07	8.00E+06	88,000	2.50E+05	4.60E+05	5.00E+05	1.10E+05	94,000	34,000	1.50E+05
Units		ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg
NS-01 (0-4')	4/17/2009	<39	<39	<39	<39	**480**	<39	<39	<39	<39	**1,900**	<39	<39	<39	<117
NS-01 (16-20')	4/17/2009	<25	<25	<25	<25	<250	<25	<25	<25	<25	**510**	<25	<25	<25	<75
NS-02 (0-4')	4/16/2009	<27	<27	<27	<27	<270	<27	<27	<27	<27	**350**	<27	<27	<27	<80
NS-02 (8-12')	4/16/2009	<27	<27	<27	<27	<270	<27	<27	<27	<27	**750**	<27	<27	<27	<81
NS-04 (8-12')	4/16/2009	<29	<29	<29	<29	<290	<29	<29	<29	<29	<29	<29	<29	<29	<86
NS-05 (12-14')	4/20/2009	<33	**58**	<33	<33	<330	<33	**40**	<33	**33**	**4,500**	<33	<33	<33	<99
NS-06 (2-3')	4/20/2009	<26	**9,600**	**230**	**140**	**310**	**430**	**510**	**82**	<26	**5,200**	**4,000**	**1,400**	**140**	**1,070**
NS-06 (23-24')	4/20/2009	<30	<30	<30	<30	<300	<30	<30	<30	<30	**520**	<30	<30	<30	<90
NS-07 (10-11')	4/21/2009	<29	<29	<29	<29	<290	<29	**340**	<29	<29	**1,500**	<29	<29	<29	<87
NS-07 (10-11') Dup-03	4/21/2009	<24	<24	<24	<24	<240	<24	**320**	<24	<24	**1,400**	<24	<24	<24	<72
NS-08 (15-16')	4/21/2009	<63	<63	<63	<63	<630	<63	**830**	<63	<63	**4,300**	<63	<63	<63	<193
NS-09 (2-3')	4/21/2009	**1,200**	**4,900**	**77**	**88**	**1,200**	**370**	<30	**86**	<30	**310**	**5,400**	**1,900**	**480**	**720**
NS-10 (8-9')	4/21/2009	**9,100**	**880**	<430	**1,200**	**14,000**	**4,000**	**450**	**920**	<430	<430	**34,000**	**9,700**	<430	**6,700**
NS-10 (10-11')	4/21/2009	**910**	**340**	<27	**110**	**1,500**	**360**	**28**	**90**	<27	**61**	**3,100**	**980**	**72**	**660**
SS-01(1-1.5')	4/15/2009	<32	<32	<32	<32	<320	<32	<32	<32	**840**	**1,900**	<32	<32	<32	<96
SS-02 (8-12')	4/16/2009	<29	<29	<29	<29	<290	<29	**69**	<29	**810**	**970**	<29	<29	<29	<87
SS-02 (16-20')	4/16/2009	<29	<29	<29	<29	<290	<29	**110**	<29	**1,300**	**1,500**	<29	<29	<29	<88
SS-02 (16-20') Dup-01	4/16/2009	<32	<32	<32	<32	<320	<32	**160**	<32	**1,900**	**2,300**	<32	<32	<32	<96
SS-03 (8-12')	4/16/2009	<30	<30	<30	<30	<300	<30	**1,100**	<30	**1,200**	**900**	<30	<30	<30	<91
SS-03 (16-20')	4/16/2009	<35	<35	<35	<35	<350	<35	**3,900**	<35	**3,500**	**2,800**	<35	<35	<35	<105
SS-04 (8-12')	4/17/2009	<120	<120	<120	<120	<1200	<120	**490**	<120	**8,200**	**4,400**	<120	<120	<120	<350
SS-04 (12-16')	4/17/2009	<30	<30	<30	<30	<300	<30	**230**	<30	**3,500**	**1,800**	<30	<30	<30	<90
SS-05 (3-4')	4/17/2009	<130	<130	<130	<130	<1300	<130	**240**	<130	**13,000**	**11,000**	<130	<130	<130	<390
SS-05 (12-13')	4/17/2009	<30	<30	<30	<30	<300	<30	**130**	<30	**4,400**	**3,300**	<30	<30	<30	<91
SS-05 (20-21')	4/17/2009	<26	<26	<26	<26	<260	<26	**180**	<26	**7,700**	**5,500**	<26	<26	<26	<78
SS-06 (5-7')	4/17/2009	<34	<34	<34	<34	<340	<34	<34	<34	**230**	**120**	<34	<34	<34	<101
SS-6 (5-7') Dup-02	4/17/2009	<40	<40	<40	<40	<400	<40	<40	<40	**320**	**160**	<40	<40	<40	<120
SS-07 (21-22')	4/20/2009	<35	<35	<35	<35	<350	<35	<35	<35	**1,600**	**5,000**	<35	<35	<35	<106
SS-08 (19-20')	4/21/2009	<130	<130	<130	<130	<1300	<130	**250**	<130	**7,300**	**8,600**	<130	<130	<130	<390

Notes:

Residential and Industrial Health-Based Drinking Water Protection Criteria (DWPC), Groundwater Surface Water Interface (GSI) Protection Criteria, Groundwater Contact Protection Criteria, Commercial and Industrial Soil Volatilization to Indoor Air Inhalation (IAI) Criteria, and Residential and Industrial Direct Contact Criteria (DCC) from MDEQ RRD Op Memo 1 Part 201 Generic Cleanup Criteria/Part 213 Risk Based Cleanup Levels, January 23, 2006.

ug/kg = micrograms per kilogram

NC = No Criteria

NA = Not Analyzed

bold font denotes concentrations detected above laboratory reporting limits

Denotes concentrations above one or more criteria

1) Criterion is not protective for surface water used as a drinking water source as described in footnote {X} of MDEQ Op Memo 1 Part 201, Attachment 1.

2) Compound may exhibit characteristic ignitability as defined in 40 C.F.R. § 261.21

Table 3
Summary of Detected Volatile Organic Compounds in Groundwater
On-Site Source Area Locations
Tecumseh Products Company
Tecumseh, Michigan

Analyte		Chloroethane	Chloroform	1,1-Dichloroethane	1,1-Dichloroethene[2]	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	Tetrachloroethene	1,1,1-Trichloroethane	Trichloroethene	1,2,4-Trimethylbenzene[2]	Vinyl Chloride	1,4-Dioxane[2]
Residential & Industrial Aesthetic DWC		NC	NC	NC	NC	NC	NC	NC	NC	NC	63	NC	NC
Residential Health-Based DWC		430	80	880	7.0	70	100	5.0	200	5.0	1000	2.0	85
Industrial Health-Based DWC		1,700	80	2,500	7.0	70	100	5.0	200	5.0	2900	2.0	350
GSI Criteria		NC	170[1]	740	65[1]	620	1,500	45[1]	200	200[1]	17	15	2800[1]
Residential Volatilization to IAI Criteria		2.50E+05	28,000	1.0E+6	200	93,000	85,000	25,000	6.6E+5	15,000	56,000	1,100	NC
Industrial Volatilization to IAI Criteria		5.50E+05	1.80E+05	2.3E+6	1,300	2.1E+5	2.0E+5	1.7E+5	1.3E+6	97,000	56,000	13,000	NC
Groundwater Contact Criteria		1.20E+06	1.50E+05	2.4E+6	11,000	2.0E+5	2.2E+5	12,000	1.3E+6	22,000	56,000	1,000	1.70E+06
Units		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
NS-01 (20-24')	4/17/2009	<100	<20	<20	<20	**260**	<20	<20	<20	**830**	<20	<20	NA
NS-02 (20-24')	4/17/2009	<250	<50	<50	<50	**590**	<50	<50	<50	**1700**	<50	**430**	NA
NS-03 (16-20')	4/15/2009	<20	<4.0	<4.0	<4.0	**23**	<4.0	<4.0	<4.0	**45**	<4.0	**41**	NA
NS-03 (37-41')	4/15/2009	<5.0	<1.0	<1.0	<1.0	**9.8**	<1.0	<1.0	<1.0	**19**	<1.0	**480**	NA
NS-04 (14-18')	4/16/2009	<5.0	<1.0	**1.4**	<1.0	**11**	**1.0**	<1.0	<1.0	<1.0	<1.0	<1.0	NA
NS-04 (32-36')	4/16/2009	<5.0	<1.0	<1.0	<1.0	**5.9**	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	NA
NS-05 (20-24')	4/20/2009	<1000	<200	<200	<200	<200	<200	<200	<200	**2900**	<200	<200	NA
NS-06 (22-24')	4/20/2009	<500	<100	<100	<100	**220**	<100	<100	**100**	**4500**	<100	<100	NA
NS-07 (20-24')	4/21/2009	<100	<20	<20	<20	**34**	<20	**30**	<20	**710**	<20	<20	NA
NS-08 (20-24')	4/21/2009	<100	<20	**21**	<20	**100**	<20	**28**	<20	**960**	<20	**27**	NA
NS-08 (20-24'), Dup-09	4/21/2009	<100	<20	**22**	<20	**100**	<20	**29**	<20	**950**	<20	**30**	NA
NS-09 (20-24')	4/21/2009	**5.8**	**1.1**	**46**	<1.0	**110**	**5.0**	<1.0	<1.0	**16**	**1.3**	**140**	NA
NS-10 (21-25')	4/21/2009	<50	<10	**26**	<10	**380**	**13**	<10	<10	<10	**17**	**45**	NA
SS-01 (24-28')	4/15/2009	<1000	<200	<200	<200	<200	<200	<200	**1500**	**1500**	<200	<200	<25
SS-01 (45-49')	4/15/2009	<5.0	<1.0	**2.5**	<1.0	**9.9**	<1.0	<1.0	**2.7**	**5.8**	<1.0	<1.0	<25
SS-02 (20-24')	4/16/2009	<500	<100	<100	<100	<100	<100	<100	**2200**	**1000**	<100	<100	<25
SS-02 (42-46')	4/16/2009	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	**4.5**	**5.3**	<1.0	<1.0	<25
SS-03 (20-24')	4/16/2009	<250	<50	<50	<50	<50	<50	**120**	**600**	**430**	<50	<50	<25
SS-04 (22-24')	4/17/2009	<500	<100	<100	<100	<100	<100	<100	**2500**	**1100**	<100	<100	<25
SS-05 (22-26')	4/17/2009	<500	<100	<100	<100	<100	<100	<100	**2200**	**1300**	<100	<100	<25
SS-06 (23-27')	4/17/2009	<1000	<200	<200	<200	<200	<200	<200	**2600**	**1100**	<200	<200	**160**
SS-07 (22-26')	4/20/2009	<500	<100	<100	<100	<100	<100	<100	**1300**	**1400**	<100	<100	<25
SS-08 (23-27')	4/21/2009	<500	<100	<100	<100	<100	<100	<100	**4100**	**2300**	<100	<100	**38**

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Table 4
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Perimeter and Off-Site Locations
Tecumseh Products Company
Tecumseh, Michigan

Analyte		Carbon Disulfide[2,3]	Dichlorodi-fluoromethane	1,1-Dichloroethane	1,2-Dichloroethane[2]	1,1-Dichloroethene[2]	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	Tetrachloroethene	Toluene[2]	1,1,1-Trichloroethane	Trichloroethene	Vinyl Chloride	Xylenes[2]
Residential & Industrial Aesthetic DWC		NC	NC	NC	NC	NC	NC	NC	NC	790	NC	NC	NC	280
Residential Health-Based DWC		800	1,700	880	5.0	7.0	70	100	5.0	1,000	200	5.0	2.0	10000
Industrial Health-Based DWC		2,300	4,800	2,500	5.0	7.0	70	100	5.0	1,000	200	5.0	2.0	10000
GSI Criteria		NC	NC	740	360[1]	65[1]	620	1,500	45[1]	140	200	200[1]	15	35
Residential Volatilization to IAI Criteria		2.5E+5	2.20E+05	1.0E+6	9,600	200	93,000	85,000	25,000	5.30E+05	6.6E+5	15,000	1,100	1.90E+05
Industrial Volatilization to IAI Criteria		5.5E+5	3.00E+05	2.3E+6	59,000	1,300	2.1E+5	2.0E+5	1.7E+5	5.30E+05	1.3E+6	97,000	13,000	1.90E+05
Groundwater Contact Criteria		1.2E+6 (S)	3.00E+05	2.4E+6	19,000	11,000	2.0E+5	2.2E+5	12,000	5.30E+05	1.3E+6	22,000	1,000	1.90E+05
Units		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
B-01 (26'-30')	03/09/2009	<1.0	<1.0	**26**	**1.0**	**5.9**	**120**	**12**	<1.0	**5.3**	<1.0	**200**	<1.0	<3.0
B-01 (46'-50')	03/09/2009	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	**4.2**	<1.0	**6.8**	**5.0**	<3.0
B-02 (22'-26')	03/10/2009	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	**1.8**	**27**	<3.0
B-02 (33'-37')	03/10/2009	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	**4.0**	**16**	<3.0
B-03 (26'-30')	03/09/2009	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	**2.6**	<1.0	<1.0	**1.4**	<3.0
B-03 (38'-42')	03/09/2009	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	**2.2**	<1.0	<1.0	<1.0	<3.0
B-04 (19'-23')	03/10/2009	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	**12**	<3.0
B-04 (19-23'), Dup-01	03/10/2009	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	**12**	<3.0
B-04 (29'-33')	03/10/2009	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<3.0
B-05 (14'-18)	03/10/2009	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	**11**	<3.0
B-05 (22'-26')	03/10/2009	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	**3.7**	<3.0
B-06 (44'-48')	03/13/2009	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	**3.5**	<1.0	<1.0	<1.0	<3.0
B-07 (44'-48')	03/16/2009	**3.5**	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<3.0
B-08 (44'-48')	03/13/2009	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<3.0
B-10 (24-28')	4/16/2009	NA	NA	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	**57**	<1.0	<2.0
B-11 (29-33')	4/16/2009	NA	NA	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0
B-12 (24-28')	4/16/2009	NA	NA	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	**2.5**	<1.0	<2.0
B-12 (24-28'), Dup-05	4/16/2009	NA	NA	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	**2.2**	<1.0	<2.0
B-13 (29-33')	4/17/2009	NA	NA	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0
B-13 (46-50')	4/16/2009	NA	NA	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0
B-14 (16-20')	4/14/2009	NA	NA	<100	<100	<100	<100	<100	<100	<100	<100	**1100**	<100	<200
B-14 (36-40')	4/14/2009	NA	NA	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	**2.4**	<1.0	<2.0
B-15 (24-28')	4/20/2009	NA	NA	<1.0	<1.0	<1.0	<1.0	<1.0	**1.5**	<1.0	**9.9**	**2.8**	<1.0	<2.0
B-15 (44-48')	4/20/2009	NA	NA	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	**8.7**	<1.0	<2.0
B-17 (24-28')	4/20/2009	NA	NA	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0
B-18 (22-26')	4/14/2009	NA	NA	<1.0	<1.0	<1.0	**2.3**	<1.0	<1.0	**1.4**	<1.0	<1.0	<1.0	<2.0
B-18 (32-36')	4/14/2009	NA	NA	<1.0	<1.0	<1.0	**1.4**	<1.0	<1.0	**1.4**	<1.0	<1.0	<1.0	<2.0

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Residential & Industrial Aesthetic DWC		NC	NC	NC	NC	NC	NC	NC	NC	790	NC	NC	NC	280
Residential Health-Based DWC		800	1,700	880	5.0	7.0	70	100	5.0	1,000	200	5.0	2.0	10000
Industrial Health-Based DWC		2,300	4,800	2,500	5.0	7.0	70	100	5.0	1,000	200	5.0	2.0	10000
GSI Criteria		NC	NC	740	360[1]	65[1]	620	1,500	45[1]	140	200	200[1]	15	35
Residential Volatilization to IAI Criteria		2.5E+5	2.20E+05	1.0E+6	9,600	200	93,000	85,000	25,000	5.30E+05	6.6E+5	15,000	1,100	1.90E+05
Industrial Volatilization to IAI Criteria		5.5E+5	3.00E+05	2.3E+6	59,000	1,300	2.1E+5	2.0E+5	1.7E+5	5.30E+05	1.3E+6	97,000	13,000	1.90E+05
Groundwater Contact Criteria		1.2E+6 (S)	3.00E+05	2.4E+6	19,000	11,000	2.0E+5	2.2E+5	12,000	5.30E+05	1.3E+6	22,000	1,000	1.90E+05
Units		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
B-19 (12-16')	4/15/2009	NA	NA	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	**11**	<2.0
B-19 (29-33')	4/15/2009	NA	NA	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	**1.0**	<1.0	<1.0	**10**	<2.0
B-20 (18-22')	4/15/2009	NA	NA	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0
B-20 (8-12')	4/15/2009	NA	NA	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0
B-21 (13-17')	4/15/2009	NA	NA	**8.1**	<1.0	<1.0	**13**	**2.2**	<1.0	<1.0	**3.6**	**30**	**58**	<2.0
B-21 (6-10')	4/15/2009	NA	NA	**3.3**	<1.0	<1.0	**3.6**	<1.0	<1.0	<1.0	<1.0	**6.9**	**1.0**	<2.0
B-22 (18-23')	4/14/2009	NA	NA	<20	<20	<20	<20	<20	<20	<20	**53**	**190**	<20	<40
B-22 (40-44')	4/14/2009	NA	NA	<1.0	<1.0	<1.0	**13**	<1.0	<1.0	<1.0	**1.4**	**3.0**	<1.0	<2.0
B-23a (14-18')	4/13/2009	NA	NA	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	**4.8**	<2.0	**23**	<2.0	<6.0
B-23a (14-18'), Dup-01	4/13/2009	NA	NA	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	**5.0**	<2.0	**26**	<2.0	<6.0
B-23a (30-34')	4/13/2009	NA	NA	<250	<250	<250	**5500**	<250	<250	<250	<250	**1700**	<250	<750
B-23b (14-16')	4/15/2009	NA	NA	<1.0	<1.0	<1.0	<1.0	<1.0	**1.7**	<1.0	<1.0	**8.9**	<1.0	<2.0
B-24a (6-10')	4/13/2009	NA	NA	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	**150**	<5.0	<15
B-24a (28-32')	4/13/2009	NA	NA	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	**1.6**	**6.7**	<2.0
B-24b (5-7')	4/16/2009	NA	NA	<20	<20	<20	<20	<20	<20	<20	**29**	**740**	<20	<40
B-24b (5-7'), Dup-04	4/16/2009	NA	NA	<50	<50	<50	<50	<50	<50	<50	<50	**770**	<50	<100
B-25 (7-11')	4/17/2009	NA	NA	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0
B-25 (7-11'), Dup-06	4/17/2009	NA	NA	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0
B-25 (31-35')	4/17/2009	NA	NA	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0
B-26 (16-20')	4/14/2009	NA	NA	<1.0	<1.0	<1.0	**3.2**	<1.0	<1.0	**1.2**	<1.0	<1.0	**3.1**	<2.0
B-26 (29-33')	4/14/2009	NA	NA	<1.0	<1.0	<1.0	**7.3**	<1.0	<1.0	<1.0	<1.0	<1.0	**140**	<2.0
B-27b (8-10')	4/15/2009	NA	NA	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	**9.2**	<1.0	<2.0
B-28b (16-18')	4/16/2009	NA	NA	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	**1.7**	<2.0
B29 (8-12')	4/13/2009	NA	NA	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0
B29 (38-42')	4/13/2009	NA	NA	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	**1.3**	**1.1**
B-30a (6-11')	4/14/2009	NA	NA	**2.4**	<1.0	<1.0	**36**	**4.2**	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0
B-30a (30-34')	4/14/2009	NA	NA	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	**1.1**
B-30a (30-34'), Dup-02	4/14/2009	NA	NA	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0

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Residential & Industrial Aesthetic DWC		NC	NC	NC	NC	NC	NC	NC	NC	790	NC	NC	NC	280
Residential Health-Based DWC		800	1,700	880	5.0	7.0	70	100	5.0	1,000	200	5.0	2.0	10000
Industrial Health-Based DWC		2,300	4,800	2,500	5.0	7.0	70	100	5.0	1,000	200	5.0	2.0	10000
GSI Criteria		NC	NC	740	360[1]	65[1]	620	1,500	45[1]	140	200	200[1]	15	35
Residential Volatilization to IAI Criteria		2.5E+5	2.20E+05	1.0E+6	9,600	200	93,000	85,000	25,000	5.30E+05	6.6E+5	15,000	1,100	1.90E+05
Industrial Volatilization to IAI Criteria		5.5E+5	3.00E+05	2.3E+6	59,000	1,300	2.1E+5	2.0E+5	1.7E+5	5.30E+05	1.3E+6	97,000	13,000	1.90E+05
Groundwater Contact Criteria		1.2E+6 (S)	3.00E+05	2.4E+6	19,000	11,000	2.0E+5	2.2E+5	12,000	5.30E+05	1.3E+6	22,000	1,000	1.90E+05
Units		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
B31 (10-14')	4/13/2009	NA	NA	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	**7.4**	<1.0	<1.0	**8.1**	<2.0
B31 (25-29')	4/13/2009	NA	NA	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	**1.7**	<1.0	<1.0	**390**	<2.0
B-32a (10-14')	4/14/2009	NA	NA	<1.0	<1.0	<1.0	**13**	<1.0	<1.0	**1.6**	<1.0	<1.0	**430**	<2.0
B-32a (25-29')	4/14/2009	NA	NA	<100	<100	<100	**1200**	<100	<100	<100	<100	<100	**360**	<200
B-32b (8.5-10.5')	4/15/2009	NA	NA	<1.0	<1.0	<1.0	**3.4**	<1.0	**1.7**	<1.0	**2.1**	**13**	**1.6**	<2.0
B-33 (4-8')	4/15/2009	NA	NA	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0
B-33 (4-8'), Dup-03	4/15/2009	NA	NA	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0
B-33 (17-21')	4/15/2009	NA	NA	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0
B-34 (14-18')	4/20/2009	NA	NA	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0
B-34 (41-45')	4/20/2009	NA	NA	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0
B-35 (5-9')	4/20/2009	NA	NA	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	**1.1**	<2.0
B-35 (30-34')	4/20/2009	NA	NA	<10	<10	<10	<10	<10	<10	<10	<10	<10	**450**	<20
B-35 (5-9'), Dup-07	4/20/2009	NA	NA	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	**1.1**	<2.0
B-36 (12-16')	5/13/2009	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<3.0
B-36 (16-20')	5/13/2009	<1.0	**1.0**	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<3.0
B-36 (16-20'), Dup 01	5/13/2009	<1.0	**1.1**	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<3.0
B-37 (38.5-42.5')	5/12/2009	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	**1.3**	<1.0	<1.0	<1.0	<3.0
B-38 (15-19')	5/13/2009	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	**1.1**	<1.0	<1.0	<1.0	<3.0
B-38 (36-40')	5/13/2009	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<3.0
B-39 (15-19')	5/13/2009	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<3.0
B-40 (16-20')	5/15/2009	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<3.0
B-40 (42-46')	5/15/2009	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<3.0
	03/13/2009	<20	<20	<20	<20	<20	<20	<20	<20	<20	**750**	**2700**	<20	<60
	03/13/2009	<20	<20	<20	<20	<20	<20	<20	<20	<20	**720**	**2700**	<20	<60
MW-01s	4/20/2009	NA	NA	<100	<100	<100	<100	<100	<100	<100	**1100**	**2200**	<100	<200
	03/13/2009	<2.0	<2.0	<2.0	<2.0	<2.0	**2.4**	<2.0	**2.2**	<2.0	**2.5**	**280**	<2.0	<6.0
MW-02s	4/20/2009	NA	NA	<10	<10	<10	<10	<10	<10	<10	<10	**130**	<10	<20

Notes:
Residential and Industrial Aesthetic Drinking Water Criteria (DWC), Residential and Industrial Health-Based DWC, Groundwater Surface Water Interface (GSI) Criteria, Residential and Industrial Groundwater Volatilization to Indoor Air Inhalation (IAI) Criteria, and Groundwater Contact Criteria (GCC) from MDEQ RRD Op Memo 1 Part 201 Generic Cleanup Criteria/Part 213 Risk Based Cleanup Levels, January 23, 2006.

ug/L = micrograms per liter

NC = No Criteria

NA = Not Analyzed

bold font denotes concentrations detected above laboratory reporting limits

Denotes concentrations above one or more criteria

1) Criterion is not protective for surface water used as a drinking water source as described in footnote {X} of MDEQ Op Memo 1 Part 201, Attachment 1.

2) Compound may exhibit characteristic ignitability as defined in 40 C.F.R. § 261.21

3) Compound may exhibit characteristic reactivity as defined in 40 C.F.R. § 261.23

Table 4
Summary of Detected Volatile Organic Compounds in Groundwater
Perimeter and Off-Site Locations
Tecumseh Products Company
Tecumseh, Michigan

Analyte		Carbon Disulfide[2,3]	Dichlorodi-fluoromethane	1,1-Dichloroethane	1,2-Dichloroethane[2]	1,1-Dichloroethene[2]	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	Tetrachloroethene	Toluene[2]	1,1,1-Trichloroethane	Trichloroethene	Vinyl Chloride	Xylenes[2]
Residential & Industrial Aesthetic DWC		NC	NC	NC	NC	NC	NC	NC	NC	790	NC	NC	NC	280
Residential Health-Based DWC		800	1,700	880	5.0	7.0	70	100	5.0	1,000	200	5.0	2.0	10000
Industrial Health-Based DWC		2,300	4,800	2,500	5.0	7.0	70	100	5.0	1,000	200	5.0	2.0	10000
GSI Criteria		NC	NC	740	360[1]	65[1]	620	1,500	45[1]	140	200	200[1]	15	35
Residential Volatilization to IAI Criteria		2.5E+5	2.20E+05	1.0E+6	9,600	200	93,000	85,000	25,000	5.30E+05	6.6E+5	15,000	1,100	1.90E+05
Industrial Volatilization to IAI Criteria		5.5E+5	3.00E+05	2.3E+6	59,000	1,300	2.1E+5	2.0E+5	1.7E+5	5.30E+05	1.3E+6	97,000	13,000	1.90E+05
Groundwater Contact Criteria		1.2E+6 (S)	3.00E+05	2.4E+6	19,000	11,000	2.0E+5	2.2E+5	12,000	5.30E+05	1.3E+6	22,000	1,000	1.90E+05
Units		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
MW-03s	03/13/2009	<2.0	<2.0	**9.1**	<2.0	<2.0	**240**	**9.1**	<2.0	<2.0	<2.0	<2.0	**140**	<6.0
	4/20/2009	NA	NA	**18**	<10	<10	**490**	**18**	<10	<10	<10	<10	**210**	<20
MW-04s	03/13/2009	<25	<25	<25	<25	<25	**2100**	**70**	<25	<25	<25	**5000**	**460**	<75
	4/20/2009	NA	NA	<100	<100	<100	**1700**	<100	<100	<100	<100	**4000**	**520**	<200
MW-05s	03/13/2009	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	**3.5**	<1.0	<1.0	**120**	<1.0	<3.0
	4/20/2009	NA	NA	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	**140**	<5.0	<10
MW-06s	03/16/2009	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	**21**	<1.0	<3.0
	4/20/2009	NA	NA	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	**23**	<1.0	<2.0
MW-07s	03/16/2009	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	**2.1**	**10**	<1.0	<3.0
	4/20/2009	NA	NA	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	**1.6**	**11**	<1.0	<2.0
MW-08s	03/16/2009	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	**11**	<1.0	<3.0
	4/20/2009	NA	NA	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	**10**	<1.0	<2.0
	4/20/2009	NA	NA	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	**10**	<1.0	<2.0
MW-09s	03/16/2009	<20	<20	<20	<20	<20	<20	<20	<20	<20	**160**	**1700**	<20	<60
	4/20/2009	NA	NA	<100	<100	<100	<100	<100	<100	<100	**220**	**2100**	<100	<200
MW-10S (8-13')	5/15/2009	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<3.0
MW-10S (8-13'), Dup 02	5/15/2009	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<3.0
MW-11S (29-34')	5/14/2009	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<3.0
MW-12S (12-17')	5/15/2009	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	**1.4**	<1.0	<1.0	<1.0	<1.0	<3.0
MW-13S (13-18')	5/15/2009	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<3.0
MW-14S (4-9')	5/14/2009	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<3.0
MW-15S (30-35')	5/15/2009	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<3.0
MW-17S (3-8')	7/23/2009	<1.0	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<3.0
Trip Blank-01a	03/04/2009	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<3.0
Trip Blank-02	03/04/2009	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<3.0
Trip Blank-03	03/13/2009	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<3.0
Trip Blank-04	03/14/2009	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<3.0
Trip Blank-01b	5/15/2009	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<3.0
Trip Blank-01c	7/23/2009	<1.0	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<3.0

Notes:
Residential and Industrial Aesthetic Drinking Water Criteria (DWC), Residential and Industrial Health-Based DWC, Groundwater Surface Water Interface (GSI) Criteria, Residential and Industrial Groundwater Volatilization to Indoor Air Inhalation (IAI) Criteria, and Groundwater Contact Criteria (GCC) from MDEQ RRD Op Memo 1 Part 201 Generic Cleanup Criteria/Part 213 Risk Based Cleanup Levels, January 23, 2006.
ug/L = micrograms per liter
NC = No Criteria
NA = Not Analyzed
bold font denotes concentrations detected above laboratory reporting limits
Denotes concentrations above one or more criteria
1) Criterion is not protective for surface water used as a drinking water source as described in footnote {X} of MDEQ Op Memo 1 Part 201, Attachment 1.
2) Compound may exhibit characteristic ignitability as defined in 40 C.F.R. § 261.21
3) Compound may exhibit characteristic reactivity as defined in 40 C.F.R. § 261.23

Table 5
Summary of Detected Volatile Organic Compounds in Water from Storm Sewers
Tecumseh Products Company
Tecumseh, Michigan

Analyte		1,1-Dichloroethene[2]	cis-1,2-Dichloroethene	Tetrachloroethene	1,1,1-Trichloroethane	Trichloroethene	Vinyl Chloride
Residential & Industrial Aesthetic DWC		NC	NC	NC	NC	NC	NC
Residential Health-Based DWC		7.0	70	5.0	200	5.0	2.0
Industrial Health-Based DWC		7.0	70	5.0	200	5.0	2.0
GSI Criteria		65[1]	620	45[1]	200	200[1]	15
Residential Volatilization to IAI Criteria		200	93,000	25,000	6.6E+5	15,000	1,100
Industrial Volatilization to IAI Criteria		1,300	2.1E+5	1.7E+5	1.3E+6	97,000	13,000
Groundwater Contact Criteria		11,000	2.0E+5	12,000	1.3E+6	22,000	1,000
Units		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
STW #1	4/13/2009	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
STW #2	4/13/2009	<1.0	<1.0	<1.0	<1.0	<1.0	**23**
STW #3	4/13/2009	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
STW #4	4/13/2009	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
STW #5	4/13/2009	<1.0	**1.6**	<1.0	<1.0	<1.0	<1.0
STW #6	4/13/2009	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
STW #7	4/13/2009	<1.0	<1.0	<1.0	<1.0	**2.7**	<1.0
STW #8	4/13/2009	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0

Notes:

Residential and Industrial Aesthetic Drinking Water Criteria (DWC), Residential and Industrial Health-Based DWC, Groundwater Surface Water Interface (GSI) Criteria, Residential and Industrial Groundwater Volatilization to Indoor Air Inhalation (IAI) Criteria, and Groundwater Contact Criteria (GCC) from MDEQ RRD Op Memo 1 Part 201 Generic Cleanup Criteria/Part 213 Risk Based Cleanup Levels, January 23, 2006.

ug/L = micrograms per liter

NC = No Criteria

NA = Not Analyzed

bold font denotes concentrations detected above laboratory reporting limits

Denotes concentrations above one or more criteria

1) Criterion is not protective for surface water used as a drinking water source as described in footnote {X} of MDEQ Op Memo 1 Part 201, Attachment 1.

2) Compound may exhibit characteristic ignitability as defined in 40 C.F.R. § 261.21

Table 6
List of Notified Property Owners
Tecumseh Products Company
Tecumseh, Michigan

Map ID #	Parcel # (1)	Property Address	Owner Name	Owner Address	Owner City	State	Zip Code	Notification Date
1	325-0170-00	201 E PATTERSON ST	CONSUMERS ENERGY CO	ONE ENERGY PLAZA	JACKSON	MI	49201	04/08/09
2	325-0180-00	209 E PATTERSON ST	IRELAN, DENNIS C & KAREN	BOX 66	TECUMSEH	MI	49286	04/08/09
3	325-0190-00	205 E PATTERSON ST BLK	CONSUMERS ENERGY CO	ONE ENERGY PLAZA	JACKSON	MI	49201	04/08/09
4	325-0200-00	223 E PATTERSON ST	M & S LAND HOLDINGS, LLC	8514 PENNINGTON RD	TECUMSEH	MI	49286	04/08/09
5	325-0100-00	415 S MAUMEE ST	D & P COMMUNICATIONS, INC	4200 TEAL RD	PETERSBURG	MI	49270	04/08/09
6	325-0401-00	414 S MAUMEE ST	BOOT, MARTIN & CAROL	807 RED MILL DR	TECUMSEH	MI	49286	04/08/09
7	325-0091-00	416 E CUMMINS ST	BOOT MARTIN JR & CAROL	416 E CUMMINS ST	TECUMSEH	MI	49286	04/08/09
8	325-0094-00	504 E CUMMINS ST	JF CALM LLC	962 FAIRWAY COVE	TECUMSEH	MI	49286	04/08/09
9	325-0085-00	500 E CUMMINS ST	RYAN, JOHN J & ANNE E	210 W CHICAGO BLVD	TECUMSEH	MI	49286	04/08/09
10	325-0410-00	500 E CUMMINS ST	RYAN, JOHN J	210 W CHICAGO BLVD	TECUMSEH	MI	49286	04/08/09
11	325-0081-00	600 DAVE WILLIAMS DR	CITY OF TECUMSEH	POB 396	TECUMSEH	MI	49286	04/08/09
12	325-0420-00	300 S WYANDOTTE ST BLK	CITY OF TECUMSEH	309 W CHICAGO BLVD	TECUMSEH	MI	49286	04/08/09
13	325-0390-00	424 S MAUMEE ST	SLUSARSKI INVESTMENT COMPANY LLC	119 GREENLY STREET	ADRIAN	MI	49221	04/08/09
14	325-0380-00	426 S MAUMEE ST	NOVAK LLC	426 S MAUMEE ST	TECUMSEH	MI	49286	04/08/09
15	325-0370-00	509 MOHAWK ST	BATYIK, FRANK L	3614 NOLAND DR	TECUMSEH	MI	49286	04/08/09
16	325-0432-00	607 MOHAWK ST	LOGAN, ROBERT W	1207 MURRAY DR	TECUMSEH	MI	49286	04/08/09
17	325-0434-00	611 MOHAWK ST	BIRCHFIELD, RONALD A & SHERRIE L	5371 NORTH RAISIN CENTER HWY	TECUMSEH	MI	49286	04/08/09
18	325-0435-00	615 MOHAWK ST	BIRCHFIELD, RONALD A & SHERRIE L	5371 N RAISIN CENTER HWY	TECUMSEH	MI	49286	04/08/09
19	325-0433-00	600 MOHAWK ST BLK	BIRCHFIELD, RONALD A & SHERRIE	5371 N RAISIN CENTER HWY	TECUMSEH	MI	49286	04/08/09
20	325-0431-00	707 BLOOD RD	HULL, EDWARD & DONALD	509 E CHICAGO BLVD	TECUMSEH	MI	49286	04/08/09
21	325-0361-00	502 MOHAWK ST	KLANKE, TODD E	502 MOHAWK ST	TECUMSEH	MI	49286	04/08/09
22	325-0340-00	508 MOHAWK ST	DERBY, KEVIN G & JASON E	508 MOHAWK ST	TECUMSEH	MI	49286	04/08/09
23	325-0351-00	505 S MAUMEE ST	MAUMEE TRUST, 505 S	210 W SHAWNEE ST	TECUMSEH	MI	49286	04/08/09
24	325-0322-00	507 S MAUMEE ST (2)	SPEER, HAROLD E	210 W SHAWNEE ST	TECUMSEH	MI	49286	04/08/09
25	325-0327-00	MOHAWK ST	G T E TELEPHONE OPER	19845 NORTH US 31 POB 407	WESTFIELD	IN	46074	04/08/09
26	325-0324-00	606 S MAUMEE ST	G T E TELEPHONE OPER	19845 NORTH US 31 POB 407	WESTFIELD	IN	46074	04/08/09
27	325-0325-00	610 S MAUMEE ST	CALLISON LEASING CORPORATION	610 S MAUMEE ST	TECUMSEH	MI	49286	04/08/09
28	325-0330-00	610 MOHAWK ST	LASK, SCOTT R	610 MOHAWK ST	TECUMSEH	MI	49286	04/08/09
29	325-0323-00	704 MOHAWK ST	HULL INVESTMENTS	119 W CHICAGO BLVD	TECUMSEH	MI	49286	04/08/09
30	325-0329-00	800 MOHAWK ST	TECUMSEH SELF STORAGE LLC	500 W KILBUCK ST	TECUMSEH	MI	49286	04/08/09
31	325-0328-00	800 MOHAWK ST	TECUMSEH SELF STORAGE LLC	500 W KILBUCK ST	TECUMSEH	MI	49286	04/08/09
32	325-0326-00	700 S MAUMEE ST	TECUMSEH PUBLIC SCHOOLS	212 N OTTAWA ST	TECUMSEH	MI	49286	04/08/09
33	325-0321-00	800 S MAUMEE ST	ROBERTS INVESTMENT COMPANY LLC	P.O. BOX 400	TECUMSEH	MI	49286	04/08/09
34	325-0312-00	701 MILL HWY	MAYNARD MINI SERVICES, INC	101 CARRIAGE DR	TECUMSEH	MI	49286	04/08/09
35	325-0261-00	805 S MAUMEE ST	MARTIN TRUST, DONALD J	145 W CHICAGO BLVD	TECUMSEH	MI	49286	04/08/09
36	325-0252-00	209 E RUSSELL RD	UNITED BANK & TRUST	P O BOX 248	TECUMSEH	MI	49286	04/08/09
37	325-0251-00	105 E RUSSELL RD	HERRICK, TODD & LINDA	3970 PENNINSULA DR	PETOSKEY	MI	49770	04/08/09
38	325-0253-00	101 E RUSSELL RD	CITY OF TECUMSEH	309 E CHICAGO BLVD	TECUMSEH	MI	49286	04/08/09

Notes:
1) Parcel identification numbers and owner information provided by the City of Tecumseh on March 12, 2009 and April 3, 2009.
2) The property at 507 S. Maumee Street (Map ID #24) is also known as 509 S. Maumee Street.

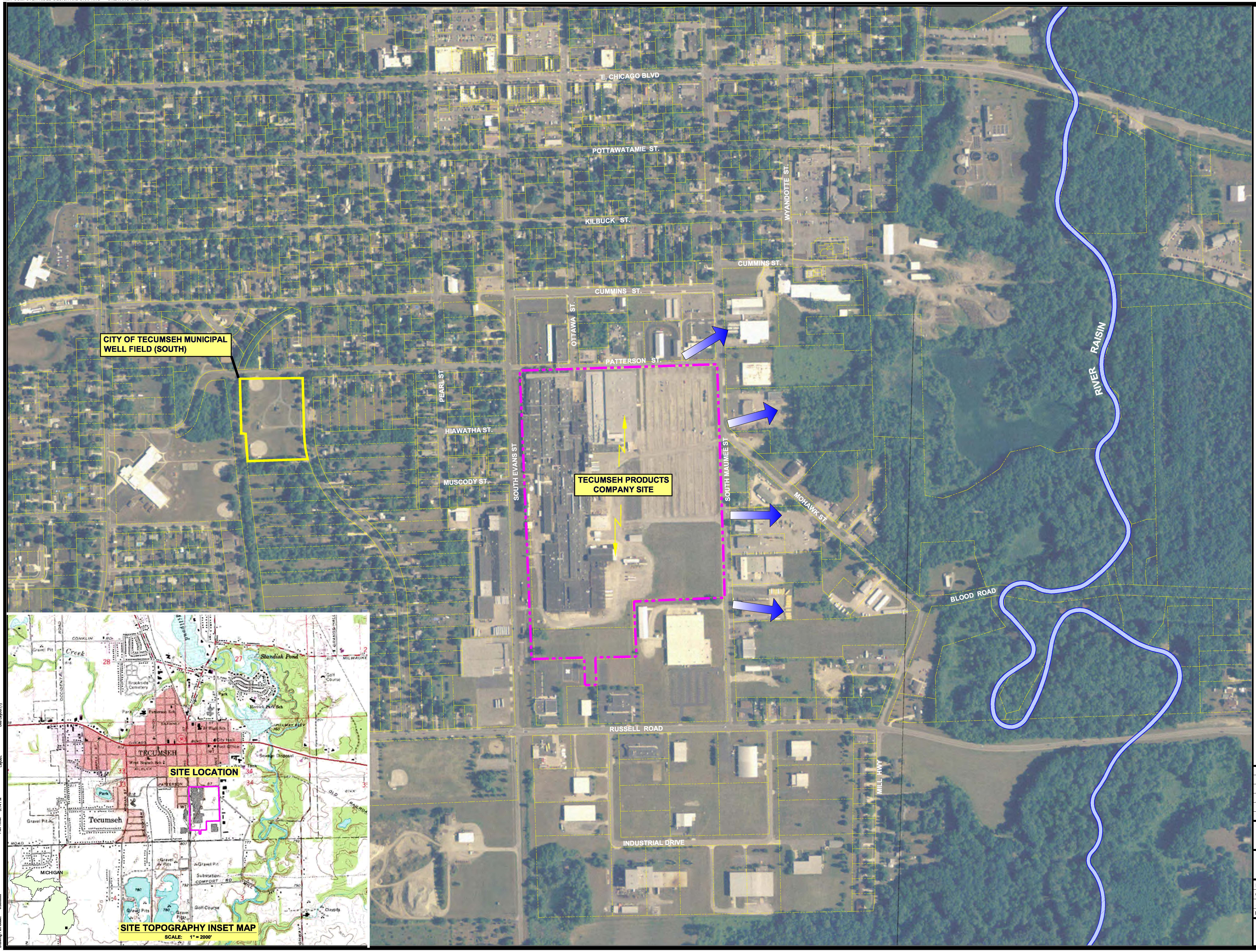
Table 6
List of Notified Property Owners
Tecumseh Products Company
Tecumseh, Michigan

Map ID #	Parcel # (1)	Property Address	Owner Name	Owner Address	Owner City	State	Zip Code	Notification Date
39	133-4800-00	705 S EVANS ST	JBM TECUMSEH MFG RE, LLC	707 S EVANS ST	TECUMSEH	MI	49286	06/01/09
40	128-4900-00	EVANS ST	SOUTHERN MICHIGAN RR SOCIETY	PO BOX K	CLINTON	MI	49236	06/01/09
41	325-0160-00	410 S OTTAWA ST	SWANGER, JESSICA A	410 S OTTAWA ST	TECUMSEH	MI	49286	06/01/09
42	325-0120-00	408 S OTTAWA ST	RICHARDS, FLOELLA	408 S OTTAWA ST	TECUMSEH	MI	49286	06/01/09
43	325-0110-00	210 E CUMMINS ST	MONEY, LARRY L	21O E CUMMINS ST	TECUMSEH	MI	49286	06/01/09
44	325-0101-00	220 E CUMMINS ST	HARRISON PROPERTIES, LLC	513 N OCCIDENTAL RD	TECUMSEH	MI	49286	06/01/09
45	305-2091-00	217 E CUMMINS ST	LEAR, JOSEPH L	217 E CUMMINS ST	TECUMSEH	MI	49286	06/01/09
46	305-2110-00	219 E CUMMINS ST	HERRERA, SALOME & ANGELINA	219 E CUMMINS ST	TECUMSEH	MI	49286	06/01/09
47	305-2120-00	221 E CUMMINS ST	BAUGHEY TRUST, HOWARD J	221 E CUMMINS ST	TECUMSEH	MI	49286	06/01/09
48	305-2131-00	223 E CUMMINS ST	COUNTS, THOMAS H & SHRON A	223 E CUMMINS ST	TECUMSEH	MI	49286	06/01/09
49	305-2140-00	227 E CUMMINS ST	TORREZ, DARIO R	227 E CUMMINS ST	TECUMSEH	MI	49286	06/01/09
50	305-2151-00	229 E CUMMINS ST	HIGNITE, LONNIE D	2223 SURREY COURT SE	MARIETTA	GA	30067	06/01/09
51	305-2170-00	231 E CUMMINS ST	WALKER, ROBERT L	231 E CUMMINS ST	TECUMSEH	MI	49286	06/01/09
52	305-2181-00	233 E CUMMINS ST	KENNEDY, CAROL A	233 E CUMMINS ST	TECUMSEH	MI	49286	06/01/09
53	305-2180-00	315 S MAUMEE ST	KEITH, DAVID A & KRISTINA D	315 S MAUMEE ST	TECUMSEH	MI	49286	06/01/09
54	325-0092-00	400 E CUMMINS ST BLK	WALLICH, MARTIN F & PHYLLIS	2800 W CHICAGO BLVD	TECUMSEH	MI	49286	06/01/09
55	305-2192-00	308 S MAUMEE ST	MASTERPEACE MANAGEMENT LLC	308 MAUMEE ST S	TECUMSEH	MI	49286	06/01/09
56	305-2194-00	406 E KILBUCK ST	MAURICIO, ARTHUR & REGINA R	406 E KILBUCK ST	TECUMSEH	MI	49286	06/01/09
57	305-2191-00	302 S MAUMEE ST	GATES, TERI	2690 DINIUS RD	TECUMSEH	MI	49286	06/01/09
58	305-2051-00	311 S MAUMEE ST	DUNCAN TRUST, HAROLD L	311 S MAUMEE ST	TECUMSEH	MI	49286	06/01/09
59	305-2030-00	307 S MAUMEE ST	LOWER LIGHT MISSION	20469 DEERFIELD RD.	DEERFIELD	MI	49238	06/01/09
60	305-2020-00	310 E KILBUCK ST	CAMBURN, ANNA M	310 E KILBUCK ST	TECUMSEH	MI	49286	06/01/09
61	305-2010-00	308 E KILBUCK ST	DEAVERS, NICKOLAS B & MICHELLE	308 E KILBUCK ST	TECUMSEH	MI	49286	06/01/09
62	305-2000-00	306 E KILBUCK ST	WILLIS, LEE E & VERNESE G	306 E KILBUCK ST	TECUMSEH	MI	49286	06/01/09
63	305-1990-00	304 E KILBUCK ST	DAWDY, HAZEL	304 E KILBUCK ST	TECUMSEH	MI	49286	06/01/09
64	305-1981-00	216 E KILBUCK ST	MURPHY, GEORGE F & CHERYL L	13516 CANTERBURY CT	PLYMOUTH	MI	48170-2448	06/01/09
65	000-0431-00	215 S MAUMEE ST	HERRELL TRUST, ORBIN	215 S MAUMEE ST	TECUMSEH	MI	49286	06/01/09
66	000-0432-00	211 S MAUMEE ST	HERRELL TRUST, ORBIN	215 S MAUMEE ST	TECUMSEH	MI	49286	06/01/09
67	000-0332-00	214 S MAUMEE ST	LOWER LIGHT MISSION	20469 DEERFIELD RD.	DEERFIELD	MI	49238	06/01/09
68	000-0341-00	409 E KILBUCK ST	GUENTHER, JERAME L	409 E KILBUCK ST	TECUMSEH	MI	49286	06/01/09
69	000-0351-00	415 E KILBUCK ST	HERRICK MEM HOSP INC	500 E POTTAWATAMIE ST	TECUMSEH	MI	49286	06/01/09
70	000-0291-00	207 S WYANDOTTE ST	LAUER, CHARLES & SALLY L	207 S WYANDOTTE ST	TECUMSEH	MI	49286	06/01/09
71	000-0331-00	210 S MAUMEE ST	ROBARGE, THOMAS & ROBERT ROBAR	210 S MAUMEE ST	TECUMSEH	MI	49286	06/01/09
72	000-0302-00	206 S MAUMEE ST	BILBY, RICHARD L & SHARON	206 S MAUMEE ST	TECUMSEH	MI	49286	06/01/09

Notes:
1) Parcel identification numbers and owner information provided by the City of Tecumseh on March 12, 2009 and April 3, 2009.
2) The property at 507 S. Maumee Street (Map ID #24) is also known as 509 S. Maumee Street.

Figures

RMT COMPUTER AIDED DESIGN AND DRAFTING • CREATING BALANCE



LEGEND

- TECUMSEH PRODUCTS SITE BOUNDARY
- CITY OF TECUMSEH PROPERTY BOUNDARIES
- PARCEL BOUNDARIES
- GROUNDWATER FLOW DIRECTION

NOTES

1. BASE MAP DEVELOPED FROM SITE PLAN PROVIDED BY THE CITY OF TECUMSEH, DRAWING NO. CITY.DWG, MARCH 2009, AERIAL PHOTOGRAPH PROVIDED FROM REMOTE SENSING & GIS RESEARCH AND OUTREACH SERVICES (RS&GIS), *PUBLICATION_DATE:* 06-29-2007, File:TECUMSEHSOUTH_NE.ECW.

NO.	BY	DATE	REVISION	APP'D.
5.				
4.				
3.				
2.				
1.				

TECUMSEH PRODUCTS
TECUMSEH, MICHIGAN

SITE LOCATION PLAN AND VICINITY

DRAWN BY:	SJL	DRAWING SCALE:		PROJECT NO:	J:\08070\04
CHECKED BY:	JAB,GC	SHOWN		FILE NO:	8070.04.01.dwg
APPROVED BY:	GC	DATE PRINTED:		FIGURE 1	
DATE:	September 2009				

RMT
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PATTERSON ST.

HIAWATHA ST.

PEARL STREET

MUSCODY ST.

SOUTH EVANS STREET

SOUTH MAUMEE ST

"Z"

"S"

SECURITY

"B–1"

SWMU-8
(SCRAP METAL BINS)

SWMU-12
(METAL FINES STORAGE AREA)

"K"

"B"

"H"

"B–2"
BLUE & GREEN LINE STORAGE

PALLET PACK STORAGE

C.R.S. #1 STORAGE

ENGINEERING

MANUFACTURING

"C"

"D–2"

"P"
SHIPPING STORAGE

"D"

"K"

"J"

"E"
BLUE & GREEN LINE STORAGE

SHIPPING STORAGE

"P–2"
SHIPPING STORAGE

"W–1"

AREA OF FORMER USTs (#1 - #5)

FORMER UST (#6)

SWMU-1
(FORMER WASTEWATER)

"K–1"

"E"
BLUE & GREEN LINE STORAGE

"W–1"

SWMU-3
(FORMER WASTEWATER USTs #9, #10, #11)

"N–2"

"F"
C.R.S. #2 & C.R.S. #3 & OUTDOOR UNIT STORAGE

"W–2"

SWMU-10
FORMER SPENT SOVENT TANK

"N–1"

"D"

"E"

SWMU-11
WASTE OIL STORAGE

SWMU-2
METAL STORAGE BIN

"F"
C.R.S. #2 & C.R.S. #3 & OUTDOOR UNIT STORAGE

"L–1"
CARDBOARD PLASTIC & BANDING PACK

SWMU-8
SCRAP METAL BINS

SWMU-6
HAZARDOUS WASTE DRUM STORAGE

AREA OF FORMER USTs (#15 - #21)

"V"
COOL PRODUCTS

SWMU-4
FINAL HOLDING TANK

"G"
COOL PRODUCTS

COOL PRODUCTS
"R"

NEW WASTEWATER BUILDING

"G–2"

COOL PRODUCTS
"Q"

OIL AND FLAMMABLE CHEMICAL STORAGE

"L"

VEHICLE MAINTENANCE

"G–2"

"V"
COOL PRODUCTS

SWMU-9
(ACCUMULATION AREA)

"X–1"

CARDBOARD RECYCLING

SWMU-7
(CITRIC ACID & PHOSPHATE SOLUTION ACCUMULATION AREA)

"V–2"
COOL PRODUCTS

"M–1"
COOL PRODUCTS

"G"
COOL PRODUCTS

"G–1"

"M"
COOL PRODUCTS

SWMU-5
(DISTILLATION SOLVENT RECOVERY SYSTEM)

"M–2"
QUALITY

"V–1"
COOL PRODUCTS

"M–1"
TEARDOWN

"M"
COOL PRODUCTS

"MD"

PARKING

PARKING

LEGEND

- TECUMSEH PRODUCTS APPROXIMATE SITE BOUNDARY
- TECUMSEH PRODUCTS BUILDING OUTLINE
- PARCEL BOUNDARY
- RAILROAD TRACKS (APPROXIMATE LOCATION)
- SANITARY SEWER (APPROXIMATE LOCATION)
- STORM SEWER (APPROXIMATE LOCATION)
- WATER MAIN
- MANHOLE
- WATER MAIN VALVE
- APPROXIMATE LOCATION OF FORMER SWMUs

NOTES

1. BASE MAP DEVELOPED FROM SITE PLAN PROVIDED BY THE CITY OF TECUMSEH, DRAWING NO. CITY.DWG, MARCH 2009.
2. ALL UTILITY LOCATION APPROXIMATE AND OBTAINED FROM SITE PLANS PROVIDED BY THE CITY OF TECUMSEH.
3. SEE APPENDIX C OF THE CURRENT CONDITION REPORT FOR UST CONTENTS AND OTHER RELEVANT DATA.

N

0 80' 160' 240' 320'

SCALE IN FEET

NO.	BY	DATE	REVISION	APP'D.
5.				
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1.				

TECUMSEH PRODUCTS
TECUMSEH, MICHIGAN

SITE FEATURES

DRAWN BY:	SJL	DRAWING SCALE:	PROJECT NO: J:\08070\04
CHECKED BY:	JAB,SEM	SHOWN	FILE NO: 8070.04.02.dwg
APPROVED BY:	GC	DATE PRINTED:	**FIGURE 2**
DATE:	September 2009		

RMT
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Ann Arbor, MI 48108-2237
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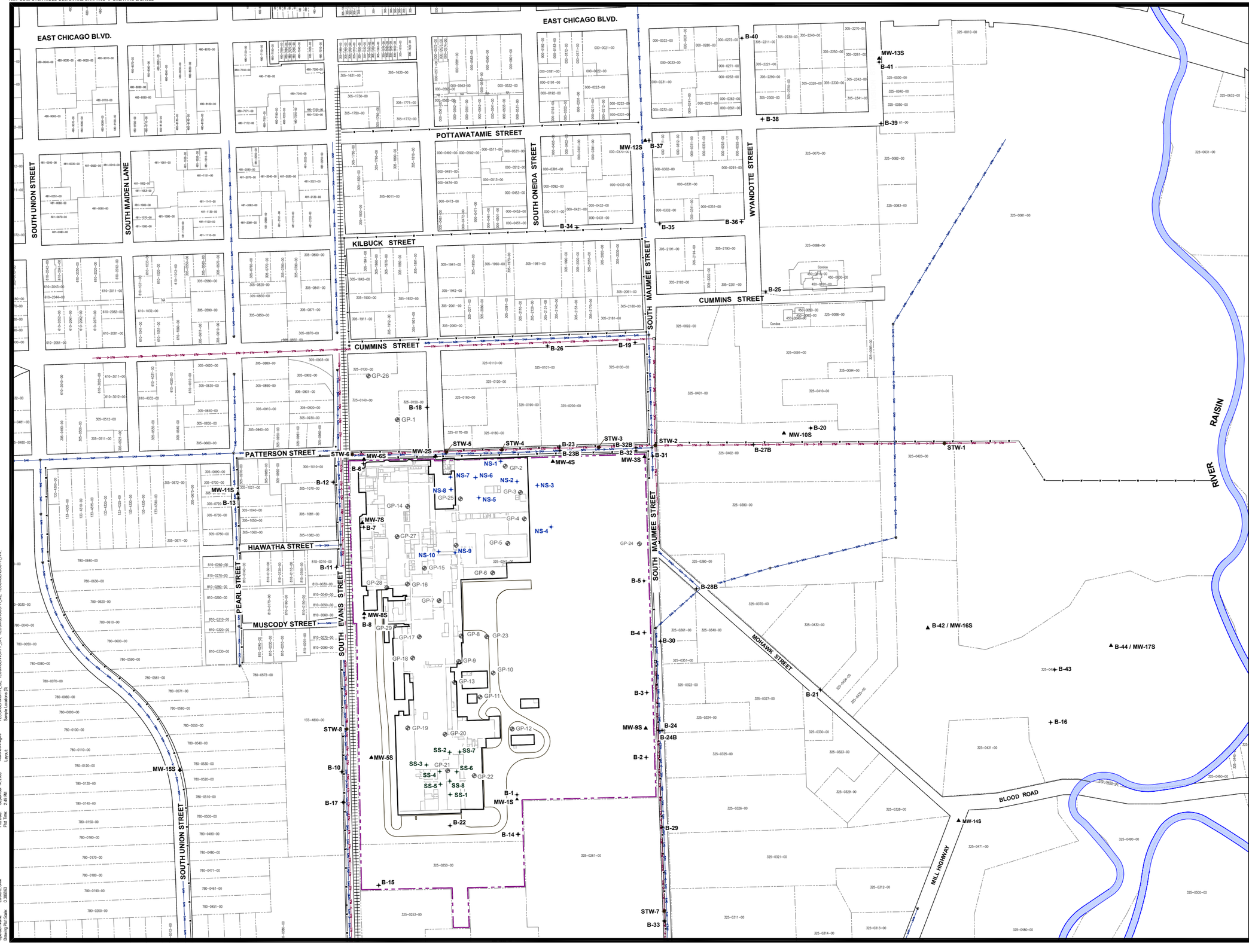
PLOT DATA:
Drawing Name: J:\08070\04\8070.04.02.dwg
Operator Name: LUCIDO, SAM
Drawing Plot Scale: 0.266853

Dwg Size: 1.63 Mb
Plot Date: September 15, 2009
Plot Time: 2:10 PM

Attached Xref's: Site Features Map (2)
Attached Images: tom33109
Layout:



LEGEND

- TECUMSEH PRODUCTS SITE BOUNDARY
- PARCEL BOUNDARY
- RAILROAD TRACKS (APPROXIMATE LOCATION)
- SANITARY SEWER (APPROXIMATE LOCATION)
- STORM SEWER (APPROXIMATE LOCATION)
- WATER MAIN
- MANHOLE
- WATER MAIN VALVE
- B-2 + PERIMETER / OFF-SITE INVESTIGATION SOIL BORING LOCATION AND NUMBER
- MW-4S ▲ MONITORING WELL LOCATION AND NUMBER
- NS-6 + NORTHERN SOURCE AREA INVESTIGATION BORING LOCATION AND NUMBER
- SS-2 + SOUTHERN SOURCE AREA INVESTIGATION BORING LOCATION AND NUMBER
- STW-2 ◆ STORM WATER SEWER SAMPLE LOCATION AND NUMBER
- GP-26 ⊕ APPROXIMATE GEOPROBE LOCATION, BORINGS ADVANCED AS PART OF ATCs LIMITED PHASE II INVESTIGATION IN DECEMBER 2008 AND JANUARY 2009.

NOTES

1. BASE MAP DEVELOPED FROM SITE PLAN PROVIDED BY THE CITY OF TECUMSEH, DRAWING NO. CITY.DWG, MARCH 2009.

NO.	BY	DATE	REVISION	APP'D.
5.				
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1.				

TECUMSEH PRODUCTS
TECUMSEH, MICHIGAN

SAMPLE LOCATIONS

DRAWN BY:	SJL	DRAWING SCALE:	PROJECT NO: J:\08070\04
CHECKED BY:	JAB,SEM	SHOWN	FILE NO: 8070.04.03.dwg
APPROVED BY:	GC	DATE PRINTED:	**FIGURE 3**
DATE:	September 2009		

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B:\GT.DATA
Drawing Name: tsm33109_image
Operator Name: TECUMSEHNORTH_SE; TECUMSEHNORTH_SW; TECUMSEHSOUTH_NE; TECUMSEHSOUTH_NW;
Drawing Plot Scale: 0.300353 Sample Locations (3)
LUCADO, SAM Attached Images:
Attached Xref's
Layout:
Dwg Size: 18.21 Mb
Plot Date: September 14, 2009
Plot Time: 2:49 PM
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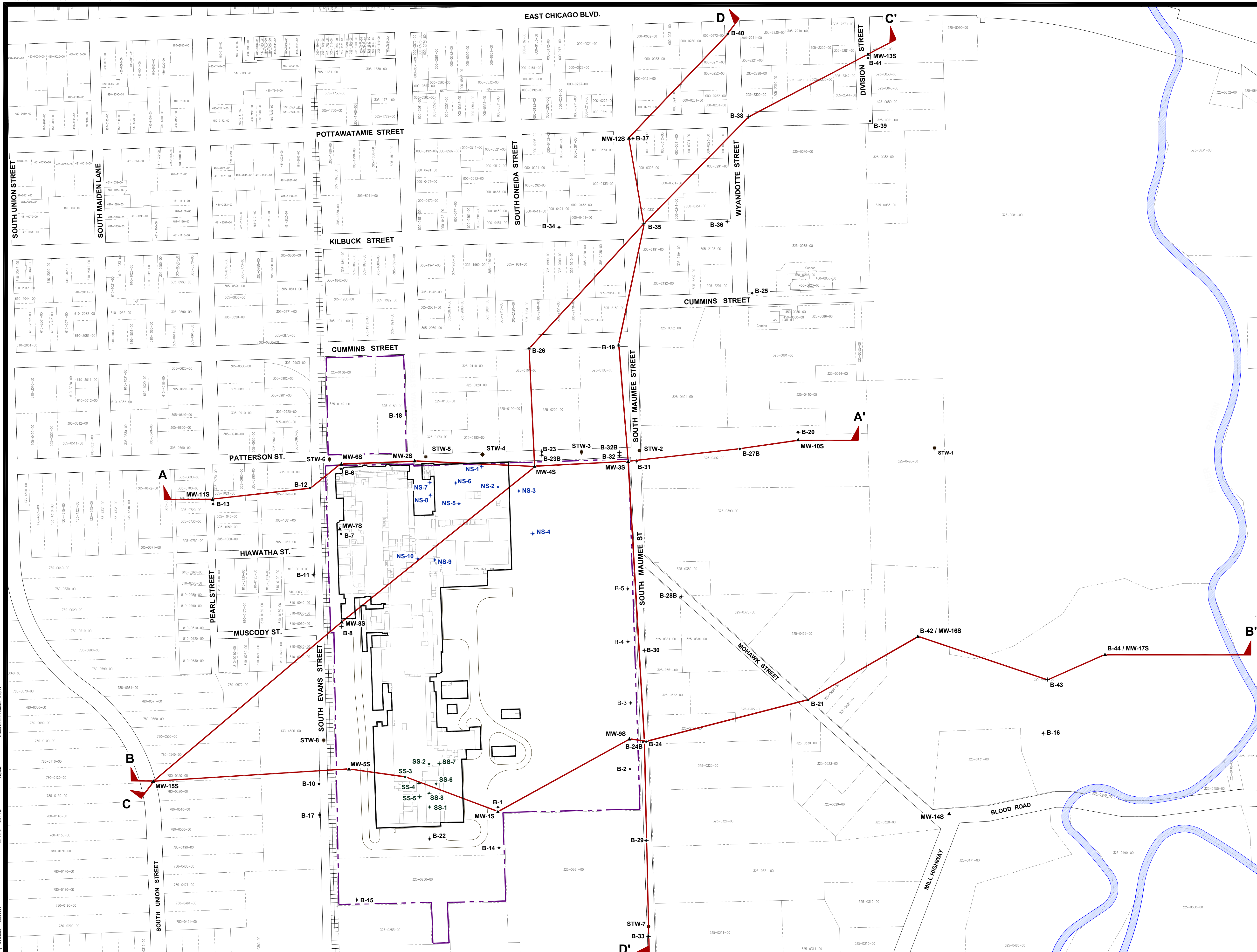

LEGEND

- TECUMSEH PRODUCTS SITE BOUNDARY
- PARCEL BOUNDARY
- RAILROAD TRACKS (APPROXIMATE LOCATION)
- B-23 — PERIMETER / OFF-SITE INVESTIGATION BORING LOCATION AND NUMBER
- MW-4S — MONITORING WELL LOCATION AND NUMBER (INSTALLED BY RMT, INC. MARCH 2009)
- NS-6 — NORTHERN SOURCE AREA INVESTIGATION BORING LOCATION AND NUMBER
- SS-2 — SOUTHERN SOURCE AREA INVESTIGATION BORING LOCATION AND NUMBER
- STW-2 — PERIMETER / OFF-SITE INVESTIGATION BORING LOCATION AND NUMBER
- CROSS SECTION LOCATION LINE

NOTES

1. BASE MAP DEVELOPED FROM SITE PLAN PROVIDED BY THE CITY OF TECUMSEH, DRAWING NO. CITY.DWG, MARCH 2009.
2. ALL UTILITY LOCATION APPROXIMATE AND PREPARED FROM SITE PLANS PROVIDED BY THE CITY OF TECUMSEH.

0 200' 400' 600' 800'
SCALE IN FEET

NO.	BY	DATE	REVISION	APP'D.
5.				
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3.				
2.				
1.				

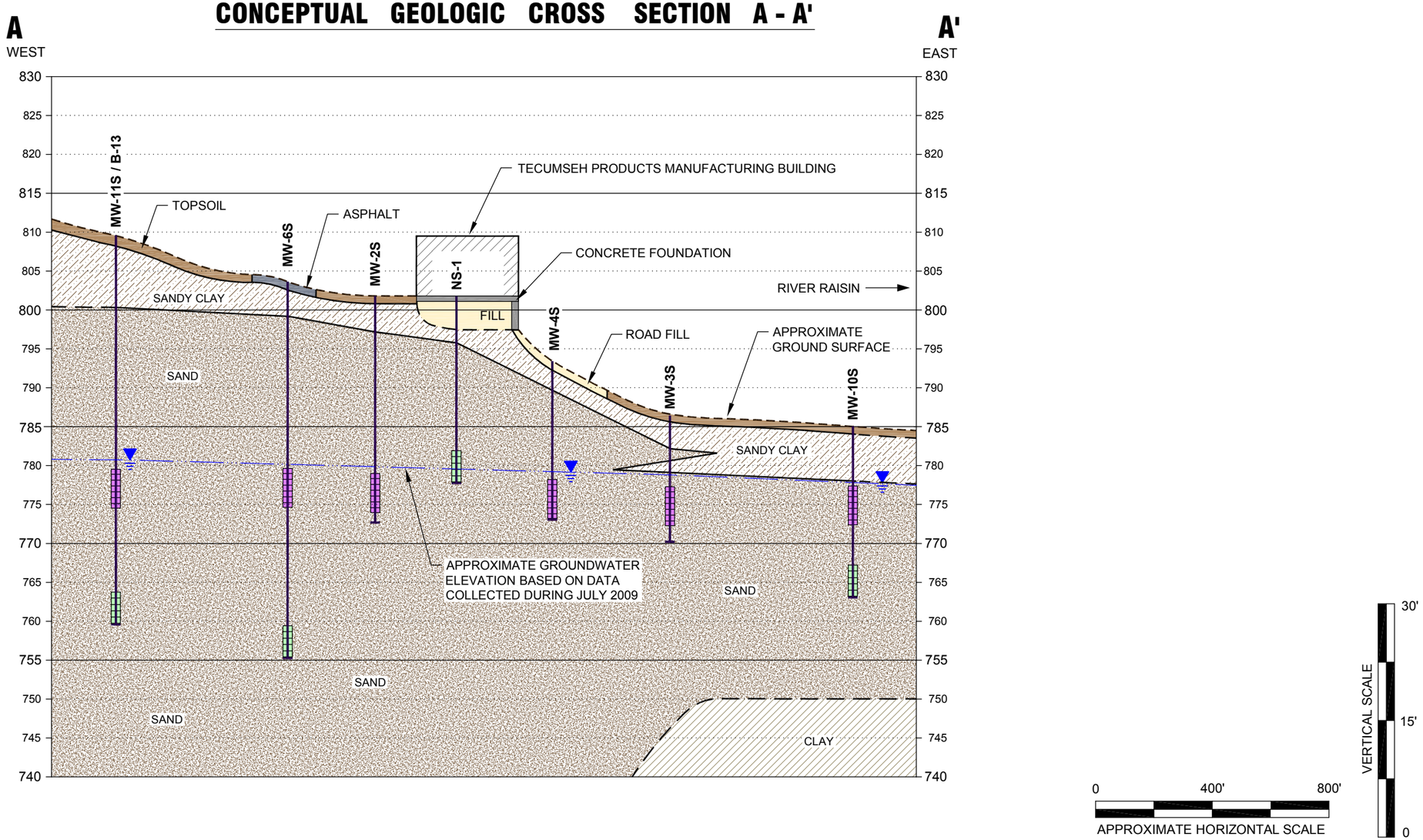
TECUMSEH PRODUCTS
TECUMSEH, MICHIGAN

CROSS SECTION LOCATION MAP

DRAWN BY: SJL	DRAWING SCALE: SHOWN	PROJECT NO: J:\08070\04
CHECKED BY: JAB,SEM		FILE NO: 8070.04.04.dwg
APPROVED BY: GC	DATE PRINTED:	**FIGURE 4**
DATE: September 2009		

RMT
3754 Ranchero Drive
Ann Arbor, MI 48108-2237
Phone: 734-971-7080 • Fax: 734-971-9022

CONCEPTUAL GEOLOGIC CROSS SECTION A - A'



LEGEND

- CONCRETE
- TOPSOIL
- FILL
- SAND (SOME AREAS CONTAIN GRAVEL)
- CLAY
- ASPHALT
- GRAVEL
- SILT
- SANDY CLAY
- APPROXIMATE GROUND SURFACE
- STRATIGRAPHIC BOUNDARY BASED ON NEAREST SOIL BORING OR MONITORING WELL
- APPROXIMATE GROUNDWATER ELEVATION
- WELL SCREEN
- TEMPORARY WELL SCREEN

NOTES

1. GROUND SURFACE AND STRATIGRAPHIC CONTACTS ARE APPROXIMATE AND EXTRAPOLATED FROM NEAREST SOIL BORING DATA.
2. SEE FIGURE 4 FOR LOCATION / ORIENTATION OF THIS GEOLOGIC CROSS SECTION.

TECUMSEH PRODUCTS
TECUMSEH, MICHIGAN

GEOLOGIC CROSS SECTION A - A'

DRAWN BY:	SJL	PROJECT NUMBER:	J:\08070\04
CHECKED BY:	SBH,GC	FILE NUMBER:	8070.04.05-08.dwg
APPROVED BY:	GC	DATE:	September 2009

RMT
3754 Ranchero Drive
Ann Arbor, Michigan 48108-2771
Phone: 734-971-7080
Fax: 734-971-9022

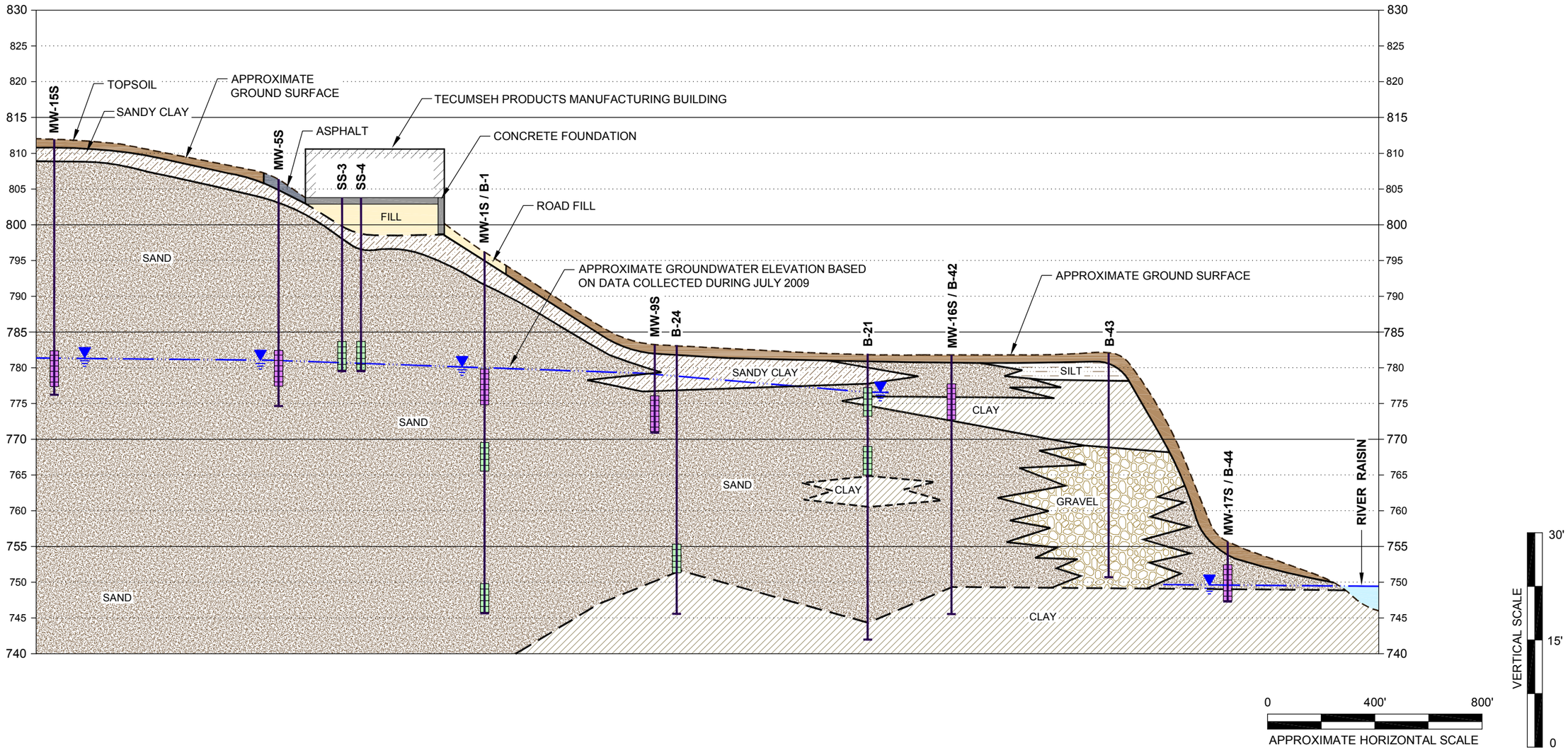
FIGURE 5

RMT COMPUTER AIDED DESIGN AND DRAFTING

Layout: Section B - B' (6)
Dwg Size: 0.24 Mb
Plot Date: September 11, 2009
Plot Time: 8:54 AM
Drawing Name: J:\08070\04\8070.04.05-08.dwg
Operator Name: LUCIDO, SAM
Drawing Plot Scale: 0.386863

CONCEPTUAL GEOLOGIC CROSS SECTION B - B'

B WEST — **B'** EAST



LEGEND

- CONCRETE
- TOPSOIL
- FILL
- SAND (SOME AREAS CONTAIN GRAVEL)
- CLAY
- ASPHALT
- GRAVEL
- SILT
- SANDY CLAY
- APPROXIMATE GROUND SURFACE
- STRATIGRAPHIC BOUNDARY BASED ON NEAREST SOIL BORING OR MONITORING WELL
- APPROXIMATE GROUNDWATER ELEVATION
- WELL SCREEN
- TEMPORARY WELL SCREEN

NOTES

1. GROUND SURFACE AND STRATIGRAPHIC CONTACTS ARE APPROXIMATE AND EXTRAPOLATED FROM NEAREST SOIL BORING DATA.
2. SEE FIGURE 4 FOR LOCATION / ORIENTATION OF THIS GEOLOGIC CROSS SECTION.

TECUMSEH PRODUCTS
TECUMSEH, MICHIGAN

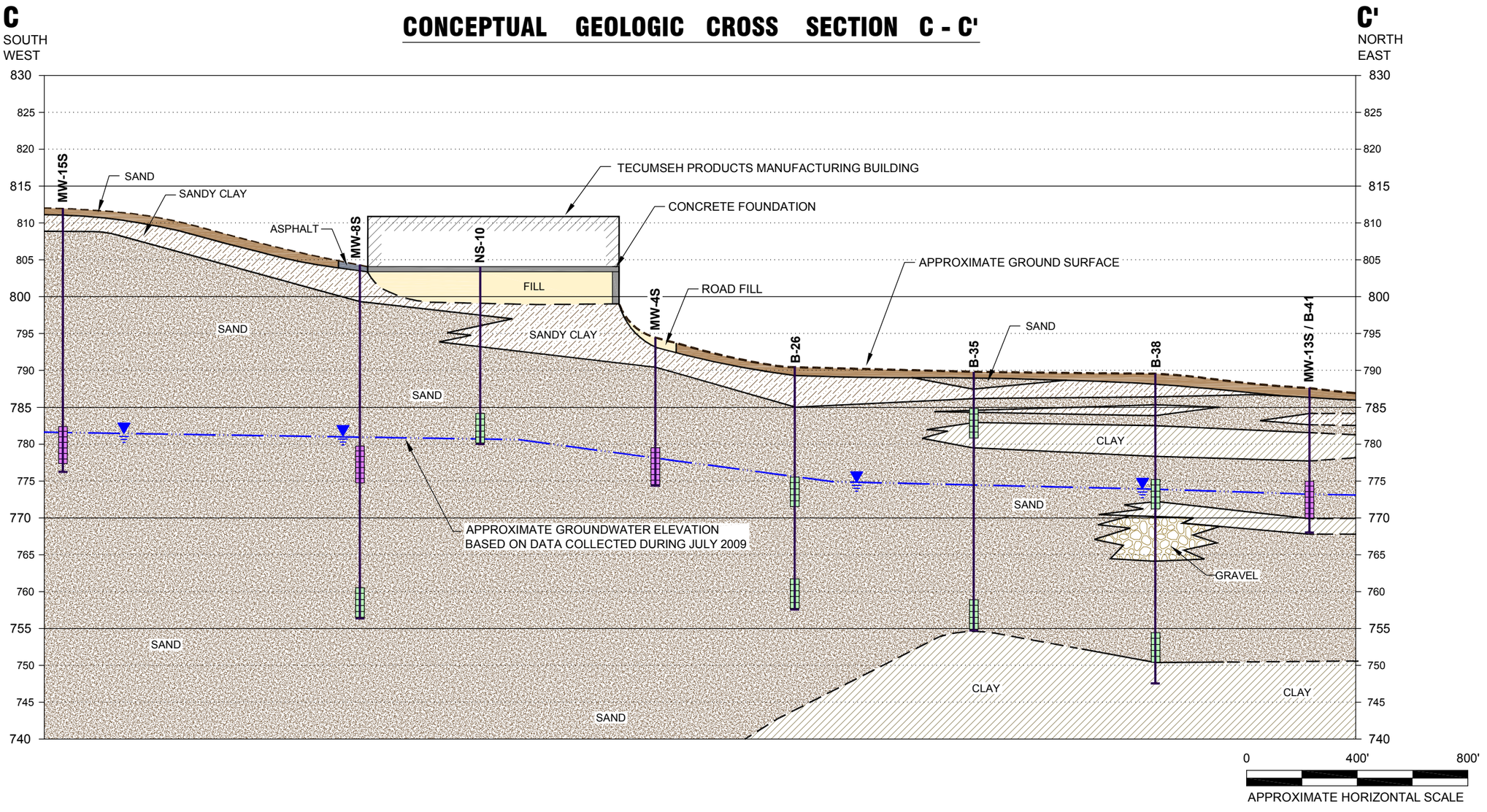
GEOLOGIC CROSS SECTION B - B'

DRAWN BY:	SJL	PROJECT NUMBER:	J:\08070\04
CHECKED BY:	SBH,GC	FILE NUMBER:	8070.04.05-08.dwg
APPROVED BY:	GC	DATE:	September 2009

RMT
3754 Ranchero Drive
Ann Arbor, Michigan 48108-2771
Phone: 734-971-7080
Fax: 734-971-9022

FIGURE 6

CONCEPTUAL GEOLOGIC CROSS SECTION C - C'



LEGEND

- CONCRETE
- TOPSOIL
- FILL
- SAND (SOME AREAS CONTAIN GRAVEL)
- CLAY
- ASPHALT
- GRAVEL
- SILT
- SANDY CLAY
- APPROXIMATE GROUND SURFACE
- STRATIGRAPHIC BOUNDARY BASED ON NEAREST SOIL BORING OR MONITORING WELL
- APPROXIMATE GROUNDWATER ELEVATION
- WELL SCREEN
- TEMPORARY WELL SCREEN

NOTES

1. GROUND SURFACE AND STRATIGRAPHIC CONTACTS ARE APPROXIMATE AND EXTRAPOLATED FROM NEAREST SOIL BORING DATA.
2. SEE FIGURE 4 FOR LOCATION / ORIENTATION OF THIS GEOLOGIC CROSS SECTION.

TECUMSEH PRODUCTS
TECUMSEH, MICHIGAN

GEOLOGIC CROSS SECTION C - C'

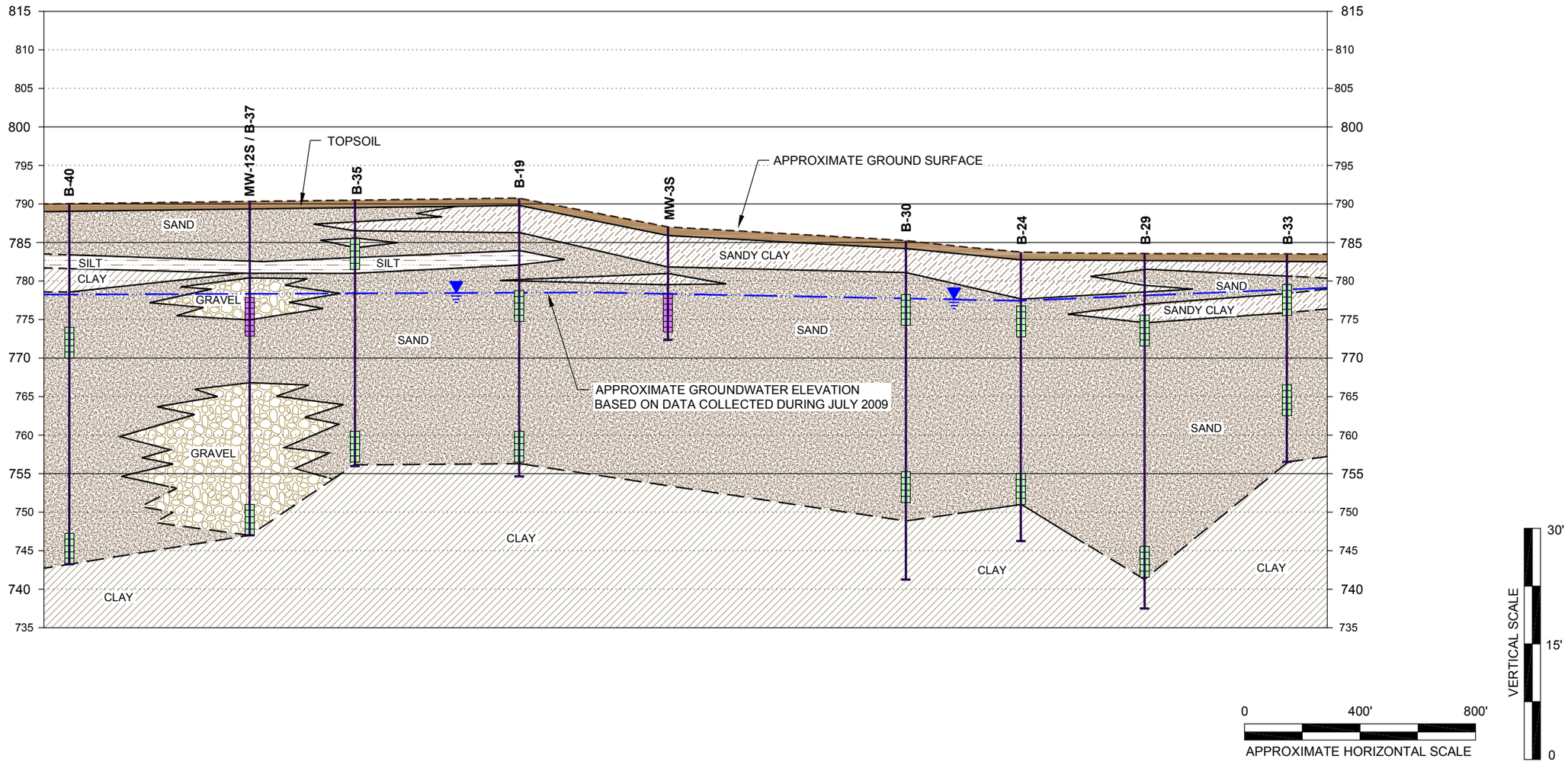
DRAWN BY:	SJL	PROJECT NUMBER:	J:\08070\04
CHECKED BY:	SBH,GC	FILE NUMBER:	8070.04.05-08.dwg
APPROVED BY:	GC	DATE:	September 2009

RMT
3754 Ranchero Drive
Ann Arbor, Michigan 48108-2771
Phone: 734-971-7080
Fax: 734-971-9022

FIGURE 7

CONCEPTUAL GEOLOGIC CROSS SECTION D - D'

D NORTH — **D'** SOUTH



LEGEND

- CONCRETE
- TOPSOIL
- FILL
- SAND (SOME AREAS CONTAIN GRAVEL)
- CLAY
- ASPHALT
- GRAVEL
- SILT
- SANDY CLAY
- APPROXIMATE GROUND SURFACE
- STRATIGRAPHIC BOUNDARY BASED ON NEAREST SOIL BORING OR MONITORING WELL
- APPROXIMATE GROUNDWATER ELEVATION
- WELL SCREEN
- TEMPORARY WELL SCREEN

NOTES

1. GROUND SURFACE AND STRATIGRAPHIC CONTACTS ARE APPROXIMATE AND EXTRAPOLATED FROM NEAREST SOIL BORING DATA.
2. SEE FIGURE 4 FOR LOCATION / ORIENTATION OF THIS GEOLOGIC CROSS SECTION.

TECUMSEH PRODUCTS
TECUMSEH, MICHIGAN

GEOLOGIC CROSS SECTION D - D'

DRAWN BY:	SJL	PROJECT NUMBER:	J:\08070\04
CHECKED BY:	SBH,GC	FILE NUMBER:	8070.04.05-08.dwg
APPROVED BY:	GC	DATE:	September 2009

RMT
3754 Ranchero Drive
Ann Arbor, Michigan 48108-2771
Phone: 734-971-7080
Fax: 734-971-9022

FIGURE 8

Drawing Name: J:\08070\04\8070.04.05-08.dwg
Operator Name: LUCIDO, SAM
Drawing Plot Scale: 0.386863
Dwg Size: 0.24 Mb
Plot Date: September 11, 2009
Plot Time: 8:57 AM
Layout: Section D - D' (8)

EAST CHICAGO BLVD.
SOUTH ONEIDA STREET
DIVISION ST.
POTTAWATAMIE STREET
SOUTH UNION STREET
SOUTH MAIDEN LANE
KILBUCK STREET
CUMMINS STREET
SOUTH MAUMEE STREET
PATTERSON ST.
HIAWATHA ST.
PEARL STREET
MUSCODY ST.
SOUTH EVANS STREET
MOHAWK STREET
BLOOD ROAD
MILL HIGHWAY
RAISIN RIVER

B-40 B-41 B-38 B-39 B-37 B-35 B-36 B-34 B-25 B-26 B-19 B-18 B-20 B-27B B-32B B-23 B-23B B-32 B-31 B-6 B-12 B-13 B-11 B-7 B-8 B-10 B-17 B-15 B-1 B-22 B-14 B-5 B-28B B-4 B-30 B-3 B-24 B-24B B-2 B-29 B-21 B-16 B-43 B-33

MW-13S (772.47)
MW-12S (778.50)
MW-10S (778.19)
MW-4S (779.94)
MW-2S (780.61)
MW-6S (781.01)
MW-11S (781.55)
MW-7S (781.16)
MW-8S (781.15)
MW-5S (781.18)
MW-15S (782.13)
MW-1S (780.39)
MW-9S 779.34
MW-14S (775.55)
B-42 / MW-16S (DRY)
B-44 / MW-17S (See Note 3)

STW-1 STW-2 STW-3 STW-4 STW-5 STW-6 STW-7 STW-8

NS-1 NS-2 NS-3 NS-4 NS-5 NS-6 NS-7 NS-8 NS-9 NS-10

SS-1 SS-2 SS-3 SS-4 SS-5 SS-6 SS-7 SS-8

772 773 774 775 776 777 778 779 780 781 782

LEGEND

- TECUMSEH PRODUCTS SITE BOUNDARY
- PARCEL BOUNDARY
- RAILROAD TRACKS (APPROXIMATE LOCATION)
- B-2 + PERIMETER / OFF-SITE INVESTIGATION SOIL BORING LOCATION AND NUMBER
- MW-4S ▲ MONITORING WELL LOCATION AND NUMBER
- NS-6 + NORTHERN SOURCE AREA INVESTIGATION BORING LOCATION AND NUMBER
- SS-2 + SOUTHERN SOURCE AREA INVESTIGATION BORING LOCATION AND NUMBER
- STW-2 ◆ STORM WATER SEWER SAMPLE LOCATION AND NUMBER
- GROUNDWATER FLOW DIRECTION
- 772 GROUNDWATER CONTOUR LINE
- (778.97) GROUNDWATER ELEVATION

NOTES

1. BASE MAP DEVELOPED FROM SITE PLAN PROVIDED BY THE CITY OF TECUMSEH, DRAWING NO. CITY.DWG, MARCH 2009
2. GROUNDWATER ELEVATIONS MEASURED JUNE 4, 2009 BY RMT, INC.
3. MONITORING WELL NOT INSTALLED AT TIME OF WATER LEVEL MEASUREMENT.

N

0 200' 400' 600' 800'
SCALE IN FEET

NO.	BY	DATE	REVISION	APP'D.
5.				
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1.				

TECUMSEH PRODUCTS
TECUMSEH, MICHIGAN

GROUNDWATER CONTOUR MAP
JUNE 4, 2009

DRAWN BY:	SJL	DRAWING SCALE:	PROJECT NO: J:\08070\04
CHECKED BY:	JAB,SEM	SHOWN	FILE NO: 8070.04.09.dwg
APPROVED BY:	GC	DATE PRINTED:	**FIGURE 9**
DATE:	September 2009		

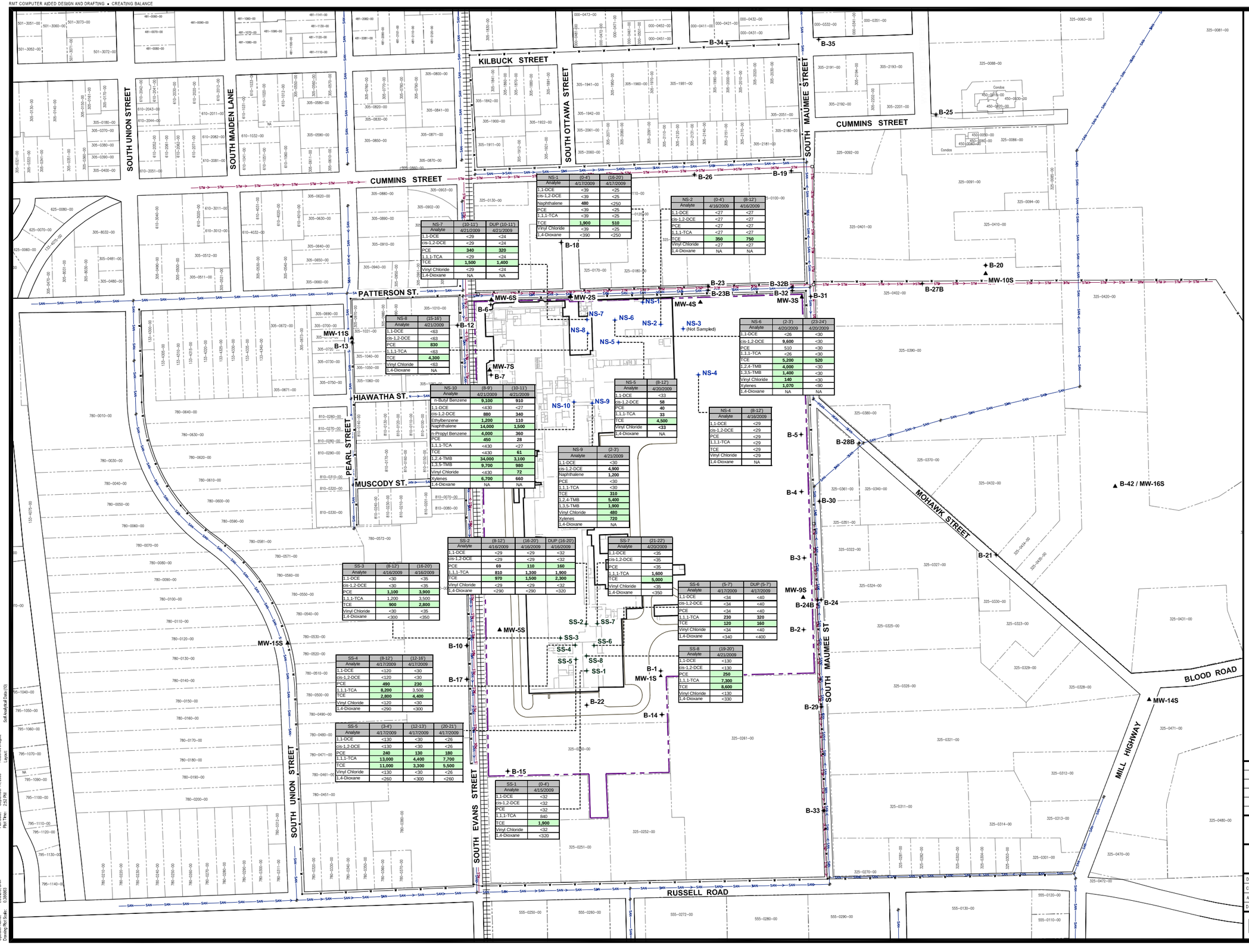
RMT
3754 Ranchero Drive
Ann Arbor, MI 48108-2237
Phone: 734-971-7080 • Fax: 734-971-9022

PLOT DATA:
Drawing Name: J:\08070\04\8070.04.09.dwg
Operator Name: LUCIDO, SAM
Drawing Plot Scale: 0.398853

Drwg Size: 1644b
Plot Date: September 14, 2009
Plot Time: 3:10PM

Attached Xref's
Attached Images
Layout

Item(33.10)_image
TECUMSEH(NORTH, SW, TECUMSEH(NORTH, NE, TECUMSEH(SOUTH, NW,
TECUMSEH(NORTH, SE
Extent of Plume (B)



LEGEND

- TECUMSEH PRODUCTS SITE BOUNDARY
- PARCEL BOUNDARY
- RAILROAD TRACKS (APPROXIMATE LOCATION)
- SANITARY SEWER (APPROXIMATE LOCATION)
- STORM SEWER (APPROXIMATE LOCATION)
- WATER MAIN
- MANHOLE
- WATER MAIN VALVE
- B-23 ✦ PERIMETER / OFF-SITE INVESTIGATION BORING LOCATION AND NUMBER
- MW-4S ▲ MONITORING WELL LOCATION AND NUMBER (INSTALLED BY RMT, INC. MARCH 2009)
- NS-6 ✦ NORTHERN SOURCE AREA INVESTIGATION BORING LOCATION AND NUMBER
- SS-2 ✦ SOUTHERN SOURCE AREA INVESTIGATION BORING LOCATION AND NUMBER
- STW-2 ✱ PERIMETER / OFF-SITE INVESTIGATION BORING LOCATION AND NUMBER

NOTES

1. BASE MAP DEVELOPED FROM SITE PLAN PROVIDED BY THE CITY OF TECUMSEH, DRAWING NO. CITY.DWG, MARCH 2009.
2. ALL UTILITY LOCATION APPROXIMATE AND PREPARED FROM SITE PLANS PROVIDED BY THE CITY OF TECUMSEH.

Summary of Potentially Relevent Cleanup Criteria

Analyte	units	I-DWPC	GSIP	I-SVIAI
n-Butyl Benzene	ug/kg	4,600	NC	NC
1,1-DCE	ug/kg	140	1300[1]	330
cis-1,2-DCE	ug/kg	1,400	12,000	41,000
trans-1,2-DCE	ug/kg	2,000	30,000	43,000
Ethylbenzene	ug/kg	1,500	360	1.40E+05
Napthalene	ug/kg	1.00E+05	870	4.70E+05
N-propyl Benzene	ug/kg	4,600	NC	NC
PCE	ug/kg	100	900[1]	60,000
Toluene	ug/kg	16,000	2,800	2.50E+05
1,1,1-TCA	ug/kg	4,000	4,000	4.60E+05
TCE	ug/kg	100	4000[1]	37,000
1,2,4-TMB	ug/kg	2,100	570	1.10E+05
1,3,5-TMB	ug/kg	1,800	1,100	94,000
Vinyl Chloride	ug/kg	40	300	2,800
Xylenes	ug/kg	5,600	700	1.50E+05
1,4-Dioxane	ug/kg	1700	56,000	NC

Notes:

Cleanup criteria from MDEQ RRD Op Memo 1 Part 201 Generic Cleanup Criteria/Part 213 Risk Based Cleanup Levels, January 23, 2006

R-DWPC denotes Residential Health-Based Drinking Water Protection Criteria

I-DW denotes Industrial Health-Based Drinking Water Protection Criteria

GSIP denotes Groundwater/Surface Water Interface Protection Criteria

R-SVIAI denotes Residential Soil Volatilization to Indoor Air Inhalation Criteria

Constituents of potential concern and/or those detected above generic Part 201 criteria are listed above generic Part 201 criteria are listed above. Abbreviated compounds are as follows: 1,1-dichloroethene (1,1-DCE), cis-1,2-dicloroethene (cis-1,2-DCE), trans-1,2-dicloroethene (trans-1,2-DCE), tetrachloroehene (PCE), 1,1,1-trichloroethane (1,1,1-TCA), trichloroethene (TCE), 1,2,4-trimethylbenzene (1,2,4-TMB) and 1,3,5-trimethylbenzene (1,3,5-TMB).

bold font denotes concentrations detected above laboratory reporting limits

Denotes concentrations above one or more criteria

ug/kg = micrograms per kilogram

NC = No Criteria

NA = Not Analyzed

1) Criterion is not protective for surface water used as a drinking water source as described in footnote (X) of MDEQ Op Memo 1 Part 201, Attachment 1.

N

0 180' 360' 540' 720'

SCALE IN FEET

NO.	BY	DATE	REVISION	APP'D.
5.				
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1.				

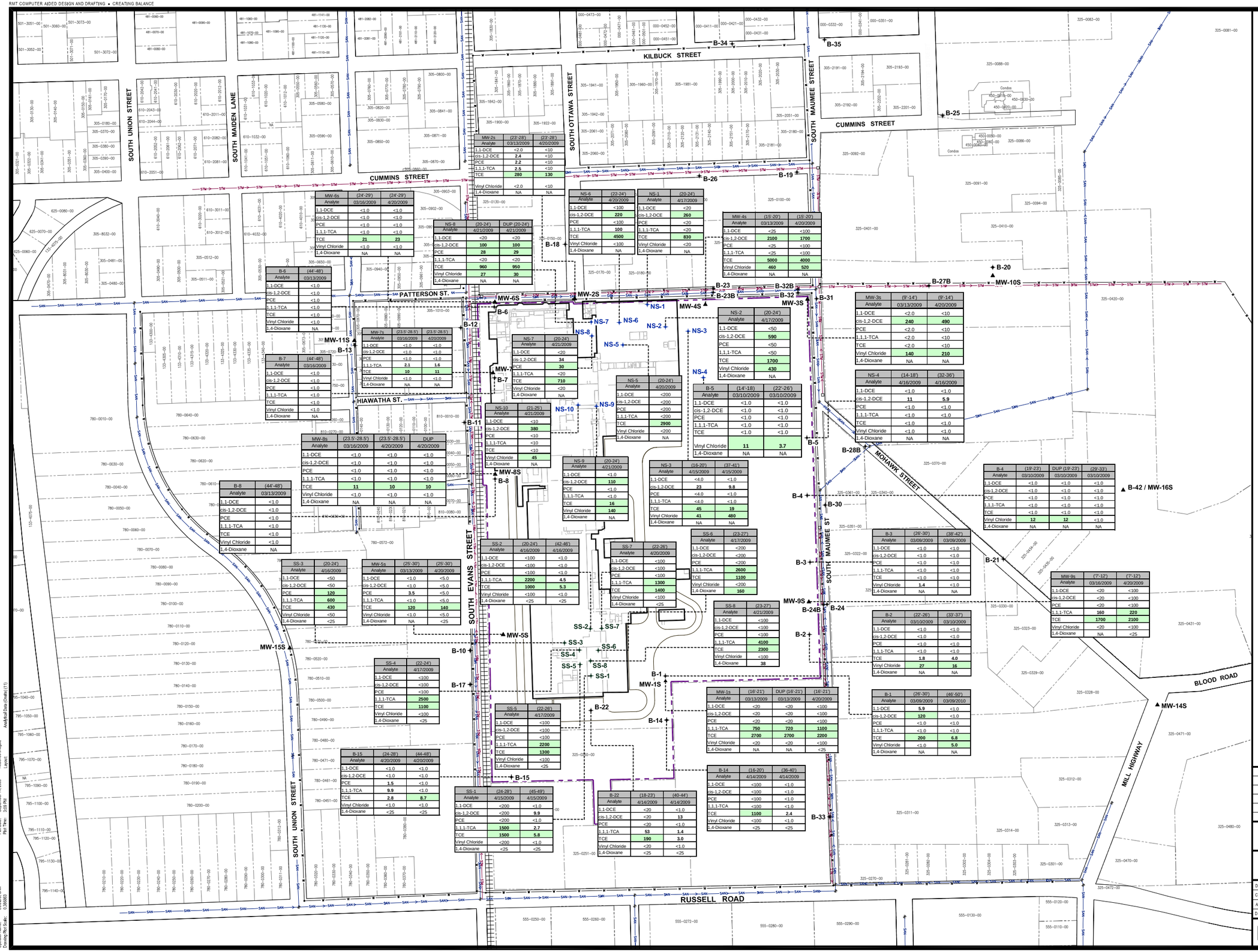
TECUMSEH PRODUCTS
TECUMSEH, MICHIGAN

SUMMARY OF ON-SITE SOIL ANALYTICAL DATA

DRAWN BY:	SJL	DRAWING SCALE:	PROJECT NO: J:\08070\04
CHECKED BY:	JAB,SEM	SHOWN	FILE NO: 8070.04.10.dwg
APPROVED BY:	GC	DATE PRINTED:	**FIGURE 10**
DATE:	September 2009		

RMT
3754 Ranchero Drive
Ann Arbor, MI 48108-2237
Phone: 734-971-7080 • Fax: 734-971-9022

Drawing Name: Soil Analytical Data (10)
Xref Drawings: Attached Images:
Layout:
Plot Date: September 14, 2009
Plot Time: 2:52 PM
Operator Name: LUCIDO, SAM
Drawing Plot Scale: 0.200883



MW-2s	(23'-28')	(23'-28')
Analyte	03/13/2009	4/20/2009
1,1-DCE	<2.0	<10
cis-1,2-DCE	2.4	<10
PCE	2.2	<10
1,1,1-TCA	2.5	<10
TCE	280	130
Vinyl Chloride	<2.0	<10
1,4-Dioxane	NA	NA

MW-6s	(24'-29')	(24'-29')
Analyte	03/16/2009	4/20/2009
1,1-DCE	<1.0	<1.0
cis-1,2-DCE	<1.0	<1.0
PCE	<1.0	<1.0
1,1,1-TCA	<1.0	<1.0
TCE	21	23
Vinyl Chloride	<1.0	<1.0
1,4-Dioxane	NA	NA

NS-8	(20-24')	DUP (20-24')
Analyte	4/21/2009	4/21/2009
1,1-DCE	<20	<20
cis-1,2-DCE	100	100
PCE	28	29
1,1,1-TCA	<20	<20
TCE	960	950
Vinyl Chloride	27	30
1,4-Dioxane	NA	NA

NS-6	(22-24')
Analyte	4/20/2009
1,1-DCE	<100
cis-1,2-DCE	220
PCE	<100
1,1,1-TCA	105
TCE	4500
Vinyl Chloride	<100
1,4-Dioxane	NA

NS-1	(20-24')
Analyte	4/17/2009
1,1-DCE	<20
cis-1,2-DCE	260
PCE	<20
1,1,1-TCA	<20
TCE	830
Vinyl Chloride	<20
1,4-Dioxane	NA

MW-4s	(15'-20')	(15'-20')
Analyte	03/13/2009	4/20/2009
1,1-DCE	<25	<100
cis-1,2-DCE	2100	1700
PCE	<25	<100
1,1,1-TCA	<25	<100
TCE	5000	4000
Vinyl Chloride	460	520
1,4-Dioxane	NA	NA

B-6	(44'-48')
Analyte	03/13/2009
1,1-DCE	<1.0
cis-1,2-DCE	<1.0
PCE	<1.0
1,1,1-TCA	<1.0
TCE	<1.0
Vinyl Chloride	<1.0
1,4-Dioxane	NA

MW-7s	(23.5'-28.5')	(23.5'-28.5')
Analyte	03/16/2009	4/20/2009
1,1-DCE	<1.0	<1.0
cis-1,2-DCE	<1.0	<1.0
PCE	<1.0	<1.0
1,1,1-TCA	2.1	1.6
TCE	10	11
Vinyl Chloride	<1.0	<1.0
1,4-Dioxane	NA	NA

B-7	(44'-48')
Analyte	03/16/2009
1,1-DCE	<1.0
cis-1,2-DCE	<1.0
PCE	<1.0
1,1,1-TCA	<1.0
TCE	<1.0
Vinyl Chloride	<1.0
1,4-Dioxane	NA

NS-7	(20-24')
Analyte	4/21/2009
1,1-DCE	<20
cis-1,2-DCE	34
PCE	30
1,1,1-TCA	<20
TCE	710
Vinyl Chloride	<20
1,4-Dioxane	NA

NS-5	(20-24')
Analyte	4/20/2009
1,1-DCE	<200
cis-1,2-DCE	<200
PCE	<200
1,1,1-TCA	<200
TCE	2900
Vinyl Chloride	<200
1,4-Dioxane	NA

NS-2	(20-24')
Analyte	4/17/2009
1,1-DCE	<50
cis-1,2-DCE	590
PCE	<50
1,1,1-TCA	<50
TCE	1700
Vinyl Chloride	430
1,4-Dioxane	NA

B-5	(14'-18')	(22'-26')
Analyte	03/10/2009	03/10/2009
1,1-DCE	<1.0	<1.0
cis-1,2-DCE	<1.0	<1.0
PCE	<1.0	<1.0
1,1,1-TCA	<1.0	<1.0
TCE	<1.0	<1.0
Vinyl Chloride	11	3.7
1,4-Dioxane	NA	NA

MW-3s	(9'-14')	(9'-14')
Analyte	03/13/2009	4/20/2009
1,1-DCE	<2.0	<10
cis-1,2-DCE	240	490
PCE	<2.0	<10
1,1,1-TCA	<2.0	<10
TCE	<2.0	<10
Vinyl Chloride	140	210
1,4-Dioxane	NA	NA

NS-4	(14-18')	(32-36')
Analyte	4/16/2009	4/16/2009
1,1-DCE	<1.0	<1.0
cis-1,2-DCE	11	5.9
PCE	<1.0	<1.0
1,1,1-TCA	<1.0	<1.0
TCE	<1.0	<1.0
Vinyl Chloride	<1.0	<1.0
1,4-Dioxane	NA	NA

MW-8s	(23.5'-28.5')	(23.5'-28.5')	DUP
Analyte	03/16/2009	4/20/2009	4/20/2009
1,1-DCE	<1.0	<1.0	<1.0
cis-1,2-DCE	<1.0	<1.0	<1.0
PCE	<1.0	<1.0	<1.0
1,1,1-TCA	<1.0	<1.0	<1.0
TCE	11	10	10
Vinyl Chloride	<1.0	<1.0	<1.0
1,4-Dioxane	NA	NA	NA

NS-10	(21-25')
Analyte	4/21/2009
1,1-DCE	<10
cis-1,2-DCE	380
PCE	<10
1,1,1-TCA	<10
TCE	<10
Vinyl Chloride	45
1,4-Dioxane	NA

NS-9	(20-24')
Analyte	4/21/2009
1,1-DCE	<1.0
cis-1,2-DCE	110
PCE	<1.0
1,1,1-TCA	<1.0
TCE	16
Vinyl Chloride	140
1,4-Dioxane	NA

NS-3	(16-20')	(37-41')
Analyte	4/15/2009	4/15/2009
1,1-DCE	<4.0	<1.0
cis-1,2-DCE	23	9.8
PCE	<4.0	<1.0
1,1,1-TCA	<4.0	<1.0
TCE	45	19
Vinyl Chloride	41	480
1,4-Dioxane	NA	NA

SS-6	(23-27')
Analyte	4/17/2009
1,1-DCE	<200
cis-1,2-DCE	<200
PCE	<200
1,1,1-TCA	2600
TCE	1100
Vinyl Chloride	<200
1,4-Dioxane	160

B-8	(44'-48')
Analyte	03/13/2009
1,1-DCE	<1.0
cis-1,2-DCE	<1.0
PCE	<1.0
1,1,1-TCA	<1.0
TCE	<1.0
Vinyl Chloride	<1.0
1,4-Dioxane	NA

SS-3	(20-24')
Analyte	4/16/2009
1,1-DCE	<50
cis-1,2-DCE	<50
PCE	120
1,1,1-TCA	600
TCE	430
Vinyl Chloride	<50
1,4-Dioxane	<25

MW-5s	(25'-30')	(25'-30')
Analyte	03/13/2009	4/20/2009
1,1-DCE	<1.0	<5.0
cis-1,2-DCE	<1.0	<5.0
PCE	3.5	<5.0
1,1,1-TCA	<1.0	<5.0
TCE	120	140
Vinyl Chloride	<1.0	<5.0
1,4-Dioxane	NA	<25

SS-2	(20-24')	(42-46')
Analyte	4/16/2009	4/16/2009
1,1-DCE	<100	<1.0
cis-1,2-DCE	<100	<1.0
PCE	<100	<1.0
1,1,1-TCA	2200	4.5
TCE	1000	5.3
Vinyl Chloride	<100	<1.0
1,4-Dioxane	<25	<25

SS-7	(22-26')
Analyte	4/20/2009
1,1-DCE	<100
cis-1,2-DCE	<100
PCE	<100
1,1,1-TCA	1300
TCE	1400
Vinyl Chloride	<100
1,4-Dioxane	<25

SS-8	(23-27')
Analyte	4/21/2009
1,1-DCE	<100
cis-1,2-DCE	<100
PCE	<100
1,1,1-TCA	4100
TCE	2300
Vinyl Chloride	<100
1,4-Dioxane	38

B-4	(19'-23')	DUP (19'-23')	(29'-33')
Analyte	03/10/2009	03/10/2009	03/10/2009
1,1-DCE	<1.0	<1.0	<1.0
cis-1,2-DCE	<1.0	<1.0	<1.0
PCE	<1.0	<1.0	<1.0
1,1,1-TCA	<1.0	<1.0	<1.0
TCE	<1.0	<1.0	<1.0
Vinyl Chloride	12	12	<1.0
1,4-Dioxane	NA	NA	NA

B-3	(26'-30')	(38'-42')
Analyte	03/09/2009	03/09/2009
1,1-DCE	<1.0	<1.0
cis-1,2-DCE	<1.0	<1.0
PCE	<1.0	<1.0
1,1,1-TCA	<1.0	<1.0
TCE	<1.0	<1.0
Vinyl Chloride	1.4	<1.0
1,4-Dioxane	NA	NA

B-2	(22'-26')	(33'-37')
Analyte	03/10/2009	03/10/2009
1,1-DCE	<1.0	<1.0
cis-1,2-DCE	<1.0	<1.0
PCE	<1.0	<1.0
1,1,1-TCA	<1.0	<1.0
TCE	1.8	4.0
Vinyl Chloride	27	16
1,4-Dioxane	NA	NA

MW-9s	(7'-12')	(7'-12')
Analyte	03/16/2009	4/20/2009
1,1-DCE	<20	<100
cis-1,2-DCE	<20	<100
PCE	<20	<100
1,1,1-TCA	160	220
TCE	1700	2100
Vinyl Chloride	<20	<100
1,4-Dioxane	NA	<25

B-1	(26'-30')	(46'-50')
Analyte	03/09/2009	03/09/2010
1,1-DCE	5.9	<1.0
cis-1,2-DCE	120	<1.0
PCE	<1.0	<1.0
1,1,1-TCA	<1.0	<1.0
TCE	200	6.8
Vinyl Chloride	<1.0	5.0
1,4-Dioxane	NA	NA

MW-1s	(16'-21')	DUP (16'-21')	(16'-21')
Analyte	03/13/2009	03/13/2009	4/20/2009
1,1-DCE	<20	<20	<100
cis-1,2-DCE	<20	<20	<100
PCE	<20	<20	<100
1,1,1-TCA	750	720	1100
TCE	2700	2700	2200
Vinyl Chloride	<20	<20	<100
1,4-Dioxane	NA	NA	<25

B-14	(16-20')	(36-40')
Analyte	4/14/2009	4/14/2009
1,1-DCE	<100	<1.0
cis-1,2-DCE	<100	<1.0
PCE	<100	<1.0
1,1,1-TCA	<100	<1.0
TCE	1100	2.4
Vinyl Chloride	<100	<1.0
1,4-Dioxane	<25	<25

B-22	(18-23')	(40-44')
Analyte	4/14/2009	4/14/2009
1,1-DCE	<20	<1.0
cis-1,2-DCE	<20	13
PCE	<20	<1.0
1,1,1-TCA	53	1.4
TCE	190	3.0
Vinyl Chloride	<20	<1.0
1,4-Dioxane	<25	<25

SS-4	(22-24')
Analyte	4/17/2009
1,1-DCE	<100
cis-1,2-DCE	<100
PCE	<100
1,1,1-TCA	2500
TCE	1100
Vinyl Chloride	<100
1,4-Dioxane	<25

SS-5	(22-26')
Analyte	4/17/2009
1,1-DCE	<100
cis-1,2-DCE	<100
PCE	<100
1,1,1-TCA	2200
TCE	1300
Vinyl Chloride	<100
1,4-Dioxane	<25

B-15	(24-28')	(44-48')
Analyte	4/20/2009	4/20/2009
1,1-DCE	<1.0	<1.0
cis-1,2-DCE	<1.0	<1.0
PCE	1.5	<1.0
1,1,1-TCA	9.9	<1.0
TCE	2.8	8.7
Vinyl Chloride	<1.0	<1.0
1,4-Dioxane	<25	<25

SS-1	(24-28')	(45-49')
Analyte	4/15/2009	4/15/2009
1,1-DCE	<200	<1.0
cis-1,2-DCE	<200	9.9
PCE	<200	<1.0
1,1,1-TCA	1500	2.7
TCE	1500	5.8
Vinyl Chloride	<200	<1.0
1,4-Dioxane	<25	<25

LEGEND

- TECUMSEH PRODUCTS SITE BOUNDARY
- PARCEL BOUNDARY
- RAILROAD TRACKS (APPROXIMATE LOCATION)
- SAN — SAN — SANITARY SEWER (APPROXIMATE LOCATION)
- STM — STM — STORM SEWER (APPROXIMATE LOCATION)
- WATER MAIN
- MANHOLE
- WATER MAIN VALVE
- B-23 ✦ PERIMETER / OFF-SITE INVESTIGATION BORING LOCATION AND NUMBER
- MW-4S ▲ MONITORING WELL LOCATION AND NUMBER (INSTALLED BY RMT, INC. MARCH 2009)
- NS-6 ✦ NORTHERN SOURCE AREA INVESTIGATION BORING LOCATION AND NUMBER
- SS-2 ✦ SOUTHERN SOURCE AREA INVESTIGATION BORING LOCATION AND NUMBER

NOTES

1. BASE MAP DEVELOPED FROM SITE PLAN PROVIDED BY THE CITY OF TECUMSEH, DRAWING NO. CITY.DWG, MARCH 2009.
2. ALL UTILITY LOCATION APPROXIMATE AND PREPARED FROM SITE PLANS PROVIDED BY THE CITY OF TECUMSEH.

Summary of Potentially Relevent Cleanup Criteria

Analyte	units	R-DW	I-DW	GSI	R-VIAI
1,1-DCE	ug/L	7.0	7.0	65[1]	200
cis-1,2-DCE	ug/L	70	70	620	93,000
PCE	ug/L	5.0	5.0	45[1]	25,000
1,1,1-TCA	ug/L	200	200	200	6.6E+5
TCE	ug/L	5.0	5.0	200[1]	15,000
Vinyl Chloride	ug/L	2.0	2.0	15	1,100
1,4-Dioxane	ug/L	85	350	2,800[1]	NC

Notes:
Cleanup criteria from MDEQ RRD Op Memo 1 Part 201 Generic Cleanup Criteria/Part 213 Risk Based Cleanup Levels, January 23, 2006

R-DW denotes Residential Health-Based Drinking Water Criteria

I-DW denotes Industrial Health-Based Drinking Water Criteria

GSI denotes Groundwater/Surface Water Interface Criteria

R-VIAI denotes Residential Volatilization to Indoor Air Inhalation Criteria

Constituents of potential concern are cis-1,2-dichloroethene (cis-1,2-DCE), 1,1-dichloroethene (1,1-DCE), tetrachloroethene (PCE), 1,1,1-trichloroethane (1,1,1-TCA), trichloroethene (TCE), and vinyl chloride.

bold font denotes concentrations detected above laboratory reporting limits

Denotes concentrations above one or more criteria

ug/L = micrograms per liter

NC = No Criteria

NA = Not Analyzed

1) Criterion is not protective for surface water used as a drinking water source as described in footnote [X] of MDEQ Op Memo 1 Part 201, Attachment 1.

0 180' 360' 540' 720'
SCALE IN FEET

NO.	BY	DATE	REVISION	APP'D.
5.				
4.				
3.				
2.				
1.				

TECUMSEH PRODUCTS
TECUMSEH, MICHIGAN

SUMMARY OF ON-SITE GROUNDWATER ANALYTICAL DATA

DRAWN BY:	SJL	DRAWING SCALE:	PROJECT NO: J:\08070\04
CHECKED BY:	JAB,SEM	SHOWN	FILE NO: 8070.04.11.dwg
APPROVED BY:	GC	DATE PRINTED:	
DATE:	September 2009		**FIGURE 11**

RMT
3754 Ranchero Drive
Ann Arbor, MI 48108-2237
Phone: 734-971-7080 • Fax: 734-971-9022

B-40	(16-20')	(42-46')
Analyte	5/15/2009	5/15/2009
1,1-DCE	<1.0	<1.0
cis-1,2-DCE	<1.0	<1.0
PCE	<1.0	<1.0
1,1,1-TCA	<1.0	<1.0
TCE	<1.0	<1.0
Vinyl Chloride	<1.0	<1.0
1,4-Dioxane	NA	NA

MW-13S	(13-18')
Analyte	5/15/2009
1,1-DCE	<1.0
cis-1,2-DCE	<1.0
PCE	<1.0
1,1,1-TCA	<1.0
TCE	<1.0
Vinyl Chloride	<1.0
1,4-Dioxane	NA

B-37	(38.5-42.5')
Analyte	5/12/2009
1,1-DCE	<1.0
cis-1,2-DCE	<1.0
PCE	<1.0
1,1,1-TCA	<1.0
TCE	<1.0
Vinyl Chloride	<1.0
1,4-Dioxane	NA

MW-12S	(12-17')
Analyte	5/15/2009
1,1-DCE	<1.0
cis-1,2-DCE	<1.0
PCE	1.4
1,1,1-TCA	<1.0
TCE	<1.0
Vinyl Chloride	<1.0
1,4-Dioxane	NA

B-39	(15-19')
Analyte	5/13/2009
1,1-DCE	<1.0
cis-1,2-DCE	<1.0
PCE	<1.0
1,1,1-TCA	<1.0
TCE	<1.0
Vinyl Chloride	<1.0
1,4-Dioxane	NA

B-38	(15-19')	(36-40')
Analyte	5/13/2009	5/13/2009
1,1-DCE	<1.0	<1.0
cis-1,2-DCE	<1.0	<1.0
PCE	<1.0	<1.0
1,1,1-TCA	<1.0	<1.0
TCE	<1.0	<1.0
Vinyl Chloride	<1.0	<1.0
1,4-Dioxane	NA	NA

B-34	(14-18')	(41-45')
Analyte	4/20/2009	4/20/2009
1,1-DCE	<1.0	<1.0
cis-1,2-DCE	<1.0	<1.0
PCE	<1.0	<1.0
1,1,1-TCA	<1.0	<1.0
TCE	<1.0	<1.0
Vinyl Chloride	<1.0	<1.0
1,4-Dioxane	NA	NA

B-35	(5-9')	DUP (5-9')	(30-34')
Analyte	4/20/2009	4/20/2009	4/20/2009
1,1-DCE	<1.0	<1.0	<10
cis-1,2-DCE	<1.0	<1.0	<10
PCE	<1.0	<1.0	<10
1,1,1-TCA	<1.0	<1.0	<10
TCE	<1.0	<1.0	<10
Vinyl Chloride	**1.1**	**1.1**	**450**
1,4-Dioxane	<25	<25	<25

B-36	(12-16')	(16-20')	DUP (16-20')
Analyte	5/13/2009	5/13/2009	5/13/2009
1,1-DCE	<1.0	<1.0	<1.0
cis-1,2-DCE	<1.0	<1.0	<1.0
PCE	<1.0	<1.0	<1.0
1,1,1-TCA	<1.0	<1.0	<1.0
TCE	<1.0	<1.0	<1.0
Vinyl Chloride	<1.0	<1.0	<1.0
1,4-Dioxane	NA	NA	NA

B-25	(7-11')	DUP (7-11')	(31-35')
Analyte	4/17/2009	4/17/2009	4/17/2009
1,1-DCE	<1.0	<1.0	<1.0
cis-1,2-DCE	<1.0	<1.0	<1.0
PCE	<1.0	<1.0	<1.0
1,1,1-TCA	<1.0	<1.0	<1.0
TCE	<1.0	<1.0	<1.0
Vinyl Chloride	<1.0	<1.0	<1.0
1,4-Dioxane	<25	<25	<25

B-18	(22-26')	(32-36')
Analyte	4/14/2009	4/14/2009
1,1-DCE	<1.0	<1.0
cis-1,2-DCE	**2.3**	**1.4**
PCE	<1.0	<1.0
1,1,1-TCA	<1.0	<1.0
TCE	<1.0	<1.0
Vinyl Chloride	<1.0	<1.0
1,4-Dioxane	NA	NA

B-26	(16-20')	(29-33')
Analyte	4/14/2009	4/14/2009
1,1-DCE	<1.0	<1.0
cis-1,2-DCE	**3.2**	**7.3**
PCE	<1.0	<1.0
1,1,1-TCA	<1.0	<1.0
TCE	<1.0	<1.0
Vinyl Chloride	**3.1**	**140**
1,4-Dioxane	NA	NA

B-19	(12-16')	(29-33')
Analyte	4/15/2009	4/15/2009
1,1-DCE	<1.0	<1.0
cis-1,2-DCE	<1.0	<1.0
PCE	<1.0	<1.0
1,1,1-TCA	<1.0	<1.0
TCE	<1.0	<1.0
Vinyl Chloride	**11**	**10**
1,4-Dioxane	NA	NA

B-12	(24-28')	DUP (24-28')
Analyte	4/16/2009	4/16/2009
1,1-DCE	<1.0	<1.0
cis-1,2-DCE	<1.0	<1.0
PCE	<1.0	<1.0
1,1,1-TCA	<1.0	<1.0
TCE	**2.5**	**2.2**
Vinyl Chloride	<1.0	<1.0
1,4-Dioxane	NA	NA

MW-11S	(29-34')
Analyte	5/14/2009
1,1-DCE	<1.0
cis-1,2-DCE	<1.0
PCE	<1.0
1,1,1-TCA	<1.0
TCE	<1.0
Vinyl Chloride	<1.0
1,4-Dioxane	NA

B-23	(14-18')	DUP (14-18')	(30-34')
Analyte	4/13/2009	4/13/2009	4/13/2009
1,1-DCE	<2.0	<2.0	<250
cis-1,2-DCE	<2.0	<2.0	**5500**
PCE	<2.0	<2.0	<250
1,1,1-TCA	<2.0	<2.0	<250
TCE	**23**	**26**	**1700**
Vinyl Chloride	<2.0	<2.0	<250
1,4-Dioxane	NA	NA	NA

B-32	(10-14')	(25-29')
Analyte	4/14/2009	4/14/2009
1,1-DCE	<1.0	<100
cis-1,2-DCE	**13**	**1200**
PCE	<1.0	<100
1,1,1-TCA	<1.0	<100
TCE	<1.0	<100
Vinyl Chloride	**430**	**360**
1,4-Dioxane	NA	NA

B-27b	(8-10')
Analyte	4/15/2009
1,1-DCE	<1.0
cis-1,2-DCE	<1.0
PCE	<1.0
1,1,1-TCA	<1.0
TCE	**9.2**
Vinyl Chloride	<1.0
1,4-Dioxane	NA

B-20	(8-12')	(18-22')
Analyte	4/15/2009	4/15/2009
1,1-DCE	<1.0	<1.0
cis-1,2-DCE	<1.0	<1.0
PCE	<1.0	<1.0
1,1,1-TCA	<1.0	<1.0
TCE	<1.0	<1.0
Vinyl Chloride	<1.0	<1.0
1,4-Dioxane	NA	NA

MW-10S	(8-13")	DUP (8-13')
Analyte	5/15/2009	5/15/2009
1,1-DCE	<1.0	<1.0
cis-1,2-DCE	<1.0	<1.0
PCE	<1.0	<1.0
1,1,1-TCA	<1.0	<1.0
TCE	<1.0	<1.0
Vinyl Chloride	<1.0	<1.0
1,4-Dioxane	NA	NA

B-13	(29-33')	(46-50')
Analyte	4/17/2009	4/16/2009
1,1-DCE	<1.0	<1.0
cis-1,2-DCE	<1.0	<1.0
PCE	<1.0	<1.0
1,1,1-TCA	<1.0	<1.0
TCE	<1.0	<1.0
Vinyl Chloride	<1.0	<1.0
1,4-Dioxane	NA	NA

B-11	(29-33')
Analyte	4/16/2009
1,1-DCE	<1.0
cis-1,2-DCE	<1.0
PCE	<1.0
1,1,1-TCA	<1.0
TCE	<1.0
Vinyl Chloride	<1.0
1,4-Dioxane	NA

B-23b	(14-16')
Analyte	4/15/2009
1,1-DCE	<1.0
cis-1,2-DCE	<1.0
PCE	**1.7**
1,1,1-TCA	<1.0
TCE	**8.9**
Vinyl Chloride	<1.0
1,4-Dioxane	NA

B-32b	(8.5-10.5')
Analyte	4/15/2009
1,1-DCE	<1.0
cis-1,2-DCE	**3.4**
PCE	**1.7**
1,1,1-TCA	**2.1**
TCE	**13**
Vinyl Chloride	**1.6**
1,4-Dioxane	NA

B-31	(10-14')	(25-29')
Analyte	4/13/2009	4/13/2009
1,1-DCE	<1.0	<1.0
cis-1,2-DCE	<1.0	<1.0
PCE	<1.0	<1.0
1,1,1-TCA	<1.0	<1.0
TCE	<1.0	<1.0
Vinyl Chloride	**8.1**	**390**
1,4-Dioxane	NA	NA

B-28b	(16-18')
Analyte	4/16/2009
1,1-DCE	<1.0
cis-1,2-DCE	<1.0
PCE	<1.0
1,1,1-TCA	<1.0
TCE	<1.0
Vinyl Chloride	**1.7**
1,4-Dioxane	<25

MW-17S	(3-8')
Analyte	7/23/2009
1,1-DCE	<1.0
cis-1,2-DCE	<1.0
PCE	<1.0
1,1,1-TCA	<1.0
TCE	<1.0
Vinyl Chloride	<1.0
1,4-Dioxane	<3.0

B-30	(6-11')	(30-34')	DUP (30-34')
Analyte	4/14/2009	4/14/2009	4/14/2009
1,1-DCE	<1.0	<1.0	<1.0
cis-1,2-DCE	**36**	<1.0	<1.0
PCE	<1.0	<1.0	<1.0
1,1,1-TCA	<1.0	<1.0	<1.0
TCE	<1.0	<1.0	<1.0
Vinyl Chloride	<1.0	<1.0	<1.0
1,4-Dioxane	<25	<25	<25

B-21	(6-10')	(13-17')
Analyte	4/15/2009	4/15/2009
1,1-DCE	<1.0	<1.0
cis-1,2-DCE	**3.6**	**13**
PCE	<1.0	<1.0
1,1,1-TCA	<1.0	**3.6**
TCE	**6.9**	**30**
Vinyl Chloride	**1.0**	**58**
1,4-Dioxane	<25	<25

B-10	(24-28')
Analyte	4/16/2009
1,1-DCE	<1.0
cis-1,2-DCE	<1.0
PCE	<1.0
1,1,1-TCA	<1.0
TCE	**57**
Vinyl Chloride	<1.0
1,4-Dioxane	<25

MW-15S	(30-35')
Analyte	5/15/2009
1,1-DCE	<1.0
cis-1,2-DCE	<1.0
PCE	<1.0
1,1,1-TCA	<1.0
TCE	<1.0
Vinyl Chloride	<1.0
1,4-Dioxane	NA

B-24	(6-10')	(28-32')
Analyte	4/13/2009	4/13/2009
1,1-DCE	<5.0	<1.0
cis-1,2-DCE	<5.0	<1.0
PCE	<5.0	<1.0
1,1,1-TCA	<5.0	<1.0
TCE	**150**	**1.6**
Vinyl Chloride	<5.0	**6.7**
1,4-Dioxane	<25	<25

MW-14S	(4-9')
Analyte	5/14/2009
1,1-DCE	<1.0
cis-1,2-DCE	<1.0
PCE	<1.0
1,1,1-TCA	<1.0
TCE	<1.0
Vinyl Chloride	<1.0
1,4-Dioxane	<3.0

B-24b	(5-7')	DUP (5-7')
Analyte	4/16/2009	4/16/2009
1,1-DCE	<20	<50
cis-1,2-DCE	<20	<50
PCE	<20	<50
1,1,1-TCA	**29**	<50
TCE	**740**	**770**
Vinyl Chloride	<20	<50
1,4-Dioxane	<25	<25

B-17	(24-28')
Analyte	4/20/2009
1,1-DCE	<1.0
cis-1,2-DCE	<1.0
PCE	<1.0
1,1,1-TCA	<1.0
TCE	<1.0
Vinyl Chloride	<1.0
1,4-Dioxane	<25

B-29	(8-12')	(38-42')
Analyte	4/13/2009	4/13/2009
1,1-DCE	<1.0	<1.0
cis-1,2-DCE	<1.0	<1.0
PCE	<1.0	<1.0
1,1,1-TCA	<1.0	<1.0
TCE	<1.0	<1.0
Vinyl Chloride	<1.0	**1.3**
1,4-Dioxane	<25	<25

B-33	(4-8')	DUP (4-8')	(17-21')
Analyte	4/15/2009	4/15/2009	4/15/2009
1,1-DCE	<1.0	<1.0	<1.0
cis-1,2-DCE	<1.0	<1.0	<1.0
PCE	<1.0	<1.0	<1.0
1,1,1-TCA	<1.0	<1.0	<1.0
TCE	<1.0	<1.0	<1.0
Vinyl Chloride	<1.0	<1.0	<1.0
1,4-Dioxane	<25	<25	<25

LEGEND

- TECUMSEH PRODUCTS SITE BOUNDARY
- PARCEL BOUNDARY
- RAILROAD TRACKS (APPROXIMATE LOCATION)
- B-23 — PERIMETER / OFF-SITE INVESTIGATION BORING LOCATION AND NUMBER
- MW-4S — MONITORING WELL LOCATION AND NUMBER (INSTALLED BY RMT, INC. MARCH 2009)
- NS-6 — NORTHERN SOURCE AREA INVESTIGATION BORING LOCATION AND NUMBER
- SS-2 — SOUTHERN SOURCE AREA INVESTIGATION BORING LOCATION AND NUMBER
- STW-2 — PERIMETER / OFF-SITE INVESTIGATION BORING LOCATION AND NUMBER

NOTES

1. BASE MAP DEVELOPED FROM SITE PLAN PROVIDED BY THE CITY OF TECUMSEH, DRAWING NO. CITY.DWG, MARCH 2009.

Summary of Potentially Relevent Cleanup Criteria

Analyte	units	R-DW	I-DW	GSI	R-VIAI
1,1-DCE	ug/L	7.0	7.0	$65^{(1)}$	200
cis-1,2-DCE	ug/L	70	70	620	93,000
PCE	ug/L	5.0	5.0	$45^{(1)}$	25,000
1,1,1-TCA	ug/L	200	200	200	6.6E+5
TCE	ug/L	5.0	5.0	$200^{(1)}$	15,000
Vinyl Chloride	ug/L	2.0	2.0	15	1,100
1,4-Dioxane	ug/L	85	350	$2,800^{(1)}$	NC

Notes:

Cleanup criteria from MDEQ RRD Op Memo 1 Part 201 Generic Cleanup Criteria/Part 213 Risk Based Cleanup Levels, January 23, 2006

R-DW denotes Residential Health-Based Drinking Water Criteria

I-DW denotes Industrial Health-Based Drinking Water Criteria

GSI denotes Groundwater/Surface Water Interface Criteria

R-VIAI denotes Residential Volatilization to Indoor Air Inhalation Criteria

Constituents of potential concern are cis-1,2-dicloroethene (cis-1,2-DCE), 1,1-dichloroethene (1,1-DCE), tetrachloroethene (PCE), 1,1,1-trichloroethane (1,1,1-TCA), trichloroethene (TCE), and vinyl chloride.

bold font denotes concentrations detected above laboratory reporting limits

(shaded) Denotes concentrations above one or more criteria

ug/L = micrograms per liter

NC = No Criteria

NA = Not Analyzed

1) Criterion is not protective for surface water used as a drinking water source as described in footnote {X} of MDEQ Op Memo 1 Part 201, Attachment 1.

NO.	BY	DATE	REVISION	APP'D.
5.				
4.				
3.				
2.				
1.				

TECUMSEH PRODUCTS
TECUMSEH, MICHIGAN

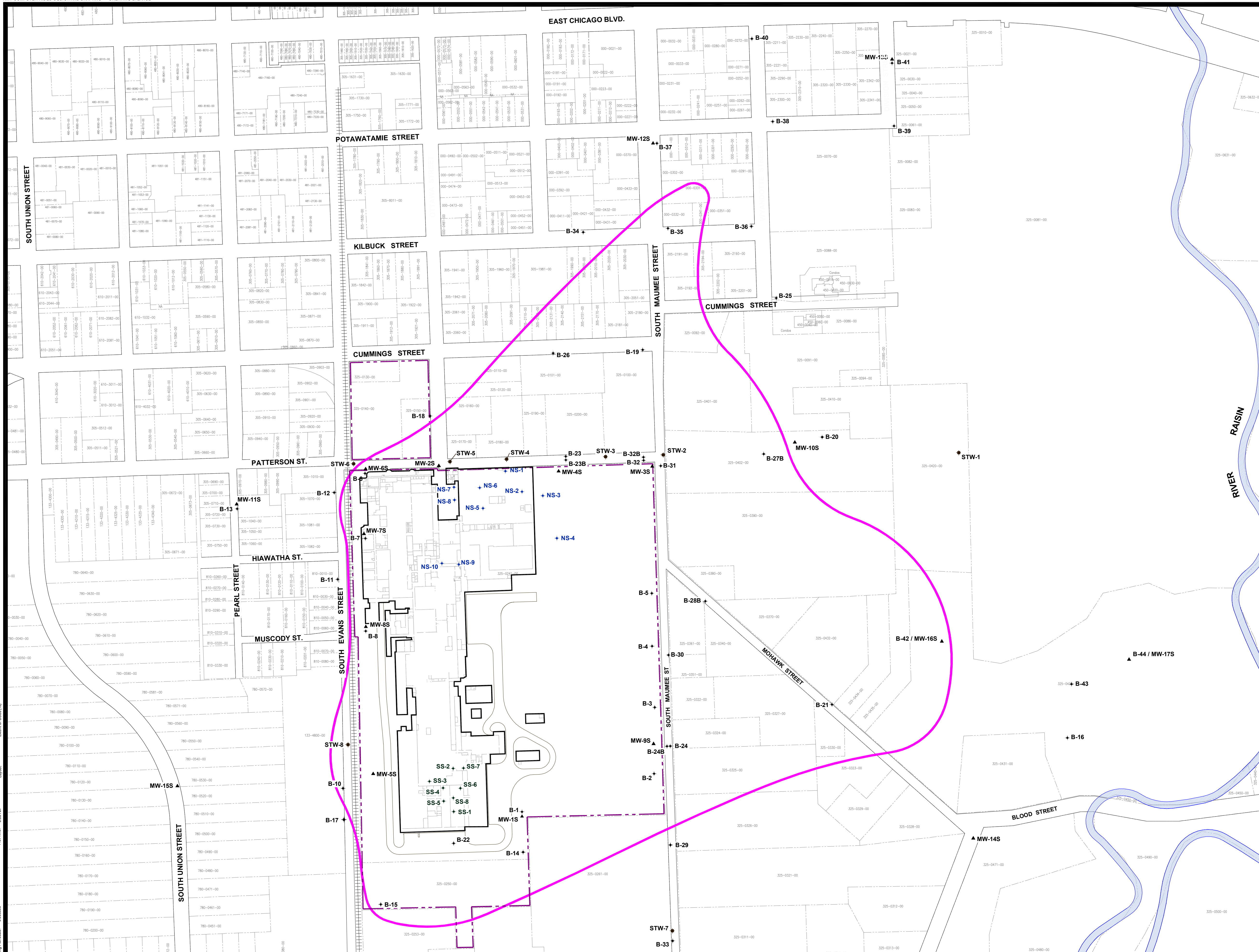
SUMMARY OF OFF-SITE GROUNDWATER ANALYTICAL DATA

DRAWN BY: SJL	DRAWING SCALE: SHOWN	PROJECT NO: J:\08070\04	
CHECKED BY: JAB,SM		FILE NO: 8070.04.12.dwg	
APPROVED BY: GC	DATE PRINTED:	**FIGURE 12**	
DATE: September 2009			

RMT
3754 Ranchero Drive
Ann Arbor, MI 48108-2237
Phone: 734-971-7080 • Fax: 734-971-9022

Offsite GW Analytical (12)
Plot Date: September 14, 2009
Plot Time: 2:55 PM
LUCIDO, SAM
0.386863

RMT COMPUTER AIDED DESIGN AND DRAFTING • CREATING BALANCE



LEGEND

- TECUMSEH PRODUCTS SITE BOUNDARY
- PARCEL BOUNDARY
- RAILROAD TRACKS (APPROXIMATE LOCATION)
- B-2 ✦ SOIL BORING LOCATION AND NUMBER
- MW-4S ▲ MONITORING WELL LOCATION AND NUMBER
- NS-6 ✦ NORTHERN SOURCE AREA INVESTIGATION BORING LOCATION AND NUMBER
- SS-2 ✦ SOUTHERN SOURCE AREA INVESTIGATION BORING LOCATION AND NUMBER
- STW-2 ● STORM WATER SEWER SAMPLE LOCATION AND NUMBER
- ESTIMATED EXTENT OF VOCs IN GROUNDWATER ABOVE PART 201 CRITERIA

NOTES

1. BASE MAP DEVELOPED FROM SITE PLAN PROVIDED BY THE CITY OF TECUMSEH, DRAWING NO. CITY.DWG, MARCH 2009.
2. GROUNDWATER ELEVATIONS MEASURED JUNE 4, 2009 BY RMT, INC.

NO.	BY	DATE	REVISION	APP'D.
5.				
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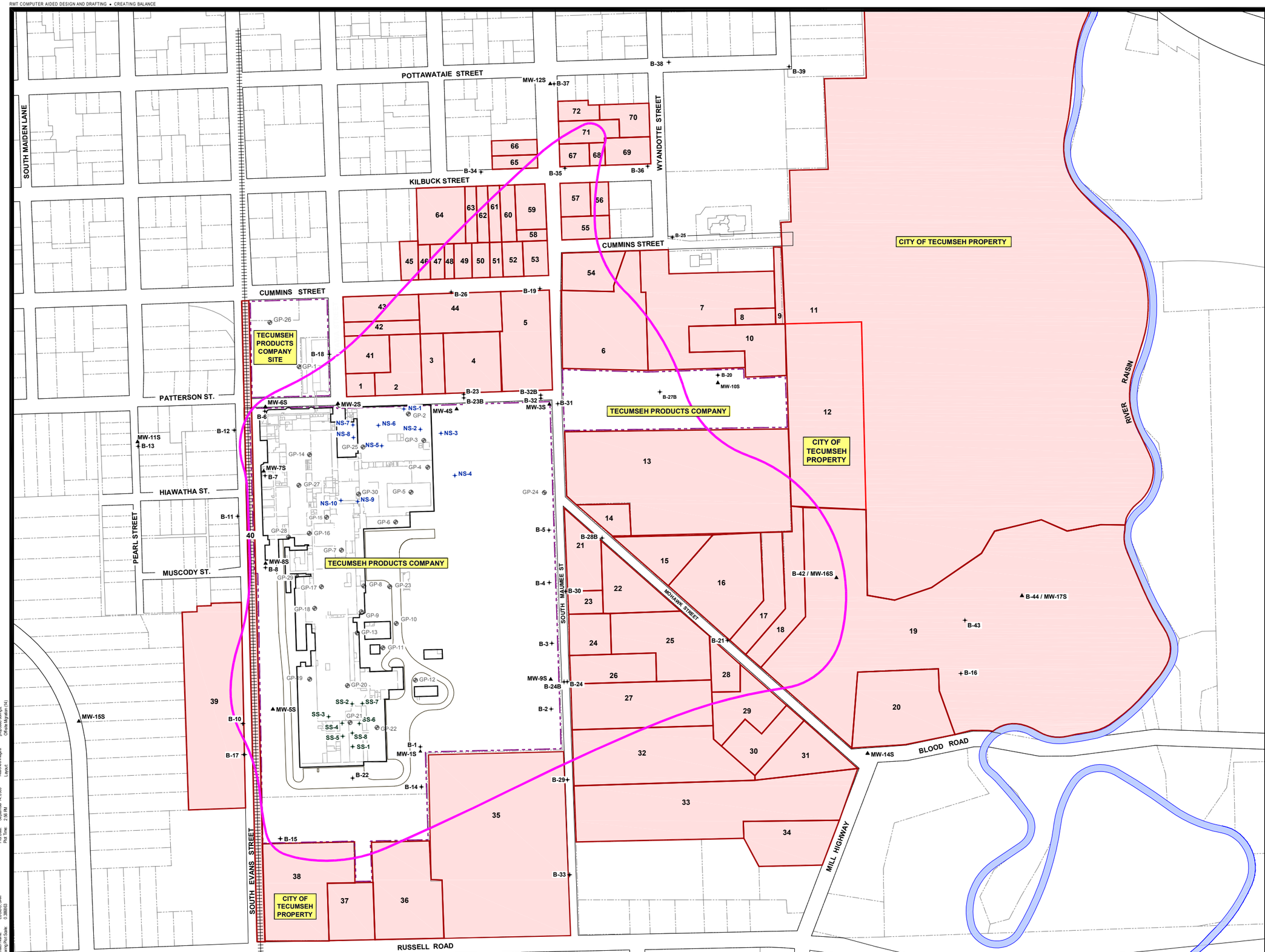
1.				

TECUMSEH PRODUCTS
TECUMSEH, MICHIGAN

EXTENT OF COCs ABOVE PART 201 DRINKING WATER CRITERIA

DRAWN BY: SJL	DRAWING SCALE: SHOWN	PROJECT NO: J:\08070\04	
CHECKED BY: JAB,SEM		FILE NO: 8070.04.13.dwg	
APPROVED BY: GC	DATE PRINTED:	**FIGURE 13**	
DATE: September 2009			

RMT
3754 Ranchero Drive
Ann Arbor, MI 48108-2237
Phone: 734-971-7080 • Fax: 734-971-9022



LEGEND

- TECUMSEH PRODUCTS SITE BOUNDARY
- PARCEL BOUNDARY
- RAILROAD TRACKS (APPROXIMATE LOCATION)
- B-23 — PERIMETER / OFF-SITE INVESTIGATION BORING LOCATION AND NUMBER
- MW-4S — MONITORING WELL LOCATION AND NUMBER (INSTALLED BY RMT, INC. MARCH 2009)
- GP-26 — APPROXIMATE GEOPROBE LOCATION. BORINGS ADVANCED AS PART OF ATCs LIMITED PHASE II INVESTIGATION IN DECEMBER 2008 AND JANUARY 2009.
- NS-6 — NORTHERN SOURCE AREA INVESTIGATION BORING LOCATION AND NUMBER
- SS-2 — SOUTHERN SOURCE AREA INVESTIGATION BORING LOCATION AND NUMBER
- MAP ID NUMBER
- 23 — PROPERTIES THAT RECEIVED NOTICES OF OFF-SITE MIGRATION
- ESTIMATED EXTENT OF VOCs IN GROUNDWATER ABOVE PART 201 CRITERIA

NOTES

1. BASE MAP DEVELOPED FROM SITE PLAN PROVIDED BY THE CITY OF TECUMSEH, DRAWING NO. CITY.DWG, MARCH 2009.

N

0 200' 400' 600' 800'
SCALE IN FEET

NO.	BY	DATE	REVISION	APP'D.
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1.				

TECUMSEH PRODUCTS
TECUMSEH, MICHIGAN

NOTICES OF POTENTIAL OFF-SITE MIGRATION

DRAWN BY:	SJL	DRAWING SCALE:	PROJECT NO: J:\08070\04
CHECKED BY:	JAB,SEM	SHOWN	FILE NO: 8070.04.14.dwg
APPROVED BY:	GC	DATE PRINTED:	**FIGURE 14**
DATE:	September 2009		

RMT
3754 Ranchero Drive
Ann Arbor, MI 48108-2237
Phone: 734-971-7080 • Fax: 734-971-9022

BLOCK DATA:
Drawing Path/Name: J:\08070\04\8070.04.14.dwg
Operator Name: LUCIDO, SAM
Drawing Plot Scale: 0.36933

Dwg Size: 1.69 Mb
Plot Date: September 14, 2009
Plot Time: 2:56 PM

Attached Xrefs
Attached Images:
Layout:

Image: bnf033109
proposed borings
Offsite Migration (1H)

Appendix A
Soil Boring Logs and Monitoring Well Construction Information

SOIL BORING LOG

RMT

BORING NO. B-14

Facility/Project Name:	Date Drilling Started:	Date Drilling Completed:	Project Number:
Tecumseh Products Company - Phase II Investigation	4/14/09	4/14/09	8070.02

Drilling Firm:	Drilling Method:	Surface Elev. (ft)	TOC Elevation (ft)	Total Depth (ft bgs)	Borehole Dia. (in)
Terraprobe, Inc.	Direct Push	---	---	40.0	2

Boring Location: On TPC property, about 200 feet south of MW-1, about 600 feet west of Maumee Street and 1600 feet south of Patterson Street

Personnel: Logged By - Stacy Metz; Driller - Craig Tanicala

Drilling Equipment: Geoprobe

Civil Town/City/or Village:	County:	State:
Tecumseh	Lenawee	MI

Water Level Observations:
While Drilling: Date/Time 4/14/09 00:00 ▽ Depth (ft bgs) 16
After Drilling: Date/Time 4/14/09 00:00 ▼ Depth (ft bgs) 16

SAMPLE NUMBER AND TYPE	SAMPLE RECOVERY (%)	BLOW COUNTS	DEPTH IN FEET	LITHOLOGIC DESCRIPTION	USCS	GRAPHIC LOG	COMMENTS
			0	**TOPSOIL**			
1 GP	54		2	**CLAY WITH SAND** mostly clay, little fine to medium sand, plastic, dark brown (10YR 3/3), moist, soft.	CL		
			4	**SAND** mostly fine to coarse sand, few fine to coarse gravel, dark yellowish brown (10YR 3/6), moist, medium dense.			
2 GP	67		6	Lens of fine angular gravel at 6.0 feet.			
			8				
3 GP	73		10	Change to dense to very dense at 10.0 feet.	SW		
			12	Same as above.			
4 GP	65		14				
			16 ▼	Change to saturated at 16.0 feet.			Groundwater sample collected at 16-20 feet.
5 GP	75		18				

SOIL BORING WELL CONSTRUCTION LOG 8070.02.GPJ RMT_CORP.GDT 8070.02 8/26/09

Signature:

Firm: RMT Inc.
3754 Ranchero Drive Ann Arbor, MI 48108
(734) 971-7080
Fax (734) 971-9022

SOIL BORING LOG

RMT

BORING NO. B-14

SAMPLE NUMBER AND TYPE	SAMPLE RECOVERY (%)	BLOW COUNTS	DEPTH IN FEET	LITHOLOGIC DESCRIPTION	USCS	GRAPHIC LOG	COMMENTS
				Blind drill to 40.0 feet.			
			22				
			24				
			26				
			28				
			30				
			32				
			34				
			36				Groundwater sample collected at 36-40 feet.
			38	Drilling change at 38.0 feet indicating likely change to clay.			
			40	End of boring at 40.0 feet below ground surface.			
			42				
			44				
			46				

SOIL BORING LOG

RMT

BORING NO. B-16

Facility/Project Name:	Date Drilling Started:	Date Drilling Completed:	Project Number:
Tecumseh Products Company - Phase II Investigation	7/23/09	7/23/09	8070.02

Drilling Firm:	Drilling Method:	Surface Elev. (ft)	TOC Elevation (ft)	Total Depth (ft bgs)	Borehole Dia. (in)
Terraprobe, Inc.	Direct Push	---	---	16.0	2

Boring Location:	Personnel	Drilling Equipment:
On Birchfield property, about 400 feet south of B-43	Logged By - Brent Ritchie Driller - Joe Fotjik	Geoprobe

Civil Town/City/or Village:	County:	State:	Water Level Observations:		
Tecumseh	Lenawee	MI	While Drilling:	Date/Time 7/23/09 00:00	Depth (ft bgs) NA
			After Drilling:	Date/Time 7/23/09 00:00	Depth (ft bgs) NM

SAMPLE NUMBER AND TYPE	SAMPLE RECOVERY (%)	BLOW COUNTS	DEPTH IN FEET	LITHOLOGIC DESCRIPTION	USCS	GRAPHIC LOG	COMMENTS
			0	**TOPSOIL**			
1 GP	70		2	**SILTY SAND** mostly fine to medium sand, some silt, trace fine gravel, very pale brown (10YR 7/4), dry, medium dense. Change to dense at 2.0 feet. Change to few clay, brown (10YR 5/3) at 3.0 feet.	SM		
2 GP	100		4	**SILTY CLAY** few to little fine sand, few fine to medium gravel, slight plasticity, brown (10YR 5/3), damp, stiff.	CL-ML		
3 GP	100		8	Same as above.			
4 GP	100		12	**SILTY CLAY** few fine to medium gravel, slight plasticity, gray (10YR 5/1), damp, stiff.	CL-ML		
			16	End of boring at 16.0 feet below ground surface.			

SOIL BORING WELL CONSTRUCTION LOG 8070.02.GPJ RMT_CORP.GDT 8070.02 8/26/09

Signature:

Firm: RMT Inc.
3754 Ranchero Drive Ann Arbor, MI 48108
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Fax (734) 971-9022

SOIL BORING LOG

RMT

BORING NO. B-18

Facility/Project Name	Date Drilling Started	Date Drilling Completed	Project Number
Tecumseh Products Company - Phase II Investigation	4/14/09	4/14/09	8070.02

Drilling Firm	Drilling Method	Surface Elev. (ft)	TOC Elevation (ft)	Total Depth (ft bgs)	Borehole Dia. (in)
Terraprobe, Inc.	Direct Push	---	---	28.0	2

Boring Location: On west side of Ottawa Street about 200 feet north of Patterson Street

Personnel
Logged By - Scott Middlebrook
Driller - Joe Fotjik

Drilling Equipment: Geoprobe

Civil Town/City/or Village	County	State
Tecumseh	Lenawee	MI

Water Level Observations:
While Drilling: Date/Time 4/14/09 00:00 ▽ Depth (ft bgs) 21.5
After Drilling: Date/Time 4/14/09 00:00 Depth (ft bgs) NM

SAMPLE NUMBER AND TYPE	SAMPLE RECOVERY (%)	BLOW COUNTS	DEPTH IN FEET	LITHOLOGIC DESCRIPTION	USCS	GRAPHIC LOG	COMMENTS
			0	**TOPSOIL**			
1 GP	56		2	**SILTY CLAY WITH SAND** mostly clay, some silt, little coarse sand, few fine sand, trace fine gravel, medium plasticity, strong brown (7.5YR 5/6), moist.	CL-ML		
				SILTY SAND mostly coarse and, some medium sand, little silt, few fine sand, trace gravel, brown (7.5YR 5/2), moist, medium dense.	SM		
2 GP	75		4	**SAND** mostly coarse sand, some medium sand, few fine sand, trace gravel, brown (10YR 5/3) grading to pale brown (10YR 6/3), dry, loose.	SW		
			6				
			8	Coarse sand and gravel content decreases with depth.			
3 GP	73		10	**SAND** mostly medium sand.	SP		
			12				
				Same as above with few coarse sand at 13.0 feet.			
4 GP	67		14				

SOIL_BORING WELL CONSTRUCTION LOG 8070.02.GPJ RMT_CORP.GDT 8070.02 8/28/09

Signature:

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SOIL BORING LOG

RMT

BORING NO. B-18

SAMPLE NUMBER AND TYPE	SAMPLE RECOVERY (%)	BLOW COUNTS	DEPTH IN FEET	LITHOLOGIC DESCRIPTION	USCS	GRAPHIC LOG	COMMENTS
5 GP	58		18				
				Same as above with strong brown (7.5YR 5/6) staining in sand at 19.0 feet.	SP		
			20				No recovery on first attempt.
				▽			
6 GP	60		22	**SAND** mostly medium sand, some fine sand, trace coarse sand, brown (7.5YR 4/2), saturated, loose.			Groundwater sample collected from 22 to 26 feet.
			24		SP		
7 GP	83		26				
				SAND mostly fine sand, little medium to coarse sand, pale brown (10YR 6/3), saturated, dense.	SW		
			28	Blind drill to 36.0 feet.			
			30				
			32				Groundwater sample collected from 32 to 36 feet.
			34				
			36	End of boring at 36.0 feet below ground surface.			

SOIL BORING WELL CONSTRUCTION LOG 8070.02.GPJ RMT_CORP.GDT 8070.02 8/28/09

SOIL BORING LOG

RMT

BORING NO. B-19

Facility/Project Name:	Date Drilling Started:	Date Drilling Completed:	Project Number:
Tecumseh Products Company - Phase II Investigation	4/15/09	4/15/09	8070.02

Drilling Firm:	Drilling Method:	Surface Elev. (ft)	TOC Elevation (ft)	Total Depth (ft bgs)	Borehole Dia. (in)
Terraprobe, Inc.	Direct Push	---	---	34.0	2-3

Boring Location:	Personnel	Drilling Equipment:
In ROW on southwest corner of Cummings Street and Maumee Street	Logged By - Scott Middlebrook Driller - Joe Fotjik	Geoprobe

Civil Town/City/or Village:	County:	State:	Water Level Observations:
Tecumseh	Lenawee	MI	While Drilling: Date/Time 4/15/09 00:00 ▽ Depth (ft bgs) 5.5 After Drilling: Date/Time 4/15/09 00:00 Depth (ft bgs) NM

SAMPLE NUMBER AND TYPE	SAMPLE RECOVERY (%)	BLOW COUNTS	DEPTH IN FEET	LITHOLOGIC DESCRIPTION	USCS	GRAPHIC LOG	COMMENTS
				TOPSOIL			
				SILTY CLAY mostly clay, some silt, little coarse sand, few fine sand, trace glass fragments, nonplastic, black (7.5YR 2.5/1), moist, medium stiff, fill.	CL-ML		
1 GP	69		2	**SANDY CLAY** mostly clay, some medium sand, little silt, few fine sand, trace gravel, low plasticity, dark brown (7.5YR 3/2) grades to brownish yellow (10YR 6/8), moist, medium stiff.	CL		
			4				
2 GP	77		6	▽ **SAND** mostly medium sand, some fine sand, trace coarse sand, brownish yellow (10YR 6/8) grading to dark yellowish brown (10YR 4/4), moist to saturated, medium dense.	SP		
			8	**SILT WITH CLAY** mostly silt, some clay, trace medium sand, low plasticity, yellowish brown (10YR 5/6), moist, stiff.	ML		
				SAND mostly medium sand, some fine sand, trace coarse sand, brownish yellow (10YR 6/8) grading to dark yellowish brown (10YR 4/4), saturated, medium dense.	SP		
3 GP	42		10	**SILTY CLAY** medium plasticity, yellowish brown (10YR 5/6), dry, very stiff.	CL-ML		
				SAND mostly coarse sand, some medium sand, few fine sand, trace gravel, yellowish brown (10YR 5/4), moist, dense.			
			12	Change to crushed cobble, saturated at 12.0 feet.	SW		Groundwater sample collected at 12-16 feet.
4 GP	40		14				

SOIL BORING WELL CONSTRUCTION LOG 8070.02.GPJ RMT_CORP.GDT 8070.02 8/28/09

Signature:

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SOIL BORING LOG

RMT

BORING NO. B-19

SAMPLE NUMBER AND TYPE	SAMPLE RECOVERY (%)	BLOW COUNTS	DEPTH IN FEET	LITHOLOGIC DESCRIPTION	USCS	GRAPHIC LOG	COMMENTS
5 GP	100		18	Change to mostly medium sand, some coarse sand, no gravel, dark yellowish brown (10YR 4/4) at 18.5 feet.			
6 GP	45		20				
			22		SW		
			24	Change to trace gravel at 23.0 feet.			
7 GP	92		26				
			28				
			30	**SAND** mostly medium sand, some fine sand, gray (10YR 5/1), saturated, dense.	SP		Groundwater sample collected at 29-33 feet.
8 GP	100		32				
			34	**CLAY** mostly clay, some silt, trace coarse sand, high plasticity, greenish gray (GLEY1 5/1), moist, stiff.	CL		
				End of boring at 34.0 feet below ground surface.			
			36				

SOIL BORING LOG

RMT

BORING NO. B-21

Facility/Project Name:	Date Drilling Started:	Date Drilling Completed:	Project Number:
Tecumseh Products Company - Phase II Investigation	4/15/09	4/15/09	8070.02

Drilling Firm:	Drilling Method:	Surface Elev. (ft)	TOC Elevation (ft)	Total Depth (ft bgs)	Borehole Dia. (in)
Terraprobe, Inc.	Direct Push	---	---	40.0	2

Boring Location: In ROW on northeast side of Mohawk Street between Tecumseh Tire and Logan Properties

Personnel
Logged By - Stacy Metz
Driller - Craig Tanicala

Drilling Equipment: Geoprobe

Civil Town/City/or Village:	County:	State:
Tecumseh	Lenawee	MI

Water Level Observations:
While Drilling: Date/Time 4/15/09 00:00 ▽ Depth (ft bgs) 6
After Drilling: Date/Time 4/15/09 00:00 Depth (ft bgs) NM

SAMPLE NUMBER AND TYPE	SAMPLE RECOVERY (%)	BLOW COUNTS	DEPTH IN FEET	LITHOLOGIC DESCRIPTION	USCS	GRAPHIC LOG	COMMENTS
			0	**TOPSOIL**			
1 GP	52		2	**SAND** mostly fine to coarse sand, little clay, dark brown (7.5YR 3/4), moist to wet, dense.	SW		
				SANDY CLAY mostly clay, some fine to coarse sand, few gravel, plastic, brown (7.5YR 4/3), very soft, grading to stiff at 2.0 feet.	CL		
			4	**SAND** mostly fine to coarse sand, little coarse gravel, dark yellowish brown (10YR 4/6), dense.	SW		
2 GP	75		6	▽ **CLAY** 1-inch seam of high plasticity clay.	CL		Groundwater sample collected at 6-10 feet.
				SAND mostly fine sand, few silt, dark yellowish brown (10YR 3/6), saturated, dense.	SP		
			8	Above grades to mostly fine sand, some medium sand at 7.75 feet. Blind drill to 40.0 feet.			
			10				
			12				Groundwater sample collected at 13-17 feet.
			14				
			16				Dry from 17 to 29 feet.
			18				
			20				

SOIL BORING WELL CONSTRUCTION LOG 8070.02.GPJ RMT_CORP.GDT 8070.02 8/28/09

Signature:

Firm: RMT Inc.
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SOIL BORING LOG

RMT

BORING NO. B-21

SAMPLE NUMBER AND TYPE	SAMPLE RECOVERY (%)	BLOW COUNTS	DEPTH IN FEET	LITHOLOGIC DESCRIPTION	USCS	GRAPHIC LOG	COMMENTS
			22				
			24				
			26				
			28				
			30				Dry from 30 to 34 feet.
			32				Attempted to collect water sample from 32 to 40 feet; little flow, no sample.
			34				
			36				
			38	Drilling change at 38.0 feet indicating likely change to clay.			
			40	End of boring at 40.0 feet below ground surface.			
			42				
			44				
			46				
			48				

SOIL BORING LOG

RMT

BORING NO. B-22

Facility/Project Name:	Date Drilling Started:	Date Drilling Completed:	Project Number:
Tecumseh Products Company - Phase II Investigation	4/14/09	4/14/09	8070.02

Drilling Firm:	Drilling Method:	Surface Elev. (ft)	TOC Elevation (ft)	Total Depth (ft bgs)	Borehole Dia. (in)
Terraprobe, Inc.	Direct Push	---	---	44.0	2

Boring Location: On TPC property, south side of main building, about 400 feet east of Evans Street

Personnel
Logged By - Stacy Metz
Driller - Craig Tanicala

Drilling Equipment: Geoprobe

Civil Town/City/or Village:	County:	State:
Tecumseh	Lenawee	MI

Water Level Observations:
While Drilling: Date/Time 4/14/09 00:00 ▽ Depth (ft bgs) 19
After Drilling: Date/Time 4/14/09 00:00 Depth (ft bgs) NM

SAMPLE NUMBER AND TYPE	SAMPLE RECOVERY (%)	BLOW COUNTS	DEPTH IN FEET	LITHOLOGIC DESCRIPTION	USCS	GRAPHIC LOG	COMMENTS
1 GP	58		2	**GRAVEL FILL** angular fine to coarse gravel with fine to coarse sand, light brown gray.			
				SANDY CLAY mostly clay, some fine to coarse sand, plastic, brown (7.5YR 4/4), moist, very stiff.	CL		
				Gravel layer at 2.5 feet.			
			4	**SAND WITH GRAVEL** mostly fine to coarse sand, little fine gravel, little coarse sand, strong brown (7.5YR 4/6), moist, medium dense.			
2 GP	79			Change to fine to coarse gravel at 4.25 feet.			
			6	Above grades to few coarse sand, yellowish brown (10YR 5/4) at 6.5 feet.			
			8	Change to few fine to coarse gravel at 8.0 feet.			
3 GP	73		10				
					SW		
			12	Change to loose at 12.0 feet.			
4 GP	75		14				
			16	Gravel layer at 15.75 feet.			
5 GP	75		18				Groundwater sample collected at 18-23 feet.
				▽ Saturated at 19.0 feet.			
			20	Blind drill to 44.0 feet.			
			22				

SOIL BORING WELL CONSTRUCTION LOG 8070.02.GPJ RMT_CORP.GDT 8070.02 8/26/09

Signature: Mary Metz

Firm: RMT Inc.
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SOIL BORING LOG

RMT

BORING NO. B-22

SAMPLE NUMBER AND TYPE	SAMPLE RECOVERY (%)	BLOW COUNTS	DEPTH IN FEET	LITHOLOGIC DESCRIPTION	USCS	GRAPHIC LOG	COMMENTS
			24				
			26				
			28				
			30				
			32				
			34				
			36				
			38				
			40				Groundwater sample collected at 40-44 feet.
			42				
				Drilling change at 43.0 feet indicating likely change to clay.			
			44	End of boring at 44.0 feet below ground surface.			
			46				
			48				
			50				
			52				

SOIL BORING LOG

RMT

BORING NO. B-23

Facility/Project Name:	Date Drilling Started:	Date Drilling Completed:	Project Number:
Tecumseh Products Company - Phase II Investigation	4/13/09	4/13/09	8070.02

Drilling Firm:	Drilling Method:	Surface Elev. (ft)	TOC Elevation (ft)	Total Depth (ft bgs)	Borehole Dia. (in)
Terraprobe, Inc.	Direct Push	---	---	39.0	2

Boring Location:	Personnel	Drilling Equipment:
In ROW on north side of Patterson Street about 400 feet west of Maumee Street	Logged By - Scott Middlebrook Driller - Joe Fotjik	Geoprobe

Civil Town/City/or Village:	County:	State:	Water Level Observations:
Tecumseh	Lenawee	MI	While Drilling: Date/Time 4/13/09 00:00 ▽ Depth (ft bgs) 13 After Drilling: Date/Time 4/13/09 00:00 Depth (ft bgs) NM

SAMPLE NUMBER AND TYPE	SAMPLE RECOVERY (%)	BLOW COUNTS	DEPTH IN FEET	LITHOLOGIC DESCRIPTION	USCS	GRAPHIC LOG	COMMENTS
			0	**TOPSOIL**			
1 GP	33		2	**SANDY CLAY** mostly clay, some fine to coarse sand, few fine gravel, low to medium plasticity, dark yellowish brown (10YR 4/6), dry to moist, very stiff.	CL		
2 GP	50		4	**CLAY WITH SAND** mostly clay, few to little fine to coarse sand, high plasticity, dark olive brown (2.5Y 3/3), moist, soft.	CL		
			6	**SAND** mostly fine to coarse sand, few to trace gravel, dark yellowish brown (10YR 4/4), dry, very dense.			
3 GP	65		8				
			10	Change to moist, dense at 10.0 feet.	SW		
			12				
4 GP	69		14	▽ Change to saturated, medium dense at 13.0 feet.			Groundwater sample collected at 14-18 feet. Groundwater sample collected in adjacent utility corridor at 14-16 feet.
			16				

SOIL BORING WELL CONSTRUCTION LOG 8070.02.GPJ RMT_CORP.GDT 8070.02 8/28/09

Signature:

Firm: RMT Inc.
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SOIL BORING LOG

RMT

BORING NO. B-23

SAMPLE NUMBER AND TYPE	SAMPLE RECOVERY (%)	BLOW COUNTS	DEPTH IN FEET	LITHOLOGIC DESCRIPTION	USCS	GRAPHIC LOG	COMMENTS
5 GP	75		18				
			20	Changes to loose at 20.5 feet.	SW		
6 GP	60		22				
			24				
7 GP	53		26	**SAND** mostly medium sand, little fine sand, trace coarse sand, gray (10YR 5/1), saturated, medium dense, cobble at 25.0 feet.	SP		Hard pounding at 27.0 feet.
			28				
8 GP	92		30	**SAND** mostly coarse sand, little medium sand, trace fine sand, dark gray (10YR 4/1), saturated, loose.	SP		Groundwater sample collected at 30-34 feet.
			32				
			34	Medium sand content increases with depth.			
9 GP	100		36	**CLAY** mostly clay, some silt, trace coarse sand, high plasticity, greenish gray (GLEY1 5/1), moist, very stiff.	CL		
			38				
				End of boring at 39.0 feet below ground surface.			

SOIL BORING LOG

RMT

BORING NO. B-24

Facility/Project Name:	Date Drilling Started:	Date Drilling Completed:	Project Number:
Tecumseh Products Company - Phase II Investigation	4/13/09	4/13/09	8070.02

Drilling Firm:	Drilling Method:	Surface Elev. (ft)	TOC Elevation (ft)	Total Depth (ft bgs)	Borehole Dia. (in)
Terraprobe, Inc.	Direct Push	---	---	37.5	2-3

Boring Location:	Personnel	Drilling Equipment:
In ROW east of Maumee Street across from MW-9s about 780 feet south of Mohawk Street	Logged By - Stacy Metz Driller - Craig Tanicala	Geoprobe

Civil Town/City/or Village:	County:	State:	Water Level Observations:
Tecumseh	Lenawee	MI	While Drilling: Date/Time 4/13/09 00:00 ▽ Depth (ft bgs) 6 After Drilling: Date/Time 4/13/09 00:00 Depth (ft bgs) NM

SAMPLE NUMBER AND TYPE	SAMPLE RECOVERY (%)	BLOW COUNTS	DEPTH IN FEET	LITHOLOGIC DESCRIPTION	USCS	GRAPHIC LOG	COMMENTS
			0	**ASPHALT AND SUBBASE**		///	
				SAND	SW		
1 GP	100		2	**SANDY CLAY** mostly clay, little fine sand, plastic, very dark grayish brown (10YR 3/4), moist, stiff to very stiff, orange mottling.			
				4-inch layer of fine sand at 3.25 feet.			
			4	Change to very hard at 4.0 feet.	CL		
							Groundwater sample collected in adjacent utility corridor at 5-7 feet.
			6 ▽	**SAND** mostly fine to coarse sand, trace fine to coarse subrounded gravel, dark yellowish brown (10YR 4/4), saturated, dense.			Groundwater sample collected at 6-10 feet.
2 GP	100		8				
			10	Change to medium dense at 10.0 feet.	SW		
3 GP	50		12				
			14				
			16	Change to dark gray (10YR 4/1), loose to medium dense at 15.5 feet.			

SOIL BORING WELL CONSTRUCTION LOG 8070.02.GPJ RMT_CORP.GDT 8070.02 8/28/09

Signature:

Firm: RMT Inc.
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SOIL BORING LOG

RMT

BORING NO. B-24

SAMPLE NUMBER AND TYPE	SAMPLE RECOVERY (%)	BLOW COUNTS	DEPTH IN FEET	LITHOLOGIC DESCRIPTION	USCS	GRAPHIC LOG	COMMENTS
4 GP	83		18				
			20	Same as above.			Logged based on cutting, tube could not be removed from tooling.
5 GP	0		22				
			24				
				Change to mostly fine to medium sand, trace coarse sand, no gravel at 25.0 feet.	SW		
			26				
6 GP	80		28				Groundwater sample collected at 28-32 feet.
			30	Change to fine to coarse well graded sand with trace gravel at 30.0 feet.			
			32				
7 GP	100						
			34	**CLAY WITH SAND** mostly clay, few fine to coarse sand, slight plasticity, dark gray (10YR 4/1), moist, hard.			
				Change to saturated at 35.0 feet.	CL		
8 GP	100		36				
				End of boring at 37.5 feet below ground surface.			
			38				

SOIL BORING WELL CONSTRUCTION LOG 8070.02.GPJ RMT_CORP.GDT 8070.02 8/28/09

SOIL BORING LOG

RMT

BORING NO. B-26

Facility/Project Name:	Date Drilling Started:	Date Drilling Completed:	Project Number:
Tecumseh Products Company - Phase II Investigation	4/14/09	4/14/09	8070.02

Drilling Firm:	Drilling Method:	Surface Elev. (ft)	TOC Elevation (ft)	Total Depth (ft bgs)	Borehole Dia. (in)
Terraprobe, Inc.	Direct Push	---	---	33.0	2

Boring Location:	Personnel	Drilling Equipment:
In ROW on south side of Cummings Street between Ottawa Street and Maumee Street	Logged By - Scott Middlebrook Driller - Joe Fotjik	Geoprobe

Civil Town/City/or Village:	County:	State:	Water Level Observations:
Tecumseh	Lenawee	MI	While Drilling: Date/Time 4/14/09 00:00 ▽ Depth (ft bgs) 15 After Drilling: Date/Time 4/14/09 00:00 Depth (ft bgs) NM

SAMPLE NUMBER AND TYPE	SAMPLE RECOVERY (%)	BLOW COUNTS	DEPTH IN FEET	LITHOLOGIC DESCRIPTION	USCS	GRAPHIC LOG	COMMENTS
				TOPSOIL			
1 GP	44		2	**SILTY CLAY WITH SAND** mostly clay, some silt, little medium sand, few fine sand, medium plasticity, dark yellowish brown (10YR 4/6), moist, stiff.	CL		
				COBBLE crushed.			
			4	**CLAYEY SAND** mostly coarse sand, some clay, little medium sand, strong brown (7.5YR 4/6), moist, dense.	SP-SC		
2 GP	67		6	**SAND** mostly coarse sand, some medium sand, little fine sand, trace silt, trace gravel, brown (10YR 4/3), dry, medium dense.			
			8		SW		
3 GP	67		10				
			12	**SAND** mostly medium sand, trace coarse sand, trace fine sand, pale brown (10YR 6/3), dry, loose.	SP		
4 GP	65		14	**SAND** mostly coarse sand, some medium sand, little fine sand, trace silt, trace gravel, brown (10YR 5/3), dry to wet, medium dense.	SW		
				▽ Change to mostly medium sand, little fine sand, trace coarse sand, no gravel, brown (10YR 5/3), saturated at 15.0 feet.			

SOIL BORING WELL CONSTRUCTION LOG 8070.02.GPJ RMT_CORP.GDT 8070.02 8/28/09

Signature:	Firm: RMT Inc.	(734) 971-7080
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SOIL BORING LOG

RMT

BORING NO. B-26

SAMPLE NUMBER AND TYPE	SAMPLE RECOVERY (%)	BLOW COUNTS	DEPTH IN FEET	LITHOLOGIC DESCRIPTION	USCS	GRAPHIC LOG	COMMENTS
5 GP	75		18		SW		Groundwater sample collected at 16-20 feet.
			20	Blind drill to 33.0 feet.			
			22				
			24				
			26				
			28				
			30				Groundwater sample collected at 29-33 feet.
			32				
				End of boring at 33.0 feet below ground surface.			
			34				
			36				

SOIL BORING LOG

RMT

BORING NO. B-29

Facility/Project Name:	Date Drilling Started:	Date Drilling Completed:	Project Number:
Tecumseh Products Company - Phase II Investigation	4/13/09	4/13/09	8070.02

Drilling Firm:	Drilling Method:	Surface Elev. (ft)	TOC Elevation (ft)	Total Depth (ft bgs)	Borehole Dia. (in)
Terraprobe, Inc.	Direct Push	---	---	46.0	2

Boring Location:	Personnel	Drilling Equipment:
In ROW on westside of Maumee Street about 1400 feet south of Patterson Street	Logged By - Stacy Metz Driller - Craig Tanicala	Geoprobe

Civil Town/City/or Village:	County:	State:	Water Level Observations:
Tecumseh	Lenawee	MI	While Drilling: Date/Time 4/13/09 00:00 ▽ Depth (ft bgs) 8 After Drilling: Date/Time 4/13/09 00:00 Depth (ft bgs) NM

SAMPLE NUMBER AND TYPE	SAMPLE RECOVERY (%)	BLOW COUNTS	DEPTH IN FEET	LITHOLOGIC DESCRIPTION	USCS	GRAPHIC LOG	COMMENTS
			0	**TOPSOIL**			
1 GP	75			**SANDY CLAY** mostly clay, some fine to medium sand, few gravel, slight plasticity, very dark grayish brown (10YR 3/2), moist, stiff.	CL		
			2	Change to very dark brown (10YR 2/2).			
				SAND WITH CLAY mostly fine to medium sand, little clay, yellowish brown (10YR 5/4), moist, medium dense.	SW-SC		
2 GP	83		4	**SANDY CLAY** mostly fine to medium sand, little clay, high plasticity, brown (10YR 5/3), wet, very stiff to stiff.	SW-SC		
				SAND fine to coarse sand, brown (10YR 5/3), saturated, dense.	SW		
			6	**CLAY WITH SAND** mostly clay, little fine to medium sand, slight plasticity, dark grayish brown (10YR 4/2), moist, very stiff.	CL		
			8 ▽	**SAND** fine to coarse sand, trace to few coarse gravel, dark yellowish brown (10YR 4/6), saturated, dense.	SW		Groundwater sample collected at 8-12 feet.
			10				
			12	Blind drill to 46.0 feet.			
			14				

SOIL BORING WELL CONSTRUCTION LOG 8070.02.GPJ RMT_CORP.GDT 8070.02 8/28/09

Signature: Mary Metz

Firm: RMT Inc.
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SOIL BORING LOG

RMT

BORING NO. B-29

SAMPLE NUMBER AND TYPE	SAMPLE RECOVERY (%)	BLOW COUNTS	DEPTH IN FEET	LITHOLOGIC DESCRIPTION	USCS	GRAPHIC LOG	COMMENTS
				Blind drill to 46.0 feet.			
			18				
			20				
			22				
			24				
			26				
			28				
			30				
			32				
			34				
			36				

SOIL BORING LOG

RMT

BORING NO. B-29

SAMPLE NUMBER AND TYPE	SAMPLE RECOVERY (%)	BLOW COUNTS	DEPTH IN FEET	LITHOLOGIC DESCRIPTION	USCS	GRAPHIC LOG	COMMENTS
			38				Groundwater sample collected at 38-42 feet.
			40				
			42				Dry from 42 to 46 feet.
			44				
			46	Drilling change at 46.0 feet indicating likely change to clay. End of boring at 46.0 feet below ground surface.			
			48				
			50				
			52				
			54				
			56				
			58				

SOIL BORING LOG

RMT

BORING NO. B-30

Facility/Project Name:	Date Drilling Started:	Date Drilling Completed:	Project Number:
Tecumseh Products Company - Phase II Investigation	4/14/09	4/14/09	8070.02

Drilling Firm:	Drilling Method:	Surface Elev. (ft)	TOC Elevation (ft)	Total Depth (ft bgs)	Borehole Dia. (in)
Terraprobe, Inc.	Direct Push	---	---	44.0	2

Boring Location:	Personnel	Drilling Equipment:
East of Maumee Street across from B-4, about 380 feet south of Mohawk Street	Logged By - Stacy Metz Driller - Craig Tanicala	Geoprobe

Civil Town/City/or Village:	County:	State:	Water Level Observations:
Tecumseh	Lenawee	MI	While Drilling: Date/Time 4/14/09 00:00 ▽ Depth (ft bgs) 6.5 After Drilling: Date/Time 4/14/09 00:00 Depth (ft bgs) NM

SAMPLE NUMBER AND TYPE	SAMPLE RECOVERY (%)	BLOW COUNTS	DEPTH IN FEET	LITHOLOGIC DESCRIPTION	USCS	GRAPHIC LOG	COMMENTS
			0	**ASPHALT AND SUBBASE**			
1 GP	79		2	**CLAY** mostly clay, few fine to medium sand, plastic, olive brown (2.5Y 4/3), moist, hard.	CL		
			4	**SAND** mostly fine sand, few clay, dark yellowish brown (10YR 4/6), wet, dense.	SP		
				GRAVEL medium gravel to cobbles, white (10YR 8/1), dry, hard.	GW		
2 GP	75		6 ▽	**SAND WITH GRAVEL** mostly fine to coarse sand, little gravel, dark yellowish brown (10YR 4/4), wet to saturated, dense. Change to mostly fine to medium sand, little coarse sand.	SW		Groundwater sample collected at 6-11 feet.
			8	Blind drill to 44.0 feet.			
			10				
			12				
			14				

SOIL BORING WELL CONSTRUCTION LOG 8070.02.GPJ RMT_CORP.GDT 8070.02 8/28/09

Signature:

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SOIL BORING LOG

RMT

BORING NO. B-30

SAMPLE NUMBER AND TYPE	SAMPLE RECOVERY (%)	BLOW COUNTS	DEPTH IN FEET	LITHOLOGIC DESCRIPTION	USCS	GRAPHIC LOG	COMMENTS
				Blind drill to 44.0 feet.			
			18				
			20				
			22				
			24				
			26				
			28				
			30				Groundwater sample collected at 30-34 feet.
			32				
			34				
			36				Dry from 36-44 feet.

SOIL BORING LOG

RMT

BORING NO. B-30

SAMPLE NUMBER AND TYPE	SAMPLE RECOVERY (%)	BLOW COUNTS	DEPTH IN FEET	LITHOLOGIC DESCRIPTION	USCS	GRAPHIC LOG	COMMENTS
			38				
			40				
			42				
			44	End of boring at 44.0 feet below ground surface.			
			46				
			48				
			50				
			52				
			54				
			56				
			58				

SOIL BORING LOG

RMT

BORING NO. B-31

Facility/Project Name:	Date Drilling Started:	Date Drilling Completed:	Project Number:
Tecumseh Products Company - Phase II Investigation	4/13/09	4/13/09	8070.02

Drilling Firm:	Drilling Method:	Surface Elev. (ft)	TOC Elevation (ft)	Total Depth (ft bgs)	Borehole Dia. (in)
Terraprobe, Inc.	Direct Push	---	---	12.0	2

Boring Location:	Personnel	Drilling Equipment:
East of Maumee Street, near Patterson Street	Logged By - Scott Middlebrook Driller - Joe Fotjik	Geoprobe

Civil Town/City/or Village:	County:	State:	Water Level Observations:
Tecumseh	Lenawee	MI	While Drilling: Date/Time 4/13/09 00:00 ▽ Depth (ft bgs) 7.5 After Drilling: Date/Time 4/13/09 00:00 Depth (ft bgs) NM

SAMPLE NUMBER AND TYPE	SAMPLE RECOVERY (%)	BLOW COUNTS	DEPTH IN FEET	LITHOLOGIC DESCRIPTION	USCS	GRAPHIC LOG	COMMENTS
			0	**TOPSOIL**			
1 GP	60		2	**SILTY CLAY WITH SAND** mostly clay, some silt, little coarse sand, few medium sand, nonplastic, yellowish brown (10YR 5/8), moist, stiff. Sand content decreases with depth. Change to very stiff, dry at 3.5 feet.	CL-ML		
2 GP	100		4	**SILTY CLAY** mostly clay, some silt, nonplastic, brown (7.5Y 5/3), dry, very stiff.	CL-ML		
			6	▽			
			8	**SAND** mostly medium sand, few fine sand, grayish brown (10YR 5/2), wet to saturated, loose to dense.	SP		
3 GP	88		10	**SILTY CLAY WITH SAND** mostly clay, some silt, little medium sand, few fine sand, high plasticity, dark grayish brown (10YR 4/2), moist, medium dense.	CL-ML		
				SAND mostly coarse sand, some medium sand, few fine sand, dark grayish brown (10YR 4/2), saturated, loose.	SW		Groundwater sample collected at 10-14 feet.
			12	Blind drill to 29.0 feet.			
			14				

SOIL BORING WELL CONSTRUCTION LOG 8070.02.GPJ RMT_CORP.GDT 8070.02 8/26/09

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SOIL BORING LOG

RMT

BORING NO. B-31

SAMPLE NUMBER AND TYPE	SAMPLE RECOVERY (%)	BLOW COUNTS	DEPTH IN FEET	LITHOLOGIC DESCRIPTION	USCS	GRAPHIC LOG	COMMENTS
			18				
			20				
			22				
			24				Groundwater sample collected at 25-29 feet.
			26				
			28				
				End of boring at 29.0 feet below ground surface.			
			30				
			32				
			34				
			36				

SOIL BORING LOG

RMT

BORING NO. B-32

Facility/Project Name:	Date Drilling Started:	Date Drilling Completed:	Project Number:
Tecumseh Products Company - Phase II Investigation	4/14/09	4/14/09	8070.02

Drilling Firm:	Drilling Method:	Surface Elev. (ft)	TOC Elevation (ft)	Total Depth (ft bgs)	Borehole Dia. (in)
Terraprobe, Inc.	Direct Push	---	---	12.0	2

Boring Location:	Personnel	Drilling Equipment:
In ROW on northwest corner of Patterson Street and Maumee Street	Logged By - Scott Middlebrook Driller - Joe Fotjik	Geoprobe

Civil Town/City/or Village:	County:	State:	Water Level Observations:
Tecumseh	Lenawee	MI	While Drilling: Date/Time 4/14/09 00:00 ▽ Depth (ft bgs) 8 After Drilling: Date/Time 4/14/09 00:00 Depth (ft bgs) NM

SAMPLE NUMBER AND TYPE	SAMPLE RECOVERY (%)	BLOW COUNTS	DEPTH IN FEET	LITHOLOGIC DESCRIPTION	USCS	GRAPHIC LOG	COMMENTS
				TOPSOIL			
1 GP	52		2	**SILTY CLAY WITH SAND** mostly clay, some silt, little coarse sand, few medium sand, low to medium plasticity, dark gray (7.5YR 4/1) grading to very pale brown (10YR 7/4), moist, medium dense.	CL-ML		
			4	Medium sand content increases with depth.			
				SAND mostly medium sand, trace fine sand, yellowish brown (10YR 5/4), moist, loose.	SP		
2 GP	67		6	**SILTY CLAY** mostly clay, some silt, trace medium sand, high plasticity, dark yellowish brown (10YR 4/4), moist, very stiff.	CL-ML		
				SAND mostly coarse sand, some medium sand, little fine sand, trace gravel, pale brown (10YR 6/3), dry to moist, medium dense.			
			8 ▽	Change to saturated at 8.0 feet. Gravel content decreases with depth.	SW		Groundwater sample collected in adjacent utility corridor at 8.5-10.5 feet.
3 GP	71		10				Groundwater sample collected at 10-14 feet.
			12	Blind drill to 29.0 feet.			
			14				

SOIL BORING WELL CONSTRUCTION LOG 8070.02.GPJ RMT_CORP.GDT 8070.02 8/26/09

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SOIL BORING LOG

RMT

BORING NO. B-32

SAMPLE NUMBER AND TYPE	SAMPLE RECOVERY (%)	BLOW COUNTS	DEPTH IN FEET	LITHOLOGIC DESCRIPTION	USCS	GRAPHIC LOG	COMMENTS
			18				
			20				
			22				
			24				
			26				Groundwater sample collected at 25-29 feet.
			28				
				End of boring at 29.0 feet below ground surface.			
			30				
			32				
			34				
			36				

SOIL BORING LOG

RMT

BORING NO. B-33

Facility/Project Name:	Date Drilling Started:	Date Drilling Completed:	Project Number:
Tecumseh Products Company - Phase II Investigation	4/15/09	4/15/09	8070.02

Drilling Firm:	Drilling Method:	Surface Elev. (ft)	TOC Elevation (ft)	Total Depth (ft bgs)	Borehole Dia. (in)
Terraprobe, Inc.	Direct Push	---	---	27.0	2

Boring Location:	Personnel	Drilling Equipment:
In ROW on westside of Maummee Street, about 300 feet north of Russell Road	Logged By - Stacy Metz Driller - Craig Tanicala	Geoprobe

Civil Town/City/or Village:	County:	State:	Water Level Observations:
Tecumseh	Lenawee	MI	While Drilling: Date/Time 4/15/09 00:00 ▽ Depth (ft bgs) 4 After Drilling: Date/Time 4/15/09 00:00 ▼ Depth (ft bgs) 1

SAMPLE NUMBER AND TYPE	SAMPLE RECOVERY (%)	BLOW COUNTS	DEPTH IN FEET	LITHOLOGIC DESCRIPTION	USCS	GRAPHIC LOG	COMMENTS
			0	**TOPSOIL** wet to saturated.			
1 GP	63		2	**SANDY CLAY** mostly clay, some fine to medium sand, high plasticity, dark brown (10YR 3/3), wet, very soft.	CL		
			4	▽ **SAND** mostly fine to coarse sand, brown (10YR 4/3), saturated, loose to medium dense.	SW		Water first observed at 4.0 feet, water rose to 1 foot within minutes. Groundwater sample collected at 4-8 feet.
2 GP	77		6	**CLAY** mostly clay, little fine to coarse sand, slight plasticity, grayish brown (10YR 5/2), moist, hard, interbedded with sand.	CL		
				GRAVELLY SAND mostly fine to coarse sand, some fine to coarse gravel, brown (10YR 4/3), saturated, loose.	SW		
			8	Blind drill to 27.0 feet.			
			10				
			12				
			14				

SOIL BORING WELL CONSTRUCTION LOG 8070.02.GPJ RMT_CORP.GDT 8070.02 8/26/09

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SOIL BORING LOG

RMT

BORING NO. B-33

SAMPLE NUMBER AND TYPE	SAMPLE RECOVERY (%)	BLOW COUNTS	DEPTH IN FEET	LITHOLOGIC DESCRIPTION	USCS	GRAPHIC LOG	COMMENTS
			18				Groundwater sample collected at 17-21 feet.
			20				
			22				Dry from 21 to 27 feet.
			24				
			26	Drilling change at 27.0 feet indicating likely change to clay.			
				End of boring at 27.0 feet below ground surface.			
			28				
			30				
			32				
			34				
			36				

SOIL BORING LOG

RMT

BORING NO. B-34

Facility/Project Name:	Date Drilling Started:	Date Drilling Completed:	Project Number:
Tecumseh Products Company - Phase II Investigation	4/20/09	4/20/09	8070.02

Drilling Firm:	Drilling Method:	Surface Elev. (ft)	TOC Elevation (ft)	Total Depth (ft bgs)	Borehole Dia. (in)
Terraprobe, Inc.	Direct Push	---	---	45.0	2

Boring Location:	Personnel	Drilling Equipment:
In ROW on north side of Kilbuck Street between Oneida Street and Maumee Street	Logged By - Scott Middlebrook Driller - Steve Bischoff	Geoprobe

Civil Town/City/or Village:	County:	State:	Water Level Observations:
Tecumseh	Lenawee	MI	While Drilling: Date/Time 4/20/09 00:00 ▽ Depth (ft bgs) 12.5 After Drilling: Date/Time 4/20/09 00:00 Depth (ft bgs) NM

SAMPLE NUMBER AND TYPE	SAMPLE RECOVERY (%)	BLOW COUNTS	DEPTH IN FEET	LITHOLOGIC DESCRIPTION	USCS	GRAPHIC LOG	COMMENTS
			0	**TOPSOIL**			
1 GP	44		2	**SILTY CLAY** mostly clay, some silt, few coarse sand, medium plasticity, yellowish brown (10YR 5/6), moist, stiff to very stiff.	CL-ML		
2 GP	54		4				
			6	Change to some coarse sand, little medium sand, non-plastic, strong brown (7.5 YR 5/8), soft.			
			8	**SAND WITH CLAY** mostly coarse sand, some medium sand, little clay, trace gravel, trace silt, brown (7.5YR 4/2), moist, medium dense.	SP-SC		
3 GP	65		10	**SAND** mostly medium sand, some coarse sand, little fine sand, trace gravel, pale brown (10YR 6/3), dry, medium dense.	SW		
4 GP			12	▽ Change to trace silt, saturated at 12.0 feet. Coarse sand content increases with depth.			
			14				Groundwater sample collected at 14-18 feet.
			16	Blind drill to 45.0 feet.			

SOIL BORING WELL CONSTRUCTION LOG 8070.02.GPJ RMT_CORP.GDT 8070.02 8/28/09

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SOIL BORING LOG

RMT

BORING NO. B-34

SAMPLE NUMBER AND TYPE	SAMPLE RECOVERY (%)	BLOW COUNTS	DEPTH IN FEET	LITHOLOGIC DESCRIPTION	USCS	GRAPHIC LOG	COMMENTS
			18	Blind drill to 45.0 feet.			
			20				
			22				
			24				
			26				
			28				
			30				
			32				
			34				
			36				
			38				

SOIL BORING LOG

RMT

BORING NO. B-34

SAMPLE NUMBER AND TYPE	SAMPLE RECOVERY (%)	BLOW COUNTS	DEPTH IN FEET	LITHOLOGIC DESCRIPTION	USCS	GRAPHIC LOG	COMMENTS
			40				Groundwater sample collected at 41-45 feet.
			42				
			44				
				End of boring at 45.0 feet below ground surface.			
			46				
			48				
			50				
			52				
			54				
			56				
			58				
			60				

SOIL BORING LOG

RMT

BORING NO. B-35

Facility/Project Name:	Date Drilling Started:	Date Drilling Completed:	Project Number:
Tecumseh Products Company - Phase II Investigation	4/20/09	4/20/09	8070.02

Drilling Firm:	Drilling Method:	Surface Elev. (ft)	TOC Elevation (ft)	Total Depth (ft bgs)	Borehole Dia. (in)
Terraprobe, Inc.	Direct Push	---	---	34.0	2

Boring Location: In ROW on northeast corner of Kilbuck Street and Maumee Street

Personnel
Logged By - Stacy Metz
Driller - Craig Tanicala

Drilling Equipment: Geoprobe

Civil Town/City/or Village:	County:	State:
Tecumseh	Lenawee	MI

Water Level Observations:
While Drilling: Date/Time 4/20/09 00:00 ▽ Depth (ft bgs) 5
After Drilling: Date/Time 4/20/09 00:00 Depth (ft bgs) NM

SAMPLE NUMBER AND TYPE	SAMPLE RECOVERY (%)	BLOW COUNTS	DEPTH IN FEET	LITHOLOGIC DESCRIPTION	USCS	GRAPHIC LOG	COMMENTS
			0	**TOPSOIL**			
				SAND mostly fine sand, little medium sand, trace coarse sand, dark yellowish brown (10YR 4/6), moist to wet, loose.	SP		
1 GP	42		2	**SANDY CLAY** mostly clay, some fine to coarse sand, slight plasticity, very dark brown (7.5YR 2.5/3), moist to wet, stiff.	CL		
			4	**SAND** mostly fine sand, little medium sand, trace coarse sand, dark yellowish brown (10YR 4/6), moist to wet, loose.	SP		
				SANDY CLAY mostly clay, some fine to coarse sand, plastic, ▽ yellowish brown (10YR 5/4), moist to wet, stiff.	CL		
2 GP	83			**SAND** mostly fine sand, little medium sand, trace coarse sand, dark yellowish brown (10YR 4/6), saturated, loose.	SP		Groundwater sample collected at 5-9 feet. DUP-07
			6	3-inch thick clay layer at 6.0 feet.			
				CLAY mostly clay, plastic, dark gray (10YR 4/1), wet, medium stiff, interbedded with sand.	CL		
			8	Blind drill to 34.0 feet.			
			10				
			12				
			14				

SOIL BORING WELL CONSTRUCTION LOG 8070.02.GPJ RMT_CORP.GDT 8070.02 8/28/09

Signature:

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SOIL BORING LOG

RMT

BORING NO. B-35

SAMPLE NUMBER AND TYPE	SAMPLE RECOVERY (%)	BLOW COUNTS	DEPTH IN FEET	LITHOLOGIC DESCRIPTION	USCS	GRAPHIC LOG	COMMENTS
			18				
			20				
			22				
			24				
			26				
			28				
			30				Groundwater sample collected at 30-34 feet.
			32				
			34	Drilling change at 34.0 feet indicating likely change to clay. End of boring at 34.0 feet below ground surface.			
			36				

SOIL BORING LOG

RMT

BORING NO. B-36

Facility/Project Name:	Date Drilling Started:	Date Drilling Completed:	Project Number:
Tecumseh Products Company - Phase II Investigation	5/13/09	5/13/09	8070.02

Drilling Firm:	Drilling Method:	Surface Elev. (ft)	TOC Elevation (ft)	Total Depth (ft bgs)	Borehole Dia. (in)
Terraprobe, Inc.	Direct Push	---	---	25.0	2-3

Boring Location:	Personnel	Drilling Equipment:
In ROW on northwest corner of Kilbuck Street and Wyandotte Street	Logged By - Stacy Metz Driller - Joe Fotjik and Steve Bischoff	Geoprobe

Civil Town/City/or Village:	County:	State:	Water Level Observations:
Tecumseh	Lenawee	MI	While Drilling: Date/Time 5/13/09 00:00 ▽ Depth (ft bgs) 12 After Drilling: Date/Time 5/13/09 00:00 Depth (ft bgs) NM

SAMPLE NUMBER AND TYPE	SAMPLE RECOVERY (%)	BLOW COUNTS	DEPTH IN FEET	LITHOLOGIC DESCRIPTION	USCS	GRAPHIC LOG	COMMENTS
			0	**TOPSOIL**			
1 GP	67		2	**SANDY CLAY** mostly clay, some fine to coarse sand, few fine gravel, low plasticity, dark yellowish brown (10YR 4/4), dry to moist, very stiff.	CL		
				SAND mostly fine to coarse sand, few fine gravel, dark yellowish brown (10YR 4/4), moist, dense.	SW		
			4	**SANDY CLAY** mostly clay, some fine to coarse sand, non-plastic to low plasticity, gray (10YR 5/1), dry, hard, orange mottling.	CL		
2 GP	88			**SAND** mostly fine to coarse sand, few fine gravel, dark yellowish brown (10YR 4/4), moist to wet, dense.	SW		
			6	**CLAY** mostly clay, few silt, trace fine sand, plastic, very dark gray (10YR 3/1), moist to wet, very stiff.			
			8	Same as above.	CL		
3 GP	92		10	Change to little fine sand at 10.0 feet.			
				SAND mostly medium sand, little fine sand, little coarse sand, dark gray (10YR 3/1), wet, loose to medium dense.			
			12	▽ Change to saturated at 12.0 feet.			Groundwater sample collected at 12-16 feet.
4 GP	100		14		SW		

SOIL BORING WELL CONSTRUCTION LOG 8070.02.GPJ RMT_CORP.GDT 8070.02 8/26/09

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SOIL BORING LOG

RMT

BORING NO. B-36

SAMPLE NUMBER AND TYPE	SAMPLE RECOVERY (%)	BLOW COUNTS	DEPTH IN FEET	LITHOLOGIC DESCRIPTION	USCS	GRAPHIC LOG	COMMENTS
				Change to mostly coarse sand, some medium sand at 16.0 feet.	SW		Groundwater sample collected at 16-20 feet.
5 GP	83		18	**GRAVEL WITH SAND** mostly fine to coarse sub-rounded gravel, little coarse sand, few fine to medium sand, dark gray (10YR 3/1), saturated, dense.	GW		
				SAND mostly medium sand, little fine sand, little coarse sand, dark gray (10YR 3/1), saturated, loose to medium dense.	SW		
			20	**CLAY** mostly clay, little silt, trace coarse sand, high plasticity, dark gray (10YR 3/1), wet, medium stiff to stiff.			
6 GP	100		22		CL		
			24				
				End of boring at 25.0 feet below ground surface.			
			26				
			28				
			30				
			32				
			34				
			36				

SOIL BORING LOG

RMT

BORING NO. B-38

Facility/Project Name:	Date Drilling Started:	Date Drilling Completed:	Project Number:
Tecumseh Products Company - Phase II Investigation	5/13/09	5/13/09	8070.02

Drilling Firm:	Drilling Method:	Surface Elev. (ft)	TOC Elevation (ft)	Total Depth (ft bgs)	Borehole Dia. (in)
Terraprobe, Inc.	Direct Push	---	---	42.0	2-3

Boring Location:	Personnel	Drilling Equipment:
In ROW on northeast corner of Potawatamee Street and Wyandotte Street	Logged By - Stacy Metz Driller - Joe Fotjik and Steve Bischoff	Geoprobe

Civil Town/City/or Village:	County:	State:	Water Level Observations:
Tecumseh	Lenawee	MI	While Drilling: Date/Time 5/13/09 00:00 ▽ Depth (ft bgs) 16 After Drilling: Date/Time 5/13/09 00:00 Depth (ft bgs) NM

SAMPLE NUMBER AND TYPE	SAMPLE RECOVERY (%)	BLOW COUNTS	DEPTH IN FEET	LITHOLOGIC DESCRIPTION	USCS	GRAPHIC LOG	COMMENTS
			0	**TOPSOIL**			
1 GP	63		2	**SANDY CLAY WITH GRAVEL** mostly clay, some fine to coarse sand, little gravel, slight plasticity, dark yellowish brown (10YR 4/6), moist, stiff.	CL		
			4	**SAND** mostly fine to coarse sand, dark yellowish brown (10YR 4/6), dry to moist, very dense.	SW		
				SANDY CLAY mostly clay, some fine to coarse sand, slight plasticity, light gray (10YR 7/2), dry to moist, stiff, orange mottling.	CL		
2 GP	83		6	**SAND** mostly fine sand, yellowish brown (10YR 5/6), wet, dense.	SP		
				SAND mostly fine to coarse sand, dark yellowish brown (10YR 4/6), wet, very dense.	SW		
				SILTY CLAY mostly clay, some silt, slight plasticity, dark yellowish brown (10YR 4/6), moist, very stiff.	CL-ML		
3 GP	75		8	**SILTY CLAY** mostly clay, some silt, plastic, dark gray (10YR 4/1), moist, very stiff.	CL-ML		
			10				
				SAND mostly fine sand, little medium sand, brown (10YR 5/3), moist, dense to very dense.	SP		
4 GP	71		12				
			14	▽			Groundwater sample collected at 15-19 feet.

SOIL BORING WELL CONSTRUCTION LOG 8070.02.GPJ RMT_CORP.GDT 8070.02 8/26/09

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SOIL BORING LOG

RMT

BORING NO. B-38

SAMPLE NUMBER AND TYPE	SAMPLE RECOVERY (%)	BLOW COUNTS	DEPTH IN FEET	LITHOLOGIC DESCRIPTION	USCS	GRAPHIC LOG	COMMENTS
				SAND mostly fine to coarse sand, dark brown (10YR 4/3), saturated, dense.	SW		
5 GP	96		18	**SILTY CLAY** mostly clay, some silt, plastic to high plasticity, dark gray (10YR 4/1), moist to wet, stiff.	CL-ML		
6 GP	77		20	**GRAVEL WITH SAND** mostly fine to coarse sub-rounded gravel, some fine to coarse sand, very dark gray (10YR 3/1), saturated, dense.	GW		
			22				
			24				
7 GP	67		26	**SAND** mostly fine sand, some medium sand, dark gray (10YR 4/1), saturated, dense.	SP		
			28				
8 GP	96		30				
			32	**SAND** mostly fine to coarse sand, few gravel, very dark gray (10YR 3/1), saturated, dense. No recovery from 32.0 to 38.0 feet. Sand in shoe is same as above.			
9 GP	0		34		SW		
			36				Groundwater sample collected at 36-40 feet.

SOIL BORING LOG

RMT

BORING NO. B-38

SAMPLE NUMBER AND TYPE	SAMPLE RECOVERY (%)	BLOW COUNTS	DEPTH IN FEET	LITHOLOGIC DESCRIPTION	USCS	GRAPHIC LOG	COMMENTS
10 GP	100		38	Same as above. Change to some gravel at 38.0 feet.	SW		
			40	**CLAY** mostly clay, few silt, trace sand, plastic to high plasticity, dark gray (10YR 4/1), wet, stiff to very stiff.	CL		
				SAND mostly fine to coarse sand, few gravel, very dark gray (10YR 3/1), saturated, dense.	SW		
			42	End of boring at 42.0 feet below ground surface.			
			44				
			46				
			48				
			50				
			52				
			54				
			56				
			58				

SOIL BORING LOG

RMT

BORING NO. B-39

Facility/Project Name:	Date Drilling Started:	Date Drilling Completed:	Project Number:
Tecumseh Products Company - Phase II Investigation	5/13/09	5/13/09	8070.02

Drilling Firm:	Drilling Method:	Surface Elev. (ft)	TOC Elevation (ft)	Total Depth (ft bgs)	Borehole Dia. (in)
Terraprobe, Inc.	Direct Push	---	---	24.0	2

Boring Location:	Personnel	Drilling Equipment:
East corner of Potawatamee Street and Division Street, 8 feet north of south edge of Potawatamee Street, 2 feet east of edge	Logged By - Stacy Metz Driller - Joe Fotjik and Steve Bischoff	Geoprobe

Civil Town/City/or Village:	County:	State:	Water Level Observations:
Tecumseh	Lenawee	MI	While Drilling: Date/Time 5/13/09 00:00 ▽ Depth (ft bgs) 16 After Drilling: Date/Time 5/13/09 00:00 Depth (ft bgs) NM

SAMPLE NUMBER AND TYPE	SAMPLE RECOVERY (%)	BLOW COUNTS	DEPTH IN FEET	LITHOLOGIC DESCRIPTION	USCS	GRAPHIC LOG	COMMENTS
				TOPSOIL			
1 GP	44		2	**SANDY CLAY WITH GRAVEL** mostly clay, some sand, few gravel, plastic, dark yellowish brown (10YR 4/4), moist, stiff.	SC-SM		
			4	**SAND WITH GRAVEL** mostly fine to coarse sand, few fine to coarse gravel, dark yellowish brown (10YR 3/6), moist, medium dense.	SW		
2 GP	81			**SANDY CLAY** mostly clay, little sand, trace gravel, plastic, yellowish brown (10YR 5/4), moist, stiff to very stiff.	CL		
			6	**SAND WITH GRAVEL** mostly fine to coarse sand, few fine to coarse gravel, dark yellowish brown (10YR 3/6), wet, medium dense.	SW		
				SANDY CLAY mostly clay, little sand, trace gravel, plastic, yellowish brown (10YR 5/4), moist, stiff to very stiff.	CL		
			8	**CLAY** mostly clay, little silt, plastic, dark grayish brown (10YR 4/2), moist, medium stiff to stiff.	CL		
3 GP	69		10				
				SAND mostly fine sand, very dark grayish brown (10YR 3/2), moist, medium dense.	SP		
			12				
4 GP	75		14	Change to yellowish brown (10YR 5/4) at 14.0 feet.			
				Change to mostly fine to medium sand at 15.0 feet.			Groundwater sample collected at 15-19 feet.
			▽				

SOIL BORING WELL CONSTRUCTION LOG 8070.02.GPJ RMT_CORP.GDT 8070.02 8/26/09

Signature:

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SOIL BORING LOG

RMT

BORING NO. B-39

SAMPLE NUMBER AND TYPE	SAMPLE RECOVERY (%)	BLOW COUNTS	DEPTH IN FEET	LITHOLOGIC DESCRIPTION	USCS	GRAPHIC LOG	COMMENTS
5 GP	88		18	**SAND** fine to coarse sand, dark yellowish brown (10YR 3/4), saturated, dense.	SW		
				SILTY CLAY mostly clay, some silt, plastic, dark gray (10YR 4/1), wet to saturated, stiff.			
			20	Change to medium stiff at 20.0 feet.			
6 GP	42		22		CL-ML		
			24	End of boring at 24.0 feet below ground surface.			
			26				
			28				
			30				
			32				
			34				
			36				

SOIL BORING LOG

RMT

BORING NO. B-40

Facility/Project Name:	Date Drilling Started:	Date Drilling Completed:	Project Number:
Tecumseh Products Company - Phase II Investigation	5/15/09	5/15/09	8070.02

Drilling Firm:	Drilling Method:	Surface Elev. (ft)	TOC Elevation (ft)	Total Depth (ft bgs)	Borehole Dia. (in)
Terraprobe, Inc.	Direct Push	---	---	46.0	2

Boring Location:	Personnel	Drilling Equipment:
Two feet west of edge of Wyandotte Street, 57 feet south of edge of Chicago Blvd	Logged By - Brent Ritchie Driller - Joe Fotjik	Geoprobe

Civil Town/City/or Village:	County:	State:	Water Level Observations:
Tecumseh	Lenawee	MI	While Drilling: Date/Time 5/15/09 00:00 ▽ Depth (ft bgs) 5.5 After Drilling: Date/Time 5/15/09 00:00 Depth (ft bgs) NM

SAMPLE NUMBER AND TYPE	SAMPLE RECOVERY (%)	BLOW COUNTS	DEPTH IN FEET	LITHOLOGIC DESCRIPTION	USCS	GRAPHIC LOG	COMMENTS
			0	**TOPSOIL**			
1 GP	50		2	**SILTY CLAYEY SAND** mostly fine to coarse sand, little to some silt and clay, few fine to coarse gravel, dark yellowish brown (10YR 3/4), moist, medium dense.	SC-SM		
			4	**GRAVELLY SAND** mostly fine to coarse sand, some fine to medium gravel, few silt, few clay, yellowish brown (10YR 5/6), moist, loose to medium dense.	SW		
2 GP	75		6	▽ Change to saturated at 5.5 feet. **CLAYEY SILT** mostly silt, some clay, trace fine sand, plastic, yellowish brown (10YR 5/4), damp to moist, stiff. Change to gray (10YR 5/1) at 7.0 feet.	ML		
3 GP	75		8	**SILTY CLAY** mostly clay, some silt, high plasticity, gray (10YR 5/1), moist, soft.	CL-ML		
			10				
			12	**SAND** mostly fine sand, few silt, light yellowish brown (10YR 6/4), damp to moist, medium dense.	SP		
4 GP	60		14	**SAND** mostly fine to coarse sand, trace silt, trace clay, pale brown (10YR 6/3), moist, medium dense to dense. Change to brownish yellow (10YR 6/8) at 13.0 feet. Change to pale brown (10YR 6/3) at 13.5 feet.	SW		

SOIL BORING WELL CONSTRUCTION LOG 8070.02.GPJ RMT_CORP.GDT 8070.02 8/28/09

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SOIL BORING LOG

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BORING NO. B-40

SAMPLE NUMBER AND TYPE	SAMPLE RECOVERY (%)	BLOW COUNTS	DEPTH IN FEET	LITHOLOGIC DESCRIPTION	USCS	GRAPHIC LOG	COMMENTS
5 GP	40		18	**GRAVELLY SAND** mostly medium to coarse sand, some fine to medium gravel, little fine sand, trace silt and clay, yellowish brown (10YR 5/4), saturated, loose. Change to no clay at 17.0 feet.	SW		Groundwater sample collected at 16-20 feet.
			20	Blind drill to 46.0 feet.			
			22				
			24				
			26				
			28				
			30				
			32				
			34				
			36				

SOIL BORING LOG

RMT

BORING NO. B-40

SAMPLE NUMBER AND TYPE	SAMPLE RECOVERY (%)	BLOW COUNTS	DEPTH IN FEET	LITHOLOGIC DESCRIPTION	USCS	GRAPHIC LOG	COMMENTS
			38				
			40				
			42				Groundwater sample collected at 42- 46 feet.
			44				
			46	Drilling change at 46.0 feet indicating likely change to clay. End of boring at 46.0 feet below ground surface.			
			48				
			50				
			52				
			54				
			56				
			58				

SOIL BORING LOG

RMT

BORING NO. B-43

Facility/Project Name:	Date Drilling Started:	Date Drilling Completed:	Project Number:
Tecumseh Products Company - Phase II Investigation	7/23/09	7/23/09	8070.02

Drilling Firm:	Drilling Method:	Surface Elev. (ft)	TOC Elevation (ft)	Total Depth (ft bgs)	Borehole Dia. (in)
Terraprobe, Inc.	Direct Push	---	---	32.0	2

Boring Location:	Personnel	Drilling Equipment:
On Birchfield property along ridge line, about 1500 feet east of north corner of tire shop	Logged By - Brent Ritchie Driller - Joe Fotjik	Geoprobe

Civil Town/City/or Village:	County:	State:	Water Level Observations:
Tecumseh	Lenawee	MI	While Drilling: Date/Time 7/23/09 00:00 Depth (ft bgs) -- After Drilling: Date/Time 7/23/09 00:00 Depth (ft bgs) NM

SAMPLE NUMBER AND TYPE	SAMPLE RECOVERY (%)	BLOW COUNTS	DEPTH IN FEET	LITHOLOGIC DESCRIPTION	USCS	GRAPHIC LOG	COMMENTS
			0	**TOPSOIL**			
1 GP	100		2	**SANDY SILT** mostly silt, some fine to medium sand, few fine gravel, yellowish brown (10YR 5/4), dry, stiff.	ML		
2 GP	100		4	**SILTY CLAY** few fine sand, few fine gravel, slight plasticity, brown (10YR 5/3), dry to damp, stiff.	CL-ML		
3 GP	100		8	Above grades to dark grayish brown (10YR 4/2) at 9.0 feet.			
4 GP	100		12	**SANDY GRAVEL** mostly fine to coarse gravel, some fine to coarse sand, trace silt, brown (10YR 5/3), damp to moist, medium dense to dense.	GW		
			14				

SOIL BORING WELL CONSTRUCTION LOG 8070.02.GPJ RMT_CORP.GDT 8070.02 8/26/09

Signature:

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SOIL BORING LOG

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BORING NO. B-43

SAMPLE NUMBER AND TYPE	SAMPLE RECOVERY (%)	BLOW COUNTS	DEPTH IN FEET	LITHOLOGIC DESCRIPTION	USCS	GRAPHIC LOG	COMMENTS
			16	Change to moist at 16.0 feet.			
5 GP	50		18				
			20	Change to damp at 20.0 feet.			
6 GP	50		22				
			24	Same as above.	GW		
7 GP	50		26				
			28	Same as above.			
8 GP	50		30				
			32	End of boring at 32.0 feet below ground surface.			
			34				
			36				

SOIL BORING LOG

RMT

BORING NO. NS-1

Facility/Project Name:	Date Drilling Started:	Date Drilling Completed:	Project Number:
Tecumseh Products Company - Phase II Investigation	4/17/09	4/17/09	8070.02

Drilling Firm:	Drilling Method:	Surface Elev. (ft)	TOC Elevation (ft)	Total Depth (ft bgs)	Borehole Dia. (in)
Terraprobe, Inc.	Direct Push	---	---	24.0	2

Boring Location:	Personnel	Drilling Equipment:
118 feet west of east wall, 13 feet south of north wall	Logged By - Scott Middlebrook Driller - Joe Fotjik	Geoprobe

Civil Town/City/or Village:	County:	State:	Water Level Observations:
Tecumseh	Lenawee	MI	While Drilling: Date/Time 4/17/09 00:00 ▽ Depth (ft bgs) 20 After Drilling: Date/Time 4/17/09 00:00 Depth (ft bgs) NM

SAMPLE NUMBER AND TYPE	SAMPLE RECOVERY (%)	BLOW COUNTS	DEPTH IN FEET	LITHOLOGIC DESCRIPTION	USCS	GRAPHIC LOG	PID (PPM)	COMMENTS
				CONCRETE		///	1.3	Soil sample collected at 0-4 feet.
1 GP	50		2	**FILL** mostly medium sand, some fine sand, trace gravel, pale brown (10YR 6/3) grading to dark grayish brown (10YR 4/2), dry, medium dense.			1.3	
			4	**CLAY WITH SAND** mostly clay, some silt, little medium sand, few fine sand, low plasticity, very dark brown (10YR 2/2), dry to moist, stiff to very stiff.	CL		0.7	
2 GP	71		6	Change to few coarse sand, little to some medium sand at 4.5 feet.			0.5	
				SAND WITH GRAVEL mostly medium sand, some fine sand, little coarse sand, trace silt, trace gravel, brown (10YR 5/3), dry, medium dense. Change to no silt at 6.5 feet.			1.5	
			8				1.2	
3 GP	69		10	Change to trace coarse sand, no gravel at 10.0 feet.	SW		3.0	
							1.9	
			12				1.1	
4 GP	67		14	Change to few coarse sand at 14.0 feet.			0.4	
							0.8	
							1.8	

SOIL BORING WELL CONSTRUCTION LOG 8070.02.GPJ RMT_CORP.GDT 8070.02 8/28/09

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SOIL BORING LOG

RMT

BORING NO. NS-1

SAMPLE NUMBER AND TYPE	SAMPLE RECOVERY (%)	BLOW COUNTS	DEPTH IN FEET	LITHOLOGIC DESCRIPTION	USCS	GRAPHIC LOG	PID (PPM)	COMMENTS
			16	Change to dark grayish brown (10YR 4/2) at 16.0 feet.			0.6	Soil sample collected at 16-20 feet.
				Change to trace fine gravel, dense at 17.0 feet.				
5 GP	60		18				0.7	
							2.3	
			20	▽ Change to saturated at 20.0 feet.	SW			Groundwater sample collected at 20-24 feet.
6 GP	77		22					
			24	End of boring at 24.0 feet below ground surface.				
			26					
			28					
			30					
			32					
			34					
			36					

SOIL BORING WELL CONSTRUCTION LOG 8070.02.GPJ RMT_CORP.GDT 8070.02 8/28/09

SOIL BORING LOG

RMT

BORING NO. NS-2

Facility/Project Name:	Date Drilling Started:	Date Drilling Completed:	Project Number:
Tecumseh Products Company - Phase II Investigation	4/16/09	4/16/09	8070.02

Drilling Firm:	Drilling Method:	Surface Elev. (ft)	TOC Elevation (ft)	Total Depth (ft bgs)	Borehole Dia. (in)
Terraprobe, Inc.	Direct Push	---	---	20.0	2

Boring Location: 48 feet west of eastwall, 107 feet south of north wall

Personnel
Logged By - Scott Middlebrook
Driller - Joe Fotjik

Drilling Equipment: Geoprobe

Civil Town/City/or Village:	County:	State:
Tecumseh	Lenawee	MI

Water Level Observations:
While Drilling: Date/Time 4/16/09 00:00 ▽ Depth (ft bgs) 19.5
After Drilling: Date/Time 4/16/09 00:00 Depth (ft bgs) NM

SAMPLE NUMBER AND TYPE	SAMPLE RECOVERY (%)	BLOW COUNTS	DEPTH IN FEET	LITHOLOGIC DESCRIPTION	USCS	GRAPHIC LOG	PID (PPM)	COMMENTS
				CONCRETE				Soil sample collected at 0-4 feet.
1 GP	48		2	**SAND** mostly medium sand, some fine sand, brown (7.5YR 4/2), dry, dense, fill.	SP		0 0.5	
				GRAVEL road fill.	GP		0	
			4	**SANDY CLAY** mostly clay, some medium sand, little silt, few fine sand, nonplastic, very dark gray (7.5YR 3/1), dry, very stiff.	CL			
2 GP	23		6	**SAND** mostly medium sand, some fine sand, few coarse sand, trace gravel, brown (7.5YR 5/3), dry, loose. Crushed cobble at 6.0 feet.			1.9	Poor recovery at 5.5 feet.
3 GP	69		8 10	Same as above.	SW		5.2 2.4	Soil sample collected at 8-12 feet.
4 GP	60		12 14	Same as above.			3.1 1.1 4.2	
5			16	Same as above.			2.0 0.7 2.0	

SOIL BORING WELL CONSTRUCTION LOG 8070.02.GPJ RMT_CORP.GDT 8070.02 8/28/09

Signature:

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SOIL BORING LOG

RMT

BORING NO. NS-2

SAMPLE NUMBER AND TYPE	SAMPLE RECOVERY (%)	BLOW COUNTS	DEPTH IN FEET	LITHOLOGIC DESCRIPTION	USCS	GRAPHIC LOG	PID (PPM)	COMMENTS
GP	81		18		SW		1.3	
				▽ Change to saturated at 19.5 feet.				
			20	Blind drill to 24.0 feet.				Groundwater sample collected at 20-24 feet.
			22					
			24	End of boring at 24.0 feet below ground surface.				
			26					
			28					
			30					
			32					
			34					
			36					
			38					
			40					

SOIL BORING LOG

RMT

BORING NO. NS-3

Facility/Project Name:	Date Drilling Started:	Date Drilling Completed:	Project Number:
Tecumseh Products Company - Phase II Investigation	4/15/09	4/15/09	8070.02

Drilling Firm:	Drilling Method:	Surface Elev. (ft)	TOC Elevation (ft)	Total Depth (ft bgs)	Borehole Dia. (in)
Terraprobe, Inc.	Direct Push	---	---	20.0	2

Boring Location:	Personnel	Drilling Equipment:
On TPC property east of main building, about 150 feet south of Patterson Street	Logged By - Scott Middlebrook Driller - Joe Fotjik	Geoprobe

Civil Town/City/or Village:	County:	State:	Water Level Observations:
Tecumseh	Lenawee	MI	While Drilling: Date/Time 4/15/09 00:00 ▽ Depth (ft bgs) 16 After Drilling: Date/Time 4/15/09 00:00 Depth (ft bgs) NM

SAMPLE NUMBER AND TYPE	SAMPLE RECOVERY (%)	BLOW COUNTS	DEPTH IN FEET	LITHOLOGIC DESCRIPTION	USCS	GRAPHIC LOG	PID (PPM)	COMMENTS
			0	**TOPSOIL**			0	
1 GP	54		2	**SILTY CLAY WITH SAND** mostly clay, some silt, little coarse sand, few medium sand, trace fine sand, trace gravel, low plasticity, yellowish red (5YR 5/6), moist, very stiff.	CL		0	
				SAND mostly coarse sand, some medium sand, little fine sand, trace silt, brown (7.5YR 5/3), dry, medium dense.			0	
			4				0	
2 GP	77		6		SW		0	
			8	Change to some coarse sand at 8.0 feet.			0	
3 GP	67		10	**SAND** mostly medium sand, little coarse sand, few fine sand, yellowish brown (10YR 5/4), dry, medium dense.			0 0	
			12				0	
4 GP	63		14		SW		0	
			16 ▽	Change to trace gravel, brown (10YR 4/5), saturated at 16.0 feet.			0	Groundwater sample collected at 16-20 feet.
5 GP	69		18				0	
							0	
			20	Blind drill to 41.0 feet.				

SOIL BORING WELL CONSTRUCTION LOG 8070.02.GPJ RMT_CORP.GDT 8070.02 8/26/09

Signature:

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SOIL BORING LOG

RMT

BORING NO. NS-3

SAMPLE NUMBER AND TYPE	SAMPLE RECOVERY (%)	BLOW COUNTS	DEPTH IN FEET	LITHOLOGIC DESCRIPTION	USCS	GRAPHIC LOG	PID (PPM)	COMMENTS
			22					
			24					
			26					
			28					
			30					
			32					
			34					
			36					
			38					Groundwater sample collected at 37-41 feet.
			40					
			42	End of boring at 41.0 feet below ground surface.				
			44					
			46					
			48					

SOIL BORING LOG

RMT

BORING NO. NS-4

Facility/Project Name:	Date Drilling Started:	Date Drilling Completed:	Project Number:
Tecumseh Products Company - Phase II Investigation	4/16/09	4/16/09	8070.02

Drilling Firm:	Drilling Method:	Surface Elev. (ft)	TOC Elevation (ft)	Total Depth (ft bgs)	Borehole Dia. (in)
Terraprobe, Inc.	Direct Push	---	---	20.0	2

Boring Location: On TPC property east of main building, about 300 feet south of MW-4s

Personnel
Logged By - Scott Middlebrook
Driller - Joe Fotjik

Drilling Equipment: Geoprobe

Civil Town/City/or Village:	County:	State:
Tecumseh	Lenawee	MI

Water Level Observations:
While Drilling: Date/Time 4/16/09 00:00 ▽ Depth (ft bgs) 14
After Drilling: Date/Time 4/16/09 00:00 Depth (ft bgs) NM

SAMPLE NUMBER AND TYPE	SAMPLE RECOVERY (%)	BLOW COUNTS	DEPTH IN FEET	LITHOLOGIC DESCRIPTION	USCS	GRAPHIC LOG	PID (PPM)	COMMENTS
				ROAD GRAVEL			0	
1 GP	33		2	**SILTY CLAY WITH SAND** mostly clay, some silt, little coarse sand, some medium sand, trace gravel, low plasticity, reddish brown (5YR 4/4), moist, soft.	CL			
				SAND mostly medium sand, some coarse sand, little fine sand, trace gravel, brown (10YR 5/3), dry, medium dense.			0	
2 GP	67		4				0	
			6					
							0	
3 GP	48		8	Change to little to some coarse sand, trace cobble at 8.0 feet.			0.9	Soil sample collected at 8-12 feet.
			10		SW		0.6	
							0.5	
4 GP	60		12				0.3	
			14 ▽	Change to saturated at 14.0 feet.				Groundwater sample collected at 14-18 feet.
							0	
5 GP	81		16	Same as above.				
			18					
			20	Blind drill to 36.0 feet.				

SOIL BORING WELL CONSTRUCTION LOG 8070.02.GPJ RMT_CORP.GDT 8070.02 8/26/09

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SOIL BORING LOG

RMT

BORING NO. NS-4

SAMPLE NUMBER AND TYPE	SAMPLE RECOVERY (%)	BLOW COUNTS	DEPTH IN FEET	LITHOLOGIC DESCRIPTION	USCS	GRAPHIC LOG	PID (PPM)	COMMENTS
			22					
			24					
			26					
			28					
			30					
			32					Groundwater sample collected at 32-36 feet.
			34					
			36	End of boring at 36.0 feet below ground surface.				
			38					
			40					
			42					
			44					
			46					
			48					

SOIL BORING LOG

RMT

BORING NO. NS-10

Facility/Project Name:	Date Drilling Started:	Date Drilling Completed:	Project Number:
Tecumseh Products Company - Phase II Investigation	4/21/09	4/21/09	8070.02

Drilling Firm:	Drilling Method:	Surface Elev. (ft)	TOC Elevation (ft)	Total Depth (ft bgs)	Borehole Dia. (in)
Terraprobe, Inc.	Direct Push	---	---	24.0	2

Boring Location:	Personnel	Drilling Equipment:
Hallway between "D" and "Shipping Storage"	Logged By - Stacy Metz Driller - Steve Bischoff	Geoprobe

Civil Town/City/or Village:	County:	State:	Water Level Observations:		
Tecumseh	Lenawee	MI	While Drilling:	Date/Time 4/21/09 00:00	Depth (ft bgs) 21
			After Drilling:	Date/Time 4/21/09 00:00	Depth (ft bgs) 21

SAMPLE NUMBER AND TYPE	SAMPLE RECOVERY (%)	BLOW COUNTS	DEPTH IN FEET	LITHOLOGIC DESCRIPTION	USCS	GRAPHIC LOG	PID (PPM)	COMMENTS
				CONCRETE			1.9	
1 GP	69		2	**CLAYEY SAND** mostly fine sand, little clay, few coarse sand, few fine gravel, very dark brown (7.5YR 2.5/3), dry, dense.			0.9	
				Change to black (7.5YR 2.5/1), strong odor from 2.25 feet to 2.5 feet.	SC		4.9	
			4	Strong odor at 4.0 feet.			28.9	
2 GP	54		6	**CLAY** mostly clay, trace to few fine sand, high plasticity, very dark gray (10YR 3/1), strong odor, moist, very soft.	CL		43.0 54.6	
				CLAYEY SAND mostly fine sand, little clay, few coarse sand, few fine gravel, very dark brown (7.5YR 2.5/1), strong odor, dry, dense.	SC		97.1 180.0	
3 GP	75		8	**CLAY** mostly clay, little fine sand, slight plasticity, black (7.5YR 2.5/1), strong odor, dry, stiff.	CL		377.0 242.0	Soil sample collected at 8-9 feet.
			10	**CLAY** mostly clay, few fine sand, plastic, very dark grayish brown (10R 3/2), strong odor, moist, very soft to medium stiff.	CL		214.0 52.5	Soil sample collected at 10-11 feet.
4 GP	65		12	**SAND** mostly fine to coarse sand, little fine to coarse gravel, dark yellowish brown (10YR 4/6), strong odor, dry, dense.	SW		32.5 21.8 13.6	
			14	Change to trace gravel at 14.0 feet.			8.0	

SOIL BORING WELL CONSTRUCTION LOG 8070.02.GPJ RMT_CORP.GDT 8070.02 8/26/09

Signature: [signature]

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SOIL BORING LOG

RMT

BORING NO. NS-10

SAMPLE NUMBER AND TYPE	SAMPLE RECOVERY (%)	BLOW COUNTS	DEPTH IN FEET	LITHOLOGIC DESCRIPTION	USCS	GRAPHIC LOG	PID (PPM)	COMMENTS
5 GP	67		18	Same as above.			10.3	
							6.0	
			20		SW		9.5	
6 GP				▼ Change to saturated at 21.0 feet.				Groundwater sample collected at 21-25 feet.
			22					
			24	End of boring at 24.0 feet below ground surface.				
			26					
			28					
			30					
			32					
			34					
			36					

SOIL BORING LOG

RMT

BORING NO. SS-1

Facility/Project Name:	Date Drilling Started:	Date Drilling Completed:	Project Number:
Tecumseh Products Company - Phase II Investigation	4/15/09	4/15/09	8070.02

Drilling Firm:	Drilling Method:	Surface Elev. (ft)	TOC Elevation (ft)	Total Depth (ft bgs)	Borehole Dia. (in)
Terraprobe, Inc.	Direct Push	---	---	49.0	2

Boring Location:	Personnel	Drilling Equipment:
Inside main building about 100 feet south of GP-21	Logged By - Stacy Metz Driller - Craig Tanicala	Geoprobe

Civil Town/City/or Village:	County:	State:	Water Level Observations:
Tecumseh	Lenawee	MI	While Drilling: Date/Time 4/15/09 00:00 ▽ Depth (ft bgs) 23.5 After Drilling: Date/Time 4/15/09 00:00 Depth (ft bgs) NM

SAMPLE NUMBER AND TYPE	SAMPLE RECOVERY (%)	BLOW COUNTS	DEPTH IN FEET	LITHOLOGIC DESCRIPTION	USCS	GRAPHIC LOG	COMMENTS
			0	**CONCRETE**		///	
1 GP	54		2	**SAND** mostly fine sand, few coarse sand, dark yellowish brown (10YR 4/4), dry, dense.	SP		Soil sample collected at 1.0-1.5 feet.
2 GP	29		4 6	**SANDY CLAY** mostly clay, some fine to medium sand, few gravel, slight plasticity, dark yellowish brown (10YR 3/6), dry to moist, stiff. Change to little coarse gravel at 6.25 feet.	CL		
3 GP	75		8 10	**SAND** mostly fine to coarse sand, few fine to coarse gravel, loose, dark yellowish brown (10YR 4/6), dry.	SW		
4 GP	75		12 14	Same as above.			

SOIL BORING WELL CONSTRUCTION LOG 8070.02.GPJ RMT_CORP.GDT 8070.02 8/26/09

Signature:

Firm: RMT Inc.
3754 Ranchero Drive Ann Arbor, MI 48108
(734) 971-7080
Fax (734) 971-9022

SOIL BORING LOG

RMT

BORING NO. SS-1

SAMPLE NUMBER AND TYPE	SAMPLE RECOVERY (%)	BLOW COUNTS	DEPTH IN FEET	LITHOLOGIC DESCRIPTION	USCS	GRAPHIC LOG	COMMENTS
5 GP	73		18	Same as above.	SW		
			20	Same as above.			
6 GP	75		22	**SAND WITH GRAVEL** mostly sand, little to some fine gravel, very dark brown (10YR 2/2), wet to saturated, dense.	SW		
				▽ Saturated at 23.5 feet.			
			24	Blind drill to 49.0 feet. No drilling change from 24.0 to 49.0 feet.			Groundwater sample collected at 24-28 feet.
			26				
			28				
			30				
			32				
			34				
			36				

SOIL BORING LOG

RMT

BORING NO. SS-1

SAMPLE NUMBER AND TYPE	SAMPLE RECOVERY (%)	BLOW COUNTS	DEPTH IN FEET	LITHOLOGIC DESCRIPTION	USCS	GRAPHIC LOG	COMMENTS
			38				
			40				
			42				
			44				
			46				Groundwater sample collected at 45-49 feet.
			48				
				End of boring at 49.0 feet below ground surface.			
			50				
			52				
			54				
			56				
			58				

SOIL BORING LOG

RMT

BORING NO. SS-2

Facility/Project Name:	Date Drilling Started:	Date Drilling Completed:	Project Number:
Tecumseh Products Company - Phase II Investigation	4/16/09	4/16/09	8070.02

Drilling Firm:	Drilling Method:	Surface Elev. (ft)	TOC Elevation (ft)	Total Depth (ft bgs)	Borehole Dia. (in)
Terraprobe, Inc.	Direct Push	---	---	24.0	2

Boring Location:	Personnel	Drilling Equipment:
Inside main building about 100 feet north of GP-21	Logged By - Scott Middlebrook Driller - Joe Fotjik	Geoprobe

Civil Town/City/or Village:	County:	State:	Water Level Observations:
Tecumseh	Lenawee	MI	While Drilling: Date/Time 4/16/09 00:00 ▽ Depth (ft bgs) 20.5 After Drilling: Date/Time 4/16/09 00:00 Depth (ft bgs) NM

SAMPLE NUMBER AND TYPE	SAMPLE RECOVERY (%)	BLOW COUNTS	DEPTH IN FEET	LITHOLOGIC DESCRIPTION	USCS	GRAPHIC LOG	PID (PPM)	COMMENTS
				CONCRETE		/// ///		
1 GP	38		2	**CLAY WITH SAND** mostly clay, some fine sand, little silt, trace coarse sand, nonplastic, brown (10YR 4/3), dry, very stiff.				
			4		CL			
2 GP	0		6	No recovery from 4.0 to 8.0 feet, stone in tip of rods.				
			8					
3 GP	67		10	**SAND** mostly medium sand, little coarse sand, few fine sand, trace gravel, pale brown (10YR 6/3), slight odor, dry, loose.			2.3 6.1 2.5	Soil sample collected at 8-12 feet.
			12		SW			
4 GP	67		14	Change to few to little coarse sand at 12.0 feet.			14.9 10.4 10.0	

SOIL BORING WELL CONSTRUCTION LOG 8070.02.GPJ RMT_CORP.GDT 8070.02 8/26/09

Signature:

Firm: RMT Inc.
3754 Ranchero Drive Ann Arbor, MI 48108
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Fax (734) 971-9022

SOIL BORING LOG

RMT

BORING NO. SS-2

SAMPLE NUMBER AND TYPE	SAMPLE RECOVERY (%)	BLOW COUNTS	DEPTH IN FEET	LITHOLOGIC DESCRIPTION	USCS	GRAPHIC LOG	PID (PPM)	COMMENTS
			18	Same as above.	SW		6.9	Soil sample collected at 16-20 feet.
5 GP	81						10.7	
			20				18.0	
				▽ Change to saturated at 20.5 feet.			3.7	Groundwater sample collected at 20-24 feet.
6 GP			22	Change to some coarse sand at 22.0 feet.			7.4	
			24	Blind drill to 46.0 feet.			3.1	
			26					
			28					
			30					
			32					
			34					
			36					

SOIL BORING LOG

RMT

BORING NO. SS-2

SAMPLE NUMBER AND TYPE	SAMPLE RECOVERY (%)	BLOW COUNTS	DEPTH IN FEET	LITHOLOGIC DESCRIPTION	USCS	GRAPHIC LOG	PID (PPM)	COMMENTS
			38					
			40					
			42					Groundwater sample collected at 42-46 feet.
			44					
			46	End of boring at 46.0 feet below ground surface.				
			48					
			50					
			52					
			54					
			56					
			58					

SOIL BORING LOG

RMT

BORING NO. SS-3

Facility/Project Name:	Date Drilling Started:	Date Drilling Completed:	Project Number:
Tecumseh Products Company - Phase II Investigation	4/16/09	4/16/09	8070.02

Drilling Firm:	Drilling Method:	Surface Elev. (ft)	TOC Elevation (ft)	Total Depth (ft bgs)	Borehole Dia. (in)
Terraprobe, Inc.	Direct Push	---	---	24.0	2

Boring Location:	Personnel	Drilling Equipment:
Inside main building along southern wall of Section G	Logged By - Scott Middlebrook Driller - Joe Fotjik	Geoprobe

Civil Town/City/or Village:	County:	State:	Water Level Observations:			
Tecumseh	Lenawee	MI	While Drilling:	Date/Time 4/16/09 00:00	▽ Depth (ft bgs)	19.75
			After Drilling:	Date/Time 4/16/09 00:00	Depth (ft bgs)	NM

SAMPLE NUMBER AND TYPE	SAMPLE RECOVERY (%)	BLOW COUNTS	DEPTH IN FEET	LITHOLOGIC DESCRIPTION	USCS	GRAPHIC LOG	PID (PPM)	COMMENTS
				CONCRETE		/// ///		
1 GP	25		2	**CLAY WITH SAND** mostly clay, little medium sand, trace coarse sand, nonplastic, brown (10YR 4/3), dry, very stiff.	CL			
			4				2.7	
2 GP	60		6	**SAND** mostly medium sand, some fine sand, few coarse sand, trace gravel, dark yellowish brown (10YR 4/6), dry, medium dense.			6.0	
							3.9	
3 GP	58		8	Change to little coarse sand at 8.0 feet.	SW		4.4	Soil sample collected at 8-12 feet.
			10				6.7	
				Change to trace coarse sand at 11.0 feet.			7.3	
4 GP	69		12	Change to few coarse sand at 13.0 feet.			1.5	
			14				10.6	
				Change to trace coarse sand at 15.0 feet.			8.3	

SOIL BORING WELL CONSTRUCTION LOG 8070.02.GPJ RMT_CORP.GDT 8070.02 8/26/09

Signature:

Firm: RMT Inc.
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SOIL BORING LOG

RMT

BORING NO. SS-3

SAMPLE NUMBER AND TYPE	SAMPLE RECOVERY (%)	BLOW COUNTS	DEPTH IN FEET	LITHOLOGIC DESCRIPTION	USCS	GRAPHIC LOG	PID (PPM)	COMMENTS
			18	Same as above.	SW		4.3	Soil sample collected at 16-20 feet.
5 GP	79						18.6	
			20	▽Change to wet at 19.5 feet. Change to saturated at 19.75 feet.			12.1	
6 GP	81		22				1.9	Groundwater sample collected at 20-24 feet.
							1.4	
			24	End of boring at 24.0 feet below ground surface.			0	
			26					
			28					
			30					
			32					
			34					
			36					

SOIL BORING LOG

RMT

BORING NO. SS-4

Facility/Project Name:	Date Drilling Started:	Date Drilling Completed:	Project Number:
Tecumseh Products Company - Phase II Investigation	4/17/09	4/17/09	8070.02

Drilling Firm:	Drilling Method:	Surface Elev. (ft)	TOC Elevation (ft)	Total Depth (ft bgs)	Borehole Dia. (in)
Terraprobe, Inc.	Direct Push	---	---	24.0	2

Boring Location:	Personnel	Drilling Equipment:
Inside main building in Section M about 50 feet west of GP-21	Logged By - Scott Middlebrook Driller - Joe Fotjik	Geoprobe

Civil Town/City/or Village:	County:	State:	Water Level Observations:
Tecumseh	Lenawee	MI	While Drilling: Date/Time 4/17/09 00:00 ▽ Depth (ft bgs) 22 After Drilling: Date/Time 4/17/09 00:00 Depth (ft bgs) NM

SAMPLE NUMBER AND TYPE	SAMPLE RECOVERY (%)	BLOW COUNTS	DEPTH IN FEET	LITHOLOGIC DESCRIPTION	USCS	GRAPHIC LOG	PID (PPM)	COMMENTS
				CONCRETE		///		
1 GP	46		2	**SAND** mostly fine sand, some medium sand, light yellowish brown (10YR 6/4) grades to yellowish brown (10YR 5/4), dry, dense, fill.	SP		4.6 2.5 3.3	
			4				5.0	
2 GP	60		6	**CLAYEY SAND** mostly coarse sand, some clay, little medium sand, few fine sand, few silt, brown (10YR 4/3), dry, dense.	SW-SC		9.5	
				SAND mostly medium sand, some coarse sand, little medium sand, pale brown (10YR 6/3), dry, loose.			6.9	
3 GP	79		8				30.0	Soil sample collected at 8-12 feet.
			10	Above grades to mostly coarse sand, some medium sand, trace gravel, yellowish brown (10YR 5/4) at 8.5 feet.	SW		69.7	
			12				28.8	
4 GP	71		14				53.3	Soil sample collected at 12-16 feet.
				Change to mostly medium sand, little fine sand, trace coarse sand, pale brown (10YR 6/3) at 14.5 feet.			80.2	
							41.9	

SOIL BORING WELL CONSTRUCTION LOG 8070.02.GPJ RMT_CORP.GDT 8070.02 8/26/09

Signature:

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SOIL BORING LOG

RMT

BORING NO. SS-4

SAMPLE NUMBER AND TYPE	SAMPLE RECOVERY (%)	BLOW COUNTS	DEPTH IN FEET	LITHOLOGIC DESCRIPTION	USCS	GRAPHIC LOG	PID (PPM)	COMMENTS
5 GP	69		18	Change to few coarse sand at 17.5 feet.	SW		15.3 9.0 20.7 18.2	
6 GP	75		20 22	▽ Change to saturated at 22.0 feet.			14.4	Groundwater sample collected at 22-24 feet.
			24	End of boring at 24.0 feet below ground surface.				
			26					
			28					
			30					
			32					
			34					
			36					

WELL CONSTRUCTION LOG

RMT

WELL NO. MW-1s/B-1

Facility/Project Name:	Date Drilling Started:	Date Drilling Completed:	Project Number:
Tecumseh Products Company - Phase II Investigation	3/12/09	3/12/09	8070.02

Drilling Firm:	Drilling Method:	Surface Elev. (ft)	TOC Elevation (ft)	Total Depth (ft bgs)	Borehole Dia. (in)
Terraprobe, Inc.	Direct Push/HSA	---	---	24.0	2-8

Boring Location: On TPC property, 10 feet south of B-1, about 600 feet west of Maumee Street and 1400 feet south of Patterson Street

Personnel: Logged By - Scott Middlebrook; Driller - Craig Tanicala

Drilling Equipment: Geoprobe

Civil Town/City/or Village:	County:	State:
Tecumseh	Lenawee	MI

Water Level Observations:
While Drilling: Date/Time 3/12/09 00:00 ▽ Depth (ft bgs) 16.5
After Drilling: Date/Time 3/12/09 00:00 Depth (ft bgs) NM

SAMPLE NUMBER AND TYPE	SAMPLE RECOVERY (%)	BLOW COUNTS	DEPTH IN FEET	LITHOLOGIC DESCRIPTION	USCS	GRAPHIC LOG	WELL DIAGRAM	COMMENTS
			0	**ROAD GRAVEL** dry.	GP			
				SAND mostly medium sand, some fine sand, little silt, trace coarse sand and gravel, dark brown (7.5YR 3/2), dry, dense.	SW			
1 GP	79		2	**SANDY CLAY** mostly clay, some medium sand, little silt, few coarse sand, trace gravel, low plasticity, strong brown (7.5YR 4/6), dry, stiff. Coarse sand content increases with depth.	CL			
			4	**SAND** mostly coarse sand, some medium sand, little fine sand, trace clay, pale brown (10YR 6/3), dry, loose.				
2 GP	77		6	Change to no clay at 6.0 feet.				
			8		SW			
				Change to mostly medium sand, some coarse sand at 8.5 feet.				
3 GP	67		10					
			12	**SAND** mostly medium sand, some fine sand, trace coarse sand, pale brown (10YR 6/3), dry, loose.				
4 GP	73		14		SP			

SOIL BORING WELL CONSTRUCTION LOG 8070.02.GPJ RMT_CORP.GDT 8070.02 8/26/09

Signature:

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3754 Ranchero Drive Ann Arbor, MI 48108
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WELL CONSTRUCTION LOG

RMT

WELL NO. MW-1s/B-1

SAMPLE NUMBER AND TYPE	SAMPLE RECOVERY (%)	BLOW COUNTS	DEPTH IN FEET	LITHOLOGIC DESCRIPTION	USCS	GRAPHIC LOG	WELL DIAGRAM	COMMENTS
				▽	SP			
5 GP	69		18	**SAND** mostly medium sand, some fine sand, few coarse sand, trace gravel, brown (7.5YR 4/2), saturated, loose.				
			20	Change to trace coarse sand, no gravel at 20.5 feet.	SW			
6 GP	98		22					
			24	Blind drill to 50.0 feet.				
			26					Groundwater sample collected at 26-30 feet.
			28					
			30					
			32					
			34					
			36					

WELL CONSTRUCTION LOG

RMT

WELL NO. MW-1s/B-1

SAMPLE NUMBER AND TYPE	SAMPLE RECOVERY (%)	BLOW COUNTS	DEPTH IN FEET	LITHOLOGIC DESCRIPTION	USCS	GRAPHIC LOG	WELL DIAGRAM	COMMENTS
			38					
			40					
			42					
			44					
			46					Groundwater sample collected at 46-50 feet.
			48					
			50	End of boring at 50.0 feet below ground surface.				
			52					
			54					
			56					
			58					

RMT WELL CONSTRUCTION DIAGRAM

PROJ. NAME: Tecumseh Products Co. - Tecumseh Mfg. Facility			WELL ID: MW-1S
PROJ. NO: 8070.02	DATE INSTALLED: 3/12/2009	INSTALLED BY: Scot Middlebrook	CHECKED BY: BR

ELEVATION (BENCHMARK: USGS)	DEPTH BELOW OR ABOVE GROUND SURFACE (FEET)	
796.90	0.0	GROUND SURFACE
796.53	0.4	TOP OF CASING
--	1.0	CEMENT SURFACE PLUG
		GROUT/BACKFILL MATERIAL: NA
		GROUT/BACKFILL METHOD: NA
15.60	--	GROUT
		BENTONITE SEAL MATERIAL: MEDIUM CHIPS
	15.0	BENTONITE SEAL
780.93	16.0	TOP OF SCREEN
5.00		FILTER PACK MATERIAL: MEDIUM, WASHED SAND
775.93	21.0	BOTTOM OF SCREEN
	21.5	BOTTOM OF FILTER PACK
	--	BENTONITE PLUG
		BACKFILL MATERIAL: NATURAL COLLAPSE
746.93	50.0	HOLE BOTTOM

RISER PIPE LENGTH

SCREEN LENGTH

NOTES:

5.0 GALLONS OF WATER ADDED TO SET WELL.

CASING AND SCREEN DETAILS

TYPE OF RISER: 2-INCH PVC

PIPE SCHEDULE: 40

PIPE JOINTS: THREADED O-RINGS

SOLVENT USED? NO

SCREEN TYPE: 2-INCH PVC

SCR. SLOT SIZE: 0.01-INCH

BOREHOLE DIAMETER:

8.0	IN. FROM	0.0	TO	21.5	FT.
2.0	IN. FROM	21.5	TO	24.0	FT.
1.0	IN. FROM	24.0	TO	50.0	FT.
NA	IN. FROM	NA	TO	NA	FT.

WELL DEVELOPMENT

DEVELOPMENT METHOD: SURGE AND PUMP

TIME DEVELOPING: 25 MINUTES

WATER REMOVED: 25 GALLONS

WATER ADDED: 0 GALLONS

WATER CLARITY BEFORE / AFTER DEVELOPMENT

CLARITY BEFORE: TURBID

COLOR BEFORE: BROWN

CLARITY AFTER: CLEAR

COLOR AFTER: CLEAR

ODOR (IF PRESENT): NA

WATER LEVEL SUMMARY

MEASUREMENT (FEET)			DATE	TIME
DTB BEFORE DEVELOPING:	20.80	T/PVC	3/12/2009	1804
DTB AFTER DEVELOPING:	20.80	T/PVC	3/12/2009	1835
SWE BEFORE DEVELOPING:	16.09	T/PVC	3/12/2009	1804
SWE AFTER DEVELOPING:	16.11	T/PVC	3/12/2009	1835
OTHER SWE: DURING DEVEL.	16.20	T/PVC	3/12/2009	1818
OTHER SWE:		T/PVC		

PROTECTIVE CASING DETAILS

PERMANENT, LEGIBLE WELL LABEL ADDED? ☑ YES ☐ NO

PROTECTIVE COVER AND LOCK INSTALLED? ☑ YES ☐ NO

LOCK KEY NUMBER: 3120

WELL CONSTRUCTION LOG

RMT

WELL NO. MW-2s

Facility/Project Name:	Date Drilling Started:	Date Drilling Completed:	Project Number:
Tecumseh Products Company - Phase II Investigation	3/12/09	3/12/09	8070.02

Drilling Firm:	Drilling Method:	Surface Elev. (ft)	TOC Elevation (ft)	Total Depth (ft bgs)	Borehole Dia. (in)
Terraprobe, Inc.	Direct Push/HSA	---	---	28.0	2-8

Boring Location: At the corner of Ottawa Street and Patterson Street, 25 feet east of flagpole, 20 feet south of Patterson Street curb

Personnel: Logged By - Scott Middlebrook; Driller - Craig Tanicala

Drilling Equipment: Geoprobe

Civil Town/City/or Village:	County:	State:
Tecumseh	Lenawee	MI

Water Level Observations:
While Drilling: Date/Time 3/12/09 00:00 ▽ Depth (ft bgs) 23
After Drilling: Date/Time 3/12/09 00:00 Depth (ft bgs) NM

SAMPLE NUMBER AND TYPE	SAMPLE RECOVERY (%)	BLOW COUNTS	DEPTH IN FEET	LITHOLOGIC DESCRIPTION	USCS	GRAPHIC LOG	WELL DIAGRAM	COMMENTS
1 HA	100		0	**TOPSOIL** black (10YR 2/1), moist, soft.				
2 GP	39		2	**SILTY CLAY** mostly clay, some silt, few medium sand, trace coarse sand, high plasticity, dark yellowish brown (10YR 3/4), wet, soft.	CL-ML			
			4	**SILTY CLAY WITH SAND** mostly clay, some silt, little coarse sand, few medium sand, trace gravel, high plasticity, very dark grayish brown (10YR 3/2), moist, stiff.	CL-ML			
3 GP	71		6	**SAND** mostly coarse sand, some medium sand, few fine sand, trace silt, trace gravel, trace cobbles, dark yellowish brown (10YR 4/6), dry, loose.	SW			
4 GP	63		8	**SAND** mostly medium sand, little coarse sand, trace silt, trace large gravel, brown (10YR 5/3) to strong brown (7.5YR 5/8), dry, loose.				
			10					
			12		SP			
5 GP	65		14	Coarse sand content increases with depth.				

SOIL BORING WELL CONSTRUCTION LOG 8070.02.GPJ RMT_CORP.GDT 8070.02 8/28/09

Signature:

Firm: RMT Inc.
3754 Ranchero Drive Ann Arbor, MI 48108
(734) 971-7080
Fax (734) 971-9022

WELL CONSTRUCTION LOG

RMT

WELL NO. MW-2s

SAMPLE NUMBER AND TYPE	SAMPLE RECOVERY (%)	BLOW COUNTS	DEPTH IN FEET	LITHOLOGIC DESCRIPTION	USCS	GRAPHIC LOG	WELL DIAGRAM	COMMENTS
			16	Change to some coarse sand, little fine sand, pale brown (10YR 6/3) at 16.0 feet.	SP			
6 GP	65		18	**SAND** mostly medium sand, some fine sand, few coarse sand, trace coarse sand, trace gravel, brown (7.5YR 4/2), saturated, loose.				
			20	Same as above.				
7 GP	63		22		SW			
				▽ Change to strong brown (7.5YR 5/6) at 22.5 feet.				
				Change to brown (10YR 4/3), saturated at 23.0 feet.				
			24	Same as above.				
8 GP	79		26					
			28	Blind drill to 29.0 feet during well installation.				
				End of boring at 29.0 feet below ground surface.				
			30					
			32					
			34					
			36					

SOIL BORING WELL CONSTRUCTION LOG 8070.02.GPJ RMT_CORP.GDT 8070.02 8/28/09

RMT WELL CONSTRUCTION DIAGRAM

PROJ. NAME:	Tecumseh Products Co. - Tecumseh Mfg. Facility			WELL ID:	MW-2S
PROJ. NO:	8070.02	DATE INSTALLED:	3/12/2009	INSTALLED BY: Scot Middlebrook	CHECKED BY: BR

ELEVATION (BENCHMARK: USGS)	DEPTH BELOW OR ABOVE GROUND SURFACE (FEET)	
802.40	0.0	GROUND SURFACE
802.14	0.3	TOP OF CASING
--	1.0	CEMENT SURFACE PLUG
		GROUT/BACKFILL MATERIAL: NA
		GROUT/BACKFILL METHOD: NA
22.70		RISER PIPE LENGTH
	--	GROUT
		BENTONITE SEAL MATERIAL: MEDIUM CHIPS
	22.0	BENTONITE SEAL
779.44	23.0	TOP OF SCREEN
5.00		SCREEN LENGTH
		FILTER PACK MATERIAL: MEDIUM, WASHED SAND
774.44	28.0	BOTTOM OF SCREEN
	29.0	BOTTOM OF FILTER PACK
	--	BENTONITE PLUG
		BACKFILL MATERIAL: --
773.44	29.0	HOLE BOTTOM

NOTES:

CASING AND SCREEN DETAILS

TYPE OF RISER: 2-INCH PVC

PIPE SCHEDULE: 40

PIPE JOINTS: THREADED O-RINGS

SOLVENT USED? NO

SCREEN TYPE: 2-INCH PVC

SCR. SLOT SIZE: 0.01-INCH

BOREHOLE DIAMETER: 8.0 IN. FROM 0.0 TO 29.0 FT.
NA IN. FROM NA TO NA FT.

SURF. CASING DIAMETER: NA IN. FROM NA TO NA FT.
NA IN. FROM NA TO NA FT.

WELL DEVELOPMENT

DEVELOPMENT METHOD: SURGE AND PUMP

TIME DEVELOPING: 25 MINUTES

WATER REMOVED: 25 GALLONS

WATER ADDED: 0 GALLONS

WATER CLARITY BEFORE / AFTER DEVELOPMENT

CLARITY BEFORE: TURBID

COLOR BEFORE: BROWN

CLARITY AFTER: CLEAR

COLOR AFTER: CLEAR

ODOR (IF PRESENT): NA

WATER LEVEL SUMMARY

MEASUREMENT (FEET)			DATE	TIME
DTB BEFORE DEVELOPING:	27.52	T/PVC	3/13/2009	1358
DTB AFTER DEVELOPING:	27.54	T/PVC	3/13/2009	1428
SWE BEFORE DEVELOPING:	22.15	T/PVC	3/13/2009	1358
SWE AFTER DEVELOPING:	22.15	T/PVC	3/13/2009	1428
OTHER SWE: DURING DEVEL.	22.27	T/PVC	3/13/2009	1419
OTHER SWE:		T/PVC		

PROTECTIVE CASING DETAILS

PERMANENT, LEGIBLE WELL LABEL ADDED? ☑ YES ☐ NO

PROTECTIVE COVER AND LOCK INSTALLED? ☑ YES ☐ NO

LOCK KEY NUMBER: 3120

REVISED 03/2008

WELL CONSTRUCTION LOG

RMT

WELL NO. MW-3s

Facility/Project Name:	Date Drilling Started:	Date Drilling Completed:	Project Number:
Tecumseh Products Company - Phase II Investigation	3/11/09	3/11/09	8070.02

Drilling Firm:	Drilling Method:	Surface Elev. (ft)	TOC Elevation (ft)	Total Depth (ft bgs)	Borehole Dia. (in)
Terraprobe, Inc.	Direct Push/HSA	---	---	16.0	2-8

Boring Location:	Personnel	Drilling Equipment:
On TPC property, on southwest corner of Patterson Street and Maumee Street	Logged By - Scott Middlebrook Driller - Craig Tanicala	Geoprobe

Civil Town/City/or Village:	County:	State:	Water Level Observations:
Tecumseh	Lenawee	MI	While Drilling: Date/Time 3/11/09 00:00 ▽ Depth (ft bgs) 6 After Drilling: Date/Time 3/11/09 00:00 Depth (ft bgs) NM

SAMPLE NUMBER AND TYPE	SAMPLE RECOVERY (%)	BLOW COUNTS	DEPTH IN FEET	LITHOLOGIC DESCRIPTION	USCS	GRAPHIC LOG	WELL DIAGRAM	COMMENTS
			0	**ROAD GRAVEL** light gray (10YR 7/1), wet.	GP			
				FILL asphalt.				
1 GP	60		2	**SILTY CLAY WITH SAND** mostly clay, some silt, little medium sand, trace gravel, trace roots, low plasticity, brown (10YR 5/4), wet, soft.	CL-ML			
			4	**SANDY CLAY** mostly clay, some medium sand, little silt, low plasticity, yellowish brown (10YR 5/4), wet, stiff.	CL			
2 GP	65		6 ▽	**SAND** mostly medium sand, some fine sand, little silt, dark grayish brown (10YR 4/2), saturated, loose.	SP			
				SILTY CLAY mostly clay, some silt, trace medium sand, high plasticity, dark yellowish brown (10YR 4/6), moist, stiff.	CL-ML			
			8	**SAND** mostly coarse sand, some medium sand, little gravel, trace silt, strong brown (7.5YR 5/6) and light brown (7.5YR 6/3), dry, loose.	SW			
3 GP	71		10	**SAND** mostly medium sand, some coarse sand, little fine sand, brown (7.5YR 4/2), saturated, loose.				
			12	Same as above.	SW			Poor recovery due to crushed liner at 12.0 feet.
4 GP	38		14					
			16	End of boring at 16.0 feet below ground surface.				

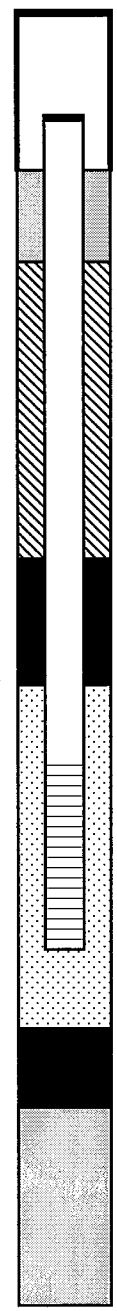
SOIL BORING WELL CONSTRUCTION LOG 8070.02.GPJ RMT_CORP.GDT 8070.02 8/26/09

Signature:	Firm: RMT Inc.	
	3754 Ranchero Drive Ann Arbor, MI 48108	(734) 971-7080 Fax (734) 971-9022

RMT WELL CONSTRUCTION DIAGRAM

PROJ. NAME:	Tecumseh Products Co. - Tecumseh Mfg. Facility			WELL ID:	MW-3S
PROJ. NO:	8070.02	DATE INSTALLED:	3/11/2009 INSTALLED BY: Scot Middlebrook		CHECKED BY: BR

ELEVATION (BENCHMARK: USGS)	DEPTH BELOW OR ABOVE GROUND SURFACE (FEET)



787.60	0.0 GROUND SURFACE
787.00	0.6 TOP OF CASING
--	1.0 CEMENT SURFACE PLUG
	GROUT/BACKFILL MATERIAL: NA
	GROUT/BACKFILL METHOD: NA
8.40	-- GROUT
	BENTONITE SEAL MATERIAL: MEDIUM CHIPS
	7.0 BENTONITE SEAL
778.60	9.0 TOP OF SCREEN
	FILTER PACK MATERIAL: MEDIUM, WASHED SAND
5.00	
773.60	14.0 BOTTOM OF SCREEN
	14.0 BOTTOM OF FILTER PACK
	-- BENTONITE PLUG
	BACKFILL MATERIAL: NATURAL COLLAPSE
771.60	16.0 HOLE BOTTOM

NOTES:

CASING AND SCREEN DETAILS

TYPE OF RISER: 2-INCH PVC

PIPE SCHEDULE: 40

PIPE JOINTS: THREADED O-RINGS

SOLVENT USED? NO

SCREEN TYPE: 2-INCH PVC

SCR. SLOT SIZE: 0.01-INCH

BOREHOLE DIAMETER: 8.0 IN. FROM 0.0 TO 14.0 FT.
2.0 IN. FROM 14.0 TO 16.0 FT.

SURF. CASING DIAMETER: NA IN. FROM NA TO NA FT.
NA IN. FROM NA TO NA FT.

WELL DEVELOPMENT

DEVELOPMENT METHOD: SURGE AND PUMP

TIME DEVELOPING: 25 MINUTES

WATER REMOVED: 25 GALLONS

WATER ADDED: 0 GALLONS

WATER CLARITY BEFORE / AFTER DEVELOPMENT

CLARITY BEFORE: TURBID

COLOR BEFORE: BROWN

CLARITY AFTER: CLEAR

COLOR AFTER: CLEAR

ODOR (IF PRESENT): NA

WATER LEVEL SUMMARY

MEASUREMENT (FEET)			DATE	TIME
DTB BEFORE DEVELOPING:	13.49	T/PVC	3/11/2009	1750
DTB AFTER DEVELOPING:	13.49	T/PVC	3/11/2009	1820
SWE BEFORE DEVELOPING:	7.75	T/PVC	3/11/2009	1750
SWE AFTER DEVELOPING:	7.76	T/PVC	3/11/2009	1820
OTHER SWE:		T/PVC		
OTHER SWE:		T/PVC		

PROTECTIVE CASING DETAILS

PERMANENT, LEGIBLE WELL LABEL ADDED? ☑ YES ☐ NO

PROTECTIVE COVER AND LOCK INSTALLED? ☑ YES ☐ NO

LOCK KEY NUMBER: 3120

REVISED 03/2008

WELL CONSTRUCTION LOG

RMT

WELL NO. MW-4s

Facility/Project Name:	Date Drilling Started:	Date Drilling Completed:	Project Number:
Tecumseh Products Company - Phase II Investigation	3/11/09	3/11/09	8070.02

Drilling Firm:	Drilling Method:	Surface Elev. (ft)	TOC Elevation (ft)	Total Depth (ft bgs)	Borehole Dia. (in)
Terraprobe, Inc.	Direct Push/HSA	---	---	20.0	2-8

Boring Location: On TPC property, south of Patterson Street, about 400 feet west of Maumee Street

Personnel: Logged By - Scott Middlebrook; Driller - Craig Tanicala

Drilling Equipment: Geoprobe

Civil Town/City/or Village:	County:	State:
Tecumseh	Lenawee	MI

Water Level Observations:
While Drilling: Date/Time 3/11/09 00:00 ▽ Depth (ft bgs) 15
After Drilling: Date/Time 3/11/09 00:00 Depth (ft bgs) NM

SAMPLE NUMBER AND TYPE	SAMPLE RECOVERY (%)	BLOW COUNTS	DEPTH IN FEET	LITHOLOGIC DESCRIPTION	USCS	GRAPHIC LOG	WELL DIAGRAM	COMMENTS
			0	**ROAD GRAVEL**				
1 GP	25		2	**SILTY CLAY WITH SAND** mostly clay, some silt, little medium sand, few coarse sand, trace gravel, medium plasticity, strong brown (7.5YR 5/6), dry, stiff.	CL-ML			
			4	**CRUSHED WHITE COBBLE**				
2 GP	29		6	**SAND** mostly medium sand, some coarse sand, little fine sand, few gravel, pale brown (10YR 6/3) to brown (10YR 5/3), dry, loose.				
			8	Same as above.				
3 GP	73		10					
			12	Same as above, trace gravel.	SW			
4 GP	69		14	Change to brownish yellow (10YR 6/8) at 14.0 feet.				
				▽ Change to very dark grayish brown (10YR 3/2), saturated at 15.0 feet.				
			16	Change to mostly coarse sand, some medium sand, no fine sand, brown (10YR 5/3) to grayish brown (10YR 5/2) at 16.0 feet.				
5 GP	75		18					
			20	End of boring at 20.0 feet below ground surface.				

SOIL BORING WELL CONSTRUCTION LOG 8070.02.GPJ RMT_CORP.GDT 8070.02 8/26/09

Signature:

Firm: RMT Inc.
3754 Ranchero Drive Ann Arbor, MI 48108
(734) 971-7080
Fax (734) 971-9022

RMT WELL CONSTRUCTION DIAGRAM

PROJ. NAME:	Tecumseh Products Co. - Tecumseh Mfg. Facility			WELL ID:	**MW-4S**
PROJ. NO:	8070.02	DATE INSTALLED:	3/11/2009	INSTALLED BY: Scot Middlebrook	CHECKED BY: BR

ELEVATION (BENCHMARK: USGS)	DEPTH BELOW OR ABOVE GROUND SURFACE (FEET)
794.70	0.0 GROUND SURFACE
794.42	0.3 TOP OF CASING
--	1.0 CEMENT SURFACE PLUG
	GROUT/BACKFILL MATERIAL: NA
	GROUT/BACKFILL METHOD: NA
14.70	-- GROUT
	BENTONITE SEAL MATERIAL: MEDIUM CHIPS
	13.5 BENTONITE SEAL
779.72	15.0 TOP OF SCREEN
	FILTER PACK MATERIAL: MEDIUM, WASHED SAND
5.00	
774.72	20.0 BOTTOM OF SCREEN
	20.0 BOTTOM OF FILTER PACK
	-- BENTONITE PLUG
	BACKFILL MATERIAL: --
774.72	20.0 HOLE BOTTOM

RISER PIPE LENGTH

SCREEN LENGTH

NOTES:

5 GALLONS OF WATER ADDED TO SET WELL.
LOTS OF FINE SANDS WHILE DEVEOPLING.

CASING AND SCREEN DETAILS

TYPE OF RISER: 2-INCH PVC

PIPE SCHEDULE: 40

PIPE JOINTS: THREADED O-RINGS

SOLVENT USED? NO

SCREEN TYPE: 2-INCH PVC

SCR. SLOT SIZE: 0.01-INCH

BOREHOLE DIAMETER:	8.0	IN. FROM	0.0	TO	20.0	FT.
	NA	IN. FROM	NA	TO	NA	FT.
SURF. CASING DIAMETER:	NA	IN. FROM	NA	TO	NA	FT.
	NA	IN. FROM	NA	TO	NA	FT.

WELL DEVELOPMENT

DEVELOPMENT METHOD: SURGE AND PUMP

TIME DEVELOPING: 20 MINUTES

WATER REMOVED: 25 GALLONS

WATER ADDED: 0 GALLONS

WATER CLARITY BEFORE / AFTER DEVELOPMENT

CLARITY BEFORE: CLOUDY

COLOR BEFORE: BROWN

CLARITY AFTER: CLEAR

COLOR AFTER: CLEAR

ODOR (IF PRESENT): NA

WATER LEVEL SUMMARY

MEASUREMENT (FEET)			DATE	TIME
DTB BEFORE DEVELOPING:	20.03	T/PVC	3/12/2009	1011
DTB AFTER DEVELOPING:	20.03	T/PVC	3/12/2009	1040
SWE BEFORE DEVELOPING:	15.06	T/PVC	3/12/2009	1011
SWE AFTER DEVELOPING:	15.06	T/PVC	3/12/2009	1040
OTHER SWE: DURING DEVEL.	15.19	T/PVC	3/12/2009	1026
OTHER SWE:		T/PVC		

PROTECTIVE CASING DETAILS

PERMANENT, LEGIBLE WELL LABEL ADDED? ☑ YES ☐ NO

PROTECTIVE COVER AND LOCK INSTALLED? ☑ YES ☐ NO

LOCK KEY NUMBER: 3120

REVISED 03/2008

WELL CONSTRUCTION LOG

RMT

WELL NO. MW-5s

Facility/Project Name:	Date Drilling Started:	Date Drilling Completed:	Project Number:
Tecumseh Products Company - Phase II Investigation	3/11/09	3/11/09	8070.02

Drilling Firm:	Drilling Method:	Surface Elev. (ft)	TOC Elevation (ft)	Total Depth (ft bgs)	Borehole Dia. (in)
Terraprobe, Inc.	Direct Push/HSA	---	---	32.0	2-8

Boring Location:	Personnel	Drilling Equipment:
On TPC property, east of Evans Street, about 1300 feet south of Patterson Street	Logged By - Scott Middlebrook Driller - Craig Tanicala	Geoprobe

Civil Town/City/or Village:	County:	State:	Water Level Observations:
Tecumseh	Lenawee	MI	While Drilling: Date/Time 3/11/09 00:00 ▽ Depth (ft bgs) 25 After Drilling: Date/Time 3/11/09 00:00 Depth (ft bgs) NM

SAMPLE NUMBER AND TYPE	SAMPLE RECOVERY (%)	BLOW COUNTS	DEPTH IN FEET	LITHOLOGIC DESCRIPTION	USCS	GRAPHIC LOG	WELL DIAGRAM	COMMENTS
				TOPSOIL very dark gray (10YR 3/1), moist.				
1 GP	63		2	**SILTY CLAY WITH SAND** mostly clay, some silt, little medium sand, few coarse sand, trace gravel, medium plasticity, strong brown (7.5YR 4/6), moist, stiff.	CL-ML			Pieces of steel and clay tile came up with augers while drilling well.
				SAND mostly coarse sand, some medium sand, little silt, trace gravel, pale brown (10YR 6/3), dry, dense.	SP			
			4	Crushed cobble at 3.8 feet.				
2 GP	54			**SAND** mostly coarse sand, little medium sand, trace fine sand, trace gravel, yellowish brown (10YR 5/4) to pale brown (10YR 6/3), dry, dense.				
			6					
			8	Same as above, few to little gravel at 8.0 feet.	SW			
3 GP	56		10					
			12	**SAND** mostly medium sand, some fine sand, trace coarse sand, pale brown (10YR 6/3), dry, dense.	SP			
4 GP	65		14					

SOIL BORING WELL CONSTRUCTION LOG 8070.02.GPJ RMT_CORP.GDT 8070.02 8/28/09

Signature:

Firm: RMT Inc.
3754 Ranchero Drive Ann Arbor MI 48108
(734) 971-7080
Fax (734) 971-9022

WELL CONSTRUCTION LOG

RMT

WELL NO. MW-5s

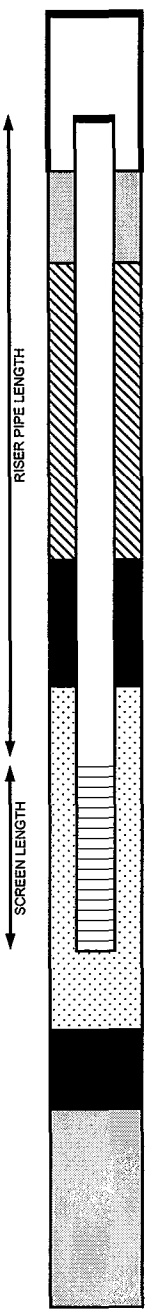
SAMPLE NUMBER AND TYPE	SAMPLE RECOVERY (%)	BLOW COUNTS	DEPTH IN FEET	LITHOLOGIC DESCRIPTION	USCS	GRAPHIC LOG	WELL DIAGRAM	COMMENTS
5 GP	71		18	Change to few to little coarse sand, trace gravel at 17.0 feet.				
			20	Change to trace coarse sand at 20.0 feet.	SP			
6 GP	63		22					
			24					
				▽				
7 GP	67		26	**SAND** mostly medium sand, some coarse sand, little fine sand, trace gravel, very dark grayish brown (10YR 3/2), saturated, dense.				
			28	Same as above.	SW			
8 GP	73		30					
			32	End of boring at 32.0 feet below ground surface.				
			34					
			36					

SOIL BORING WELL CONSTRUCTION LOG 8070.02.GPJ RMT_CORP.GDT 8070.02 8/28/09

RMT WELL CONSTRUCTION DIAGRAM

PROJ. NAME:	Tecumseh Products Co. - Tecumseh Mfg. Facility			WELL ID:	**MW-5S**
PROJ. NO:	8070.02	DATE INSTALLED:	3/11/2009	INSTALLED BY: Scot Middlebrook	CHECKED BY: BR

ELEVATION (BENCHMARK: USGS)	DEPTH BELOW OR ABOVE GROUND SURFACE (FEET)
805.70	0.0 GROUND SURFACE
805.59	0.1 TOP OF CASING
--	1.0 CEMENT SURFACE PLUG
	GROUT/BACKFILL MATERIAL: NA
	GROUT/BACKFILL METHOD: NA
24.90	-- GROUT
	BENTONITE SEAL MATERIAL: MEDIUM CHIPS
	23.5 BENTONITE SEAL
780.69	25.0 TOP OF SCREEN
	FILTER PACK MATERIAL: MEDIUM, WASHED SAND
5.00	
775.69	30.0 BOTTOM OF SCREEN
	30.0 BOTTOM OF FILTER PACK
	-- BENTONITE PLUG
	BACKFILL MATERIAL: NATURAL COLLAPSE
773.69	32.0 HOLE BOTTOM



NOTES:

LOTS OF FNE SANDS WILE DEVELOPING.

CASING AND SCREEN DETAILS

TYPE OF RISER: 2-INCH PVC

PIPE SCHEDULE: 40

PIPE JOINTS: THREADED O-RINGS

SOLVENT USED? NO

SCREEN TYPE: 2-INCH PVC

SCR. SLOT SIZE: 0.01-INCH

BOREHOLE DIAMETER:	8.0	IN. FROM	0.0	TO	30.0	FT.
	2.0	IN. FROM	30.0	TO	32.0	FT.
SURF. CASING DIAMETER:	NA	IN. FROM	NA	TO	NA	FT.
	NA	IN. FROM	NA	TO	NA	FT.

WELL DEVELOPMENT

DEVELOPMENT METHOD: SURGE AND PUMP

TIME DEVELOPING:	20	MINUTES
WATER REMOVED:	25	GALLONS
WATER ADDED:	0	GALLONS

WATER CLARITY BEFORE / AFTER DEVELOPMENT

CLARITY BEFORE: VERY TURBID

COLOR BEFORE: BROWN

CLARITY AFTER: CLEAR

COLOR AFTER: CLEAR

ODOR (IF PRESENT): NA

WATER LEVEL SUMMARY

MEASUREMENT (FEET)			DATE	TIME
DTB BEFORE DEVELOPING:	30.14	T/PVC	3/12/2009	1716
DTB AFTER DEVELOPING:	30.29	T/PVC	3/12/2009	1742
SWE BEFORE DEVELOPING:	25.00	T/PVC	3/12/2009	1716
SWE AFTER DEVELOPING:	25.01	T/PVC	3/12/2009	1742
OTHER SWE: DURING DEVEL.	25.10	T/PVC	3/12/2009	1726
OTHER SWE:		T/PVC		

PROTECTIVE CASING DETAILS

PERMANENT, LEGIBLE WELL LABEL ADDED? ☑ YES ☐ NO

PROTECTIVE COVER AND LOCK INSTALLED? ☑ YES ☐ NO

LOCK KEY NUMBER: 3120

WELL CONSTRUCTION LOG

RMT

WELL NO. MW-6s/B-6

Facility/Project Name:	Date Drilling Started:	Date Drilling Completed:	Project Number:
Tecumseh Products Company - Phase II Investigation	3/13/09	3/13/09	8070.02

Drilling Firm:	Drilling Method:	Surface Elev. (ft)	TOC Elevation (ft)	Total Depth (ft bgs)	Borehole Dia. (in)
Terraprobe, Inc.	Direct Push/HSA	---	---	28.0	2-8

Boring Location:	Personnel	Drilling Equipment:
On TPC property, on southeast of corner of Evans Street and Patterson Street in parking lot	Logged By - Scott Middlebrook Driller - Craig Tanicala	Geoprobe

Civil Town/City/or Village:	County:	State:	Water Level Observations:			
Tecumseh	Lenawee	MI	While Drilling:	Date/Time 3/13/09 00:00	▽ Depth (ft bgs)	23.5
			After Drilling:	Date/Time 3/13/09 00:00	Depth (ft bgs)	NM

SAMPLE NUMBER AND TYPE	SAMPLE RECOVERY (%)	BLOW COUNTS	DEPTH IN FEET	LITHOLOGIC DESCRIPTION	USCS	GRAPHIC LOG	WELL DIAGRAM	COMMENTS
			0	**ASPHALT**				
				ROAD GRAVEL				
1 GP	56		2	**SANDY CLAY** mostly clay, some coarse sand, little medium sand, few silt, trace gravel, medium plasticity, very dark brown (7.5YR 2.5/2), wet, stiff. Change to strong brown (7.5YR 5/6), clay content decreases and coarse sand content increases with depth.	CL			
2 GP	63		4	**SAND** mostly coarse sand, some medium sand, little fine sand, few gravel, brown (7.5YR 5/3), dry, loose.				
			6	Change to trace clay, trace silt, dark yellowish brown (10YR 4/4) at 5.5 feet.				
3 GP	54		8	Change to few to little gravel, trace crushed cobble at 8.0 feet.	SW			
			10					
			12					
4 GP	58		14	**SAND** mostly medium sand, some coarse sand, little fine sand, yellowish brown (10YR 5/4), moist, dense.	SW			
				SAND mostly coarse sand, some medium sand, few fine	SW			

SOIL BORING WELL CONSTRUCTION LOG 8070.02.GPJ RMT_CORP.GDT 8070.02 8/28/09

Signature:

Firm: RMT Inc.
3754 Ranchero Drive Ann Arbor, MI 48108
(734) 971-7080
Fax (734) 971-9022

WELL CONSTRUCTION LOG

RMT

WELL NO. MW-6s/B-6

SAMPLE NUMBER AND TYPE	SAMPLE RECOVERY (%)	BLOW COUNTS	DEPTH IN FEET	LITHOLOGIC DESCRIPTION	USCS	GRAPHIC LOG	WELL DIAGRAM	COMMENTS
				sand, trace gravel, brown (10YR 5/3), moist, loose.				
5 GP	60		18	Change to mostly medium sand, little coarse sand, dense at 18.0 feet.	SW			
			20	**SAND** mostly coarse sand, some medium sand, little fine sand, few silt, trace gravel, brown (10YR 5/3), moist, dense.				
6 GP	63		22	Change to yellowish brown (10YR 5/8) 21.5 feet.	SW			
				▽ Change to no silt, brown (7.5YR 5/3) at 23.0 feet.				
			24	**SAND** mostly medium sand, some coarse sand, little fine sand, dark grayish brown (10YR 4/2), saturated, loose.				
7 GP	73		26	Coarse sand content decreases with depth.	SW			
			28	Blind drill to 48.0 feet.				
			30					
			32					
			34					
			36					

WELL CONSTRUCTION LOG

RMT

WELL NO. MW-6s/B-6

SAMPLE NUMBER AND TYPE	SAMPLE RECOVERY (%)	BLOW COUNTS	DEPTH IN FEET	LITHOLOGIC DESCRIPTION	USCS	GRAPHIC LOG	WELL DIAGRAM	COMMENTS
			38					
			40					
			42					
			44					Groundwater sample collected at 44-48 feet.
			46					
			48	End of boring at 48.0 feet below ground surface.				
			50					
			52					
			54					
			56					
			58					

RMT WELL CONSTRUCTION DIAGRAM

PROJ. NAME:	Tecumseh Products Co. - Tecumseh Mfg. Facility			WELL ID:	**MW-6S**
PROJ. NO:	8070.02	DATE INSTALLED:	3/13/2009	INSTALLED BY: Scot Middlebrook	CHECKED BY: BR

ELEVATION (BENCHMARK: USGS)	DEPTH BELOW OR ABOVE GROUND SURFACE (FEET)
804.30	0.0 GROUND SURFACE
803.73	0.6 TOP OF CASING
--	1.0 CEMENT SURFACE PLUG
	GROUT/BACKFILL MATERIAL: NA
	GROUT/BACKFILL METHOD: NA
23.40	-- GROUT
	BENTONITE SEAL MATERIAL: MEDIUM CHIPS
	22.5 BENTONITE SEAL
780.33	24.0 TOP OF SCREEN
	FILTER PACK MATERIAL: MEDIUM, WASHED SAND
5.00	
775.33	29.0 BOTTOM OF SCREEN
	29.5 BOTTOM OF FILTER PACK
	-- BENTONITE PLUG
	BACKFILL MATERIAL: NATURAL COLLAPSE
756.33	48.0 HOLE BOTTOM

RISER PIPE LENGTH

SCREEN LENGTH

NOTES:

CASING AND SCREEN DETAILS

TYPE OF RISER: 2-INCH PVC

PIPE SCHEDULE: 40

PIPE JOINTS: THREADED O-RINGS

SOLVENT USED? NO

SCREEN TYPE: 2-INCH PVC

SCR. SLOT SIZE: 0.01-INCH

BOREHOLE DIAMETER: 8.0 IN. FROM 0.0 TO 29.5 FT.
1.0 IN. FROM 29.5 TO 48.0 FT.

SURF. CASING DIAMETER: NA IN. FROM NA TO NA FT.
NA IN. FROM NA TO NA FT.

WELL DEVELOPMENT

DEVELOPMENT METHOD: SURGE AND PUMP

TIME DEVELOPING: 30 MINUTES

WATER REMOVED: 25 GALLONS

WATER ADDED: 0 GALLONS

WATER CLARITY BEFORE / AFTER DEVELOPMENT

CLARITY BEFORE: VERY TURBID

COLOR BEFORE: BROWN

CLARITY AFTER: CLEAR

COLOR AFTER: CLEAR

ODOR (IF PRESENT): NA

WATER LEVEL SUMMARY

MEASUREMENT (FEET)			DATE	TIME
DTB BEFORE DEVELOPING:	28.49	T/PVC	3/16/2009	1314
DTB AFTER DEVELOPING:	28.49	T/PVC	3/16/2009	1354
SWE BEFORE DEVELOPING:	23.29	T/PVC	3/16/2009	1314
SWE AFTER DEVELOPING:	23.30	T/PVC	3/16/2009	1354
OTHER SWE: DURING DEVEL.	23.34	T/PVC	3/16/2009	1340
OTHER SWE:		T/PVC		

PROTECTIVE CASING DETAILS

PERMANENT, LEGIBLE WELL LABEL ADDED? ☑ YES ☐ NO

PROTECTIVE COVER AND LOCK INSTALLED? ☑ YES ☐ NO

LOCK KEY NUMBER: 3120

REVISED 03/2008

WELL CONSTRUCTION LOG

RMT

WELL NO. MW-7s/B-7

Facility/Project Name	Date Drilling Started	Date Drilling Completed	Project Number
Tecumseh Products Company - Phase II Investigation	3/16/09	3/16/09	8070.02

Drilling Firm	Drilling Method	Surface Elev. (ft)	TOC Elevation (ft)	Total Depth (ft bgs)	Borehole Dia. (in)
Terraprobe, Inc.	Direct Push/HSA	---	---	28.0	2-8

Boring Location: On TPC property, east of Evans Street, about 300 feet south of Patterson Street

Personnel: Logged By - Scott Middlebrook; Driller - Craig Tanicala

Drilling Equipment: Geoprobe

Civil Town/City/or Village	County	State
Tecumseh	Lenawee	MI

Water Level Observations:
While Drilling: Date/Time 3/16/09 00:00 ▽ Depth (ft bgs) 24
After Drilling: Date/Time 3/16/09 00:00 Depth (ft bgs) NM

SAMPLE NUMBER AND TYPE	SAMPLE RECOVERY (%)	BLOW COUNTS	DEPTH IN FEET	LITHOLOGIC DESCRIPTION	USCS	GRAPHIC LOG	WELL DIAGRAM	COMMENTS
			0	**ASPHALT, ROAD GRAVEL**				
				SAND mostly medium sand, little coarse sand, few clay, trace gravel, very dark brown (7.5YR 2.5/2), moist, dense.	SP			
1 GP	50		2	**SILTY CLAY** mostly clay, some silt, few medium sand, trace coarse sand, trace gravel, medium plasticity, strong brown (7.5YR 5/8), wet, soft. Coarse sand and gravel content increases with depth.	CL-ML			
2 GP	67		4	**SAND** mostly coarse sand, some medium sand, few gravel, little fine sand, yellowish brown (10YR 5/4) grading to pale brown (10YR 6/3), dry to moist, loose to dense.	SW			
			6					
			8					
3 GP	38		10	**SAND** mostly medium sand, some coarse sand, trace gravel, pale brown (10YR 6/3), dry, loose.				
			12	Change to little to some coarse sand, crushed cobble at 12.0 feet.	SP			
4 GP	54		14					

SOIL BORING WELL CONSTRUCTION LOG 8070.02.GPJ RMT_CORP.GDT 8070.02 8/28/09

Signature:

Firm: RMT Inc.
3754 Ranchero Drive Ann Arbor, MI 48108
(734) 971-7080
Fax (734) 971-9022

SAMPLE NUMBER AND TYPE	SAMPLE RECOVERY (%)	BLOW COUNTS	DEPTH IN FEET	LITHOLOGIC DESCRIPTION	USCS	GRAPHIC LOG	WELL DIAGRAM	COMMENTS
5 GP	67		18	Same as above, no gravel at 16.0 feet.	SP			
			20					
6 GP	65		22	**SAND** mostly coarse sand, some medium sand, little fine sand, few gravel, pale brown (10YR 6/3) grading to yellowish brown (10YR 5/8), dry, dense.	SW			
				Change to pale brown (10YR 6/3), wet at 23.0 feet.				
			24 ▽	**SAND** mostly medium sand, some coarse sand, little fine sand, grayish brown (10YR 5/3), saturated, loose.				
7 GP	69		26		SW			
			28	Blind drill to 48.0 feet.				
			30					
			32					
			34					
			36					

WELL CONSTRUCTION LOG

RMT

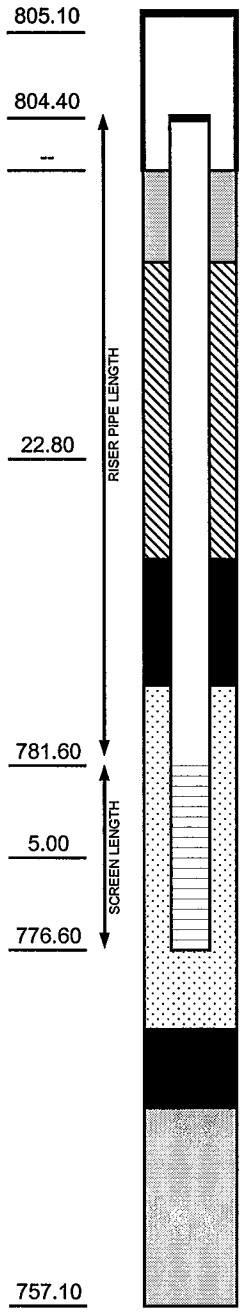
WELL NO. MW-7s/B-7

SAMPLE NUMBER AND TYPE	SAMPLE RECOVERY (%)	BLOW COUNTS	DEPTH IN FEET	LITHOLOGIC DESCRIPTION	USCS	GRAPHIC LOG	WELL DIAGRAM	COMMENTS
			38					
			40					
			42					
			44					Groundwater sample collected at 44-48 feet.
			46					
			48	End of boring at 48.0 feet below ground surface.				
			50					
			52					
			54					
			56					
			58					

RMT WELL CONSTRUCTION DIAGRAM

PROJ. NAME:	Tecumseh Products Co. - Tecumseh Mfg. Facility			WELL ID:	MW-7S
PROJ. NO:	8070.02	DATE INSTALLED:	3/16/2009	INSTALLED BY: Scot Middlebrook	CHECKED BY: BR

ELEVATION (BENCHMARK: USGS)	DEPTH BELOW OR ABOVE GROUND SURFACE (FEET)



805.10	0.0 GROUND SURFACE
804.40	0.7 TOP OF CASING
--	
	1.0 CEMENT SURFACE PLUG
	GROUT/BACKFILL MATERIAL: NA
	GROUT/BACKFILL METHOD: NA
22.80	
	-- GROUT
	BENTONITE SEAL MATERIAL: MEDIUM CHIPS
	22.5 BENTONITE SEAL
781.60	23.5 TOP OF SCREEN
	FILTER PACK MATERIAL: MEDIUM, WASHED SAND
5.00	
776.60	28.5 BOTTOM OF SCREEN
	29.0 BOTTOM OF FILTER PACK
	-- BENTONITE PLUG
	BACKFILL MATERIAL: NATURAL COLLAPSE
757.10	48.0 HOLE BOTTOM

NOTES:

SLIGHT SHEEN IN BUCKET DURING DEVELOPMENT.

CASING AND SCREEN DETAILS

TYPE OF RISER: 2-INCH PVC

PIPE SCHEDULE: 40

PIPE JOINTS: THREADED O-RINGS

SOLVENT USED? NO

SCREEN TYPE: 2-INCH PVC

SCR. SLOT SIZE: 0.01-INCH

BOREHOLE DIAMETER: 8.0 IN. FROM 0.0 TO 29.0 FT.
1.0 IN. FROM 29.0 TO 48.0 FT.

SURF. CASING DIAMETER: NA IN. FROM NA TO NA FT.
NA IN. FROM NA TO NA FT.

WELL DEVELOPMENT

DEVELOPMENT METHOD: SURGE AND PUMP

TIME DEVELOPING: 30 MINUTES

WATER REMOVED: 25 GALLONS

WATER ADDED: 0 GALLONS

WATER CLARITY BEFORE / AFTER DEVELOPMENT

CLARITY BEFORE: VERY TURBID

COLOR BEFORE: BROWN

CLARITY AFTER: CLEAR

COLOR AFTER: CLEAR

ODOR (IF PRESENT): NA

WATER LEVEL SUMMARY

MEASUREMENT (FEET)			DATE	TIME
DTB BEFORE DEVELOPING:	28.58	T/PVC	3/16/2009	1423
DTB AFTER DEVELOPING:	28.58	T/PVC	3/16/2009	1456
SWE BEFORE DEVELOPING:	23.86	T/PVC	3/16/2009	1423
SWE AFTER DEVELOPING:	23.84	T/PVC	3/16/2009	1456
OTHER SWE: DURING DEVEL.	23.92	T/PVC	3/16/2009	1451
OTHER SWE:		T/PVC		

PROTECTIVE CASING DETAILS

PERMANENT, LEGIBLE WELL LABEL ADDED? ☑ YES ☐ NO

PROTECTIVE COVER AND LOCK INSTALLED? ☑ YES ☐ NO

LOCK KEY NUMBER: 3120

WELL CONSTRUCTION LOG

RMT

WELL NO. MW-8s/B-8

Facility/Project Name:	Date Drilling Started:	Date Drilling Completed:	Project Number:
Tecumseh Products Company - Phase II Investigation	3/13/09	3/13/09	8070.02

Drilling Firm:	Drilling Method:	Surface Elev. (ft)	TOC Elevation (ft)	Total Depth (ft bgs)	Borehole Dia. (in)
Terraprobe, Inc.	Direct Push/HSA	---	---	28.0	2-8

Boring Location: On TPC property, east of Evans Street, about 700 feet south of Patterson Street

Personnel: Logged By - Scott Middlebrook; Driller - Craig Tanicala

Drilling Equipment: Geoprobe

Civil Town/City/or Village:	County:	State:
Tecumseh	Lenawee	MI

Water Level Observations:
While Drilling: Date/Time 3/13/09 00:00 ▽ Depth (ft bgs) 24
After Drilling: Date/Time 3/13/09 00:00 Depth (ft bgs) NM

SAMPLE NUMBER AND TYPE	SAMPLE RECOVERY (%)	BLOW COUNTS	DEPTH IN FEET	LITHOLOGIC DESCRIPTION	USCS	GRAPHIC LOG	WELL DIAGRAM	COMMENTS
			0	**ASPHALT**				
				ROAD GRAVEL				
				TOPSOIL roots present.				
1 GP	65		2	**SILTY CLAY WITH SAND** mostly clay, some silt, little medium sand, trace coarse sand, trace gravel, medium plasticity, dark brown (7.5YR 3/2) grades to strong brown (7.5YR 5/6), wet, soft.	CL-ML			
			4					
2 GP	54		6	**SAND** mostly coarse sand, some medium sand, few fine sand, few gravel, brown (10YR 5/3) grading to pale brown (10YR 6/3), dry to moist, loose.	SW			
			8					
3 GP	63		10	**SAND** mostly medium sand, some fine sand, trace coarse sand, dark yellowish brown (10YR 4/4), moist, loose.	SP			
			12					
4 GP	63		14	**SAND** mostly coarse sand, some medium sand, few fine sand, trace gravel, dark yellowish brown (10YR 5/4), dry, loose.	SW			
				SAND mostly medium sand, little fine sand, trace coarse	SW			

SOIL BORING WELL CONSTRUCTION LOG 8070.02.GPJ RMT_CORP.GDT 8070.02 8/28/09

Signature:

Firm: RMT Inc.
3754 Ranchero Drive Ann Arbor, MI 48108
(734) 971-7080
Fax (734) 971-9022

WELL CONSTRUCTION LOG

RMT

WELL NO. MW-8s/B-8

SAMPLE NUMBER AND TYPE	SAMPLE RECOVERY (%)	BLOW COUNTS	DEPTH IN FEET	LITHOLOGIC DESCRIPTION	USCS	GRAPHIC LOG	WELL DIAGRAM	COMMENTS
5 GP	67		18	sand, trace gravel, dark yellowish brown (10YR 5/4), moist, loose.				
			20	Same as above.				
6 GP	65		22		SW			
			24	▽ Change to wet at 23.5 feet. Change to saturated at 24.0 feet.				
7 GP	44		26	Crushed cobble at 26.0 feet.				
			28	Blind drill to 48.0 feet.				
			30					
			32					
			34					
			36					

WELL CONSTRUCTION LOG

RMT

WELL NO. MW-8s/B-8

SAMPLE NUMBER AND TYPE	SAMPLE RECOVERY (%)	BLOW COUNTS	DEPTH IN FEET	LITHOLOGIC DESCRIPTION	USCS	GRAPHIC LOG	WELL DIAGRAM	COMMENTS
			38					
			40					
			42					
			44					Groundwater sample collected at 44-48 feet.
			46					
			48	End of boring at 48.0 feet below ground surface.				
			50					
			52					
			54					
			56					
			58					

RMT WELL CONSTRUCTION DIAGRAM

PROJ. NAME:	Tecumseh Products Co. - Tecumseh Mfg. Facility			WELL ID:	MW-8S
PROJ. NO:	8070.02	DATE INSTALLED:	3/13/2009	INSTALLED BY: Scot Middlebrook	CHECKED BY: BR

ELEVATION (BENCHMARK: USGS)	DEPTH BELOW OR ABOVE GROUND SURFACE (FEET)	
804.60	0.0	GROUND SURFACE
804.39	0.2	TOP OF CASING
--	1.0	CEMENT SURFACE PLUG
		GROUT/BACKFILL MATERIAL: NA
		GROUT/BACKFILL METHOD: NA
23.30	--	GROUT
		BENTONITE SEAL MATERIAL: MEDIUM CHIPS
	22.0	BENTONITE SEAL
781.09	23.5	TOP OF SCREEN
		FILTER PACK MATERIAL: MEDIUM, WASHED SAND
5.00		
776.09	28.5	BOTTOM OF SCREEN
	29.0	BOTTOM OF FILTER PACK
	--	BENTONITE PLUG
		BACKFILL MATERIAL: NATURAL COLLAPSE
756.59	48.0	HOLE BOTTOM

RISER PIPE LENGTH

SCREEN LENGTH

NOTES:

CASING AND SCREEN DETAILS

TYPE OF RISER: 2-INCH PVC

PIPE SCHEDULE: 40

PIPE JOINTS: THREADED O-RINGS

SOLVENT USED? NO

SCREEN TYPE: 2-INCH PVC

SCR. SLOT SIZE: 0.01-INCH

BOREHOLE DIAMETER: 8.0 IN. FROM 0.0 TO 29.0 FT.
1.0 IN. FROM 29.0 TO 48.0 FT.

SURF. CASING DIAMETER: NA IN. FROM NA TO NA FT.
NA IN. FROM NA TO NA FT.

WELL DEVELOPMENT

DEVELOPMENT METHOD: SURGE AND PUMP

TIME DEVELOPING: 25 MINUTES

WATER REMOVED: 25 GALLONS

WATER ADDED: 0 GALLONS

WATER CLARITY BEFORE / AFTER DEVELOPMENT

CLARITY BEFORE: VERY TURBID

COLOR BEFORE: LIGHT BROWN

CLARITY AFTER: CLEAR

COLOR AFTER: CLEAR

ODOR (IF PRESENT): NA

WATER LEVEL SUMMARY

MEASUREMENT (FEET)			DATE	TIME
DTB BEFORE DEVELOPING:	28.13	T/PVC	3/16/2009	1209
DTB AFTER DEVELOPING:	27.17	T/PVC	3/16/2009	1246
SWE BEFORE DEVELOPING:	23.70	T/PVC	3/16/2009	1209
SWE AFTER DEVELOPING:	23.70	T/PVC	3/16/2009	1246
OTHER SWE: DURING DEVEL.	23.81	T/PVC	3/16/2009	1232
OTHER SWE:		T/PVC		

PROTECTIVE CASING DETAILS

PERMANENT, LEGIBLE WELL LABEL ADDED? ☑ YES ☐ NO

PROTECTIVE COVER AND LOCK INSTALLED? ☑ YES ☐ NO

LOCK KEY NUMBER: 3120

REVISED 03/2008

WELL CONSTRUCTION LOG

RMT

WELL NO. MW-9s

Facility/Project Name	Date Drilling Started	Date Drilling Completed	Project Number
Tecumseh Products Company - Phase II Investigation	3/16/09	3/16/09	8070.02

Drilling Firm	Drilling Method	Surface Elev. (ft)	TOC Elevation (ft)	Total Depth (ft bgs)	Borehole Dia. (in)
Terraprobe, Inc.	Direct Push/HSA	---	---	12.0	2-8

Boring Location: Along eastern side of TPC facility property, about 1000 feet south of corner of Patterson Street and Maumee Street

Personnel: Logged By - Scott Middlebrook; Driller - Craig Tanicala

Drilling Equipment: Geoprobe

Civil Town/City/or Village	County	State
Tecumseh	Lenawee	MI

Water Level Observations:
While Drilling: Date/Time 3/16/09 00:00 ▽ Depth (ft bgs) 7
After Drilling: Date/Time 3/16/09 00:00 Depth (ft bgs) NM

SAMPLE NUMBER AND TYPE	SAMPLE RECOVERY (%)	BLOW COUNTS	DEPTH IN FEET	LITHOLOGIC DESCRIPTION	USCS	GRAPHIC LOG	WELL DIAGRAM	COMMENTS
			0	**TOPSOIL**				
1 GP	79		2	**SILTY CLAY WITH SAND** mostly clay, some silt, little medium sand, few coarse sand, trace gravel, low plasticity, brown (7.5YR 4/2), moist, stiff. Change to few to little coarse sand, nonplastic, gray (7.5YR 6/1).	CL			
				Change to brown (7.5YR 4/3) at 3.5 feet.				
			4	**SAND** mostly coarse sand, some medium sand, little fine sand, trace clay, trace gravel, brown (7.5YR 4/4), wet, loose.	SW			
2 GP	85		6	**SILTY CLAY** mostly clay, some silt, trace coarse sand, medium plasticity, dark yellowish brown (10YR 4/6), dry, very stiff.	CL-ML			
				▽ **SAND** mostly medium sand, some coarse sand, little fine sand, brown (7.5YR 4/2), saturated, loose.				
3 GP	96		8		SP			
			10					
			12	Blind drill to 12.5 feet during well installation.				
				End of boring at 12.5 feet below ground surface.				
			14					

SOIL BORING WELL CONSTRUCTION LOG 8070.02.GPJ RMT_CORP.GDT 8070.02 8/26/09

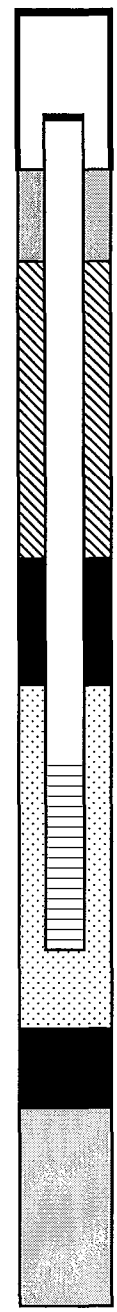
Signature:

Firm: RMT Inc.
3754 Ranchero Drive Ann Arbor, MI 48108
(734) 971-7080
Fax (734) 971-9022

RMT WELL CONSTRUCTION DIAGRAM

PROJ. NAME:	Tecumseh Products Co. - Tecumseh Mfg. Facility			WELL ID:	MW-9S
PROJ. NO:	8070.02	DATE INSTALLED:	3/16/2009 INSTALLED BY: Scot Middlebrook		CHECKED BY: BR

ELEVATION (BENCHMARK: USGS)	DEPTH BELOW OR ABOVE GROUND SURFACE (FEET)	
784.50	0.0	GROUND SURFACE
783.97	0.5	TOP OF CASING
--	1.0	CEMENT SURFACE PLUG
		GROUT/BACKFILL MATERIAL: NA
		GROUT/BACKFILL METHOD: NA
6.50		RISER PIPE LENGTH
	--	GROUT
		BENTONITE SEAL MATERIAL: MEDIUM CHIPS
	6.0	BENTONITE SEAL
777.47	7.0	TOP OF SCREEN
5.00		SCREEN LENGTH
		FILTER PACK MATERIAL: MEDIUM, WASHED SAND
772.47	12.0	BOTTOM OF SCREEN
	12.5	BOTTOM OF FILTER PACK
	--	BENTONITE PLUG
		BACKFILL MATERIAL: --
771.97	12.5	HOLE BOTTOM



NOTES:

CASING AND SCREEN DETAILS

TYPE OF RISER: 2-INCH PVC

PIPE SCHEDULE: 40

PIPE JOINTS: THREADED O-RINGS

SOLVENT USED? NO

SCREEN TYPE: 2-INCH PVC

SCR. SLOT SIZE: 0.01-INCH

BOREHOLE DIAMETER:	8.0	IN. FROM	0.0	TO	12.5	FT.
	NA	IN. FROM	NA	TO	NA	FT.
SURF. CASING DIAMETER:	NA	IN. FROM	NA	TO	NA	FT.
	NA	IN. FROM	NA	TO	NA	FT.

WELL DEVELOPMENT

DEVELOPMENT METHOD: SURGE AND PUMP

TIME DEVELOPING: 30 MINUTES

WATER REMOVED: 25 GALLONS

WATER ADDED: 0 GALLONS

WATER CLARITY BEFORE / AFTER DEVELOPMENT

CLARITY BEFORE: VERY TURBID

COLOR BEFORE: BROWN

CLARITY AFTER: CLEAR

COLOR AFTER: CLEAR

ODOR (IF PRESENT): NA

WATER LEVEL SUMMARY

MEASUREMENT (FEET)			DATE	TIME
DTB BEFORE DEVELOPING:	11.78	T/PVC	3/16/2009	1638
DTB AFTER DEVELOPING:	11.78	T/PVC	3/16/2009	1710
SWE BEFORE DEVELOPING:	4.40	T/PVC	3/16/2009	1638
SWE AFTER DEVELOPING:	4.40	T/PVC	3/16/2009	1710
OTHER SWE:		T/PVC		
OTHER SWE:		T/PVC		

PROTECTIVE CASING DETAILS

PERMANENT, LEGIBLE WELL LABEL ADDED? ☑ YES ☐ NO

PROTECTIVE COVER AND LOCK INSTALLED? ☑ YES ☐ NO

LOCK KEY NUMBER: 3120

REVISED 03/2008

WELL CONSTRUCTION LOG

RMT

WELL NO. MW-10s/B-20

Facility/Project Name:	Date Drilling Started:	Date Drilling Completed:	Project Number:
Tecumseh Products Company - Phase II Investigation	4/15/09	4/15/09	8070.02

Drilling Firm:	Drilling Method:	Surface Elev. (ft)	TOC Elevation (ft)	Total Depth (ft bgs)	Borehole Dia. (in)
Terraprobe, Inc.	Direct Push/HSA	---	---	16.0	2-8

Boring Location: On TPC property about 700 feet east of the corner of Patterson Street and Maumee Street

Personnel
Logged By - Scott Middlebrook
Driller - Joe Fotjik

Drilling Equipment: Geoprobe

Civil Town/City/or Village:	County:	State:
Tecumseh	Lenawee	MI

Water Level Observations:
While Drilling: Date/Time 4/15/09 00:00 ▽ Depth (ft bgs) 5
After Drilling: Date/Time 4/15/09 00:00 Depth (ft bgs) NM

SAMPLE NUMBER AND TYPE	SAMPLE RECOVERY (%)	BLOW COUNTS	DEPTH IN FEET	LITHOLOGIC DESCRIPTION	USCS	GRAPHIC LOG	WELL DIAGRAM	COMMENTS
			0	**TOPSOIL**				
1 GP	48		2	**SILTY CLAY WITH SAND** some silt, little coarse sand, few medium sand, low to medium plasticity, strong brown (7.5YR 5/6), moist, very stiff.	CL-ML			
				SAND mostly medium to coarse sand, wet.	SP			
			4	**SILTY CLAY WITH SAND** some silt, little coarse sand, few medium sand, low to medium plasticity, strong brown (7.5YR 5/6), moist, very stiff.	CL-ML			
2 GP	75			**SAND** mostly medium to coarse sand, wet.	SP			
				SANDY CLAY mostly clay, some silt, little coarse sand, trace medium sand, medium to low plasticity, strong brown (7.5YR 5/6), moist, very stiff.	CL			
			6	**SAND** mostly coarse sand, some medium sand, little fine sand, brown (7.5YR 4/3), saturated, loose.	SW			
				CLAY mostly clay, little silt, low plasticity, brown (7.5YR 5/3) grading to greenish gray (GLEY1 5/1), dry, hard.	CL			
			8	**SAND WITH SILT** mostly medium sand, some fine sand, little silt, greenish gray (GLEY1 5/1), saturated, dense.	SW-SC			Groundwater sample collected at 8-12 feet.
3 GP	88			**SAND** mostly medium sand, little fine sand, light greenish gray (GLEY1 7/1), saturated, medium dense.	SP			
			10					
			12	**SAND** mostly medium sand, little fine sand, trace to few coarse sand, light greenish gray (GLEY1 7/1), saturated, medium dense, coarse sand increasing with depth.	SW			
4 GP	85		14	Change to mostly medium sand, some coarse sand, little fine sand at 13.5 feet.				
			16	Blind drill to 22.0 feet.				

SOIL BORING WELL CONSTRUCTION LOG 8070.02.GPJ RMT_CORP.GDT 8070.02 8/28/09

Signature:

Firm: RMT Inc.
3754 Ranchero Drive Ann Arbor, MI 48108
(734) 971-7080
Fax (734) 971-9022

WELL CONSTRUCTION LOG

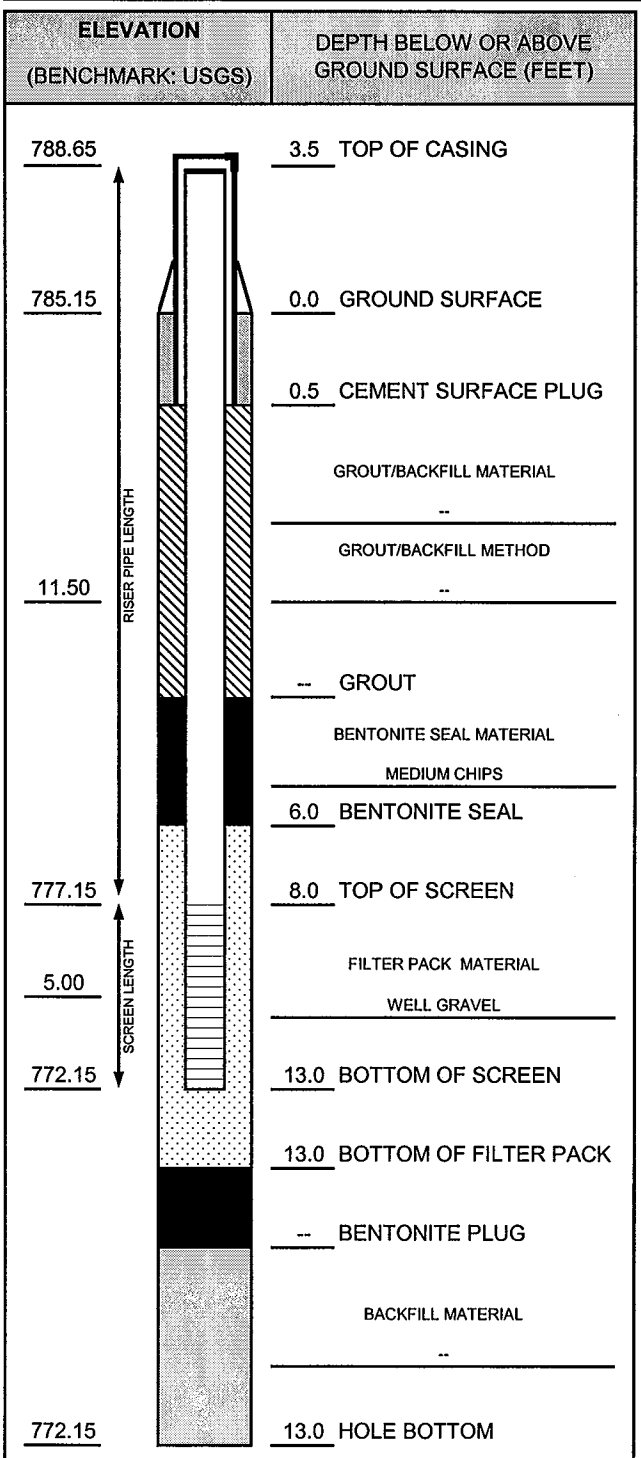
RMT

WELL NO. MW-10s/B-20

SAMPLE NUMBER AND TYPE	SAMPLE RECOVERY (%)	BLOW COUNTS	DEPTH IN FEET	LITHOLOGIC DESCRIPTION	USCS	GRAPHIC LOG	WELL DIAGRAM	COMMENTS
			18					Groundwater sample collected at 18-22 feet.
			20					
			22	End of boring at 22.0 feet below ground surface.				
			24					
			26					
			28					
			30					
			32					
			34					
			36					
			38					

RMT WELL CONSTRUCTION DIAGRAM

PROJ. NAME:	Tecumseh Products Co. - Tecumseh Mfg. Facility			WELL ID:	**MW-10S**
PROJ. NO:	8070.02	DATE INSTALLED:	5/12/2009	INSTALLED BY: Brent Ritchie	CHECKED BY: JB



NOTES:
BASED ON BORING LOG FOR B-20.

CASING AND SCREEN DETAILS

TYPE OF RISER: 2-INCH PVC

PIPE SCHEDULE: 40

PIPE JOINTS: THREADED O-RINGS

SOLVENT USED? NO

SCREEN TYPE: 2-INCH PVC

SCR. SLOT SIZE: 0.01-INCH

BOREHOLE DIAMETER: 8.0 IN. FROM 0.0 TO 13.0 FT.
NA IN. FROM NA TO NA FT.

SURF. CASING DIAMETER: NA IN. FROM NA TO NA FT.
NA IN. FROM NA TO NA FT.

WELL DEVELOPMENT

DEVELOPMENT METHOD: SURGE AND PUMP

TIME DEVELOPING: 10 MINUTES

WATER REMOVED: 15 GALLONS

WATER ADDED: 0 GALLONS

WATER CLARITY BEFORE / AFTER DEVELOPMENT

CLARITY BEFORE: VERY TURBID

COLOR BEFORE: DARK GRAY

CLARITY AFTER: SLIGHTLY TURBID

COLOR AFTER: CLEAR/TAN

ODOR (IF PRESENT): NA

WATER LEVEL SUMMARY

MEASUREMENT (FEET)			DATE	TIME
DTB BEFORE DEVELOPING:	15.26	T/PVC	5/12/2009	1710
DTB AFTER DEVELOPING:	15.34	T/PVC	5/12/2009	1725
SWE BEFORE DEVELOPING:	9.52	T/PVC	5/12/2009	1710
SWE AFTER DEVELOPING:	9.54	T/PVC	5/12/2009	1725
OTHER SWE:		T/PVC		
OTHER SWE:		T/PVC		

PROTECTIVE CASING DETAILS

PERMANENT, LEGIBLE WELL LABEL ADDED? ☑ YES ☐ NO

PROTECTIVE COVER AND LOCK INSTALLED? ☑ YES ☐ NO

LOCK KEY NUMBER: 3120

REVISED 03/2008

WELL CONSTRUCTION LOG

RMT

WELL NO. MW-11s/B-13

Facility/Project Name:	Date Drilling Started:	Date Drilling Completed:	Project Number:
Tecumseh Products Company - Phase II Investigation	5/14/09	5/14/09	8070.02

Drilling Firm:	Drilling Method:	Surface Elev. (ft)	TOC Elevation (ft)	Total Depth (ft bgs)	Borehole Dia. (in)
Terraprobe, Inc.	Direct Push/HSA	---	---	36.0	2-8

Boring Location: In ROW on the east side of Pearl, south of intersection with Patterson Street

Personnel
Logged By - Brent Ritchie
Driller - Joe Fotjik

Drilling Equipment: Geoprobe

Civil Town/City/or Village:	County:	State:
Tecumseh	Lenawee	MI

Water Level Observations:
While Drilling: Date/Time 5/14/09 00:00 ▽ Depth (ft bgs) 28
After Drilling: Date/Time 5/14/09 00:00 Depth (ft bgs) NM

SAMPLE NUMBER AND TYPE	SAMPLE RECOVERY (%)	BLOW COUNTS	DEPTH IN FEET	LITHOLOGIC DESCRIPTION	USCS	GRAPHIC LOG	WELL DIAGRAM	COMMENTS
			0	**TOPSOIL**				
1 GP	40		2	**SANDY SILTY CLAY** mostly clay, some silt, little to some fine to medium sand, few gravel, trace roots, medium plasticity, dark yellowish brown (10YR 4/4), damp, medium stiff.	CL-ML			Crushed rock in liner, very little soil recovery at 4.0 feet.
2 GP	10		4					
			6					
			8	**SAND** mostly coarse sand, few fine to medium sand, trace fine gravel, yellowish brown (10YR 5/8), damp, loose to medium dense.	SP			
3 GP	60		10					
			12	Change to moist to wet at 13.0 feet.				
4 GP	60		14	**SAND** mostly fine to coarse sand, few fine to coarse gravel, yellowish brown (10YR 5/8), damp, loose to medium dense.	SW			

SOIL BORING WELL CONSTRUCTION LOG 8070.02.GPJ RMT_CORP.GDT 8070.02 8/26/09

Signature:

Firm: RMT Inc.
3754 Ranchero Drive Ann Arbor, MI 48108
(734) 971-7080
Fax (734) 971-9022

WELL CONSTRUCTION LOG

RMT

WELL NO. MW-11s/B-13

SAMPLE NUMBER AND TYPE	SAMPLE RECOVERY (%)	BLOW COUNTS	DEPTH IN FEET	LITHOLOGIC DESCRIPTION	USCS	GRAPHIC LOG	WELL DIAGRAM	COMMENTS
				Change to moist at 16.0 feet.				
5 GP	60		18					
			20					No soil recovery due to rock in shoe, dry.
6 GP	0		22					
			24	Same as above.				
7 GP	50		26		SW			
			28	▽ Change to few to little fine gravel, few medium to coarse gravel, saturated at 28.0 feet.				
8 GP	50		30					Groundwater sample collected at 29-33 feet.
			32					
9 GP	71		34					
			36	Blind drill to 50.0 feet.				

SOIL BORING WELL CONSTRUCTION LOG 8070.02.GPJ RMT_CORP.GDT 8070.02 8/26/09

WELL CONSTRUCTION LOG

RMT

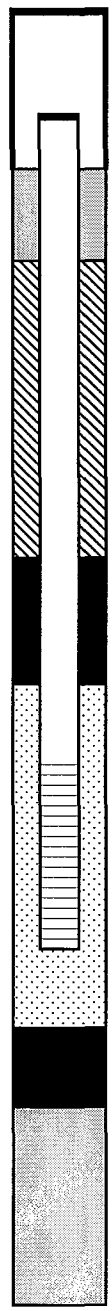
WELL NO. MW-11s/B-13

SAMPLE NUMBER AND TYPE	SAMPLE RECOVERY (%)	BLOW COUNTS	DEPTH IN FEET	LITHOLOGIC DESCRIPTION	USCS	GRAPHIC LOG	WELL DIAGRAM	COMMENTS
			38					
			40					
			42					
			44					
			46					Groundwater sample collected at 46-50 feet.
			48					
			50	End of boring at 50.0 feet below ground surface.				
			52					
			54					
			56					
			58					

RMT WELL CONSTRUCTION DIAGRAM

PROJ. NAME:	Tecumseh Products Co. - Tecumseh Mfg. Facility			WELL ID:	**MW-11S**
PROJ. NO:	8070.02	DATE INSTALLED:	5/14/2009 INSTALLED BY: Brent Ritchie		CHECKED BY: JB

ELEVATION (BENCHMARK: USGS)	DEPTH BELOW OR ABOVE GROUND SURFACE (FEET)	
810.20	0.0	GROUND SURFACE
809.64	0.6	TOP OF CASING
--	0.5	CEMENT SURFACE PLUG
		GROUT/BACKFILL MATERIAL: --
		GROUT/BACKFILL METHOD: --
28.40		RISER PIPE LENGTH
	--	GROUT
		BENTONITE SEAL MATERIAL: MEDIUM CHIPS
	27.0	BENTONITE SEAL
781.24	29.0	TOP OF SCREEN
5.00		SCREEN LENGTH
		FILTER PACK MATERIAL: WELL GRAVEL
776.24	34.0	BOTTOM OF SCREEN
	34.0	BOTTOM OF FILTER PACK
	--	BENTONITE PLUG
		BACKFILL MATERIAL: NATURAL COLLAPSE
774.24	36.0	HOLE BOTTOM



NOTES:

CASING AND SCREEN DETAILS

TYPE OF RISER: 2-INCH PVC

PIPE SCHEDULE: 40

PIPE JOINTS: THREADED O-RINGS

SOLVENT USED? NO

SCREEN TYPE: 2-INCH PVC

SCR. SLOT SIZE: 0.01-INCH

BOREHOLE DIAMETER: 8.0 IN. FROM 0.0 TO 34.0 FT.
2.0 IN. FROM 34.0 TO 36.0 FT.

SURF. CASING DIAMETER: NA IN. FROM NA TO NA FT.
NA IN. FROM NA TO NA FT.

WELL DEVELOPMENT

DEVELOPMENT METHOD: SURGE AND PUMP

TIME DEVELOPING: 1 HOURS

WATER REMOVED: 3 GALLONS

WATER ADDED: 0 GALLONS

WATER CLARITY BEFORE / AFTER DEVELOPMENT

CLARITY BEFORE: VERY TURBID

COLOR BEFORE: YELLOWISH BROWN

CLARITY AFTER: SLIGHT TURBIDITY

COLOR AFTER: CLEAR

ODOR (IF PRESENT): NA

WATER LEVEL SUMMARY

MEASUREMENT (FEET)			DATE	TIME
DTB BEFORE DEVELOPING:	33.41	T/PVC	5/14/2009	1503
DTB AFTER DEVELOPING:	33.42	T/PVC	5/14/2009	1610
SWE BEFORE DEVELOPING:	28.26	T/PVC	5/14/2009	1503
SWE AFTER DEVELOPING:	28.25	T/PVC	5/14/2009	1610
OTHER SWE:		T/PVC		
OTHER SWE:		T/PVC		

PROTECTIVE CASING DETAILS

PERMANENT, LEGIBLE WELL LABEL ADDED? ☑ YES ☐ NO

PROTECTIVE COVER AND LOCK INSTALLED? ☑ YES ☐ NO

LOCK KEY NUMBER: 3120

REVISED 03/2008

WELL CONSTRUCTION LOG

RMT

WELL NO. MW-12s/B-37

Facility/Project Name:	Date Drilling Started:	Date Drilling Completed:	Project Number:
Tecumseh Products Company - Phase II Investigation	5/12/09	5/12/09	8070.02

Drilling Firm:	Drilling Method:	Surface Elev. (ft)	TOC Elevation (ft)	Total Depth (ft bgs)	Borehole Dia. (in)
Terraprobe, Inc.	Direct Push/HSA	---	---	43.0	2-8

Boring Location:	Personnel	Drilling Equipment:
In ROW on southeast corner of Potawatamee Street and Maumee Street	Logged By - Brent Ritchie Driller - Joe Fotjik	Geoprobe

Civil Town/City/or Village:	County:	State:	Water Level Observations:
Tecumseh	Lenawee	MI	While Drilling: Date/Time 5/12/09 00:00 ▽ Depth (ft bgs) 6 After Drilling: Date/Time 5/12/09 00:00 Depth (ft bgs) NM

SAMPLE NUMBER AND TYPE	SAMPLE RECOVERY (%)	BLOW COUNTS	DEPTH IN FEET	LITHOLOGIC DESCRIPTION	USCS	GRAPHIC LOG	WELL DIAGRAM	COMMENTS
			0	**TOPSOIL**				
1 GP	42		2	**SILTY SAND WITH CLAY** mostly fine to coarse sand, little to some silt, few to little clay, few fine to medium gravel, yellowish brown (10YR 5/4), damp, medium dense.	SM			
			4	Change to little to some clay at 4.0 feet.				
2 GP	71		6 ▽	**SAND** mostly fine to coarse sand, few silt, light yellowish brown (10YR 6/4), moist, medium dense. Change to saturated at 6.0 feet.	SW			
			8	**SILT WITH CLAY** mostly silt, few to little clay, few fine sand, light yellowish brown (10YR 6/4), medium stiff to stiff.	ML			
				SAND mostly fine to coarse sand, few silt, light yellowish brown (10YR 6/4), moist, medium dense.	SW			
3 GP	71		10	**SANDY GRAVEL** mostly fine to coarse gravel, some fine to coarse sand, trace silt, trace clay, yellowish brown (10YR 5/4), moist, dense.	GW			
			12	Change to saturated at 12.5 feet.				
4 GP	81		14	Above grades to sand with gravel.				
				SAND WITH GRAVEL mostly fine to coarse sand, little fine to medium gravel, trace silt, brown (10YR 5/3), saturated, loose to medium dense.	SW			

SOIL BORING WELL CONSTRUCTION LOG 8070.02.GPJ RMT_CORP.GDT 8070.02 8/28/09

Signature:

Firm: RMT Inc.
3754 Ranchero Drive Ann Arbor, MI 48108
(734) 971-7080
Fax (734) 971-9022

WELL CONSTRUCTION LOG

RMT

WELL NO. MW-12s/B-37

SAMPLE NUMBER AND TYPE	SAMPLE RECOVERY (%)	BLOW COUNTS	DEPTH IN FEET	LITHOLOGIC DESCRIPTION	USCS	GRAPHIC LOG	WELL DIAGRAM	COMMENTS
5 GP	100		18	Same as above.				
			20	Same as above.	SW			
6 GP	100		22					
			24	**GRAVEL** mostly fine to medium gravel, little to some coarse gravel, trace fine to coarse sand, brown (10YR 5/3), saturated, loose to medium dense.				
7 GP	100		26					
			28	Same as above.				
8 GP	100		30	Change to yellowish brown (10YR 5/8) at 29.0 feet.	GW			
			32	Change to gray (10YR 5/1) at 32.0 feet.				
9 MC	80		34					
			36					

WELL CONSTRUCTION LOG

RMT

WELL NO. MW-12s/B-37

SAMPLE NUMBER AND TYPE	SAMPLE RECOVERY (%)	BLOW COUNTS	DEPTH IN FEET	LITHOLOGIC DESCRIPTION	USCS	GRAPHIC LOG	WELL DIAGRAM	COMMENTS
			38	Blind drill to 43.0 feet.				Groundwater sample collected at 38.5-42.5 feet.
			40					
			42	Drilling change at 41.0 feet indicating likely change to clay.				
			44	End of boring at 43.0 feet below ground surface.				
			46					
			48					
			50					
			52					
			54					
			56					
			58					

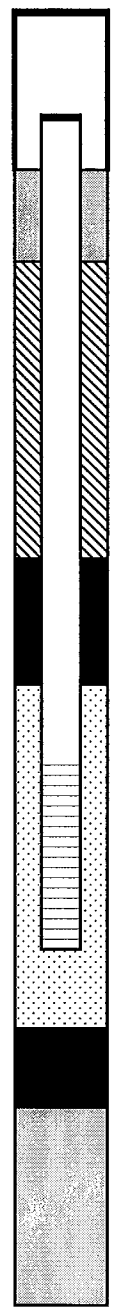
RMT WELL CONSTRUCTION DIAGRAM

PROJ. NAME:	Tecumseh Products Co. - Tecumseh Mfg. Facility			WELL ID:	**MW-12S**
PROJ. NO:	8070.02	DATE INSTALLED:	5/12/2009 INSTALLED BY: Brent Ritchie		CHECKED BY: JB

ELEVATION (BENCHMARK: USGS)	DEPTH BELOW OR ABOVE GROUND SURFACE (FEET)	
791.20	0.0	GROUND SURFACE
790.90	0.3	TOP OF CASING
--	0.5	CEMENT SURFACE PLUG
		GROUT/BACKFILL MATERIAL: --
		GROUT/BACKFILL METHOD: --
11.70	--	GROUT
		BENTONITE SEAL MATERIAL: MEDIUM CHIPS
	10.0	BENTONITE SEAL
779.20	12.0	TOP OF SCREEN
5.00		FILTER PACK MATERIAL: WELL GRAVEL
774.20	17.0	BOTTOM OF SCREEN
	17.0	BOTTOM OF FILTER PACK
	--	BENTONITE PLUG
		BACKFILL MATERIAL: NATURAL COLLAPSE
748.70	42.5	HOLE BOTTOM

RISER PIPE LENGTH

SCREEN LENGTH



NOTES:

CASING AND SCREEN DETAILS

TYPE OF RISER: 2-INCH PVC

PIPE SCHEDULE: 40

PIPE JOINTS: THREADED O-RINGS

SOLVENT USED? NO

SCREEN TYPE: 2-INCH PVC

SCR. SLOT SIZE: 0.01-INCH

BOREHOLE DIAMETER:

8.0	IN. FROM	0.0	TO	17.0	FT.
2.0	IN. FROM	17.0	TO	37.0	FT.
1.0	IN. FROM	37.0	TO	42.5	FT.
NA	IN. FROM	NA	TO	NA	FT.

WELL DEVELOPMENT

DEVELOPMENT METHOD: SURGE AND PUMP

TIME DEVELOPING: 10 MINUTES

WATER REMOVED: 12.5 GALLONS

WATER ADDED: 0 GALLONS

WATER CLARITY BEFORE / AFTER DEVELOPMENT

CLARITY BEFORE: VERY TURBID

COLOR BEFORE: YELLOWISH BROWN

CLARITY AFTER: SLIGHTLY TURBID

COLOR AFTER: CLEAN/TAN

ODOR (IF PRESENT): NA

WATER LEVEL SUMMARY

MEASUREMENT (FEET)			DATE	TIME
DTB BEFORE DEVELOPING:	16.81	T/PVC	5/12/2009	1518
DTB AFTER DEVELOPING:	16.81	T/PVC	5/12/2009	1538
SWE BEFORE DEVELOPING:	12.39	T/PVC	5/12/2009	1518
SWE AFTER DEVELOPING:	12.39	T/PVC	5/12/2009	1538
OTHER SWE:		T/PVC		
OTHER SWE:		T/PVC		

PROTECTIVE CASING DETAILS

PERMANENT, LEGIBLE WELL LABEL ADDED? ☑ YES ☐ NO

PROTECTIVE COVER AND LOCK INSTALLED? ☑ YES ☐ NO

LOCK KEY NUMBER: 3120

REVISED 03/2008

WELL CONSTRUCTION LOG

RMT

WELL NO. MW-13s/B-41

Facility/Project Name:	Date Drilling Started:	Date Drilling Completed:	Project Number:
Tecumseh Products Company - Phase II Investigation	5/12/09	5/12/09	8070.02

Drilling Firm:	Drilling Method:	Surface Elev. (ft)	TOC Elevation (ft)	Total Depth (ft bgs)	Borehole Dia. (in)
Terraprobe, Inc.	Direct Push/HSA	---	---	20.0	2-8

Boring Location:	Personnel	Drilling Equipment:
On east side of Division Street, south of Chicago Blvd, in front of Pine Terrace Apartments	Logged By - Brent Ritchie Driller - Joe Fotjik	Geoprobe

Civil Town/City/or Village:	County:	State:	Water Level Observations:
Tecumseh	Lenawee	MI	While Drilling: Date/Time 5/12/09 00:00 ▽ Depth (ft bgs) 5.5 After Drilling: Date/Time 5/12/09 00:00 Depth (ft bgs) NM

SAMPLE NUMBER AND TYPE	SAMPLE RECOVERY (%)	BLOW COUNTS	DEPTH IN FEET	LITHOLOGIC DESCRIPTION	USCS	GRAPHIC LOG	WELL DIAGRAM	COMMENTS
			0	**TOPSOIL**				
1 GP	50		2	**SAND WITH SILT AND CLAY** mostly fine to coarse sand, little silt, little clay, trace to few fine to medium gravel, dark yellowish brown (10YR 4/4), damp, medium dense.	SW-SM			
			4	**SILT WITH CLAY** mostly silt, little clay, trace fine sand, light yellowish brown (10YR 6/4), dry to damp, medium stiff.	ML			
				SAND mostly fine to coarse sand, trace to few silt, trace to few fine to medium gravel, brown (10YR 5/3), damp to moist, ▽ medium dense.	SW			
2 GP	80		6	**SILTY CLAY** trace fine sand, medium plasticity, brownish yellow (10YR 6/6), saturated, medium stiff. Change to moist at 6.0 feet. Change to gray (10YR 5/1) at 6.5 feet.	CL-ML			
			8	Change to mostly silt, wet at 8.5 feet.				
				SANDY SILT some fine sand, yellow (10YR 7/6), moist to wet, medium stiff.	ML			
3 GP	80		10	**SAND** mostly fine to coarse sand, few silt, light yellowish brown (10YR 6/4), moist to wet, medium dense.				
			12		SW			
4 GP	80		14	Above grades to mostly medium to coarse sand, trace fine gravel, grayish brown (10YR 5/2), saturated at 14.0 feet.				

SOIL BORING WELL CONSTRUCTION LOG 8070.02.GPJ RMT_CORP.GDT 8070.02 8/26/09

Signature: [signature]

Firm: RMT Inc.
3754 Ranchero Drive Ann Arbor, MI 48108
(734) 971-7080
Fax (734) 971-9022

WELL CONSTRUCTION LOG

RMT

WELL NO. MW-13s/B-41

SAMPLE NUMBER AND TYPE	SAMPLE RECOVERY (%)	BLOW COUNTS	DEPTH IN FEET	LITHOLOGIC DESCRIPTION	USCS	GRAPHIC LOG	WELL DIAGRAM	COMMENTS
				Change to mostly fine to medium sand at 16.0 feet.	SW			
5 GP	100		18	**SILTY CLAY** plastic to high plasticity, gray (10YR 5/1), saturated, soft. Change to moist to wet, medium stiff at 19.0 feet.	CL-ML			
			20	End of boring at 20.0 feet below ground surface.				
			22					
			24					
			26					
			28					
			30					
			32					
			34					
			36					

RMT WELL CONSTRUCTION DIAGRAM

PROJ. NAME:	Tecumseh Products Co. - Tecumseh Mfg. Facility			WELL ID:	MW-13S
PROJ. NO:	8070.02	DATE INSTALLED:	5/12/2009 INSTALLED BY: Brent Ritchie		CHECKED BY: JB

ELEVATION (BENCHMARK: USGS)	DEPTH BELOW OR ABOVE GROUND SURFACE (FEET)
787.70	0.0 GROUND SURFACE
787.35	0.4 TOP OF CASING
--	
	0.5 CEMENT SURFACE PLUG
	GROUT/BACKFILL MATERIAL
	--
	GROUT/BACKFILL METHOD
12.60	--
	-- GROUT
	BENTONITE SEAL MATERIAL
	MEDIUM CHIPS
	11.0 BENTONITE SEAL
774.75	13.0 TOP OF SCREEN
	FILTER PACK MATERIAL
5.00	WELL GRAVEL
769.75	18.0 BOTTOM OF SCREEN
	18.0 BOTTOM OF FILTER PACK
	-- BENTONITE PLUG
	BACKFILL MATERIAL
	NATURAL COLLAPSE
767.75	20.0 HOLE BOTTOM

RISER PIPE LENGTH

SCREEN LENGTH

NOTES:

CASING AND SCREEN DETAILS

TYPE OF RISER: 2-INCH PVC

PIPE SCHEDULE: 40

PIPE JOINTS: THREADED O-RINGS

SOLVENT USED? NO

SCREEN TYPE: 2-INCH PVC

SCR. SLOT SIZE: 0.01-INCH

BOREHOLE DIAMETER: 8.0 IN. FROM 0.0 TO 18.0 FT.
2.0 IN. FROM 18.0 TO 20.0 FT.

SURF. CASING DIAMETER: NA IN. FROM NA TO NA FT.
NA IN. FROM NA TO NA FT.

WELL DEVELOPMENT

DEVELOPMENT METHOD: SURGE AND PUMP

TIME DEVELOPING: 5 MINUTES

WATER REMOVED: 7.5 GALLONS

WATER ADDED: 0 GALLONS

WATER CLARITY BEFORE / AFTER DEVELOPMENT

CLARITY BEFORE: VERY TURBID

COLOR BEFORE: DARK GRAY

CLARITY AFTER: SLIGHTLY TURBID

COLOR AFTER: MOSLTY CLEAR

ODOR (IF PRESENT): NA

WATER LEVEL SUMMARY

MEASUREMENT (FEET)			DATE	TIME
DTB BEFORE DEVELOPING:	17.74	T/PVC	5/12/2009	1005
DTB AFTER DEVELOPING:	17.74	T/PVC	5/12/2009	1025
SWE BEFORE DEVELOPING:	14.74	T/PVC	5/12/2009	1005
SWE AFTER DEVELOPING:	14.77	T/PVC	5/12/2009	1025
OTHER SWE:	NA	T/PVC	NA	NA
OTHER SWE:	NA	T/PVC	NA	NA

PROTECTIVE CASING DETAILS

PERMANENT, LEGIBLE WELL LABEL ADDED? ☑ YES ☐ NO

PROTECTIVE COVER AND LOCK INSTALLED? ☑ YES ☐ NO

LOCK KEY NUMBER: 3120

REVISED 03/2008

WELL CONSTRUCTION LOG

RMT

WELL NO. MW-14s

Facility/Project Name:	Date Drilling Started:	Date Drilling Completed:	Project Number:
Tecumseh Products Company - Phase II Investigation	5/14/09	5/14/09	8070.02

Drilling Firm:	Drilling Method:	Surface Elev. (ft)	TOC Elevation (ft)	Total Depth (ft bgs)	Borehole Dia. (in)
Terraprobe, Inc.	Direct Push/HSA	---	---	19.0	2-8

Boring Location: Southeast corner of the Mohawk Street, Mill Highway, and Blood Street intersection

Personnel
Logged By - Brent Ritchie
Driller - Joe Fotjik

Drilling Equipment: Geoprobe

Civil Town/City/or Village:	County:	State:
Tecumseh	Lenawee	MI

Water Level Observations:
While Drilling: Date/Time 5/14/09 00:00 ▽ Depth (ft bgs) 4.5
After Drilling: Date/Time 5/14/09 00:00 Depth (ft bgs) NM

SAMPLE NUMBER AND TYPE	SAMPLE RECOVERY (%)	BLOW COUNTS	DEPTH IN FEET	LITHOLOGIC DESCRIPTION	USCS	GRAPHIC LOG	WELL DIAGRAM	COMMENTS
			0	**TOPSOIL**				
1 GP	50		2	**SILTY SAND WITH CLAY** mostly fine to coarse sand, little to some silt, little clay, few fine gravel, yellowish brown (10YR 5/4), damp to moist, medium dense.	SW			
			4	**SAND WITH SILT** mostly fine sand, little silt, trace to few clay, light yellowish brown (10YR 6/4), moist, medium dense to dense. ▽ Change to saturated at 4.5 feet.				
2 GP	79		6	Change few clay at 6.0 feet. Above grades to trace to few medium sand at 6.5 feet.	SP-SM			
			8					
3 GP	100		10	**SILTY CLAY** trace to few medium gravel, medium plasticity, gray (10YR 5/1), moist, stiff. 1-inch thick layer of wet gravelly sand at 10.5 feet.				
			12					
4 GP	100		14		CL-ML			
			16	Same as above.				
5 GP	100		18	3-inch thick layer of saturated sandy gravel at 18.0 feet.				
				End of boring at 19.0 feet below ground surface.				

SOIL BORING WELL CONSTRUCTION LOG 8070.02.GPJ RMT_CORP.GDT 8070.02 8/26/09

Signature:

Firm: RMT Inc.
3754 Ranchero Drive Ann Arbor, MI 48108
(734) 971-7080
Fax (734) 971-9022

RMT WELL CONSTRUCTION DIAGRAM

PROJ. NAME:	Tecumseh Products Co. - Tecumseh Mfg. Facility			WELL ID:	**MW-14S**
PROJ. NO:	8070.02	DATE INSTALLED:	5/14/2009 INSTALLED BY: Brent Ritchie		CHECKED BY: JB

ELEVATION (BENCHMARK: USGS)	DEPTH BELOW OR ABOVE GROUND SURFACE (FEET)	
780.90	0.0	GROUND SURFACE
780.67	0.2	TOP OF CASING
--	0.5	CEMENT SURFACE PLUG
		GROUT/BACKFILL MATERIAL: --
		GROUT/BACKFILL METHOD: --
3.80	--	GROUT
		BENTONITE SEAL MATERIAL: MEDIUM CHIPS
	3.0	BENTONITE SEAL
776.87	4.0	TOP OF SCREEN
		FILTER PACK MATERIAL: WELL GRAVEL
5.00		
771.87	9.0	BOTTOM OF SCREEN
	9.0	BOTTOM OF FILTER PACK
	--	BENTONITE PLUG
		BACKFILL MATERIAL: NATURAL COLLAPSE
761.87	19.0	HOLE BOTTOM

RISER PIPE LENGTH

SCREEN LENGTH

NOTES:

CASING AND SCREEN DETAILS

TYPE OF RISER: 2-INCH PVC

PIPE SCHEDULE: 40

PIPE JOINTS: THREADED O-RINGS

SOLVENT USED? NO

SCREEN TYPE: 2-INCH PVC

SCR. SLOT SIZE: 0.01-INCH

BOREHOLE DIAMETER: 8.0 IN. FROM 0.0 TO 9.0 FT.
2.0 IN. FROM 9.0 TO 19.0 FT.

SURF. CASING DIAMETER: NA IN. FROM NA TO NA FT.
NA IN. FROM NA TO NA FT.

WELL DEVELOPMENT

DEVELOPMENT METHOD: SURGE AND PUMP

TIME DEVELOPING: 20 MINUTES

WATER REMOVED: 10 GALLONS

WATER ADDED: 0 GALLONS

WATER CLARITY BEFORE / AFTER DEVELOPMENT

CLARITY BEFORE: TURBID

COLOR BEFORE: LIGHT YELLOWISH BROWN

CLARITY AFTER: SLIGHT TURBIDITY

COLOR AFTER: CLEAR/TAN

ODOR (IF PRESENT): NA

WATER LEVEL SUMMARY

MEASUREMENT (FEET)			DATE	TIME
DTB BEFORE DEVELOPING:	NM	T/PVC	5/14/2009	952
DTB AFTER DEVELOPING:	NM	T/PVC	5/14/2009	1015
SWE BEFORE DEVELOPING:	4.87	T/PVC	5/14/2009	952
SWE AFTER DEVELOPING:	4.85	T/PVC	5/14/2009	1015
OTHER SWE:		T/PVC		
OTHER SWE:		T/PVC		

PROTECTIVE CASING DETAILS

PERMANENT, LEGIBLE WELL LABEL ADDED? ☑ YES ☐ NO

PROTECTIVE COVER AND LOCK INSTALLED? ☑ YES ☐ NO

LOCK KEY NUMBER: 3120

REVISED 03/2008

WELL CONSTRUCTION LOG

RMT

WELL NO. MW-15s

Facility/Project Name:	Date Drilling Started:	Date Drilling Completed:	Project Number:
Tecumseh Products Company - Phase II Investigation	5/15/09	5/15/09	8070.02

Drilling Firm:	Drilling Method:	Surface Elev. (ft)	TOC Elevation (ft)	Total Depth (ft bgs)	Borehole Dia. (in)
Terraprobe, Inc.	Direct Push/HSA	---	---	36.0	2-8

Boring Location:	Personnel	Drilling Equipment:
On Union Street, east side of road, south of Patterson Street	Logged By - Brent Ritchie Driller - Joe Fotjik	Geoprobe

Civil Town/City/or Village:	County:	State:	Water Level Observations:
Tecumseh	Lenawee	MI	While Drilling: Date/Time 5/15/09 00:00 ▽ Depth (ft bgs) 29 After Drilling: Date/Time 5/15/09 00:00 Depth (ft bgs) NM

SAMPLE NUMBER AND TYPE	SAMPLE RECOVERY (%)	BLOW COUNTS	DEPTH IN FEET	LITHOLOGIC DESCRIPTION	USCS	GRAPHIC LOG	WELL DIAGRAM	COMMENTS
				TOPSOIL				
1 GP	40		2	**SANDY SILTY CLAY** some fine to coarse sand, trace fine gravel, high plasticity, yellowish brown (10YR 5/6), wet, soft.	CL-ML			
2 GP	50		4 6	**GRAVELLY SAND** mostly fine to coarse sand, some fine to coarse gravel, brownish yellow (10YR 6/6), moist, medium dense.	SW			
3 GP	50		8 10	**SAND** mostly medium to coarse sand, few to little fine gravel, few fine sand, light yellowish brown (10YR 6/4), moist, medium dense to dense.				
4 GP	70		12 14	Change to few to little fine to medium gravel at 12.0 feet.	SW			

SOIL BORING WELL CONSTRUCTION LOG 8070.02.GPJ RMT_CORP.GDT 8070.02 8/26/09

Signature:

Firm: RMT Inc.
3754 Ranchero Drive Ann Arbor, MI 48108
(734) 971-7080
Fax (734) 971-9022

WELL CONSTRUCTION LOG

RMT

WELL NO. MW-15s

SAMPLE NUMBER AND TYPE	SAMPLE RECOVERY (%)	BLOW COUNTS	DEPTH IN FEET	LITHOLOGIC DESCRIPTION	USCS	GRAPHIC LOG	WELL DIAGRAM	COMMENTS
				Same as above.				
5 GP	70		18					
				Change to dense at 19.5 feet.				
			20	Change to few fine to medium gravel, wet at 20.0 feet.				
6 GP	70		22					
			24	Same as above.				
7 GP	70		26		SW			
			28					
				▽ Change to saturated at 29.0 feet.				
8 GP	70		30					
			32	Same as above.				
9 GP	90		34					
			36	End of boring at 36.0 feet below ground surface.				

SOIL BORING WELL CONSTRUCTION LOG 8070.02.GPJ RMT_CORP.GDT 8070.02 8/26/09

RMT WELL CONSTRUCTION DIAGRAM

PROJ. NAME:	Tecumseh Products Co. - Tecumseh Mfg. Facility			WELL ID:	MW-15S
PROJ. NO:	8070.02	DATE INSTALLED:	5/15/2009	INSTALLED BY: Brent Ritchie	CHECKED BY: JB

ELEVATION (BENCHMARK: USGS)	DEPTH BELOW OR ABOVE GROUND SURFACE (FEET)
811.90	0.0 GROUND SURFACE
811.72	0.2 TOP OF CASING
--	
	0.5 CEMENT SURFACE PLUG
	GROUT/BACKFILL MATERIAL: --
	GROUT/BACKFILL METHOD: --
29.80	
	-- GROUT
	BENTONITE SEAL MATERIAL: MEDIUM CHIPS
	28.0 BENTONITE SEAL
781.92	30.0 TOP OF SCREEN
	FILTER PACK MATERIAL: WELL GRAVEL
5.00	
776.92	35.0 BOTTOM OF SCREEN
	35.0 BOTTOM OF FILTER PACK
	-- BENTONITE PLUG
	BACKFILL MATERIAL: NATURAL COLLAPSE
775.92	36.0 HOLE BOTTOM

RISER PIPE LENGTH

SCREEN LENGTH

NOTES:

CASING AND SCREEN DETAILS

TYPE OF RISER: 2-INCH PVC

PIPE SCHEDULE: 40

PIPE JOINTS: THREADED O-RINGS

SOLVENT USED? NO

SCREEN TYPE: 2-INCH PVC

SCR. SLOT SIZE: 0.01-INCH

BOREHOLE DIAMETER: 8.0 IN. FROM 0.0 TO 35.0 FT.
2.0 IN. FROM 35.0 TO 36.0 FT.

SURF. CASING DIAMETER: NM IN. FROM NM TO NM FT.
NA IN. FROM NA TO NA FT.

WELL DEVELOPMENT

DEVELOPMENT METHOD: SURGE AND BAIL

TIME DEVELOPING: 0.5 HOURS

WATER REMOVED: 10 GALLONS

WATER ADDED: 0 GALLONS

WATER CLARITY BEFORE / AFTER DEVELOPMENT

CLARITY BEFORE: VERY TURBID

COLOR BEFORE: YELLOWISH BROWN

CLARITY AFTER: VERY TURBID

COLOR AFTER: YELLOWISH BROWN

ODOR (IF PRESENT): NA

WATER LEVEL SUMMARY

MEASUREMENT (FEET)			DATE	TIME
DTB BEFORE DEVELOPING:	34.65	T/PVC	5/15/2009	1035
DTB AFTER DEVELOPING:	34.66	T/PVC	5/15/2009	1102
SWE BEFORE DEVELOPING:	29.65	T/PVC	5/15/2009	1035
SWE AFTER DEVELOPING:	29.65	T/PVC	5/15/2009	1102
OTHER SWE:		T/PVC		
OTHER SWE:		T/PVC		

PROTECTIVE CASING DETAILS

PERMANENT, LEGIBLE WELL LABEL ADDED? ☑ YES ☐ NO

PROTECTIVE COVER AND LOCK INSTALLED? ☑ YES ☐ NO

LOCK KEY NUMBER: 3120

REVISED 03/2008

WELL CONSTRUCTION LOG

RMT

WELL NO. MW-16s/B-42

Facility/Project Name:	Date Drilling Started:	Date Drilling Completed:	Project Number:
Tecumseh Products Company - Phase II Investigation	7/23/09	7/23/09	8070.02

Drilling Firm:	Drilling Method:	Surface Elev. (ft)	TOC Elevation (ft)	Total Depth (ft bgs)	Borehole Dia. (in)
Terraprobe, Inc.	Direct Push/HSA	---	---	36.0	2-8

Boring Location:	Personnel	Drilling Equipment:
On Tecumseh Tire property along edge of ridge line, about 500 feet northeast of tire shop	Logged By - Brent Ritchie Driller - Joe Fotjik	Geoprobe

Civil Town/City/or Village:	County:	State:	Water Level Observations:
Tecumseh	Lenawee	MI	While Drilling: Date/Time 7/23/09 00:00 ▽ Depth (ft bgs) 7.5 After Drilling: Date/Time 7/23/09 00:00 Depth (ft bgs) NM

SAMPLE NUMBER AND TYPE	SAMPLE RECOVERY (%)	BLOW COUNTS	DEPTH IN FEET	LITHOLOGIC DESCRIPTION	USCS	GRAPHIC LOG	WELL DIAGRAM	COMMENTS
			0	**TOPSOIL**				
1 GP	50		2	**SILTY SAND** mostly fine to medium sand, some silt, trace fine gravel, light yellowish brown (10YR 6/4), dry, loose.	SM			
				SAND mostly fine to coarse sand, trace to few fine to medium gravel, pale brown (10YR 6/3), dry, loose.	SW			
2 GP	30		4	Cobbles at 5.0 feet.				
			6	**SILTY CLAY** mostly silty clay, trace fine gravel, slight plasticity, light gray (10YR 7/2), dry, medium stiff.	CL-ML			
				▽ **SANDY SILT** mostly silt, little fine sand, trace to few clay, nonplastic, yellowish brown (10YR 5/6), saturated at 7.5 feet, stiff.	ML			
3 GP	75		8	**GRAVELLY SAND** mostly fine to coarse sand, little fine to medium gravel, trace coarse gravel, trace silt, brown (10YR 5/3), damp, dense.				
			10					
			12	Same as above.	SW			
4 GP	60		14					

SOIL BORING WELL CONSTRUCTION LOG 8070.02.GPJ RMT_CORP.GDT 8070.02 9/10/09

Signature:

Firm: RMT Inc.
3754 Ranchero Drive Ann Arbor, MI 48108
734-971-7080
Fax 734-971-9022

WELL CONSTRUCTION LOG

RMT

WELL NO. MW-16s/B-42

SAMPLE NUMBER AND TYPE	SAMPLE RECOVERY (%)	BLOW COUNTS	DEPTH IN FEET	LITHOLOGIC DESCRIPTION	USCS	GRAPHIC LOG	WELL DIAGRAM	COMMENTS
				Same as above.				
5 GP	70		18					
			20	Same as above.				
6 GP	40		22					
			24		SW			
7 GP	60		26					
				Same as above.				
			28					
8 GP	60		30					
				Change to wet to saturated at 31.5 feet.				Not enough water to sample at 31.5 feet.
			32	**CLAY** few fine to medium gravel, slight plasticity, gray (10YR 5/1), dry to damp, stiff.				
9 GP	100		34		CL			
			36	End of boring at 36.0 feet below ground surface.				

SOIL BORING WELL CONSTRUCTION LOG 8070.02.GPJ RMT_CORP.GDT 8070.02 9/10/09

RMT WELL CONSTRUCTION DIAGRAM

PROJ. NAME:	Tecumseh Products Co. - Tecumseh Mfg. Facility			WELL ID:	MW-16S
PROJ. NO:	8070.02	DATE INSTALLED:	7/23/2009 INSTALLED BY: Brent Ritchie		CHECKED BY: JB

ELEVATION (BENCHMARK: USGS)	DEPTH BELOW OR ABOVE GROUND SURFACE (FEET)
783.30	0.0 GROUND SURFACE
782.90	0.4 TOP OF CASING
--	
	0.5 CEMENT SURFACE PLUG
	GROUT/BACKFILL MATERIAL: --
	GROUT/BACKFILL METHOD: --
4.10	
	-- GROUT
	BENTONITE SEAL MATERIAL: MEDIUM CHIPS
	3.0 BENTONITE SEAL
778.80	4.5 TOP OF SCREEN
	FILTER PACK MATERIAL: WELL GRAVEL
5.00	
773.80	9.5 BOTTOM OF SCREEN
	9.5 BOTTOM OF FILTER PACK
	-- BENTONITE PLUG
	BACKFILL MATERIAL: NATURAL COLLAPSE
747.30	36.0 HOLE BOTTOM

RISER PIPE LENGTH

SCREEN LENGTH

NOTES:

CASING AND SCREEN DETAILS

TYPE OF RISER: 2-INCH PVC

PIPE SCHEDULE: 40

PIPE JOINTS: THREADED O-RINGS

SOLVENT USED? NO

SCREEN TYPE: 2-INCH PVC

SCR. SLOT SIZE: 0.01-INCH

BOREHOLE DIAMETER: 8.0 IN. FROM 0.0 TO 9.5 FT.
2.0 IN. FROM 9.5 TO 36.0 FT.

SURF. CASING DIAMETER: NA IN. FROM NA TO NA FT.
NA IN. FROM NA TO NA FT.

WELL DEVELOPMENT

DEVELOPMENT METHOD: NA

TIME DEVELOPING: -- MINUTES

WATER REMOVED: -- GALLONS

WATER ADDED: -- GALLONS

WATER CLARITY BEFORE / AFTER DEVELOPMENT

CLARITY BEFORE: NA

COLOR BEFORE: NA

CLARITY AFTER: NA

COLOR AFTER: NA

ODOR (IF PRESENT): NA

WATER LEVEL SUMMARY

MEASUREMENT (FEET)			DATE	TIME
DTB BEFORE DEVELOPING:	DRY	T/PVC	7/23/2009	1700
DTB AFTER DEVELOPING:	NA	T/PVC	NA	NA
SWE BEFORE DEVELOPING:	DRY	T/PVC	7/23/2009	1700
SWE AFTER DEVELOPING:	NA	T/PVC	NA	NA
OTHER SWE:		T/PVC		
OTHER SWE:		T/PVC		

PROTECTIVE CASING DETAILS

PERMANENT, LEGIBLE WELL LABEL ADDED? ☑ YES ☐ NO

PROTECTIVE COVER AND LOCK INSTALLED? ☑ YES ☐ NO

LOCK KEY NUMBER: 3120

REVISED 03/2008

WELL CONSTRUCTION LOG

RMT

WELL NO. MW-17s/B-44

Facility/Project Name:	Date Drilling Started:	Date Drilling Completed:	Project Number:
Tecumseh Products Company - Phase II Investigation	7/23/09	7/23/09	8070.02

Drilling Firm:	Drilling Method:	Surface Elev. (ft)	TOC Elevation (ft)	Total Depth (ft bgs)	Borehole Dia. (in)
Terraprobe, Inc.	Direct Push/HSA	---	---	8.0	2-8

Boring Location: On Birchfield property, about 1800 feet east of north corner of tire shop

Personnel
Logged By - Brent Ritchie
Driller - Joe Fotjik

Drilling Equipment: Geoprobe

Civil Town/City/or Village:	County:	State:
Tecumseh	Lenawee	MI

Water Level Observations:
While Drilling: Date/Time 7/23/09 00:00 ▽ Depth (ft bgs) 5.0
After Drilling: Date/Time 7/23/09 00:00 Depth (ft bgs) NM

SAMPLE NUMBER AND TYPE	SAMPLE RECOVERY (%)	BLOW COUNTS	DEPTH IN FEET	LITHOLOGIC DESCRIPTION	USCS	GRAPHIC LOG	WELL DIAGRAM	COMMENTS
			0	**TOPSOIL**				
1 GP	40		2	**SAND WITH GRAVEL** mostly fine to coarse sand, little fine to coarse gravel, trace to few silt, yellowish brown (10YR 5/4), damp, medium dense.	SW			
			4	▽ Change to saturated at 5.0 feet.				
2 GP	50		6	**SILTY CLAY** few fine to medium gravel, slight plasticity, brown (10YR 5/3), damp, stiff.	CL-ML			
			8	End of boring at 8.0 feet below ground surface.				
			10					
			12					
			14					

SOIL BORING WELL CONSTRUCTION LOG 8070.02.GPJ RMT_CORP.GDT 8070.02 8/26/09

Signature:

Firm: RMT Inc.
3754 Ranchero Drive Ann Arbor, MI 48108
(734) 971-7080
Fax (734) 971-9022

RMT WELL CONSTRUCTION DIAGRAM

PROJ. NAME:	Tecumseh Products Co. - Tecumseh Mfg. Facility			WELL ID:	MW-17S
PROJ. NO:	8070.02	DATE INSTALLED:	7/23/2009 INSTALLED BY: Brent Ritchie		CHECKED BY: JB

ELEVATION (BENCHMARK: USGS)	DEPTH BELOW OR ABOVE GROUND SURFACE (FEET)
755.20	0.0 GROUND SURFACE
754.49	0.7 TOP OF CASING
--	0.5 CEMENT SURFACE PLUG
	GROUT/BACKFILL MATERIAL: --
	GROUT/BACKFILL METHOD: --
2.30	-- GROUT
	BENTONITE SEAL MATERIAL: MEDIUM CHIPS
	2.0 BENTONITE SEAL
752.19	3.0 TOP OF SCREEN
	FILTER PACK MATERIAL: WELL GRAVEL
5.00	
747.19	8.0 BOTTOM OF SCREEN
	8.0 BOTTOM OF FILTER PACK
	-- BENTONITE PLUG
	BACKFILL MATERIAL: --
747.19	8.0 HOLE BOTTOM

RISER PIPE LENGTH

SCREEN LENGTH

NOTES:

CASING AND SCREEN DETAILS

TYPE OF RISER: 2-INCH PVC

PIPE SCHEDULE: 40

PIPE JOINTS: THREADED O-RINGS

SOLVENT USED? NO

SCREEN TYPE: 2-INCH PVC

SCR. SLOT SIZE: 0.01-INCH

BOREHOLE DIAMETER: 8.0 IN. FROM 0.0 TO 8.0 FT.
NA IN. FROM NA TO NA FT.

SURF. CASING DIAMETER: NM IN. FROM NM TO NM FT.
NA IN. FROM NA TO NA FT.

WELL DEVELOPMENT

DEVELOPMENT METHOD: SURGE AND PUMP

TIME DEVELOPING: 0.25 HOURS

WATER REMOVED: 3 GALLONS

WATER ADDED: 0 GALLONS

WATER CLARITY BEFORE / AFTER DEVELOPMENT

CLARITY BEFORE: VERY TURBID

COLOR BEFORE: YELLOWISH BROWN

CLARITY AFTER: SLIGHT TO MEDIUM TURBID

COLOR AFTER: SLIGHT YELLOWISH BROWN

ODOR (IF PRESENT): NA

WATER LEVEL SUMMARY

MEASUREMENT (FEET)			DATE	TIME
DTB BEFORE DEVELOPING:	7.63	T/PVC	7/23/2009	1616
DTB AFTER DEVELOPING:	7.63	T/PVC	7/23/2009	1633
SWE BEFORE DEVELOPING:	5.33	T/PVC	7/23/2009	1616
SWE AFTER DEVELOPING:	5.34	T/PVC	7/23/2009	1633
OTHER SWE:		T/PVC		
OTHER SWE:		T/PVC		

PROTECTIVE CASING DETAILS

PERMANENT, LEGIBLE WELL LABEL ADDED? ☑ YES ☐ NO

PROTECTIVE COVER AND LOCK INSTALLED? ☑ YES ☐ NO

LOCK KEY NUMBER: 3120

SEE APPENDIX J OF BEA FOR FINAL ANALYTICAL SUMMARY TABLES

Appendix C
Historical Data for Possible Sources of Contamination

5-1-86
TECUMSEH PRODUCTS CO.
TECUMSEH DIVISION
CLAUDE WALKER
GERALD BUTTON

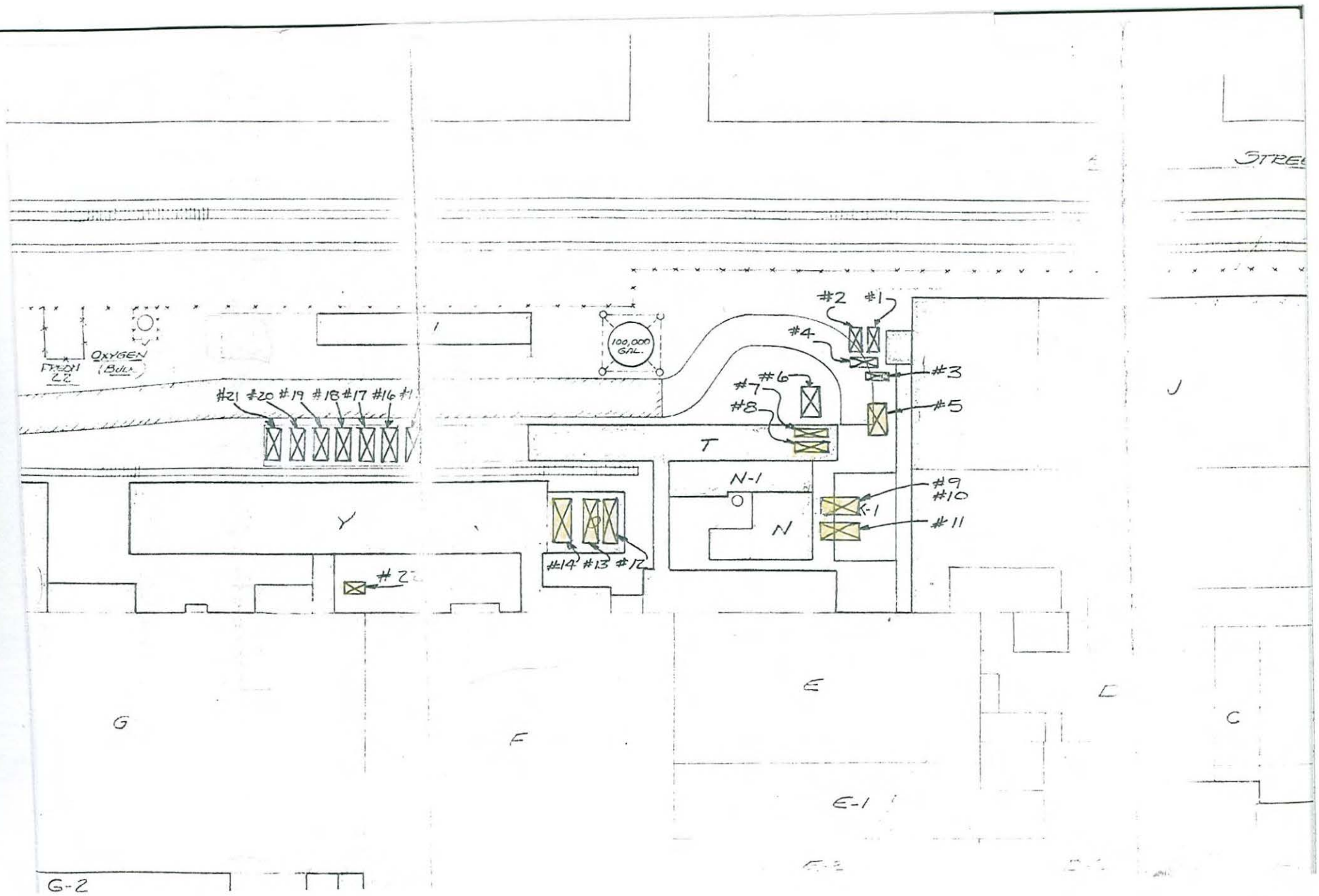
AG - Above Ground
UG - Under Ground

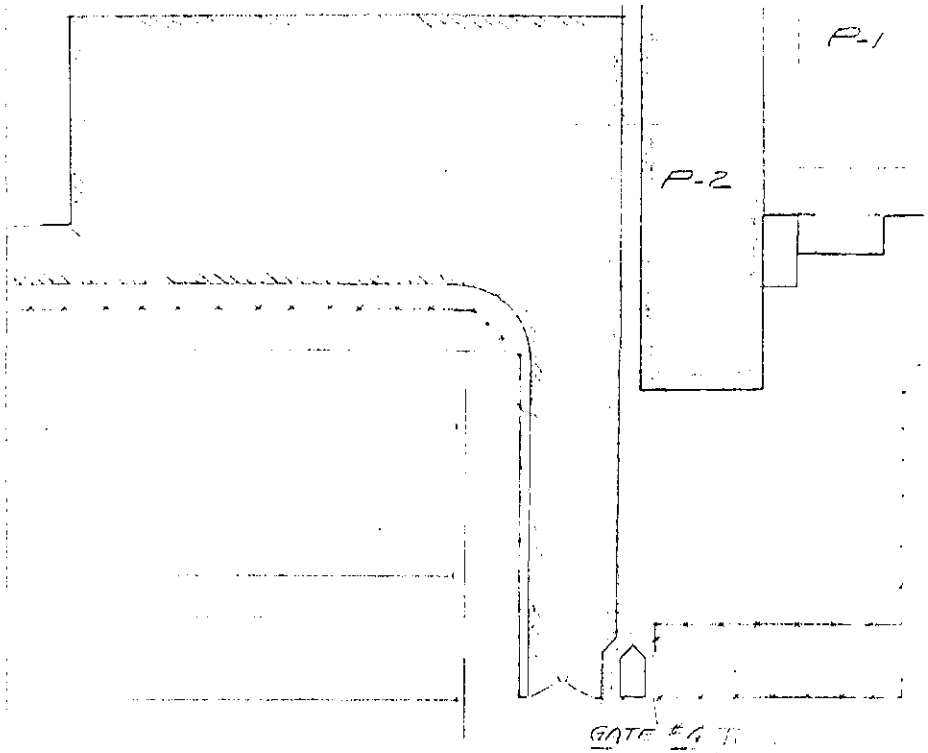
STORAGE TANK & BULK SYSTEM IDENTIFICATION

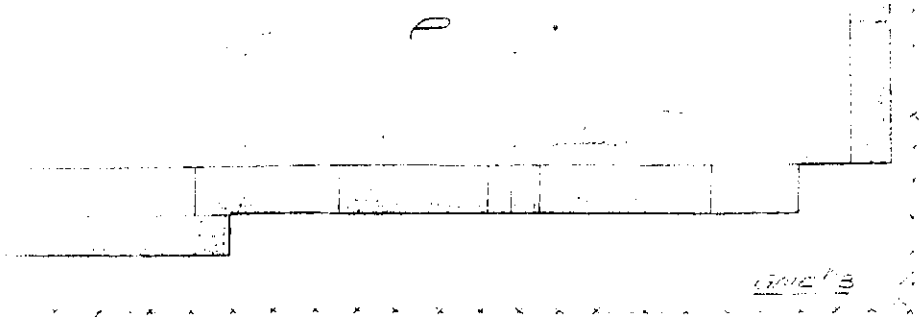
STORAGE TANK #	LOCATION	AG UG	PRODUCT	GALLON CAPACITY	LENGTH & DIAMETER	REMARKS
1	South end of Building "J"	UG	Reclaimed Hydraulic Oil	6,000	16'-1"x8'-0"	Buried under concrete No manhole Removed aug 1990
2	South end of Building "J"	UG	Etna #25 Hydraulic Oil	6,000	16'-1"x8'-0"	ried under concrete manhole Removed aug 1990
3	South end of Building "J"	UG	Kerosene	1,000	10'-0"x4'-0"	ried under concrete manhole Removed aug 1990
4	South end of Building "J"	UG	Lapping Vehicle Oil	6,000	16'-1"x8'-0"	ried under concrete manhole Removed aug 1990
5	South end of Building "J"	UG	#6 Fuel Oil	14,723	10'-4"x22	Steam Heater Installed 1993 Pumped, Cleaned & Filled with INERT MATERIALS
6	West side of Building "T"	UG	Scrap Oil (Hauled away)	7,500	7' x 26'	Under cement with Manhole Removed aug 1990
7	Inside Building "T"	AG	Chlorothene			On Old Dock
8	Inside Building "T"	AG	Used Burn Oil Teardown	2,880	5'-6"x17'	On Old Dock
9-10	Under Building "K-1"	UG	Waste Chemicals Oil Split	20,000	10'-6"x31'	Old fuel oil tank 9-24-93 split into 2-10K Filled with concrete
11	Under Building "K-1"	UG	Boiler Oil #6	20,000	10'-6"x31'	Abandoned 11-85. Filled with concrete
12	Inside Building "O"	AG	Refrigeration Oil (Light)	12,500	8' x 32'-6"	Old tanks in a heated building
13	Inside Building "O"	AG	Refrigeration Oil (Light)	12,500	8' x 32'-6"	Old tanks in a heated building

UG - Under Ground

STORAGE TANK #	LOCATION	AG UG	PRODUCT	GALLON CAPACITY	LENGTH & DIAMETER	REMARKS
14	Inside Building "O"	AG	Refrigeration Oil (Heavy-HR)	8,000		Automotive Oil New in 1982
15	West Side Building - "Y"	UG	Removed in 1989	6,000	8'x16'-1"	Under slab - Has manhole - Piped into building
16	West Side Building - "Y"	UG	"	6,000	8'x16'-1"	Under slab - Has manhole - Piped into building
17	West Side Building - "Y"	UG	"	6,000	8'x16'-1"	Under slab - Has manhole - Piped into building
18	West Side Building - "Y"	UG	"	6,000	8'x16'-1"	Under slab - Has manhole - Piped into building
19	West Side Building - "Y"	UG	"	6,000	8'x16'-1"	Under slab - Has manhole - Piped into building
20	West Side Building - "Y"	UG	"	6,000	8'x16'-1"	Under slab - Has manhole - Piped into building
21	West Side Bilding - "Y"	UG	"	6,000	8'x16'-1"	Under slab - Has manhole - Piped into building
22	Between "Y" & "G"- Outdoors	AG	Over flow tank - Oil Towers	500	4'x7'	Oil piped back to boiler burn tank
23	North Side Building "V"	UG	Quench Oil	20,000	10'-6"x31'	Abandoned early '60's. Filled with ? Removed 87
24	East side Bldg."L"	AG	Acid from De-Rust	10,000	Removed 1994	Old beer tank on jacks
25	East of Bldg. "W"	UG	Alcohol	6,000	8'x16'	Cleaned and not in use
26.	South End of Bldg "F"	AG	Refrigeration Oil			Removed 87







ABOVE GROUND = 7 TANKS
BELOW GROUND = 18 TANKS

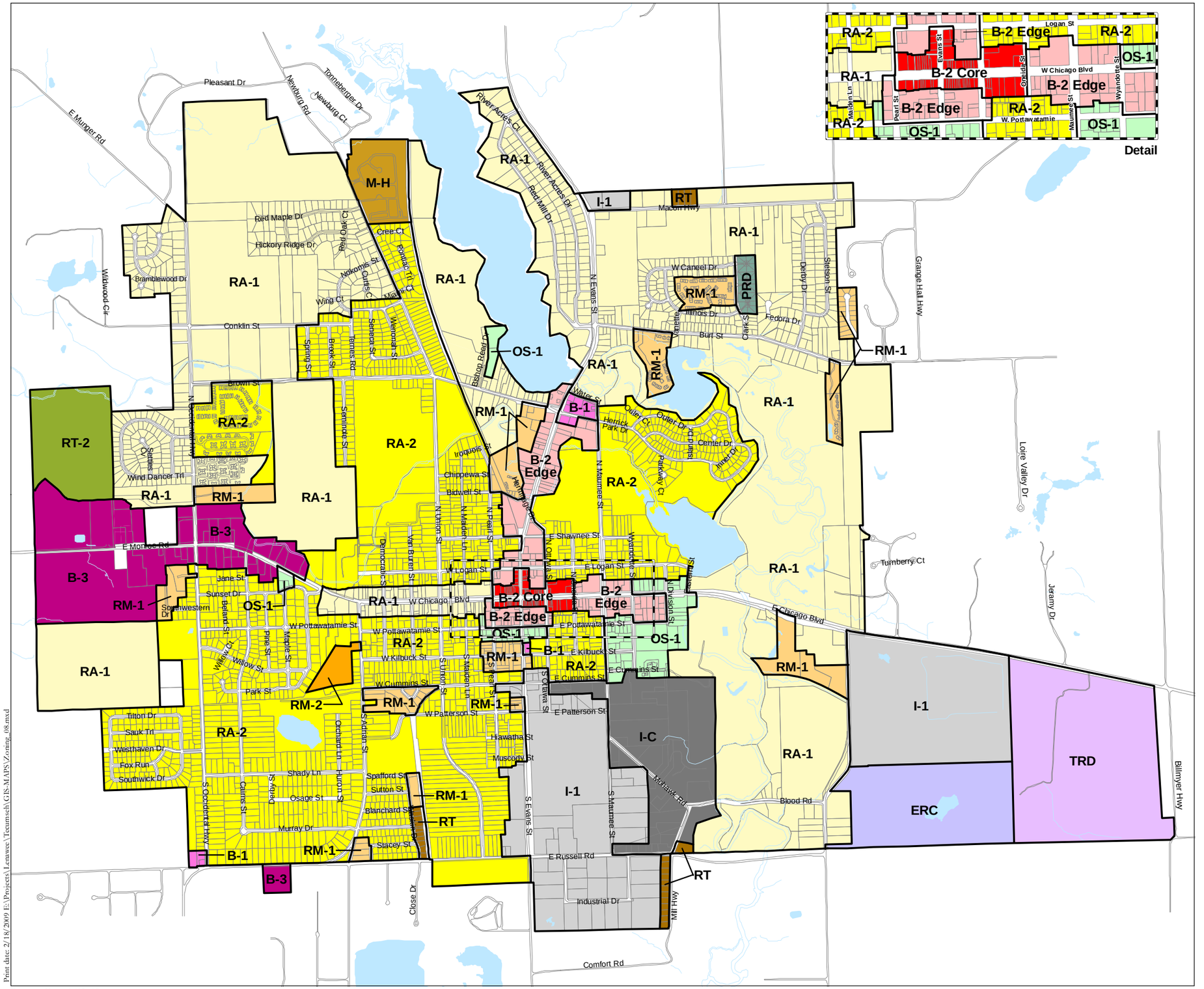
NOTE:
TANKS # 7-8-1
ARE A-
TANKS # 1-2-3-4
15-16-17-
23 & 2

1-22 & 24
GROUND
1-10-11
20-21
BELOW GROUND

TECUMSEH PRODUCTS CO
TECUMSEH DIVISION
BULK STORAGE TANK LOCATIONS
SCALE 1" = 50'
5-13-86
CWALKER

MAY 15 1986

Appendix D
City of Tecumseh Zoning Map



Zoning Map

City of Tecumseh, Michigan

Zoning Districts

- RA-1 One-Family Residential
- RA-2 One-Family Residential
- RM-1 Multiple Family Residential
- RM-2 Multiple-Family Residential
- RT Two-Family Residential
- RT-2 Two-Family Residential
- M-H Mobile Home Residential
- B-1 Local Business
- B-2 Downtown Edge
- B-2 Downtown Core
- B-3 General Business
- I-1 Industrial
- I-C Industrial-Commercial
- OS-1 Office-Service
- PRD Planned Residential Developments
- TRD Technology Research Developments
- ERC Environmental Residential

Revision	Date	Revision	Date	Revision	Date

I, _____, Clerk of the City of Tecumseh, do hereby certify that this map is a true copy of the map adopted by the Tecumseh City Council on _____, as well as amendments made as of revised date.

City Clerk

The lot lines of this map are representative of the actual lot lines and are not intended to be substituted for an official survey or used to resolve boundary or area issues. Secure a survey, consult County records or City of Tecumseh Clerk

0 1,000 2,000
Feet

McKenna Associates Incorporated

Base Map Source: City of Tecumseh, 2008

Print date: 2/18/2009 F:\Projects\Lenawee\Tecumseh\GIS-MAPS\Zoning_08.mxd

Revision Date: 1/13/09

Appendix E
Well Survey Information

GEOLOGICAL SURVEY NO

MICHIGAN DEPARTMENT OF PUBLIC HEALTH

WATER WELL AND PUMP RECORD

PART 127 ACT 368, P.A. 1978

PERMIT NUMBER: W1 28377

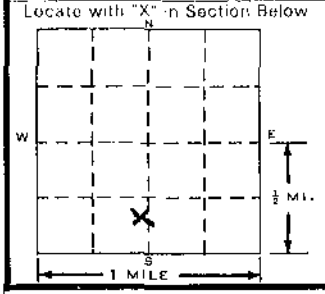
1 LOCATION OF WELL

County	Township Name	Fraction	Section Number	Town Number	Range Number
Lenawee	Tecumseh	N/E¼ S/E¼ S/W¼	34	2 N/S	4 E/W

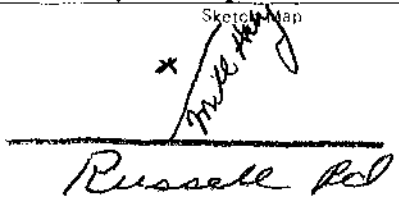
Distance And Direction From Road Intersection: 3 Blocks N of Russell on the west side of Mill Hwy

Street Address & City of Well Location: 701 Mill Hwy

Locate with "X" in Section Below



Sketch Map



3 OWNER OF WELL: Ivan Maynard

Address: 701 Mill Hwy Tecumseh Mi

Address Same As Well Location? ☐ Yes ☐ No

4 WELL DEPTH: (completed) 45 ft. | **Date of Completion** Aug 29-85

5 ☐ Cable tool ☒ Rotary ☐ Driven ☐ Dug ☐ Hollow rod ☐ Auger ☐ Jetted ☐ ____

6 USE: ☒ Domestic ☐ Type I Public ☐ Type III Public ☐ Irrigation ☐ Type IIa Public ☐ Heat pump ☐ Test Well ☐ Type IIb Public ☐ ____

7 CASING: Diameter ☐ Steel ☐ Threaded ☒ Plastic ☐ Welded

5 in. to 41 ft. depth

____ in. to ____ ft. depth

Grouted Drill Hole Diameter

____ in. to ____ ft. depth

____ in. to ____ ft. depth

Height Above/Below Surface 1 ft.

Weight PVC lbs./ft

Drive Shoe ☐ Yes ☒ No

8 SCREEN ☐ Not Installed

Type JOHNSON Diameter 4"

Slot/Gauze 20 Length 4'

Set between 41 ft. and 45 ft.

FITTINGS ☐ K-Packer ☐ Lead Packer ☐ Bremer Check ☐ Blank above screen ____ ft. Other THREADED

9 STATIC WATER LEVEL

32 ft. below land surface ☐ Flow

10 PUMPING LEVEL below land surface

40 ft. after 2 hrs. pumping at 5 G.P.M.

____ ft. after ____ hrs. pumping at ____ G.P.M.

11 WELL HEAD COMPLETION ☒ Pitless adapter ☐ 12" above grade ☐ Basement offset ☐ Approved pit

12 WELL GROUTED? ☐ No ☒ Yes From 41 to 0 ft.

☐ Neat cement ☒ Bentonite ☐ Other CLAY

No. of bags of cement Bensead 7 Additives ____

13 Nearest source of possible contamination

Type SEPTIC Distance 100 ft. Direction N

Well disinfected upon completion? ☒ Yes ☐ No

14 PUMP ☐ Not Installed ☐ Pump Installation Only

Manufacturer's name MC-DONALD

Model number ____ HP ½ Volts 220

Length of Drop Pipe 40 ft. capacity 5 G.P.M.

TYPE: ☒ Submersible ☐ Jet ____

PRESSURE TANK:

Manufacturer's name NOLAND

Model number NPD-20 Capacity ____ Gallons

2 FORMATION DESCRIPTION

FORMATION DESCRIPTION	THICKNESS OF STRATUM	DEPTH TO BOTTOM OF STRATUM
SAND & CLAY	7	7
SAND	20	27
CLAY	10	37
SAND & CLAY	3	40
SAND & GRAVEL	6	46

USE A 2ND SHEET IF NEEDED

RECEIVED
Mich. Dept. of Public Health
OCT 7 1985
Bureau of Environmental and Occupational Health - GWQS

15. Remarks, elevation, source of data, etc.

16. WATER WELL CONTRACTOR'S CERTIFICATION:

This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.

Gordon & Sons Inc. 58-0551
REGISTERED BUSINESS NAME REGISTRATION NO.

Address Tipton Mich

Signed Roy Gordon Date Aug 29-85
AUTHORIZED REPRESENTATIVE

D67d (Rev 10-80)

GEOLOGICAL SURVEY COPY

GEOLOGICAL SURVEY SAMPLE No.

3 Permit # 8445

SEP - 9 1976

WATER WELL RECORD

ACT 294 PA 1965

MICHIGAN DEPARTMENT OF PUBLIC HEALTH

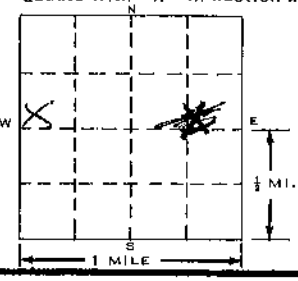
1 LOCATION OF WELL

County	Township Name	Fraction	Section Number	Town Number	Range Number
Lenawee	Tec	¼ C ¼ W ½ ¼	34	5 N/S.	4 E/W.

Distance And Direction from Road Intersections: 200 ft E of Maumee St. 1½ blocks South of Monroe St

Street address & City of Well Location: Tecumseh

Locate with "X" in section below



Sketch Map: Monroe St. / Maumee

3 OWNER OF WELL:

Address: Marjay Plastics, Maumee St. Tecumseh.

4 WELL DEPTH: (completed) 99 ft. Date of Completion 9-13-76

5 [X] Cable tool [ ] Rotary [ ] Driven [ ] Dug [ ] Hollow rod [ ] Jetted [ ] Bored [ ]

6 USE: [ ] Domestic [ ] Public Supply [X] Industry [ ] Irrigation [ ] Air Conditioning [ ] Commercial [ ] Test Well [ ]

7 CASING: Threaded [X] Welded [ ] Diam. 4 in. to 99 ft. Depth; ___ in. to ___ ft. Depth. Height: Above/Below Surface 1 ft. Weight 11 lbs./ft. Drive Shoe? Yes [X] No [ ]

2 FORMATION	THICKNESS OF STRATUM	DEPTH TO BOTTOM OF STRATUM
gravelly soil to 20ft.	20	20
clay	40	60
dirty gravel To 64	4	64
clay	26	90
gravel + clay mix	5	95
sand + gravel	4	99
clay bedrock		

USE A 2ND SHEET IF NEEDED

8 SCREEN: Type: Stainless Steel Dia.: 3 in. Slot/Gauze 10 Length 4 ft. Set between 99 ft. and 95 ft. Fittings: 1½ ft Tailpipe + K packer

9 STATIC WATER LEVEL 4 ft. below land surface

10 PUMPING LEVEL below land surface 90 ft. after 1 hrs. pumping 30 g.p.m.; ___ ft. after ___ hrs. pumping ___ g.p.m.

11 WATER QUALITY in Parts Per Million: Iron (Fe) ___ Chlorides (Cl) ___ Hardness ___ Other ___

12 WELL HEAD COMPLETION: [ ] In Approved Pit [X] Pitless Adapter [ ] 12" Above Grade

13 Well Grouted? [ ] Yes [ ] No [ ] Neat Cement [ ] Bentonite [ ] ___ Depth: From ___ ft. to ___ ft.

14 Nearest Source of possible contamination ___ feet ___ Direction none Type. Well disinfected upon completion [X] Yes [ ] No

15 PUMP: [ ] Not installed. Manufacturer's Name Reda. Model Number ___ HP 2 Volts 120. Length of Drop Pipe 88 ft. capacity 40 G.P.M. Type: [X] Submersible [ ] Jet [ ] Reciprocating

16 Remarks, elevation, source of data, etc.

ADDED INFO BY DRILLER, ITEM NO.
*CORRECTED BY
**ADDITION BY
ELEVATION
DEPTH TO ROCK

17 WATER WELL CONTRACTOR'S CERTIFICATION:

This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.

Chas Ruesink — REGISTERED BUSINESS NAME — 0021 — REGISTRATION NO.

Address Adrian

Signed Chas Ruesink — AUTHORIZED REPRESENTATIVE — Date 7-22-76

D67d 100M (Rev. 11-68)

GEOLOGICAL SURVEY COPY

3 GEOLOGICAL SURVEY SAMPLE No.

8310 NOV 0 3 1977

WATER WELL RECORD
ACT 294 PA 1965

MICHIGAN DEPARTMENT OF PUBLIC HEALTH

1 LOCATION OF WELL

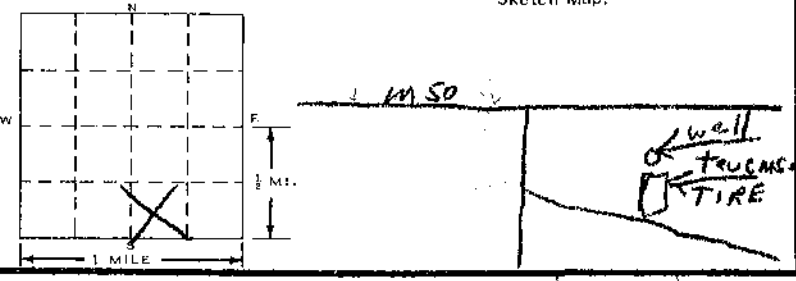
County	Township Name	Fraction	Section Number	Town Number	Range Number
LENAWEE	TECUMSEH	SW ¼ NE ¼ SW ¼	34	T 5 (N/S)	R 4 (E) W.

Distance And Direction from Road Intersections
M50 East in Tecumseh to then south to my hand left 4th Bldg on north side of M.

Street address or City of Well Location

Locate with "X" in section below

Sketch Map:



3 OWNER OF WELL: Johnathen Birchfield
tecumseh TIRE

Address: 615 Mohawk tecumseh mich

4 WELL DEPTH: (completed) 59 ft. Date of Completion 9-15-77

5 [X] Cable tool [ ] Rotary [ ] Driven [ ] Dug [ ] Hollow rod [ ] Jetted [ ] Bored [ ]

6 USE: [ ] Domestic [ ] Public Supply [ ] Industry [ ] Irrigation [ ] Air Conditioning [X] Commercial [ ] Test Well [ ]

7 CASING: Threaded [X] Welded [ ] Diam. 4" in. to ft. Depth; in. to ft. Depth
Height: Above/Below Surface 1 ft. Weight 11 lbs./ft. Drive Shoe? Yes [X] No [ ]

2 FORMATION	THICKNESS OF STRATUM	DEPTH TO BOTTOM OF STRATUM
Clay Sandy yellow	5	5
Clay Blue	1	6
Gravel dry	30	36
Sand yellow medium to Coarse with water	8	44
Blue Clay	8	52
water Sand fine	3	55
water Sand fine to medium	4	59

8 SCREEN:
Type Houston S.S. Dia.: 3"
Slot/Gauze 7 Length 4"
Set between 55 ft. and 59 ft.
Fittings: 2' of 3" pipe with K-PACKER

9 STATIC WATER LEVEL
34 ft. below land surface

10 PUMPING LEVEL below land surface
ft. after hrs. pumping g.p.m.
1500 PSR with RIG
ft. after hrs. pumping g.p.m.

11 WATER QUALITY in Parts Per Million:
Iron (Fe) Chlorides (Cl)
Hardness Other

12 WELL HEAD COMPLETION: [ ] In Approved Pit [X] Pitless Adapter [ ] 12" Above Grade

13 Well Grouted? [X] Yes [ ] No
[ ] Neat Cement [ ] Bentonite [ ]
Depth: From ft. to ft.

14 Nearest Source of possible contamination
100 feet S Direction Septic Type
Well disinfected upon completion [X] Yes [ ] No

15 PUMP: [ ] Not installed
Manufacturer's Name VALLEY
Model Number S1206 HP 1/3 Volts 230
Length of Drop Pipe 47 ft. capacity 12 G.P.M.
Type: [X] Submersible [ ] Jet [ ] Reciprocating

ADDED INFO BY DRILLER, ITEM NO.
*CORRECTED BY PJZ
**ADDITION BY
ELEVATION
~~DEPTH TO ROCK~~

USE A 2ND SHEET IF NEEDED

16 Remarks, elevation, source of data, etc.
below 59' water Sand but change back to very fine sand.

17 WATER WELL CONTRACTOR'S CERTIFICATION:
This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.

BETZ WELL DRILLING 0983
REGISTERED BUSINESS NAME REGISTRATION NO.

Address R#3 ADRIAN MICH

Signed Robert Betz Date 10-10-77
AUTHORIZED REPRESENTATIVE

D67d 100M (Rev. 12-68)

GEOLOGICAL SURVEY COPY

Parcel ID Number
325-0435-00

GEOLOGICAL SURVEY SAMPLE No.

FEB 14 1974

WATER WELL RECORD

ACT 294 PA 1965

MICHIGAN DEPARTMENT OF PUBLIC HEALTH

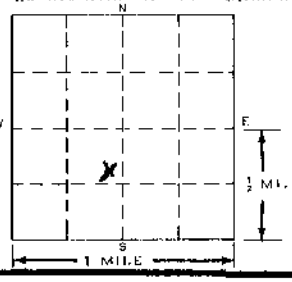
1 LOCATION OF WELL

County	Township Name	Fraction	Section Number	Town Number	Range Number
Lenawee	Tecumseh	SE ¼ SW ¼ SW ¼	34	5 N/S.	4 E/W.

Distance And Direction from Road Intersections: 500 ft N of Russell Rd, 100 ft E of Maumee St,

Street address & City of Well Location

Locate with "X" in section below



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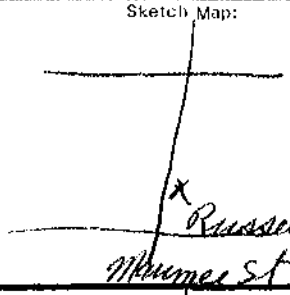


3 OWNER OF WELL: Claudia Plumbing

Address: Tecumseh,

4 WELL DEPTH: (completed) Date of Completion: 132 ft.

5 [X] Cable tool [ ] Rotary [ ] Driven [ ] Dug [ ] Hollow rod [ ] Jetted [ ] Bored [ ] ____

6 USE: [ ] Domestic [ ] Public Supply [ ] Industry [ ] Irrigation [ ] Air Conditioning [X] Commercial [ ] Test Well [ ] ____

7 CASING: Threaded [X] Welded [ ] Diam. 4 in. to 132 ft. Depth; ____ in. to ____ ft. Depth

Height: Above/Below Surface ____ ft. Weight ____ lbs./ft. Drive Shoe? Yes [ ] No [ ]

2 FORMATION	THICKNESS OF STRATUM	DEPTH TO BOTTOM OF STRATUM
Sand to 15 ft,	15	15
clay to 110 ft,	95	110
fine sand,	18	128
course sand	4	132+

8 SCREEN: Type: red brass Dia.: 3 in

Slot/~~Gauze~~ 10 slot Length 4 ft.

Set between 132 ft. and 128 ft.

Fittings: 2 ft. Tail & K packer

9 STATIC WATER LEVEL 1 ft. above ~~below~~ land surface

10 PUMPING LEVEL below land surface

40 ft. after 1 hrs. pumping 25 g.p.m.

____ ft. after ____ hrs. pumping ____ g.p.m.

11 WATER QUALITY in Parts Per Million:

Iron (Fe) ____ Chlorides (Cl) ____

Hardness ____ Other ____

12 WELL HEAD COMPLETION: [ ] In Approved Pit [ ] Pitless Adapter [X] 12" Above Grade

13 Well Grouted? [X] Yes [ ] No

[ ] Neat Cement [ ] Bentonite [ ] ____

Depth: From ____ ft. to ____ ft.

14 Nearest Source of possible contamination

50+ feet ____ Direction none Type

Well disinfected upon completion [X] Yes [ ] No

15 PUMP: [X] Not installed

Manufacturer's Name ____

Model Number ____ HP ____ Volts ____

Length of Drop Pipe ____ ft. capacity ____ G.P.M.

Type: [ ] Submersible [ ] Jet [ ] Reciprocating

ADDED INFO BY DRILLER, ITEM NO.
*CORRECTED BY
**ADDITION BY
ELEVATION
DEPTH TO ROCK

USE A 2ND SHEET IF NEEDED

16 Remarks, elevation, source of data, etc.

for Poly Meric Processes Inc.
Gene Stiman owner

17 WATER WELL CONTRACTOR'S CERTIFICATION:

This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.

Chas Ruesink (REGISTERED BUSINESS NAME) 0021 (REGISTRATION NO.)

Address: Adrian R.3

Signed: Chas Ruesink (AUTHORIZED REPRESENTATIVE) Date: 4-16-74

D67d 100M (Rev. 12-68)

GEOLOGICAL SURVEY COPY

GEOLOGICAL SURVEY SAMPLE No. [ ]

[1][4][1][6][1]

WATER WELL RECORD
ACT 294 PA 1965

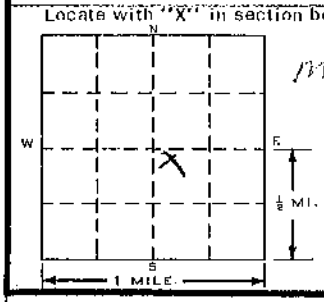
MICHIGAN DEPARTMENT OF PUBLIC HEALTH

1 LOCATION OF WELL

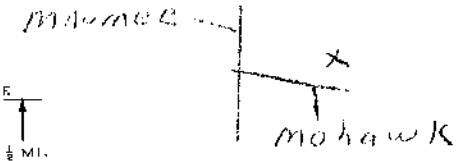
County	Township Name	Fraction	Section Number	Town Number	Range Number
Lenawee	Tecumseh	NW¼ NW¼ SE¼	34	5 S/N.	4 E/W.

Distance And Direction from Road Intersections
.2 mile south of Munee on north side mohawk
611 mohawk Tecumseh mi
Street address & City of Well Location

Locate with "X" in section below



Sketch Map:



3 OWNER OF WELL: Johns and Anne
Address 611 mohawk Tecumseh mi

4 WELL DEPTH: (completed) Date of Completion
58 ft. 6 27 59

5 [X] Cable tool [ ] Rotary [ ] Driven [ ] Dug
[ ] Hollow rod [ ] Jetted [ ] Bored [ ] ____

6 USE: [X] Domestic [ ] Public Supply [ ] Industry
[ ] Irrigation [ ] Air Conditioning [ ] Commercial
[ ] Test Well [ ] ____

7 CASING: Threaded [X] Welded [ ] Height: Above/Below Surface 1' ft.
Diam. 4 in. to 54 ft. Depth Weight 11 lbs./ft.
____ in. to ____ ft. Depth Drive Shoe? Yes [X] No [ ]

2 FORMATION	THICKNESS OF STRATUM	DEPTH TO BOTTOM OF STRATUM
Brown Fine Sand	12	12
Gray Clay	36	48
Fine Brown Sand	10	58

USE A 2ND SHEET IF NEEDED

8 SCREEN:
Type: Slotted Dia.: 3"
Slot/Gauze .007 Length 4'
Set between 54 ft. and 58 ft.
Fittings: Reducer Coupling

9 STATIC WATER LEVEL
31 ft. below land surface

10 PUMPING LEVEL below land surface
[illegible] ft. after ___ hrs. pumping ____ g.p.m.
46 ft. after 2 hrs. pumping 10 g.p.m.

11 WATER QUALITY in Parts Per Million:
Iron (Fe) ____ Chlorides (Cl) ____
Hardness ____ Other ____

12 WELL HEAD COMPLETION: [ ] In Approved Pit
[X] Pitless Adapter [ ] 12" Above Grade

13 Well Grouted? [X] Yes [ ] No
[ ] Neat Cement [X] Bentonite [ ] ____
Depth: From 46 ft. to Surface ft.

14 Nearest Source of possible contamination
50' feet north Direction Septic Type
Well disinfected upon completion [X] Yes [ ] No

15 PUMP: [ ] Not Installed
Manufacturer's Name Red Jacket
Model Number 7382 HP ½ Volts 230
Length of Drop Pipe 55 ft. capacity 12 G.P.M.
Type: [X] Submersible
[ ] Jet [ ] Reciprocating

16 Remarks, elevation, source of data, etc.

17 WATER WELL CONTRACTOR'S CERTIFICATION:
This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.
Merle Bowling 1272
REGISTERED BUSINESS NAME REGISTRATION NO.
Address 6550 S Ridge Hwy
Signed [signature] Date 6-27-59
AUTHORIZED REPRESENTATIVE

D67d 100M (Rev. 12-68)

GEOLOGICAL SURVEY COPY

Parcel ID Number
325-0434-00

10/27/82

GEOLOGICAL SURVEY NO

MICHIGAN DEPARTMENT OF PUBLIC HEALTH

WATER WELL AND PUMP RECORD

PART 127 ACT 368, P.A. 1978

PERMIT NUMBER H 11626

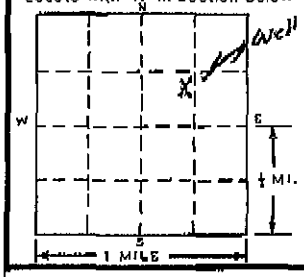
1 LOCATION OF WELL

County	Township Name	Fraction	Section Number	Town Number	Range Number
LENAWEE	Tecumseh	NE¼ SW¼ NE¼	27	5 N/S	4 E/W

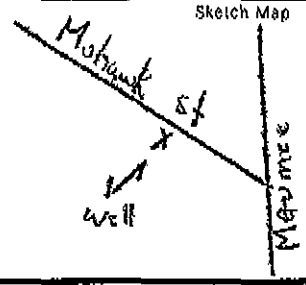
Distance And Direction From Road Intersection: 1 Block East of Maumee on North side of Mohawk

Street Address & City of Well Location:

Locate with "X" in Section Below



Sketch Map



3 OWNER OF WELL

Louis Schneider
Address 607 Mohawk St.
Tecumseh, Mich. 49286

Address Same As Well Location? [X] Yes [ ] No

4 WELL DEPTH (completed)

78 ft.

Date of Completion: Oct 18-82

5

[ ] Cable tool [X] Rotary [ ] Driven [ ] Dug
[ ] Hollow rod [ ] Auger [ ] Jetted [ ]

6 USE

[X] Domestic [ ] Type I Public [ ] Type III Public
[X] Irrigation [ ] Type IIa Public [ ] Heat pump
[ ] Test Well [ ] Type IIb Public [ ]

7 CASING

Diameter 5 in. to 70 ft. depth
___ in. to ___ ft. depth
Grouted Drill Hole Diameter
___ in. to ___ ft. depth
___ in. to ___ ft. depth

[ ] Steel [ ] Threaded
[X] Plastic [ ] Welded

Height Above/Below Surface 1 ft
Weight PVC lbs /ft

Drive Shoe [ ] Yes [X] No

2 FORMATION DESCRIPTION

FORMATION DESCRIPTION	THICKNESS OF STRATUM	DEPTH TO BOTTOM OF STRATUM
Clay & Sand	8	8
Sand & Gravel	26	34
Clay	30	64
Sand	14	78

USE A 2ND SHEET IF NEEDED

8 SCREEN

[ ] Not Installed

Type Johnson Diameter 4"
Slot/Gauze 7 Length 8'
Set between 70 ft. and 78 ft.
FITTINGS [ ] K-Packer [ ] Lead Packer [ ] Bremer Check
[ ] Blank above screen ___ ft. Other Threaded on

9 STATIC WATER LEVEL

40 ft. below land surface [ ] Flow

10 PUMPING LEVEL below land surface

42 ft. after 2 hrs. pumping at 15 G.P.M.
___ ft. after ___ hrs. pumping at ___ G.P.M.

11 WELL HEAD COMPLETION

[X] Pitless adaptor [ ] 12" above grade
[ ] Basement offset [ ] Approved pit

12 WELL GROUTED?

[ ] No [X] Yes From 70 to 0 ft.
[ ] Neat cement [X] Bentonite [ ] Other Clay
No. of bags of cement ___ Additives ___

13 Nearest source of possible contamination

Type Septic Distance 58 ft. Direction E

Well disinfected upon completion? [X] Yes [ ] No

14 PUMP

[ ] Not Installed [ ] Pump Installation Only

Manufacturer's name Aermotor
Model number ___ HP ½ Volts 220
Length of Drop Pipe ___ ft. capacity 10 G.P.M.
TYPE [X] Submersible [ ] Jet ___
PRESSURE TANK
Manufacturer's name WEX 700
Model number WAX-20 Capacity ___ Gallons

15 Remarks, elevation, source of data, etc

PERMIT # H-11626

16 WATER WELL CONTRACTOR'S CERTIFICATION

This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief

Gordon & Son Inc. 58-0551
REGISTERED BUSINESS NAME REGISTRATION NO

Address Ypsilanti Mich

Signed Ray Gordon Date Oct 18-82
AUTHORIZED REPRESENTATIVE

D67d (Rev 10-80)

Parcel ID Number
325-0432-00

GEOLOGICAL SURVEY SAMPLE No.

WATER WELL RECORD

ACT 294 PA 1965

MICHIGAN DEPARTMENT OF PUBLIC HEALTH

1 LOCATION OF WELL

County: LENAWEE | Twp.: City of TECUMSEH | Fraction: SW¼ SE¼ SW¼ | Section No.: 34 | Town: 5 S. | Range: 4 E.

Distance And Direction from Road Intersections: Corner of Russell Road & Maumee St

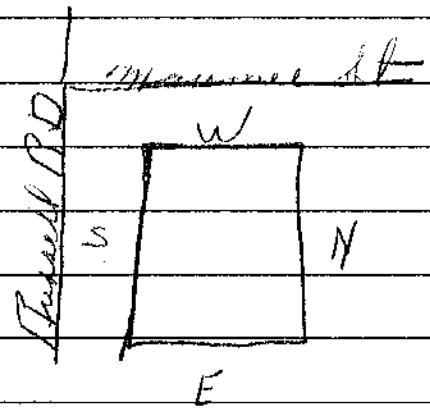
Street address & City of Well Location: Tecumseh

OWNER No.

3 OWNER OF WELL: WILLIAM MACKEY

Address: 4767 MILL HWY TECUMSEH MICH

2 FORMATION	THICKNESS OF STRATUM	DEPTH TO BOTTOM OF STRATUM
Yellow Clay & Gravel	0	24
Gray Gravel	24	31



4 WELL DEPTH: (completed) 31 ft. Date of Completion 8-19-67

5 ☐ Cable tool ☐ Rotary ☐ Driven ☐ Dug ☒ Hollow rod ☐ Jetted ☐ Bored ☐ ___

6 USE: ☒ Domestic ☐ Public Supply ☐ Industry ☐ Irrigation ☐ Air Conditioning ☐ Commercial ☐ Test Well ☐ ___

7 CASING: Diam. 2 in. to 28 ft. Depth; Threaded ☒ Welded ☐; Height: Above/Below surface 1' ft.; Weight 2.75 lbs/ft.; ___ in. to ___ ft. Depth; Drive Shoe? Yes ☒ No ☐

8 SCREEN: Type STAINLESS STEEL Dia.: 1¼"; Slot/Gauze 10 Length 36; Set between 28 ft. and 31 ft.; Fittings: DRIVE CUPLING

9 STATIC WATER LEVEL 5 ft. below land surface

10 PUMPING LEVEL below land surface 20 ft. after 2 hrs. pumping 480 g.p.m.; ___ ft. after ___ hrs. pumping ___ g.p.m.

11 WATER QUALITY in Parts Per Million: Iron (Fe) ___ Chlorides (Cl) ___ Hardness ___

12 WELL HEAD COMPLETION: ☐ In Approved Pit ☒ Pitless Adapter ☐ 12" Above Grade

13 GROUTING: Well Grouted? ☐ Yes ☒ No; Material: ☐ Neat Cement ☐ ___; Depth: From ___ ft. to ___ ft.

14 SANITARY: Nearest Source of possible contamination 75+ feet N Direction MUNICIPAL Type; Well disinfected upon completion ☒ Yes ☐ No

15 PUMP: Manufacturer's Name MERCURY; Model Number 4ST-5TJH HP ½; Length of Drop Pipe 21 ft. capacity 320 G.P.M.; Type: ☐ Submersible ☐ ___ ☒ Jet ☐ Reciprocating

16 Remarks, elevation, source of data, etc.

ADDED INFO. BY DRILLER, ITEM NO.

*CORRECTED BY:

** ADDITION BY:

APR 19 1968

17 WATER WELL CONTRACTOR'S CERTIFICATION:

This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.

CUTLER WELL DRILLING (REGISTERED BUSINESS NAME) 0419 (REGISTRATION NO.)

Address R#2 BRITTON MICH

Signed ___ (AUTHORIZED REPRESENTATIVE) Date 5-19-67

D67D 100M 6-66

GEOLOGICAL SURVEY COPY

Parcel ID Number 325-0270-00

WATER WELL AND PUMP RECORD

Completion is required under authority of Part 127 Act 368 PA 1978.

Failure to comply is a misdemeanor.

Well ID: 46000000087 **Import ID**: 46757433305

Tax No:	**Permit No**:	**County**: Lenawee	**Township**: Tecumseh

Well ID: 46000000087

Elevation: 819 ft

Latitude: 41.99789

Longitude: -83.950959

Fraction:	**Section**:	**Town/Range**:	**WSSN**:	**Source ID/Well No**:
SE¼ NW¼ SE¼	33	05S 04E	6560	TECUMSEH WELL #3

Distance and Direction from Road Intersection: WSSN# 06560;

Well Owner: City Of Tecumseh

Well Address:	**Owner Address**:
TECUMSEH WELL #3 TECUMSEH MI	309 EAST CHICAGO BLVD TECUMSEH MI 49286

Drilling Method: Unknown

Well Depth: 82.00 ft. **Well Use**: Type I public

Well Type: New **Date Completed**: 6/28/1941

Casing Type: Unknown
Casing Joint: Unknown
Diameter: 14.00 in. to 63.00 ft. depth

Bore Diameter 1:
Bore Diameter 2:
Bore Diameter 3:
Height: 0.00 ft. above grade
Casing Fitting: None

Static Water Level: 40.00 ft. Below Grade(Not Flowing)
Yield Test Method: Unknown
Measurement Taken During Pump Test:
58.00 ft. after 1.00 hrs. pumping at 1,200.00 GPM
59.00 ft. after 10.00 hrs. pumping at 1,250.00 GPM

Abandoned Well Plugged: No
Reason for not plugging Well:

Abandoned well ID:

Screen Installed: Yes **Well Intake**:
Filter Packed: No
Screen Diameter: 14.00 in. **Length**: 20.00 ft.
Screen Material Type:
Slot: 10.00 in. Set Between 0.00 ft. and 0.00 ft.
Blank: 0.00 ft. Above
Fittings:
Other

Well Grouted: No **Grouting Method**:
No. of Bags: **Additives**:
Grouting Materials:

Well Head Completion: 12 inches above grade, Other

Nearest source of possible contamination:

Type	**Distance**	**Direction**
Unknown	0.00 ft.	
Unknown		

Drilling Machine Operator Name:

Employment: Unknown

Pump Installed: Yes **Pump Installation only**: No
Pump Installation date: **HP**:
Manufacturer: Other **Pump Type**: Other
Model Number: **Pump Capacity**: 475.00 GPM
Length of Drop Pipe: 0.00 ft. **Id of Well**:
Diameter of Drop Pipe:
Draw Down Seal Used: No

Pressure Tank Installed: No
Pressure Tank Type:
Manufacturer:
Model Number : **Tank Capacity** : Gallons
Pressure Relief Valve Installed : No

Formation Description	Thickness	Depth to Bottom
Topsoil	3.00	3.00
Gravel	37.00	40.00
Sand & Gravel Coarse	42.00	82.00

Geology Remarks: 1. [TOP SOIL] [3] [3] 2. [DRY BANK GRAVEL] [40] [37] 3. [COARSE, CLEAN SAND AND GRAVEL] [82] [42]

Contractor Type: Unknown
Registration Number:
Business Name:
Business Address:

WATER WELL CONTRACTOR'S CERTIFICATION:
This well was drilled under my supervision and this report is true to the best of my knowledge and belief.

Signature of Registered Contractor **Date**

General Remarks: LIMITED INFORMATION ON WELL LOG; PUMP TYPE IS VERTICLE TURBINE;

OTHER REMARKS **Screen Fittings**: Type Unknown **Well Head Completion**: 12 inch Above Grade **Pump Type**: Type Unknown **Pump Manufacturer**: Pump Manufacturer unknown

EQP 2017C (2/2000)

ATTENTION WELL OWNER: FILE WITH DEED

2/17/2000 18:45

WATER WELL AND PUMP RECORD

Completion is required under authority of Part 127 Act 368 PA 1978.

Failure to comply is a misdemeanor.

Well ID: 46000000083 **Import ID**: 46757433301

Tax No:	**Permit No**:	**County**: Lenawee	**Township**: Tecumseh

Well ID: 46000000083

Elevation: 819 ft

Latitude: 41.998849

Longitude: -83.95083

Fraction:	**Section**:	**Town/Range**:	**WSSN**:	**Source ID/Well No**:
SE¼ NW¼ SE¼	33	05S 04E	6560	TECUMSEH WELL #8

Distance and Direction from Road Intersection: WSSN# 06560;

Well Owner: City Of Tecumseh

Well Address:	**Owner Address**:
TECUMSEH WELL #8 TECUMSEH MI	309 EAST CHICAGO BLVD TECUMSEH MI 49286

Drilling Method: Unknown

Well Depth: 82.00 ft. **Well Use**: Type I public

Well Type: New **Date Completed**: 9/28/1962

Casing Type: Unknown
Casing Joint: Unknown
Diameter: 16.00 in. to 72.00 ft. depth

Bore Diameter 1:
Bore Diameter 2:
Bore Diameter 3:
Height: 0.00 ft. above grade
Casing Fitting: Drive shoe

Static Water Level: 49.00 ft. Below Grade(Not Flowing)
Yield Test Method: Unknown
Measurement Taken During Pump Test:
59.00 ft. after 1.00 hrs. pumping at 1,725.00 GPM
54.00 ft. after 6.00 hrs. pumping at 1,000.00 GPM

Abandoned Well Plugged: No
Reason for not plugging Well:

Abandoned well ID:

Screen Installed: Yes **Well Intake**:
Filter Packed: No
Screen Diameter: 16.00 in. **Length**: 10.50 ft.
Screen Material Type:
Slot: 35.00 in. Set Between 0.00 ft. and 0.00 ft.
Blank: 0.00 ft. Above
Fittings:
None

Well Grouted: Yes **Grouting Method**: Unknown
No. of Bags: **Additives**: None
Grouting Materials:
Unknown From 0.00 ft. to 0.00 ft.

Well Head Completion: 12 inches above grade, Other

Nearest source of possible contamination:

Type	**Distance**	**Direction**
Unknown	0.00 ft.	
Unknown		

Drilling Machine Operator Name: RUSS HOFACRE

Employment: Unknown

Pump Installed: Yes **Pump Installation only**: No
Pump Installation date: **HP**:
Manufacturer: Other **Pump Type**: Other
Model Number: **Pump Capacity**: 726.00 GPM
Length of Drop Pipe: 0.00 ft. **Id of Well**:
Diameter of Drop Pipe:
Draw Down Seal Used: No

Pressure Tank Installed: No
Pressure Tank Type:
Manufacturer:
Model Number : **Tank Capacity** : Gallons
Pressure Relief Valve Installed : No

Formation Description	Thickness	Depth to Bottom
Clay & Sand W/Stones	3.00	3.00
Sand & Gravel	79.00	82.00

Geology Remarks: 1. [CLAY, SAND AND STONES] [3] [3] 2. [SAND AND GRAVEL] [82] [79]

Contractor Type: Unknown
Registration Number:
Business Name:
Business Address:

WATER WELL CONTRACTOR'S CERTIFICATION:
This well was drilled under my supervision and this report is true to the best of my knowledge and belief.

Signature of Registered Contractor **Date**

General Remarks: LIMITED INFORMATION PROVIDED ON WELL LOG; SCREEN FITTINGS WERE WELDED; PUMP TYPE VERTICLE TURBINE

OTHER REMARKS **Well Head Completion**: 12 inch Above Grade **Pump Type**: Type Unknown **Pump Manufacturer**: Pump Manufacturer unknown

EQP 2017C (2/2000)

ATTENTION WELL OWNER: FILE WITH DEED

2/17/2000 18:45

WATER WELL AND PUMP RECORD

Completion is required under authority of Part 127 Act 368 PA 1978.

Failure to comply is a misdemeanor.

Well ID: 46000000084 **Import ID**: 46757433302

Tax No:	**Permit No**:	**County**: Lenawee	**Township**: Tecumseh

Well ID: 46000000084

Elevation: 819 ft

Latitude: 41.997895

Longitude: -83.95096

Fraction:	**Section**:	**Town/Range**:	**WSSN**:	**Source ID/Well No**:
SE¼ NW¼ SE¼	33	05S 04E	6560	TECUMSEH WELL #9

Distance and Direction from Road Intersection: WSSN# 06560;

Well Owner: City Of Tecumseh

Well Address:	**Owner Address**:
TECUMSEH WELL #9 TECUMSEH MI	309 EAST CHICAGO BLVD TECUMSEH MI 49286

Drilling Method: Unknown

Well Depth: 79.50 ft. **Well Use**: Type I public

Well Type: New **Date Completed**: 10/9/1962

Casing Type: Unknown
Casing Joint: Unknown
Diameter: 18.00 in. to 70.00 ft. depth

Bore Diameter 1:
Bore Diameter 2:
Bore Diameter 3:
Height: 0.00 ft. above grade
Casing Fitting: None

Static Water Level: 50.50 ft. Below Grade(Not Flowing)
Yield Test Method: Unknown
Measurement Taken During Pump Test:
63.00 ft. after 1.00 hrs. pumping at 1,750.00 GPM
59.00 ft. after 5.00 hrs. pumping at 1,000.00 GPM

Abandoned Well Plugged: No
Reason for not plugging Well:

Abandoned well ID:

Screen Installed: Yes **Well Intake**:
Filter Packed: No
Screen Diameter: 18.00 in. **Length**: 10.50 ft.
Screen Material Type:
Slot: 37.00 in. Set Between 0.00 ft. and 0.00 ft.
Blank: 0.00 ft. Above
Fittings:
None

Well Grouted: Yes **Grouting Method**: Unknown
No. of Bags: **Additives**: None
Grouting Materials:
Unknown From 0.00 ft. to 0.00 ft.

Well Head Completion: 12 inches above grade, Other

Nearest source of possible contamination:

Type	**Distance**	**Direction**
Unknown	0.00 ft.	
Unknown		

Drilling Machine Operator Name: D. FLECK

Employment: Unknown

Pump Installed: Yes **Pump Installation only**: No
Pump Installation date: **HP**:
Manufacturer: Other **Pump Type**: Other
Model Number: **Pump Capacity**: 800.00 GPM
Length of Drop Pipe: 0.00 ft. **Id of Well**:
Diameter of Drop Pipe:
Draw Down Seal Used: No

Pressure Tank Installed: No
Pressure Tank Type:
Manufacturer:
Model Number : **Tank Capacity** : Gallons
Pressure Relief Valve Installed : No

Formation Description	Thickness	Depth to Bottom
Yellow Sand & Gravel	40.00	40.00
Gray Sand & Gravel Coarse	22.00	62.00
Sand Coarse	11.00	73.00
Sand & Gravel Coarse	6.50	79.50

Geology Remarks: 1. [YELLOW SAND AND GRAVEL] [40] [40] 2. [COARSE GREY SAND AND GRAVEL] [62] [22] 3. [COARSE SAND] [73] [11] 4. [COARSE SAND AND GRAVEL] [79.5] [6.5]

Contractor Type: Unknown
Registration Number:
Business Name:
Business Address:

WATER WELL CONTRACTOR'S CERTIFICATION:
This well was drilled under my supervision and this report is true to the best of my knowledge and belief.

Signature of Registered Contractor **Date**

General Remarks: PUMP TYPE IS VERTICLE TURBINE; LIMITED INFORMATION PROVIDED ON WELL LOG; DRILLERS STOPPED AT 79.5' IN CLAY;

OTHER REMARKS **Well Head Completion**: 12 inch Above Grade **Pump Type**: Type Unknown **Pump Manufacturer**: Pump Manufacturer unknown

EQP 2017C (2/2000)

ATTENTION WELL OWNER: FILE WITH DEED

2/17/2000 18:45

WATER WELL AND PUMP RECORD

Completion is required under authority of Part 127 Act 368 PA 1978.

Well ID: 46000000085 Failure to comply is a misdemeanor. **Import ID**: 46757433303

Tax No:	**Permit No**:	**County**: Lenawee	**Township**: Tecumseh

Well ID: 46000000085

Elevation: 818 ft

Latitude: 41.998157

Longitude: -83.950664

Fraction:	**Section**:	**Town/Range**:	**WSSN**:	**Source ID/Well No**:
SE¼ NW¼ SE¼	33	05S 04E	6560	TECUMSEH WELL #10

Distance and Direction from Road Intersection: WSSN# 06560;

Well Owner: City Of Tecumseh

Well Address:	**Owner Address**:
TECUMSEH WELL #10 TECUMSEH MI	309 EAST CHICAGO BLVD TECUMSEH MI 49286

Drilling Method: Rotary

Well Depth: 77.00 ft. **Well Use**: Type I public

Well Type: New **Date Completed**: 4/13/1964

Casing Type: Unknown
Casing Joint: Unknown
Diameter: 12.00 in. to 67.00 ft. depth

Bore Diameter 1:
Bore Diameter 2:
Bore Diameter 3:
Height: 0.00 ft. above grade
Casing Fitting: None

Pump Installed: Yes **Pump Installation only**: No
Pump Installation date: **HP**:
Manufacturer: Other **Pump Type**: Other
Model Number: **Pump Capacity**: 400.00 GPM
Length of Drop Pipe: 0.00 ft. **Id of Well**:
Diameter of Drop Pipe:
Draw Down Seal Used: No

Pressure Tank Installed: No
Pressure Tank Type:
Manufacturer:
Model Number : **Tank Capacity** : Gallons
Pressure Relief Valve Installed : No

Static Water Level: 48.50 ft. Below Grade(Not Flowing)
Yield Test Method: Unknown
Measurement Taken During Pump Test:

Abandoned Well Plugged: No
Reason for not plugging Well:

Abandoned well ID:

Formation Description	Thickness	Depth to Bottom
Red Clay & Gravel	1.00	1.00
Yellow Sand & Gravel	56.00	57.00
Blue Sand & Gravel	20.00	77.00

Screen Installed: Yes **Well Intake**:
Filter Packed: No
Screen Diameter: 12.00 in. **Length**: 10.00 ft.
Screen Material Type:
Slot: 25.00 in. Set Between 0.00 ft. and 0.00 ft.
Blank: 0.00 ft. Above
Fittings:
Other

Well Grouted: Yes **Grouting Method**: Unknown
No. of Bags: **Additives**: None
Grouting Materials:
Unknown From 0.00 ft. to 0.00 ft.

Well Head Completion: 12 inches above grade, Other

Geology Remarks: 1. [RED CLAY & GRAVEL] [1] [1] 2. [YELLOW SAND & GRAVEL] [57] [56] 3. [BLUE SAND & GRAVEL] [77] [20]

Nearest source of possible contamination:

Type	**Distance**	**Direction**
Unknown	0.00 ft.	
Unknown		

Contractor Type: Unknown
Registration Number:
Business Name:
Business Address:

Drilling Machine Operator Name: DALE DUNBAR

Employment: Unknown

WATER WELL CONTRACTOR'S CERTIFICATION:
This well was drilled under my supervision and this report is true to the best of my knowledge and belief.

Signature of Registered Contractor **Date**

General Remarks: PUMP TYPE IS VERTICLE TURBINE; SCREEN FITTINGS ARE LISTED AS STANDARD

OTHER REMARKS **Screen Fittings**: Type Unknown **Well Head Completion**: 12 inch Above Grade **Pump Type**: Type Unknown **Pump Manufacturer**: Pump Manufacturer unknown

EQP 2017C (2/2000)

ATTENTION WELL OWNER: FILE WITH DEED

2/17/2000 18:45

WATER WELL AND PUMP RECORD

Completion is required under authority of Part 127 Act 368 PA 1978.

Well ID: 46000000086 Failure to comply is a misdemeanor. **Import ID**: 46757433304

Tax No:	**Permit No**:	**County**: Lenawee	**Township**: Tecumseh

Well ID: 46000000086

Elevation: 819 ft

Latitude: 41.9986309754

Longitude: -83.9507754619

Fraction:	**Section**:	**Town/Range**:	**WSSN**:	**Source ID/Well No**:
SE¼ NW¼ SE¼	33	05S 04E	6560	TECUMSEH WELL #11

Distance and Direction from Road Intersection: WSSN# 06560;

Well Owner: City Of Tecumseh

Well Address:
TECUMSEH WELL #11
TECUMSEH MI

Owner Address:
309 EAST CHICAGO BLVD
TECUMSEH MI 49286

Drilling Method: Rotary
Well Depth: 77.00 ft. **Well Use**: Type I public
Well Type: New **Date Completed**: 4/13/1964
Casing Type: Unknown
Casing Joint: Unknown
Diameter: 12.00 in. to 67.00 ft. depth

Bore Diameter 1:
Bore Diameter 2:
Bore Diameter 3:
Height: 0.00 ft. above grade
Casing Fitting: None

Static Water Level: 48.50 ft. Below Grade(Not Flowing)
Yield Test Method: Unknown
Measurement Taken During Pump Test:

Abandoned Well Plugged: No
Reason for not plugging Well:

Abandoned well ID:

Screen Installed: Yes **Well Intake**:
Filter Packed: No
Screen Diameter: 12.00 in. **Length**: 10.50 ft.
Screen Material Type:
Slot: 25.00 in. Set Between 0.00 ft. and 0.00 ft.
Blank: 0.00 ft. Above
Fittings:
Other

Well Grouted: Yes **Grouting Method**: Unknown
No. of Bags: **Additives**: None
Grouting Materials:
Unknown From 0.00 ft. to 0.00 ft.

Well Head Completion: 12 inches above grade, Other

Nearest source of possible contamination:

Type	**Distance**	**Direction**
Unknown	0.00 ft.	
Unknown		

Drilling Machine Operator Name: DALE DUNBAR

Employment: Unknown

Pump Installed: Yes **Pump Installation only**: No
Pump Installation date: **HP**:
Manufacturer: Other **Pump Type**: Other
Model Number: **Pump Capacity**: 390.00 GPM
Length of Drop Pipe: 0.00 ft. **Id of Well**:
Diameter of Drop Pipe:
Draw Down Seal Used: No

Pressure Tank Installed: No
Pressure Tank Type:
Manufacturer:
Model Number : **Tank Capacity** : Gallons
Pressure Relief Valve Installed : No

Formation Description	Thickness	Depth to Bottom
Red Clay & Gravel	1.00	1.00
Yellow Sand & Gravel	56.00	57.00
Blue Sand & Gravel	20.00	77.00

Geology Remarks: 1. [RED CLAY & GRAVEL] [1] [1] 2. [YELLOW SAND & GRAVEL] [57] [56] 3. [BLUE SAND & GRAVEL] [77] [20]

Contractor Type: Unknown
Registration Number:
Business Name:
Business Address:

WATER WELL CONTRACTOR'S CERTIFICATION:
This well was drilled under my supervision and this report is true to the best of my knowledge and belief.

Signature of Registered Contractor **Date**

General Remarks: PUMP TYPE IS VERTICLE TURBINE; FITTINGS LISTED AS STANDARD ON SCREEN;

OTHER REMARKS **Screen Fittings**: Type Unknown **Well Head Completion**: 12 inch Above Grade **Pump Type**: Type Unknown **Pump Manufacturer**: Pump Manufacturer unknown

EQP 2017C (2/2000)

ATTENTION WELL OWNER: FILE WITH DEED

2/17/2000 18:45

Appendix F
Notices of Off-Site Migration

April 2009
Notices of Off-Site Migration

April 8, 2009

CITY OF TECUMSEH
309 E CHICAGO BLVD
TECUMSEH, MI 49286

RE: Property at 101 E RUSSELL RD (325-00253-00), 300 S WYANDOTTE ST (325-0420-00), 600 DAVE WILLIAMS DR (325-0081-00)

Dear Property Owner:

As you are aware, Tecumseh Products Company recently ceased manufacturing operations at 100 East Patterson Street in Tecumseh, Michigan. We are working closely with the City of Tecumseh in an effort to transfer the property to Consolidated Biscuit Company, a major manufacturer of cookies and crackers in North America. Consolidated Biscuit plans to convert the facility into a new manufacturing center and create 500 new jobs here in Tecumseh.

As part of this transaction an environmental investigation was conducted at the facility, which detected the existence of chemical concentrations in soil and groundwater at the facility. The chemical concentrations in groundwater have the potential to migrate into the groundwater below adjacent properties and properties "downgradient" in the natural easterly flow of subsurface groundwater. We have not tested the groundwater below your property, but as a precaution we have concluded that it is likely to be within the area of impacted groundwater. Because of this, Michigan Department of Environmental Quality (MDEQ) Rules require that we provide you with the enclosed Notice of Migration of Contamination, which provides more detail on this condition.

The City's public water supply system does not draw its water from this impacted area of groundwater. The City's water comes from deep wells located to the west of our facility, out of the direction of any migration contamination. The MDEQ annually tests the City's public water supply system for possible contaminants, including the chemicals we have detected at our facility, and this testing confirms that none of these chemicals are in the City's water supply. We have enclosed a copy of the most recent 2007 MDEQ Official Laboratory Report, which indicates "Not Detected" for each of these chemicals.

In addition to the enclosed Notice of Migration, we want to provide you with as much information as possible in order to address possible questions or concerns. Therefore, we have developed a Questions & Answers document, which we have enclosed with this letter. We are working cooperatively with the MDEQ to address this soil and groundwater contamination at our facility. As part of that effort we have installed numerous monitoring wells around the site to conduct regular testing.

1136 Oak Valley Drive
Ann Arbor, MI 48108
www.tecumseh.com

We hope that this letter and the enclosed information answer any questions or concerns. If you wish to discuss this further, please do not hesitate to contact me at (734) 585-9439, or any of the persons listed below.

Sincerely,

Randy Kopke
Facilities Manager

Enclosures: Questions and Answer Document
Notice of Migration
City of Tecumseh Water Supply Test Data

cc: Jason Smith, Corporate Environmental Director, Tecumseh Products Company (731) 707-2889
Kevin Welch, Tecumseh City Manager
Mitch Adelman, MDEQ

April 8, 2009

JOHN J & ANNE E RYAN
210 W CHICAGO BLVD
TECUMSEH, MI 49286

RE: Property at 500 E CUMMINS ST (325-0085-00 & 325-0410-00)

Dear Property Owner:

As you are aware, Tecumseh Products Company recently ceased manufacturing operations at 100 East Patterson Street in Tecumseh, Michigan. We are working closely with the City of Tecumseh in an effort to transfer the property to Consolidated Biscuit Company, a major manufacturer of cookies and crackers in North America. Consolidated Biscuit plans to convert the facility into a new manufacturing center and create 500 new jobs here in Tecumseh.

As part of this transaction an environmental investigation was conducted at the facility, which detected the existence of chemical concentrations in soil and groundwater at the facility. The chemical concentrations in groundwater have the potential to migrate into the groundwater below adjacent properties and properties "downgradient" in the natural easterly flow of subsurface groundwater. We have not tested the groundwater below your property, but as a precaution we have concluded that it is likely to be within the area of impacted groundwater. Because of this, Michigan Department of Environmental Quality (MDEQ) Rules require that we provide you with the enclosed Notice of Migration of Contamination, which provides more detail on this condition.

The City's public water supply system does not draw its water from this impacted area of groundwater. The City's water comes from deep wells located to the west of our facility, out of the direction of any migration contamination. The MDEQ annually tests the City's public water supply system for possible contaminants, including the chemicals we have detected at our facility, and this testing confirms that none of these chemicals are in the City's water supply. We have enclosed a copy of the most recent 2007 MDEQ Official Laboratory Report, which indicates "Not Detected" for each of these chemicals.

In addition to the enclosed Notice of Migration, we want to provide you with as much information as possible in order to address possible questions or concerns. Therefore, we have developed a Questions & Answers document, which we have enclosed with this letter. We are working cooperatively with the MDEQ to address this soil and groundwater contamination at our facility. As part of that effort we have installed numerous monitoring wells around the site to conduct regular testing.

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Sincerely,

Randy Kopke
Facilities Manager

Enclosures: Questions and Answer Document
Notice of Migration
City of Tecumseh Water Supply Test Data

cc: Jason Smith, Corporate Environmental Director, Tecumseh Products Company (731) 707-2889
Kevin Welch, Tecumseh City Manager
Mitch Adelman, MDEQ

Tecumseh

April 8, 2009

MARTIN JR & CAROL BOOT
416 E CUMMINS ST
TECUMSEH, MI 49286

RE: Property at 416 E CUMMINS ST (325-0091-00)

Dear Property Owner:

As you are aware, Tecumseh Products Company recently ceased manufacturing operations at 100 East Patterson Street in Tecumseh, Michigan. We are working closely with the City of Tecumseh in an effort to transfer the property to Consolidated Biscuit Company, a major manufacturer of cookies and crackers in North America. Consolidated Biscuit plans to convert the facility into a new manufacturing center and create 500 new jobs here in Tecumseh.

As part of this transaction an environmental investigation was conducted at the facility, which detected the existence of chemical concentrations in soil and groundwater at the facility. The chemical concentrations in groundwater have the potential to migrate into the groundwater below adjacent properties and properties "downgradient" in the natural easterly flow of subsurface groundwater. We have not tested the groundwater below your property, but as a precaution we have concluded that it is likely to be within the area of impacted groundwater. Because of this, Michigan Department of Environmental Quality (MDEQ) Rules require that we provide you with the enclosed Notice of Migration of Contamination, which provides more detail on this condition.

The City's public water supply system does not draw its water from this impacted area of groundwater. The City's water comes from deep wells located to the west of our facility, out of the direction of any migration contamination. The MDEQ annually tests the City's public water supply system for possible contaminants, including the chemicals we have detected at our facility, and this testing confirms that none of these chemicals are in the City's water supply. We have enclosed a copy of the most recent 2007 MDEQ Official Laboratory Report, which indicates "Not Detected" for each of these chemicals.

In addition to the enclosed Notice of Migration, we want to provide you with as much information as possible in order to address possible questions or concerns. Therefore, we have developed a Questions & Answers document, which we have enclosed with this letter. We are working cooperatively with the MDEQ to address this soil and groundwater contamination at our facility. As part of that effort we have installed numerous monitoring wells around the site to conduct regular testing.

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Ann Arbor, MI 48108
www.tecumseh.com

We hope that this letter and the enclosed information answer any questions or concerns. If you wish to discuss this further, please do not hesitate to contact me at (734) 585-9439, or any of the persons listed below.

Sincerely,

Randy Kopke
Facilities Manager

Enclosures: Questions and Answer Document
Notice of Migration
City of Tecumseh Water Supply Test Data

cc: Jason Smith, Corporate Environmental Director, Tecumseh Products Company (731) 707-2889
Kevin Welch, Tecumseh City Manager
Mitch Adelman, MDEQ

Tecumseh

April 8, 2009

JF CALM LLC
962 FAIRWAY COVE
TECUMSEH, MI 49286

RE: Property at 504 E CUMMINS ST (325-0094-00)

Dear Property Owner:

As you are aware, Tecumseh Products Company recently ceased manufacturing operations at 100 East Patterson Street in Tecumseh, Michigan. We are working closely with the City of Tecumseh in an effort to transfer the property to Consolidated Biscuit Company, a major manufacturer of cookies and crackers in North America. Consolidated Biscuit plans to convert the facility into a new manufacturing center and create 500 new jobs here in Tecumseh.

As part of this transaction an environmental investigation was conducted at the facility, which detected the existence of chemical concentrations in soil and groundwater at the facility. The chemical concentrations in groundwater have the potential to migrate into the groundwater below adjacent properties and properties "downgradient" in the natural easterly flow of subsurface groundwater. We have not tested the groundwater below your property, but as a precaution we have concluded that it is likely to be within the area of impacted groundwater. Because of this, Michigan Department of Environmental Quality (MDEQ) Rules require that we provide you with the enclosed Notice of Migration of Contamination, which provides more detail on this condition.

The City's public water supply system does not draw its water from this impacted area of groundwater. The City's water comes from deep wells located to the west of our facility, out of the direction of any migration contamination. The MDEQ annually tests the City's public water supply system for possible contaminants, including the chemicals we have detected at our facility, and this testing confirms that none of these chemicals are in the City's water supply. We have enclosed a copy of the most recent 2007 MDEQ Official Laboratory Report, which indicates "Not Detected" for each of these chemicals.

In addition to the enclosed Notice of Migration, we want to provide you with as much information as possible in order to address possible questions or concerns. Therefore, we have developed a Questions & Answers document, which we have enclosed with this letter. We are working cooperatively with the MDEQ to address this soil and groundwater contamination at our facility. As part of that effort we have installed numerous monitoring wells around the site to conduct regular testing.

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Ann Arbor, MI 48108
www.tecumseh.com

We hope that this letter and the enclosed information answer any questions or concerns. If you wish to discuss this further, please do not hesitate to contact me at (734) 585-9439, or any of the persons listed below.

Sincerely,

Randy Kopke
Facilities Manager

Enclosures: Questions and Answer Document
Notice of Migration
City of Tecumseh Water Supply Test Data

cc: Jason Smith, Corporate Environmental Director, Tecumseh Products Company (731) 707-2889
Kevin Welch, Tecumseh City Manager
Mitch Adelman, MDEQ

Tecumseh

April 8, 2009

D & P COMMUNICATIONS, INC
4200 TEAL RD
PETERSBURG, MI 49270

RE: Property at 415 S MAUMEE ST, TECUMSEH, MI (325-0100-00)

Dear Property Owner:

As you are aware, Tecumseh Products Company recently ceased manufacturing operations at 100 East Patterson Street in Tecumseh, Michigan. We are working closely with the City of Tecumseh in an effort to transfer the property to Consolidated Biscuit Company, a major manufacturer of cookies and crackers in North America. Consolidated Biscuit plans to convert the facility into a new manufacturing center and create 500 new jobs here in Tecumseh.

As part of this transaction an environmental investigation was conducted at the facility, which detected the existence of chemical concentrations in soil and groundwater at the facility. The chemical concentrations in groundwater have the potential to migrate into the groundwater below adjacent properties and properties "downgradient" in the natural easterly flow of subsurface groundwater. We have not tested the groundwater below your property, but as a precaution we have concluded that it is likely to be within the area of impacted groundwater. Because of this, Michigan Department of Environmental Quality (MDEQ) Rules require that we provide you with the enclosed Notice of Migration of Contamination, which provides more detail on this condition.

The City's public water supply system does not draw its water from this impacted area of groundwater. The City's water comes from deep wells located to the west of our facility, out of the direction of any migration contamination. The MDEQ annually tests the City's public water supply system for possible contaminants, including the chemicals we have detected at our facility, and this testing confirms that none of these chemicals are in the City's water supply. We have enclosed a copy of the most recent 2007 MDEQ Official Laboratory Report, which indicates "Not Detected" for each of these chemicals.

In addition to the enclosed Notice of Migration, we want to provide you with as much information as possible in order to address possible questions or concerns. Therefore, we have developed a Questions & Answers document, which we have enclosed with this letter. We are working cooperatively with the MDEQ to address this soil and groundwater contamination at our facility. As part of that effort we have installed numerous monitoring wells around the site to conduct regular testing.

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www.tecumseh.com

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Sincerely,

Randy Kopke
Facilities Manager

Enclosures: Questions and Answer Document
Notice of Migration
City of Tecumseh Water Supply Test Data

cc: Jason Smith, Corporate Environmental Director, Tecumseh Products Company (731) 707-2889
Kevin Welch, Tecumseh City Manager
Mitch Adelman, MDEQ

Tecumseh

April 8, 2009

CONSUMERS ENERGY CO
ONE ENERGY PLAZA
JACKSON, MI 49201

RE: Property at 201 E PATTERSON ST (325-0170-00), 205 E PATTERSON ST (325-0190-00), TECUMSEH, MI

Dear Property Owner:

As you are aware, Tecumseh Products Company recently ceased manufacturing operations at 100 East Patterson Street in Tecumseh, Michigan. We are working closely with the City of Tecumseh in an effort to transfer the property to Consolidated Biscuit Company, a major manufacturer of cookies and crackers in North America. Consolidated Biscuit plans to convert the facility into a new manufacturing center and create 500 new jobs here in Tecumseh.

As part of this transaction an environmental investigation was conducted at the facility, which detected the existence of chemical concentrations in soil and groundwater at the facility. The chemical concentrations in groundwater have the potential to migrate into the groundwater below adjacent properties and properties "downgradient" in the natural easterly flow of subsurface groundwater. We have not tested the groundwater below your property, but as a precaution we have concluded that it is likely to be within the area of impacted groundwater. Because of this, Michigan Department of Environmental Quality (MDEQ) Rules require that we provide you with the enclosed Notice of Migration of Contamination, which provides more detail on this condition.

The City's public water supply system does <u>not</u> draw its water from this impacted area of groundwater. The City's water comes from deep wells located to the west of our facility, out of the direction of any migration contamination. The MDEQ annually tests the City's public water supply system for possible contaminants, including the chemicals we have detected at our facility, and this testing confirms that none of these chemicals are in the City's water supply. We have enclosed a copy of the most recent 2007 MDEQ Official Laboratory Report, which indicates "Not Detected" for each of these chemicals.

In addition to the enclosed Notice of Migration, we want to provide you with as much information as possible in order to address possible questions or concerns. Therefore, we have developed a Questions & Answers document, which we have enclosed with this letter. We are working cooperatively with the MDEQ to address this soil and groundwater contamination at our facility. As part of that effort we have installed numerous monitoring wells around the site to conduct regular testing.

1136 Oak Valley Drive
Ann Arbor, MI 48108
www.tecumseh.com

We hope that this letter and the enclosed information answer any questions or concerns. If you wish to discuss this further, please do not hesitate to contact me at (734) 585-9439, or any of the persons listed below.

Sincerely,

Randy Kopke
Facilities Manager

Enclosures: Questions and Answer Document
Notice of Migration
City of Tecumseh Water Supply Test Data

cc: Jason Smith, Corporate Environmental Director, Tecumseh Products Company (731) 707-2889
Kevin Welch, Tecumseh City Manager
Mitch Adelman, MDEQ

Tecumseh

April 8, 2009

DENNIS C & KAREN IRELAN
BOX 66
TECUMSEH, MI 49286

RE: Property at 209 E PATTERSON ST (325-0180-00)

Dear Property Owner:

As you are aware, Tecumseh Products Company recently ceased manufacturing operations at 100 East Patterson Street in Tecumseh, Michigan. We are working closely with the City of Tecumseh in an effort to transfer the property to Consolidated Biscuit Company, a major manufacturer of cookies and crackers in North America. Consolidated Biscuit plans to convert the facility into a new manufacturing center and create 500 new jobs here in Tecumseh.

As part of this transaction an environmental investigation was conducted at the facility, which detected the existence of chemical concentrations in soil and groundwater at the facility. The chemical concentrations in groundwater have the potential to migrate into the groundwater below adjacent properties and properties "downgradient" in the natural easterly flow of subsurface groundwater. We have not tested the groundwater below your property, but as a precaution we have concluded that it is likely to be within the area of impacted groundwater. Because of this, Michigan Department of Environmental Quality (MDEQ) Rules require that we provide you with the enclosed Notice of Migration of Contamination, which provides more detail on this condition.

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In addition to the enclosed Notice of Migration, we want to provide you with as much information as possible in order to address possible questions or concerns. Therefore, we have developed a Questions & Answers document, which we have enclosed with this letter. We are working cooperatively with the MDEQ to address this soil and groundwater contamination at our facility. As part of that effort we have installed numerous monitoring wells around the site to conduct regular testing.

1136 Oak Valley Drive
Ann Arbor, MI 48108
www.tecumseh.com

We hope that this letter and the enclosed information answer any questions or concerns. If you wish to discuss this further, please do not hesitate to contact me at (734) 585-9439, or any of the persons listed below.

Sincerely,

Randy Kopke
Facilities Manager

Enclosures: Questions and Answer Document
Notice of Migration
City of Tecumseh Water Supply Test Data

cc: Jason Smith, Corporate Environmental Director, Tecumseh Products Company (731) 707-2889
Kevin Welch, Tecumseh City Manager
Mitch Adelman, MDEQ

Tecumseh

April 8, 2009

M & S LAND HOLDINGS, LLC
8514 PENNINGTON RD
TECUMSEH, MI 49286

RE: Property at 223 E PATTERSON ST (325-0200-00)

Dear Property Owner:

As you are aware, Tecumseh Products Company recently ceased manufacturing operations at 100 East Patterson Street in Tecumseh, Michigan. We are working closely with the City of Tecumseh in an effort to transfer the property to Consolidated Biscuit Company, a major manufacturer of cookies and crackers in North America. Consolidated Biscuit plans to convert the facility into a new manufacturing center and create 500 new jobs here in Tecumseh.

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Sincerely,

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Facilities Manager

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Notice of Migration
City of Tecumseh Water Supply Test Data

cc: Jason Smith, Corporate Environmental Director, Tecumseh Products Company (731) 707-2889
Kevin Welch, Tecumseh City Manager
Mitch Adelman, MDEQ

Tecumseh

April 8, 2009

TODD & LINDA HERRICK
3970 PENINSULA DR
PETOSKEY, MI 49770

RE: Property at 105 E RUSSELL RD, TECUMSEH, MI (325-0251-00)

Dear Property Owner:

As you are aware, Tecumseh Products Company recently ceased manufacturing operations at 100 East Patterson Street in Tecumseh, Michigan. We are working closely with the City of Tecumseh in an effort to transfer the property to Consolidated Biscuit Company, a major manufacturer of cookies and crackers in North America. Consolidated Biscuit plans to convert the facility into a new manufacturing center and create 500 new jobs here in Tecumseh.

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Sincerely,

Randy Kopke
Facilities Manager

Enclosures: Questions and Answer Document
Notice of Migration
City of Tecumseh Water Supply Test Data

cc: Jason Smith, Corporate Environmental Director, Tecumseh Products Company (731) 707-2889
Kevin Welch, Tecumseh City Manager
Mitch Adelman, MDEQ

Tecumseh

April 8, 2009

UNITED BANK & TRUST
P O BOX 248
TECUMSEH, MI 49286

RE: Property at 209 E RUSSELL RD (325-0252-00)

Dear Property Owner:

As you are aware, Tecumseh Products Company recently ceased manufacturing operations at 100 East Patterson Street in Tecumseh, Michigan. We are working closely with the City of Tecumseh in an effort to transfer the property to Consolidated Biscuit Company, a major manufacturer of cookies and crackers in North America. Consolidated Biscuit plans to convert the facility into a new manufacturing center and create 500 new jobs here in Tecumseh.

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Sincerely,

Randy Kopke
Facilities Manager

Enclosures: Questions and Answer Document
Notice of Migration
City of Tecumseh Water Supply Test Data

cc: Jason Smith, Corporate Environmental Director, Tecumseh Products Company (731) 707-2889
Kevin Welch, Tecumseh City Manager
Mitch Adelman, MDEQ

Tecumseh

April 8, 2009

DONALD J MARTIN TRUST
145 W CHICAGO BLVD
TECUMSEH, MI 49286

RE: Property at 805 S MAUMEE ST (325-0261-00)

Dear Property Owner:

As you are aware, Tecumseh Products Company recently ceased manufacturing operations at 100 East Patterson Street in Tecumseh, Michigan. We are working closely with the City of Tecumseh in an effort to transfer the property to Consolidated Biscuit Company, a major manufacturer of cookies and crackers in North America. Consolidated Biscuit plans to convert the facility into a new manufacturing center and create 500 new jobs here in Tecumseh.

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Sincerely,

Randy Kopke
Facilities Manager

Enclosures: Questions and Answer Document
Notice of Migration
City of Tecumseh Water Supply Test Data

cc: Jason Smith, Corporate Environmental Director, Tecumseh Products Company (731) 707-2889
Kevin Welch, Tecumseh City Manager
Mitch Adelman, MDEQ

Tecumseh

April 8, 2009

ROBERTS INVESTMENT COMPANY LLC
P.O. BOX 400
TECUMSEH, MI 49286

RE: Property at 800 S MAUMEE ST (325-0321-00)

Dear Property Owner:

As you are aware, Tecumseh Products Company recently ceased manufacturing operations at 100 East Patterson Street in Tecumseh, Michigan. We are working closely with the City of Tecumseh in an effort to transfer the property to Consolidated Biscuit Company, a major manufacturer of cookies and crackers in North America. Consolidated Biscuit plans to convert the facility into a new manufacturing center and create 500 new jobs here in Tecumseh.

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Sincerely,

Randy Kopke
Facilities Manager

Enclosures: Questions and Answer Document
Notice of Migration
City of Tecumseh Water Supply Test Data

cc: Jason Smith, Corporate Environmental Director, Tecumseh Products Company (731) 707-2889
Kevin Welch, Tecumseh City Manager
Mitch Adelman, MDEQ

Tecumseh

April 8, 2009

G T E TELEPHONE OPER
19845 NORTH US 31 POB 407
WESTFIELD, IN 46074

RE: Property at 606 S MAUMEE ST, TECUMSEH, MI (325-0324-00 & 325-0327-00)

Dear Property Owner:

As you are aware, Tecumseh Products Company recently ceased manufacturing operations at 100 East Patterson Street in Tecumseh, Michigan. We are working closely with the City of Tecumseh in an effort to transfer the property to Consolidated Biscuit Company, a major manufacturer of cookies and crackers in North America. Consolidated Biscuit plans to convert the facility into a new manufacturing center and create 500 new jobs here in Tecumseh.

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Sincerely,

Randy Kopke
Facilities Manager

Enclosures: Questions and Answer Document
Notice of Migration
City of Tecumseh Water Supply Test Data

cc: Jason Smith, Corporate Environmental Director, Tecumseh Products Company (731) 707-2889
Kevin Welch, Tecumseh City Manager
Mitch Adelman, MDEQ

Tecumseh

April 8, 2009

CALLISON LEASING CORPORATION
610 S MAUMEE ST
TECUMSEH, MI 49286

RE: Property at 610 S MAUMEE ST (325-0325-00)

Dear Property Owner:

As you are aware, Tecumseh Products Company recently ceased manufacturing operations at 100 East Patterson Street in Tecumseh, Michigan. We are working closely with the City of Tecumseh in an effort to transfer the property to Consolidated Biscuit Company, a major manufacturer of cookies and crackers in North America. Consolidated Biscuit plans to convert the facility into a new manufacturing center and create 500 new jobs here in Tecumseh.

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Enclosures: Questions and Answer Document
Notice of Migration
City of Tecumseh Water Supply Test Data

cc: Jason Smith, Corporate Environmental Director, Tecumseh Products Company (731) 707-2889
Kevin Welch, Tecumseh City Manager
Mitch Adelman, MDEQ

Tecumseh

April 8, 2009

TECUMSEH PUBLIC SCHOOLS
212 N OTTAWA ST
TECUMSEH, MI 49286

RE: Property at 700 S MAUMEE ST (325-0326-00)

Dear Property Owner:

As you are aware, Tecumseh Products Company recently ceased manufacturing operations at 100 East Patterson Street in Tecumseh, Michigan. We are working closely with the City of Tecumseh in an effort to transfer the property to Consolidated Biscuit Company, a major manufacturer of cookies and crackers in North America. Consolidated Biscuit plans to convert the facility into a new manufacturing center and create 500 new jobs here in Tecumseh.

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Enclosures: Questions and Answer Document
Notice of Migration
City of Tecumseh Water Supply Test Data

cc: Jason Smith, Corporate Environmental Director, Tecumseh Products Company (731) 707-2889
Kevin Welch, Tecumseh City Manager
Mitch Adelman, MDEQ

Tecumseh

April 8, 2009

TECUMSEH SELF STORAGE LLC
500 W KILBUCK ST
TECUMSEH, MI 49286

RE: Property at 800 MOHAWK ST (325-0329-00 & 325-0328-00)

Dear Property Owner:

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Enclosures: Questions and Answer Document
Notice of Migration
City of Tecumseh Water Supply Test Data

cc: Jason Smith, Corporate Environmental Director, Tecumseh Products Company (731) 707-2889
Kevin Welch, Tecumseh City Manager
Mitch Adelman, MDEQ

Tecumseh

April 8, 2009

KEVIN G & JASON E DERBY
508 MOHAWK ST
TECUMSEH, MI 49286

RE: Property at 508 MOHAWK ST (325-0340-00)

Dear Property Owner:

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Enclosures: Questions and Answer Document
Notice of Migration
City of Tecumseh Water Supply Test Data

cc: Jason Smith, Corporate Environmental Director, Tecumseh Products Company (731) 707-2889
Kevin Welch, Tecumseh City Manager
Mitch Adelman, MDEQ

Tecumseh

April 8, 2009

HAROLD E SPEER
210 W SHAWNEE ST
TECUMSEH, MI 49286

RE: Property at 505 S MAUMEE ST (325-0351-00), 507 S MAUMEE ST (325-0322-00)

Dear Property Owner:

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Notice of Migration
City of Tecumseh Water Supply Test Data

cc: Jason Smith, Corporate Environmental Director, Tecumseh Products Company (731) 707-2889
Kevin Welch, Tecumseh City Manager
Mitch Adelman, MDEQ

Tecumseh

April 8, 2009

TODD E KLANKE
502 MOHAWK ST
TECUMSEH, MI 49286

RE: Property at 502 MOHAWK ST (325-0361-00)

Dear Property Owner:

As you are aware, Tecumseh Products Company recently ceased manufacturing operations at 100 East Patterson Street in Tecumseh, Michigan. We are working closely with the City of Tecumseh in an effort to transfer the property to Consolidated Biscuit Company, a major manufacturer of cookies and crackers in North America. Consolidated Biscuit plans to convert the facility into a new manufacturing center and create 500 new jobs here in Tecumseh.

As part of this transaction an environmental investigation was conducted at the facility, which detected the existence of chemical concentrations in soil and groundwater at the facility. The chemical concentrations in groundwater have the potential to migrate into the groundwater below adjacent properties and properties "downgradient" in the natural easterly flow of subsurface groundwater. We have not tested the groundwater below your property, but as a precaution we have concluded that it is likely to be within the area of impacted groundwater. Because of this, Michigan Department of Environmental Quality (MDEQ) Rules require that we provide you with the enclosed Notice of Migration of Contamination, which provides more detail on this condition.

The City's public water supply system does not draw its water from this impacted area of groundwater. The City's water comes from deep wells located to the west of our facility, out of the direction of any migration contamination. The MDEQ annually tests the City's public water supply system for possible contaminants, including the chemicals we have detected at our facility, and this testing confirms that none of these chemicals are in the City's water supply. We have enclosed a copy of the most recent 2007 MDEQ Official Laboratory Report, which indicates "Not Detected" for each of these chemicals.

In addition to the enclosed Notice of Migration, we want to provide you with as much information as possible in order to address possible questions or concerns. Therefore, we have developed a Questions & Answers document, which we have enclosed with this letter. We are working cooperatively with the MDEQ to address this soil and groundwater contamination at our facility. As part of that effort we have installed numerous monitoring wells around the site to conduct regular testing.

1136 Oak Valley Drive
Ann Arbor, MI 48108
www.tecumseh.com

We hope that this letter and the enclosed information answer any questions or concerns. If you wish to discuss this further, please do not hesitate to contact me at (734) 585-9439, or any of the persons listed below.

Sincerely,

Randy Kopke
Facilities Manager

Enclosures: Questions and Answer Document
Notice of Migration
City of Tecumseh Water Supply Test Data

cc: Jason Smith, Corporate Environmental Director, Tecumseh Products Company (731) 707-2889
Kevin Welch, Tecumseh City Manager
Mitch Adelman, MDEQ

Tecumseh

April 8, 2009

NOVAK LLC
426 S MAUMEE ST
TECUMSEH, MI 49286

RE: Property at 426 S MAUMEE ST (325-0380-00)

Dear Property Owner:

As you are aware, Tecumseh Products Company recently ceased manufacturing operations at 100 East Patterson Street in Tecumseh, Michigan. We are working closely with the City of Tecumseh in an effort to transfer the property to Consolidated Biscuit Company, a major manufacturer of cookies and crackers in North America. Consolidated Biscuit plans to convert the facility into a new manufacturing center and create 500 new jobs here in Tecumseh.

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Sincerely,

Randy Kopke
Facilities Manager

Enclosures: Questions and Answer Document
Notice of Migration
City of Tecumseh Water Supply Test Data

cc: Jason Smith, Corporate Environmental Director, Tecumseh Products Company (731) 707-2889
Kevin Welch, Tecumseh City Manager
Mitch Adelman, MDEQ

April 8, 2009

SLUSARSKI INVESTMENT COMPANY LLC
119 GREENLY STREET
ADRIAN, MI 49221

RE: Property at 424 S MAUMEE ST, TECUMSEH, MI (325-0390-00)

Dear Property Owner:

As you are aware, Tecumseh Products Company recently ceased manufacturing operations at 100 East Patterson Street in Tecumseh, Michigan. We are working closely with the City of Tecumseh in an effort to transfer the property to Consolidated Biscuit Company, a major manufacturer of cookies and crackers in North America. Consolidated Biscuit plans to convert the facility into a new manufacturing center and create 500 new jobs here in Tecumseh.

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Sincerely,

Randy Kopke
Facilities Manager

Enclosures: Questions and Answer Document
Notice of Migration
City of Tecumseh Water Supply Test Data

cc: Jason Smith, Corporate Environmental Director, Tecumseh Products Company (731) 707-2889
Kevin Welch, Tecumseh City Manager
Mitch Adelman, MDEQ

Tecumseh

April 8, 2009

MARTIN & CAROL BOOT
807 RED MILL DR
TECUMSEH, MI 49286

RE: Property at 414 S MAUMEE ST (325-0401-00)

Dear Property Owner:

As you are aware, Tecumseh Products Company recently ceased manufacturing operations at 100 East Patterson Street in Tecumseh, Michigan. We are working closely with the City of Tecumseh in an effort to transfer the property to Consolidated Biscuit Company, a major manufacturer of cookies and crackers in North America. Consolidated Biscuit plans to convert the facility into a new manufacturing center and create 500 new jobs here in Tecumseh.

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Sincerely,

Randy Kopke
Facilities Manager

Enclosures: Questions and Answer Document
Notice of Migration
City of Tecumseh Water Supply Test Data

cc: Jason Smith, Corporate Environmental Director, Tecumseh Products Company (731) 707-2889
Kevin Welch, Tecumseh City Manager
Mitch Adelman, MDEQ

Tecumseh

April 8, 2009

HULL INVESTMENTS
119 W CHICAGO BLVD
TECUMSEH, MI 49286

RE: Property at 704 MOHAWK ST (325-0323-00)

Dear Property Owner:

As you are aware, Tecumseh Products Company recently ceased manufacturing operations at 100 East Patterson Street in Tecumseh, Michigan. We are working closely with the City of Tecumseh in an effort to transfer the property to Consolidated Biscuit Company, a major manufacturer of cookies and crackers in North America. Consolidated Biscuit plans to convert the facility into a new manufacturing center and create 500 new jobs here in Tecumseh.

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Sincerely,

Randy Kopke
Facilities Manager

Enclosures: Questions and Answer Document
Notice of Migration
City of Tecumseh Water Supply Test Data

cc: Jason Smith, Corporate Environmental Director, Tecumseh Products Company (731) 707-2889
Kevin Welch, Tecumseh City Manager
Mitch Adelman, MDEQ

Tecumseh

April 8, 2009

ROBERT W LOGAN
1207 MURRAY DR
TECUMSEH, MI 49286

RE: Property at 607 MOHAWK ST, (325-0432-00)

Dear Property Owner:

As you are aware, Tecumseh Products Company recently ceased manufacturing operations at 100 East Patterson Street in Tecumseh, Michigan. We are working closely with the City of Tecumseh in an effort to transfer the property to Consolidated Biscuit Company, a major manufacturer of cookies and crackers in North America. Consolidated Biscuit plans to convert the facility into a new manufacturing center and create 500 new jobs here in Tecumseh.

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Our review of public records and discussions with the City indicate that your property may not be connected to the City's public water supply system. We would like to verify whether your property uses its own private water supply well, and if so we would like to collect a water sample from your well and have it tested at our cost by our environmental consultant, RMT, Inc. Please contact me at the number below to arrange this.

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Randy Kopke
Facilities Manager

Enclosures: Questions and Answer Document
Notice of Migration
City of Tecumseh Water Supply Test Data

cc: Jason Smith, Corporate Environmental Director, Tecumseh Products Company (731) 707-2889
Kevin Welch, Tecumseh City Manager
Mitch Adelman, MDEQ

Tecumseh

April 8, 2009

EDWARD & DONALD HULL
509 E CHICAGO BLVD
TECUMSEH, MI 49286

RE: Property at 707 BLOOD RD, (325-0431-00)

Dear Property Owner:

As you are aware, Tecumseh Products Company recently ceased manufacturing operations at 100 East Patterson Street in Tecumseh, Michigan. We are working closely with the City of Tecumseh in an effort to transfer the property to Consolidated Biscuit Company, a major manufacturer of cookies and crackers in North America. Consolidated Biscuit plans to convert the facility into a new manufacturing center and create 500 new jobs here in Tecumseh.

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Facilities Manager

Enclosures: Questions and Answer Document
Notice of Migration
City of Tecumseh Water Supply Test Data

cc: Jason Smith, Corporate Environmental Director, Tecumseh Products Company (731) 707-2889
Kevin Welch, Tecumseh City Manager
Mitch Adelman, MDEQ

Tecumseh

April 8, 2009

MAYNARD MINI SERVICES, INC
101 CARRIAGE DR
TECUMSEH, MI 49286

RE: Property at 701 MILL HWY (325-0312-00)

Dear Property Owner:

As you are aware, Tecumseh Products Company recently ceased manufacturing operations at 100 East Patterson Street in Tecumseh, Michigan. We are working closely with the City of Tecumseh in an effort to transfer the property to Consolidated Biscuit Company, a major manufacturer of cookies and crackers in North America. Consolidated Biscuit plans to convert the facility into a new manufacturing center and create 500 new jobs here in Tecumseh.

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Enclosures: Questions and Answer Document
Notice of Migration
City of Tecumseh Water Supply Test Data

cc: Jason Smith, Corporate Environmental Director, Tecumseh Products Company (731) 707-2889
Kevin Welch, Tecumseh City Manager
Mitch Adelman, MDEQ

Tecumseh

April 8, 2009

RONALD A & SHERRIE L BIRCHFIELD
5371 N RAISIN CENTER HWY
TECUMSEH, MI 49286

RE: Property at 600 MOHAWK ST (325-0433-00), 611 MOHAWK ST (325-0434-00), 615 MOHAWK ST (325-0435-00)

Dear Property Owner:

As you are aware, Tecumseh Products Company recently ceased manufacturing operations at 100 East Patterson Street in Tecumseh, Michigan. We are working closely with the City of Tecumseh in an effort to transfer the property to Consolidated Biscuit Company, a major manufacturer of cookies and crackers in North America. Consolidated Biscuit plans to convert the facility into a new manufacturing center and create 500 new jobs here in Tecumseh.

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Enclosures: Questions and Answer Document
Notice of Migration
City of Tecumseh Water Supply Test Data

cc: Jason Smith, Corporate Environmental Director, Tecumseh Products Company (731) 707-2889
Kevin Welch, Tecumseh City Manager
Mitch Adelman, MDEQ

Tecumseh

April 8, 2009

SCOTT R LASK
610 MOHAWK ST
TECUMSEH, MI 49286

RE: Property at 610 MOHAWK ST, (325-0330-00)

Dear Property Owner:

As you are aware, Tecumseh Products Company recently ceased manufacturing operations at 100 East Patterson Street in Tecumseh, Michigan. We are working closely with the City of Tecumseh in an effort to transfer the property to Consolidated Biscuit Company, a major manufacturer of cookies and crackers in North America. Consolidated Biscuit plans to convert the facility into a new manufacturing center and create 500 new jobs here in Tecumseh.

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Enclosures: Questions and Answer Document
Notice of Migration
City of Tecumseh Water Supply Test Data

cc: Jason Smith, Corporate Environmental Director, Tecumseh Products Company (731) 707-2889
Kevin Welch, Tecumseh City Manager
Mitch Adelman, MDEQ

Tecumseh

April 8, 2009

FRANK L BATYIK
3614 NOLAND DR
TECUMSEH, MI 49286

RE: Property at 509 MOHAWK ST (325-0370-00)

Dear Property Owner:

As you are aware, Tecumseh Products Company recently ceased manufacturing operations at 100 East Patterson Street in Tecumseh, Michigan. We are working closely with the City of Tecumseh in an effort to transfer the property to Consolidated Biscuit Company, a major manufacturer of cookies and crackers in North America. Consolidated Biscuit plans to convert the facility into a new manufacturing center and create 500 new jobs here in Tecumseh.

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Randy Kopke
Facilities Manager

Enclosures: Questions and Answer Document
Notice of Migration
City of Tecumseh Water Supply Test Data

cc: Jason Smith, Corporate Environmental Director, Tecumseh Products Company (731) 707-2889
Kevin Welch, Tecumseh City Manager
Mitch Adelman, MDEQ

Questions and Answers

1. **I received a notice of off-site migration. What do I do now?**
   In most cases you do not need to do anything. Because chemical concentrations were detected in groundwater above the criteria established by the Michigan Department of Environmental Quality near the perimeter of the Tecumseh Products Company site, the Michigan Department of Environmental Quality requires that the Tecumseh Products Company notify property owners whose property might be affected by off-site migration of affected groundwater. If you receive your water from the City's public water supply system, rather than water from an on-site well, you are not likely to come in contact with the groundwater. However, if you have a private well on your property, see the response to Questions 4 and 5 below.

2. **What is groundwater, and how far below ground is it?**
   Groundwater is water located beneath the ground surface in soil pore spaces (i.e., space between grains of sand). The depth at which these soil pore spaces become completely saturated with water is called the groundwater table. The depth at which the soil becomes saturated in the vicinity of the Tecumseh Products Company site is approximately 10 to 25 feet below the ground surface. This groundwater is stored in and moves through layers of soil and sand called aquifers. These materials are permeable because they have connected spaces that allow water to flow through. Data collected at the Tecumseh Products Company site show that groundwater is generally flowing towards the east.

3. **Can I drink/use my tap water?**
   The Tecumseh Products Company is not aware that this condition affects the City's public water supply system. Please contact your water utility if you have specific questions on the condition of your tap water. If you have a private well see the response to Questions 4 and 5 below.

1136 Oak Valley Drive
Ann Arbor, MI 48108
www.tecumseh.com

Questions and Answers (Continued)

4. **What if I have a well on my property?**
   The Tecumseh Products Company is currently unaware of any evidence that chemicals are present in groundwater at typical well depths (greater than 50 feet). However, if you have a well on your property, as a precautionary measure Tecumseh Products Company would like to collect and analyze a water sample from your well. Please notify Randy Kopke at Tecumseh Products Company (734) 585-9439 at your earliest convenience to arrange for this. The sample will be collected by our environmental consultant, RMT Inc., and a chemical analysis will be performed at no cost to you. We will provide you with the results of the laboratory analysis of the sample when we receive it, and we will be available to answer any questions or concerns you may have.

5. **If I have a private water supply well as my water supply source, can I continue to use it?**
   At this time, the Tecumseh Products Company has no data that shows water from any private water supply wells has chemical concentrations above the Michigan Department of Environmental Quality criteria. If you have a well on your property, please arrange to have the water tested as indicated in Question 4 above.

6. **Do I have to be concerned above migration of chemicals into the air in my basement or house?**
   The Michigan Department of Environmental Quality has established groundwater criteria to evaluate when there might be a risk that groundwater contaminant vapors might enter buildings. Concentrations detected at the Tecumseh Products Company perimeter are below these criteria.

7. **Is it safe for my children/pets to play outside in the yard?**
   Off-site migration is in subsurface groundwater; therefore children and pets playing outside are typically not exposed to chemicals that may be migrating from the Tecumseh Products Corporation site.

MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY
REMEDIATION AND REDEVELOPMENT DIVISION

For DEQ Use Only
ITS # _____
Site ID #_____
Category Code: _____

NOTICE OF MIGRATION OF CONTAMINATION

This notice must be sent to the DEQ office that serves the county in which the property is located. A list of DEQ offices is available at www.michigan.gov/bea, or by calling the Remediation and Redevelopment's Lansing office at 517-373-9837. The DEQ will not prepare acknowledgement of receipt of these notices. The sender is responsible for sending the report using a method that provides proof of delivery if such proof is desired. Please label the outside of the envelope "Migration Notice." Additional guidelines for the compliance with the requirements of R 200.51017(1) or R 299.5522 are available at www.michigan.gov/bea.

THIS NOTICE IS PROVIDED PURSUANT TO: **R 299.5522** ☒ **R 299.51017** ☒
(check both, if applicable)

Please provide the following information as completely as possible.

1. Name and location of the property that hazardous substances are emanating from:

   Name: Tecumseh Products Company
   Address: 100 E. Patterson Street
   Location: Tecumseh, Michigan
   City/County: Tecumseh, Lenawee
   Property Tax Identification Number, or if applicable, the ward and item number: 325-0241-00 & 325-0250-00

2. Status relative to the property:
   (Check one or both, as applicable.)

   Owner ☒
   Operator ☒

Provide any additional ID numbers associated with the property (e.g., EPA ID No., BEA No., Part 213 facility ID No., etc.):

3. Name, address, and telephone number of the property owner, operator, or other party submitting the notice:
   Name: Tecumseh Products Company
   Address: 1136 Oak Valley Drive
   City/State: Ann Arbor, Michigan
   Telephone number: 734-585-9500

4. Name, address and telephone number of a contact person familiar with the content of the notice:
   Name: Mr. Randy Kopke- Corporate Facilities and Property Manager
   Address: 1136 Oak Valley Drive
   City/State: Ann Arbor, Michigan
   Telephone: 734-585-9439

5. If this Notice is provided pursuant to R 299.51017, provide the address and other location information for the *adjacent* property(s) onto which contamination is migrating, has migrated, or is likely to migrate. If this Notice is provided pursuant to R 299.5522, provide the address and other location information for *each* property onto which contamination has migrated. Notice should be sent to the property owner of record. If the impacted property is owned by the State of Michigan, notice should be sent to the department managing the property (i.e. a prison, state park, etc.). Notices to the Michigan Department of Transportation (MDOT) for state owned roadways should be sent to Ms. Heather Hicks, MDOT-Bureau of Transportation Planning, 425 W. Ottawa Street, P.O. Box 30050, Lansing, MI 48989. If it isn't readily apparent what state department manages the property, notices should be sent to Mr. Thomas Saxton, Tenant and Land Services, Department of Management and Budget, 1st Floor Lewis-Cass Building, P.O. Box 30026, Lansing, MI 48909.

   See Attached List of Notified Property Owners for Pertinent Information.

6. Complete the Table on Page 3 of this Form for each hazardous substance which has migrated, or is likely to have migrated, beyond the property boundary at a concentration that exceeds a Generic Residential Cleanup Criterion developed by the DEQ pursuant to MCL 324.20120a(1). Complete and attach additional copies of Page 3, if necessary, to list all hazardous substances that must be reported. Include a scaled map or drawing that shows the location of sampling points identified on the Table on Page 3, the property boundaries, and the adjacent property owners if providing notice pursuant to R 299.1017(1) or all impacted property owners if providing notice pursuant to Rule 299.5522.

See Completed Table 3 and Attached Figure

7. Provide a summary of the information which shows that contamination is emanating from, or has emanated from, and is present beyond the boundary of the source property at a concentration which exceeds that allowed by MCL 324.20120a(1)(a). This summary shall identify the environmental media affected, specific hazardous substances, and the concentrations of those hazardous substances in all affected environmental media at the property boundary and in any sample locations beyond the property boundary. The summary shall also describe the basis for the conclusion that the contamination is emanating, has emanated, or is present beyond the boundary of the source property, including whether the conclusion is based on groundwater analytical data or fate and transport modeling, both, or neither.

On February 23, 2009 Tecumseh Products Company (TPC) received a draft of the Phase II Subsurface Investigation conducted on behalf of the potential purchaser of the site, Consolidated Biscuit Company (CBC). Data in the Phase II report indicated that groundwater beneath the TPC manufacturing facility in Tecumseh, Michigan contained concentrations of trichloroethene (TCE), cis-1,2-dichloroethene (cis-1,2-DCE), vinyl chloride, 1,1,1-trichloroethane (1,1,1-TCA), and 1,1-dichloroethene (1,1-DCE) above generic Michigan Department of Environmental Quality (MDEQ) criteria. Two samples collected near the facility property boundary indicated the potential for off-site migration. In March 2009 RMT Inc. (RMT) on behalf of TPC conducted a perimeter investigation to determine groundwater flow direction and to evaluate the potential for off-site migration.

Data for the March 2009 investigation indicate that groundwater near the site perimeter contains concentrations of TCE, cis-1,2-DCE, vinyl chloride, and 1,1,1-TCA above generic MDEQ criteria. The maximum concentrations for TCE, cis-1,2-DCE vinyl chloride, and 1,1,1-TCA were 5,000 µg/L, 2,100 µg/L, 140 µg/L, and 750 µg/L, respectively. The highest concentrations of these constituents were found near the water table. Water levels collected from nine shallow monitoring wells installed on-site indicate that groundwater flow is generally to the east toward the River Raisin.

At present no groundwater samples have been collected off-site. Given the concentrations of TCE, cis-1,2-DCE vinyl chloride, and 1,1,1-TCA near the property boundary and the direction of groundwater flow, TPC has conservatively identified 38 properties that may be affected by off-site migration. These properties include all properties between the TPC manufacturing facility and the River Raisin and those properties adjacent to the north or south side of the TPC manufacturing facility.

See Attached Summary

8. If the person making this notice has reason to believe that a migrating hazardous substance has affected, or is likely to affect, a private or public water supply, then that water supply must be identified here:

Water quality for the City of Tecumseh municipal well field have not detected any of the hazardous substances identified above. Furthermore, the municipal well field is located west of the TPC facility, and data collected at the TPC site show that groundwater flow is towards the east. Concurrent with submittal of this notice, TPC is working with the City of Tecumseh and the County Health Department to identify if properties downgradient of the site may be using groundwater from an on-site well. As a precautionary measure will sample the well at not cost to the owner.

	YES	NO
9. Is this notice being submitted within the timeframes established under R 299.5522 and/or R 299.51017, as applicable?	☒	☐
10. Is this notice in addition to a notice submitted prior to *December 21, 2002?* (R 299.51017(4)(c))	☐	☒
11. Is this notice related to an oil and gas well permit (R 299.51017(2))? Permit #:	☐	☒
12. Is this notice related to an easement (R 299.51017(3))? (NOTE: All easement grantors *must* receive this notice.)	☐	☒
13. Has surface water been affected (R 299.51017(1) and R 299.5522(2))? (If yes, please identify the affected surface water body.)	☐	☒

CERTIFICATION:

With my signature below, I certify that I am the owner of the facility or that I am legally authorized to execute this notice on behalf of the owner or operator named on this form, and that to the best of my knowledge and belief the above representations are complete and accurate. I understand that intentionally submitting false information to the DEQ is a felony and may result in fines up to $25,000 for each violation.

Signature _____ Date: **April 9, 2009**
(Owner or person legally authorized to bind the person making this report)

Name (Typed or Printed) **Randy Kopke**

Title (Typed or Printed) **Corporate Facilities and Property Manager**

See Item 6 on Page 2 of this Form for instructions to be used in completing this Table. Attach additional pages if necessary. The information to be included in each column of the Table is:

Column A Name of hazardous substance.
Column B Chemical Abstract Service (CAS) Number for the hazardous substance.
Column C Maximum hazardous substance concentration measured on the property, expressed in parts per billion (e.g., ug/L or ug/Kg). Report maximum concentration separately for each environmental medium.
Column D Sample location for Column C (relate to label on map).
Column E Environmental medium in which concentration reported in Column C was measured (e.g., soil or groundwater).
Column F Distance from point of maximum measured concentration (Column D) to property boundary, in direction of contaminant migration, if direction is known or can reasonably be inferred. If direction is unknown, list distance to nearest property boundary.
Column G Direction of contaminant migration, if known.
Column H Concentration closest to property boundary, if known. If a concentration lower than the maximum concentration reported in Column C has been measured at a point closer to the property boundary in the direction of contaminant migration, use Column I to list the concentration that was measured closest to the property boundary in the direction of contaminant migration.
Column I Sample location for Column H (relate to label on map).
Column J Environmental medium for measurement reported in Column H, if applicable.

A Hazardous Substance	B CAS Number	C Maximum Concentration	D Sample Location for "C"	E Environmental Medium for "C"	F Distance to Property Boundary	G Direction of Migration	H Boundary Concentration	I Sample Location for "H"	J Environmental Medium for "H"
1,1-Dichloroethene	75354	920	GP-21	Groundwater	~ 500	East	5.9	B-1	Groundwater
cis-1,2-Dichloroethene	156592	2100	MW-4s	Groundwater	~100 ft	East	NA	NA	NA
1,1-Trichloroethane	71556	8500	GP-21	Groundwater	~ 500 ft	East	750	MW-1s	Groundwater
Trichloroethene	79016	5000	MW-4s	Groundwater	~100 ft	East	NA	NA	NA
Vinyl Chloride	75014	140	MW-3s	Groundwater	~25 ft	East	NA	NA	NA

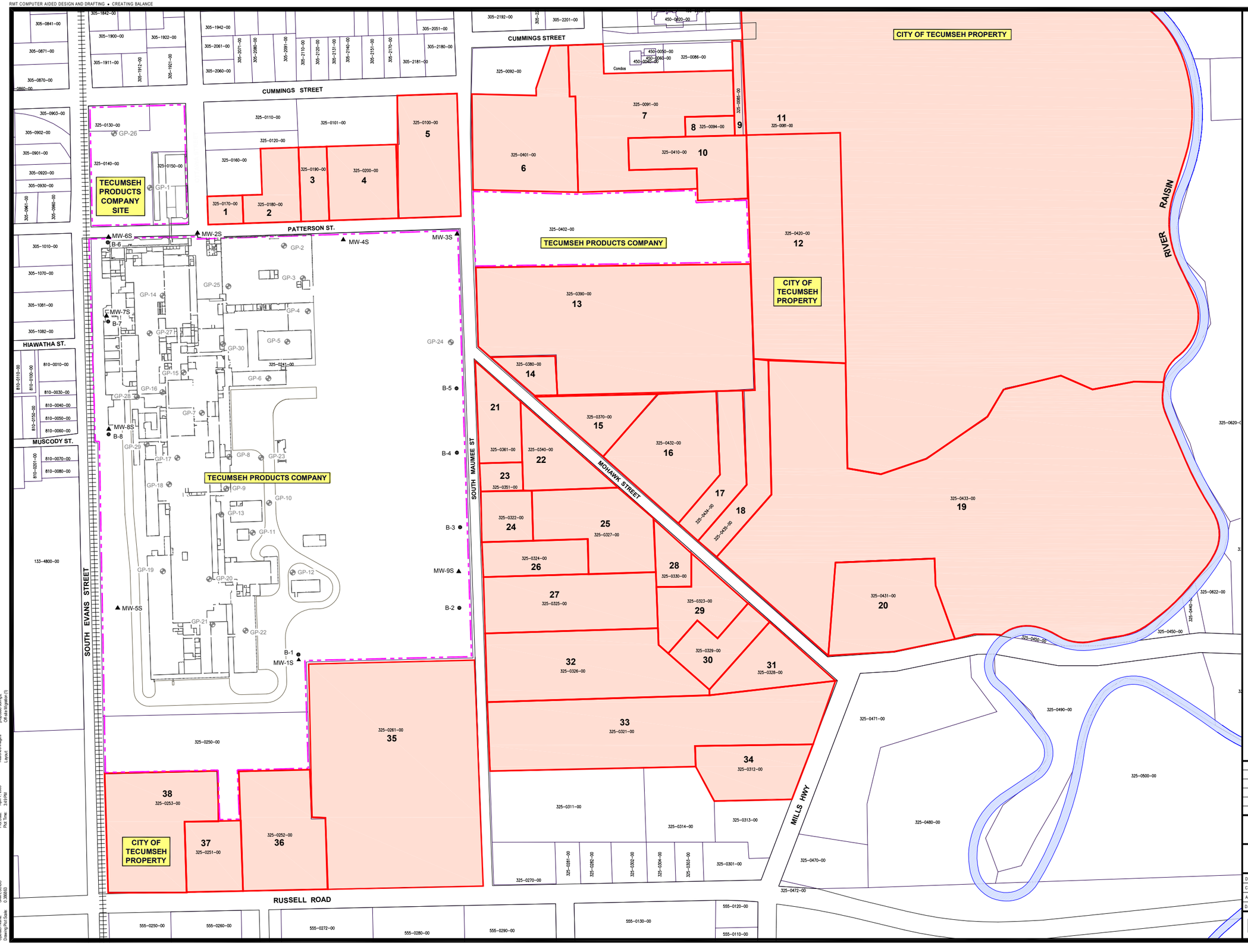
Total Number Samples Collected: __53_____ Total Number of Samples Exceeding Criteria: _43_____

A scaled map or drawing showing these locations and the property boundaries must be submitted with this Notice

Tecumseh Products Company
List of Notified Property Owners
Tecumseh, Michigan
April 8, 2009

Map ID #	Parcel #	Property Address	Owner Name	Owner Address	Owner City	ST	Zip Code	Notification Date
1	325-0170-00	201 E PATTERSON ST	CONSUMERS ENERGY CO	ONE ENERGY PLAZA	JACKSON	MI	49201	04/08/09
2	325-0180-00	209 E PATTERSON ST	IRELAN, DENNIS C & KAREN	BOX 66	TECUMSEH	MI	49286	04/08/09
3	325-0190-00	205 E PATTERSON ST BLK	CONSUMERS ENERGY CO	ONE ENERGY PLAZA	JACKSON	MI	49201	04/08/09
4	325-0200-00	223 E PATTERSON ST	M & S LAND HOLDINGS, LLC	8514 PENNINGTON RD	TECUMSEH	MI	49286	04/08/09
5	325-0100-00	415 S MAUMEE ST	D & P COMMUNICATIONS, INC	4200 TEAL RD	PETERSBURG	MI	49270	04/08/09
6	325-0401-00	414 S MAUMEE ST	BOOT, MARTIN & CAROL	807 RED MILL DR	TECUMSEH	MI	49286	04/08/09
7	325-0091-00	416 E CUMMINS ST	BOOT MARTIN JR & CAROL	416 E CUMMINS ST	TECUMSEH	MI	49286	04/08/09
8	325-0094-00	504 E CUMMINS ST	JF CALM LLC	962 FAIRWAY COVE	TECUMSEH	MI	49286	04/08/09
9	325-0085-00	500 E CUMMINS ST	RYAN, JOHN J & ANNE E	210 W CHICAGO BLVD	TECUMSEH	MI	49286	04/08/09
10	325-0410-00	500 E CUMMINS ST	RYAN, JOHN J &	210 W CHICAGO BLVD	TECUMSEH	MI	49286	04/08/09
11	325-0081-00	600 DAVE WILLIAMS DR	CITY OF TECUMSEH	POB 396	TECUMSEH	MI	49286	04/08/09
12	325-0420-00	300 S WYANDOTTE ST BLK	CITY OF TECUMSEH	309 W CHICAGO BLVD	TECUMSEH	MI	49286	04/08/09
13	325-0390-00	424 S MAUMEE ST	SLUSARSKI INVESTMENT COMPANY LLC	119 GREENLY STREET	ADRIAN	MI	49221	04/08/09
14	325-0380-00	426 S MAUMEE ST	NOVAK LLC	426 S MAUMEE ST	TECUMSEH	MI	49286	04/08/09
15	325-0370-00	509 MOHAWK ST	BATYIK, FRANK L	3614 NOLAND DR	TECUMSEH	MI	49286	04/08/09
16	325-0432-00	607 MOHAWK ST	LOGAN, ROBERT W	1207 MURRAY DR	TECUMSEH	MI	49286	04/08/09
17	325-0434-00	611 MOHAWK ST	BIRCHFIELD, RONALD A & SHERRIE L	5371 NORTH RAISIN CENTER HW	TECUMSEH	MI	49286	04/08/09
18	325-0435-00	615 MOHAWK ST	BIRCHFIELD, RONALD A & SHERRIE L	5371 N RAISIN CENTER HWY	TECUMSEH	MI	49286	04/08/09
19	325-0433-00	600 MOHAWK ST BLK	BIRCHFIELD, RONALD A & SHERRIE	5371 N RAISIN CENTER HWY	TECUMSEH	MI	49286	04/08/09
20	325-0431-00	707 BLOOD RD	HULL, EDWARD & DONALD	509 E CHICAGO BLVD	TECUMSEH	MI	49286	04/08/09
21	325-0361-00	502 MOHAWK ST	KLANKE, TODD E	502 MOHAWK ST	TECUMSEH	MI	49286	04/08/09
22	325-0340-00	508 MOHAWK ST	DERBY, KEVIN G & JASON E	508 MOHAWK ST	TECUMSEH	MI	49286	04/08/09
23	325-0351-00	505 S MAUMEE ST	MAUMEE TRUST, 505 S	210 W SHAWNEE ST	TECUMSEH	MI	49286	04/08/09
24	325-0322-00	507 S MAUMEE ST	SPEER, HAROLD E	210 W SHAWNEE ST	TECUMSEH	MI	49286	04/08/09
25	325-0327-00	MOHAWK ST	G T E TELEPHONE OPER	19845 NORTH US 31 POB 407	WESTFIELD	IN	46074	04/08/09
26	325-0324-00	606 S MAUMEE ST	G T E TELEPHONE OPER	19845 NORTH US 31 POB 407	WESTFIELD	IN	46074	04/08/09
27	325-0325-00	610 S MAUMEE ST	CALLISON LEASING CORPORATION	610 S MAUMEE ST	TECUMSEH	MI	49286	04/08/09
28	325-0330-00	610 MOHAWK ST	LASK, SCOTT R	610 MOHAWK ST	TECUMSEH	MI	49286	04/08/09
29	325-0323-00	704 MOHAWK ST	HULL INVESTMENTS	119 W CHICAGO BLVD	TECUMSEH	MI	49286	04/08/09
30	325-0329-00	800 MOHAWK ST	TECUMSEH SELF STORAGE LLC	500 W KILBUCK ST	TECUMSEH	MI	49286	04/08/09
31	325-0328-00	800 MOHAWK ST	TECUMSEH SELF STORAGE LLC	500 W KILBUCK ST	TECUMSEH	MI	49286	04/08/09
32	325-0326-00	700 S MAUMEE ST	TECUMSEH PUBLIC SCHOOLS	212 N OTTAWA ST	TECUMSEH	MI	49286	04/08/09
33	325-0321-00	800 S MAUMEE ST	ROBERTS INVESTMENT COMPANY LLC	P.O. BOX 400	TECUMSEH	MI	49286	04/08/09
34	325-0312-00	701 MILL HWY	MAYNARD MINI SERVICES, INC	101 CARRIAGE DR	TECUMSEH	MI	49286	04/08/09
35	325-0261-00	805 S MAUMEE ST	MARTIN TRUST, DONALD J	145 W CHICAGO BLVD	TECUMSEH	MI	49286	04/08/09
36	325-0252-00	209 E RUSSELL RD	UNITED BANK & TRUST	P O BOX 248	TECUMSEH	MI	49286	04/08/09
37	325-0251-00	105 E RUSSELL RD	HERRICK, TODD & LINDA	3970 PENNINSULA DR	PETOSKEY	MI	49770	04/08/09
38	325-0253-00	101 E RUSSELL RD	CITY OF TECUMSEH	309 E CHICAGO BLVD	TECUMSEH	MI	49286	04/08/09

Notes:
1) Parcel identification numbers and owner information provided by the City of Tecumseh on March 12, 2009



LEGEND

- TECUMSEH PRODUCTS SITE BOUNDARY
- RAILROAD TRACKS (APPROXIMATE LOCATION)
- B-2 ● EXISTING SOIL BORING LOCATION AND NUMBER (INSTALLED BY RMT, INC. MARCH 2009)
- MW-4S ▲ EXISTING MONITORING WELL LOCATION AND NUMBER (INSTALLED BY RMT, INC. MARCH 2009)
- GP-26 APPROXIMATE GEOPROBE LOCATION, BORINGS ADVANCED AS PART OF ATCs LIMITED PHASE II INVESTIGATION IN DECEMBER 2008 AND JANUARY 2009.
- 23 / 325-0081-00 — MAP ID NUMBER; PROPERTIES RECEIVING NOTICES OF OFF-SITE MIGRATION; PARCEL NUMBER

NOTES

1. BASE MAP DEVELOPED FROM SITE PLAN PROVIDED BY THE CITY OF TECUMSEH, DRAWING NO. CITY.DWG, MARCH 2009, AERIAL PHOTOGRAPH PROVIDED FROM REMOTE SENSING & GIS RESEARCH AND OUTREACH SERVICES (RS&GIS), *PUBLICATION_DATE*: 06-29-2007, File:TECUMSEHSOUTH_NE.ECW.

0 160' 320' 480' 640'
SCALE IN FEET

NO.	BY	DATE	REVISION	APP'D.
5.				
4.				
3.				
2.				
1.				

TECUMSEH PRODUCTS
TECUMSEH, MICHIGAN

NOTICES OF POTENTIAL OFF-SITE MIGRATION

DRAWN BY:	SJL	DRAWING SCALE:	PROJECT NO: J:\08070\02
CHECKED BY:	JAB,SM	SHOWN	FILE NO: 8070.02.08.dwg
APPROVED BY:	GC	DATE PRINTED:	**FIGURE 1**
DATE:	April 2009		

RMT
3754 Ranchero Drive
Ann Arbor, MI 48108-2237
Phone: 734-971-7080 • Fax: 734-971-9022

R:\07-NEW\
Drawing Name:
Operator Name:
Drawing Plot Scale:
J:\08070\02\07\ 07.08.dwg
SAM LUCIDO
0.389383
Dwg. Size: 17.8 Mb
Plot Date: April 7, 2009
Plot Time: 3:49 PM
Attached Refs:
Attached Images:
Layout:
image_bnf(3):09
proposed boring's
Off-site Migration (1)

MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY
DRINKING WATER LABORATORY
USEPA Region V Drinking Water Cert. No. MI00003
P.O. Box 30270
Lansing, MI 48909
TEL: (517) 335-8184
FAX: (517) 335-8562

Lab Results 2007

Sample Number LB76877

Official Laboratory Report

Report To: TODD AMSTUTZ
710 EAST CHICAGO BLVD
TECUMSEH MI 49286

System Name/Owner:	CITY OF TECUMSEH	WSSN/Pool ID:	6560
Collection Address:	S WELLFIELD/ PATTERSON ST,TECU	Source:	TYPE I
Collected By:	TODD AMSTUTZ	Site Code:	C002
Township/Well#/Section:	/10/	Collector:	Public Water Supply Operator
County:	Lenawee	Date Collected:	09/10/2007 09:20
Sample Point:	PLANT TAP	Date Received:	09/11/2007 10:57
Water System:	Public System Well	Purpose:	Routine Monitoring

TESTING INFORMATION			REGULATORY INFORMATION			
Analyte Name	Result (mg/L)	Date Tested	RL (mg/L)	MCL/AL (mg/L)	Method	CAS #
Chloride	58	09/11/2007	4		SM 4500-Cl E	7647-14-5
Fluoride	0.74	09/11/2007	0.1	4.0	SM 4500 FC	16984-48-8
ardness as CaCO3	354	09/11/2007	20		SM 2340 C	HARD-00-C
Iron (automated)	Not detected	09/11/2007	0.1		SM 3500 FeB	7439-89-6
Nitrate as N	0.4	09/11/2007	0.4	10	SM 4500 NO3H	14797-55-8
Nitrite as N	Not detected	09/11/2007	0.05	1	SM 4500 NO3H	14797-65-0
Sodium (automated)	28	09/11/2007	5		SM 3500 NaB	7440-23-5
Sulfate	49	09/11/2007	10		SM 4500 SO4E	14808-79-8
Volatile Organic Compounds						
1,1 Dichloroethane	Not Detected	09/14/2007	0.0005		EPA 524.2	75-34-3
1,1 Dichloroethylene	Not Detected	09/14/2007	0.0005	0.007	EPA 524.2	75-35-4
1,1 Dichloropropene	Not Detected	09/14/2007	0.0005		EPA 524.2	563-58-6
1,1,1 Trichloroethane	Not Detected	09/14/2007	0.0005	0.2	EPA 524.2	71-55-6
1,1,1,2 Tetrachloroethane	Not Detected	09/14/2007	0.0005		EPA 524.2	630-20-6
1,1,2 Trichloroethane	Not Detected	09/14/2007	0.0005	0.005	EPA 524.2	79-00-5
1,1,2,2 Tetrachloroethane	Not Detected	09/14/2007	0.0005		EPA 524.2	79-34-5
1,2 Dichlorobenzene	Not Detected	09/14/2007	0.0005	0.6	EPA 524.2	95-50-1
1,2 Dichloroethane	Not Detected	09/14/2007	0.0005	0.005	EPA 524.2	107-06-2
1,2 Dichloropropane	Not Detected	09/14/2007	0.0005	0.005	EPA 524.2	78-87-5
1,2,3 Trichlorobenzene	Not Detected	09/14/2007	0.0005		EPA 524.2	87-61-6
1,2,3 Trichloropropane	Not Detected	09/14/2007	0.0005		EPA 524.2	96-18-4
1,2,4 Trichlorobenzene	Not Detected	09/14/2007	0.0005	0.07	EPA 524.2	120-82-1
1,2,4 Trimethylbenzene	Not Detected	09/14/2007	0.0005		EPA 524.2	95-63-6
) Dichlorobenzene	Not Detected	09/14/2007	0.0005		EPA 524.2	541-73-1

CAS# : Chemical Abstract Service Registry Number
MCL : Maximum Contaminent Level
AL : Action Level
RL : Reporting Limit

mg/L : milligrams / Liter (ppm)
ppm : parts per million
MPN : Most Probable Number
CFU : Colony Forming Unit

Laboratory Contacts
Drinking Water Unit Mgr: Julia Pieper
Systems Mgmt. Unit Mgr: George Krisztian

MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY
DRINKING WATER LABORATORY
USEPA Region V Drinking Water Cert. No. MI00003
P.O. Box 30270
Lansing, MI 48909
TEL: (517) 335-8184
FAX: (517) 335-8562

Sample Number
LB76877

TESTING INFORMATION			REGULATORY INFORMATION			
Analyte Name	Result (mg/L)	Date Tested	RL (mg/L)	MCL/AL (mg/L)	Method	CAS #
Volatile Organic Compounds						
1,3 Dichloropropane	Not Detected	09/14/2007	0.0005		EPA 524.2	142-28-9
1,3,5 Trimethylbenzene	Not Detected	09/14/2007	0.0005		EPA 524.2	108-67-8
1,4 Dichlorobenzene	Not Detected	09/14/2007	0.0005	0.075	EPA 524.2	106-46-7
2,2 Dichloropropane	Not Detected	09/14/2007	0.0005		EPA 524.2	594-20-7
Benzene	Not Detected	09/14/2007	0.0005	0.005	EPA 524.2	71-43-2
Bromobenzene	Not Detected	09/14/2007	0.0005		EPA 524.2	108-86-1
Bromochloromethane	Not Detected	09/14/2007	0.0005		EPA 524.2	74-97-5
Bromodichloromethane	Not Detected	09/14/2007	0.0005	0.080	EPA 524.2	75-27-4
Bromoform	Not Detected	09/14/2007	0.0005	0.080	EPA 524.2	75-25-2
Bromomethane	Not Detected	09/14/2007	0.001		EPA 524.2	74-83-9
Carbon tetrachloride	Not Detected	09/14/2007	0.0005	0.005	EPA 524.2	56-23-5
Chlorobenzene	Not Detected	09/14/2007	0.0005	0.1	EPA 524.2	108-90-7
Chlorodibromomethane	Not Detected	09/14/2007	0.0005	0.080	EPA 524.2	124-48-1
Chloroethane	Not Detected	09/14/2007	0.0005		EPA 524.2	75-00-3
Chloroform	Not Detected	09/14/2007	0.0005	0.080	EPA 524.2	67-66-3
Chloromethane	Not Detected	09/14/2007	0.0005		EPA 524.2	74-87-3
cis-1,2 Dichloroethylene	Not Detected	09/14/2007	0.0005	0.07	EPA 524.2	156-59-2
cis-1,3 Dichloropropene	Not Detected	09/14/2007	0.0005		EPA 524.2	10061-01-5
Dibromomethane	Not Detected	09/14/2007	0.0005		EPA 524.2	74-95-3
Dichlorodifluoromethane	Not Detected	09/14/2007	0.001		EPA 524.2	75-71-8
Dichloromethane	Not Detected	09/14/2007	0.0006	0.005	EPA 524.2	75-09-2
Ethylbenzene	Not Detected	09/14/2007	0.0005	0.7	EPA 524.2	100-41-4
Fluorotrichloromethane	Not Detected	09/14/2007	0.001		EPA 524.2	75-69-4
Hexachlorobutadiene	Not Detected	09/14/2007	0.0005		EPA 524.2	87-68-3
Isopropylbenzene	Not Detected	09/14/2007	0.0005		EPA 524.2	98-82-8
m & p-Xylene	Not Detected	09/14/2007	0.0005	10	EPA 524.2	XYLMP-00-C
Methyl ethyl ketone	Not Detected	09/14/2007	0.005		EPA 524.2	78-93-3
Methyl isobutyl ketone	Not Detected	09/14/2007	0.005		EPA 524.2	108-10-1
Methyl-tert-butyl ether (MTBE)	Not Detected	09/14/2007	0.001		EPA 524.2	1634-04-4
Naphthalene	Not Detected	09/14/2007	0.0005		EPA 524.2	91-20-3
n-Butylbenzene	Not Detected	09/14/2007	0.0005		EPA 524.2	104-51-8
Nitrobenzene	Not Detected	09/14/2007	0.01		EPA 524.2	98-95-3
n-Propylbenzene	Not Detected	09/14/2007	0.0005		EPA 524.2	103-65-1
o-Chlorotoluene	Not Detected	09/14/2007	0.0005		EPA 524.2	95-49-8
o-Xylene	Not Detected	09/14/2007	0.0005	10	EPA 524.2	95-47-6
p-Chlorotoluene	Not Detected	09/14/2007	0.0005		EPA 524.2	106-43-4
p-Isopropyltoluene	Not Detected	09/14/2007	0.0005		EPA 524.2	99-87-6
sec-Butylbenzene	Not Detected	09/14/2007	0.0005		EPA 524.2	135-98-8
Styrene	Not Detected	09/14/2007	0.0005	0.1	EPA 524.2	100-42-5

CAS# : Chemical Abstract Service Registry Number
MCL : Maximum Contaminent Level
AL : Action Level
RL : Reporting Limit

mg/L : milligrams / Liter (ppm)
ppm : parts per million
MPN : Most Probable Number
CFU : Colony Forming Unit

Laboratory Contacts
Drinking Water Unit Mgr: Julia Pieper
Systems Mgmt. Unit Mgr: George Krisztian

MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY
DRINKING WATER LABORATORY
USEPA Region V Drinking Water Cert. No. MI00003
P.O. Box 30270
Lansing, MI 48909
TEL: (517) 335-8184
FAX: (517) 335-8562

Sample Number
LB76877

TESTING INFORMATION			REGULATORY INFORMATION			
Analyte Name	Result (mg/L)	Date Tested	RL (mg/L)	MCL/AL (mg/L)	Method	CAS #
Volatile Organic Compounds						
tert-Butylbenzene	Not Detected	09/14/2007	0.0005		EPA 524.2	98-06-6
Tetrachloroethylene	Not Detected	09/14/2007	0.0005	0.005	EPA 524.2	127-18-4
Tetrahydrafuran	Not Detected	09/14/2007	0.005		EPA 524.2	109-99-9
Toluene	Not Detected	09/14/2007	0.0005	1	EPA 524.2	108-88-3
Total Trihalomethanes	Not Detected	09/14/2007		0.080	EPA 524.2	TTHM-00-C
Total Xylenes	Not Detected	09/14/2007		10	EPA 524.2	1330-20-7
trans-1,2 Dichloroethylene	Not Detected	09/14/2007	0.0005	0.1	EPA 524.2	156-60-5
trans-1,3 Dichloropropene	Not Detected	09/14/2007	0.0005		EPA 524.2	10061-02-6
Trichloroethylene	Not Detected	09/14/2007	0.0005	0.005	EPA 524.2	79-01-6
Vinyl chloride	Not Detected	09/14/2007	0.0004	0.002	EPA 524.2	75-01-4

The analyses performed by the MDEQ Drinking Water Laboratory were conducted using methods approved by the U.S. Environmental Protection Agency in accordance with the Safe Drinking Water Act, 40 CFR parts 141-143, and other regulatory agencies as appropriate.

Your local health department has detailed information about the quality of drinking water in your area. If you have concerns about the health risks related to the test results of your sample, please contact the Environmental Health Section through the address and telephone number listed below:

Lenawee County Health Dept.
1040 S. Winter St #2328
Adrian, MI 49221-3871
517 264-5202

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MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY
DRINKING WATER LABORATORY
USEPA Region V Drinking Water Cert. No. MI00003
P.O. Box 30270
Lansing, MI 48909
TEL: (517) 335-8184
FAX: (517) 335-8562

Sample Number
LB76878

Official Laboratory Report

Report To: TODD AMSTUTZ
710 EAST CHICAGO BLVD
TECUMSEH MI 49286

System Name/Owner:	CITY OF TECUMSEH/ COMMONWEAL	WSSN/Pool ID:	6560
Collection Address:	S WELL FIELD/ 703 E CHICAGO BLV,T	Source:	TYPE I
Collected By:	TODD AMSTUTZ	Site Code:	D925
Township/Well#/Section:	//	Collector:	Public Water Supply Operator
County:	Lenawee	Date Collected:	09/10/2007 08:30
Sample Point:	KITCHEN	Date Received:	09/11/2007 10:57
Water System:	Public System Well	Purpose:	Routine Monitoring

TESTING INFORMATION			REGULATORY INFORMATION			
Analyte Name	Result (mg/L)	Date Tested	RL (mg/L)	MCL/AL (mg/L)	Method	CAS #
Dalapon and Haloacetic						
ɔmoacetic acid	Not Detected	09/14/2007	0.004		EPA 552.1	79-08-3
Bromochloroacetic acid	Not Detected	09/14/2007	0.001		EPA 552.1	5589-96-3
Chloroacetic acid	Not Detected	09/14/2007	0.004		EPA 552.1	79-11-8
Dalapon	Not Detected	09/14/2007	0.001	0.2	EPA 552.1	75-99-0
Dibromoacetic acid	Not Detected	09/14/2007	0.002		EPA 552.1	631-64-1
Dichloroacetic acid	Not Detected	09/14/2007	0.002		EPA 552.1	79-43-6
Total Haloacetic Acids (five)	Not Detected	09/14/2007	0.01	0.060	EPA 552.1	THA-00-C
Trichloroacetic acid	Not Detected	09/14/2007	0.002		EPA 552.1	76-03-9
Total Trihalomethanes						
Bromodichloromethane	TRACE	09/14/2007	0.0005	0.080	EPA 524.2	75-27-4
Bromoform	Not Detected	09/14/2007	0.0005	0.080	EPA 524.2	75-25-2
Chlorodibromomethane	TRACE	09/14/2007	0.0005	0.080	EPA 524.2	124-48-1
Chloroform	Not Detected	09/14/2007	0.0005	0.080	EPA 524.2	67-66-3
Total Trihalomethanes	TRACE	09/14/2007	0.0005	0.080	EPA 524.2	TTHM-00-C

Compounds reported as TRACE were detected at levels above the detection limits, but at levels too low to quantitate.

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Laboratory Contacts
Drinking Water Unit Mgr: Julia Pieper
Systems Mgmt. Unit Mgr: George Krisztian

June 2009

Notices of Off-Site Migration

Tecumseh

June 1, 2009

Howard J. Baughey Trust
221 E. Cummins St.
Tecumseh, MI 49286

RE: Property at 221 E. Cummins St. (305-2120-00)

Dear Property Owner:

As you are aware, Tecumseh Products Company recently ceased manufacturing operations at 100 East Patterson Street in Tecumseh, Michigan. We are working closely with the City of Tecumseh in an effort to transfer the property to Consolidated Biscuit Company, a major manufacturer of cookies and crackers in North America. Consolidated Biscuit plans to convert the facility into a new manufacturing center and create 500 new jobs here in Tecumseh.

As part of this transaction an environmental investigation was conducted at the facility, which detected the existence of chemical concentrations in soil and groundwater at the facility. The chemical concentrations in groundwater have the potential to migrate into the groundwater below adjacent properties and properties "downgradient" in the natural easterly flow of subsurface groundwater. We have not tested the groundwater below your property, but as a precaution we have concluded that it is likely to be within the area of impacted groundwater. Because of this, Michigan Department of Environmental Quality (MDEQ) Rules require that we provide you with the enclosed Notice of Migration of Contamination, which provides more detail on this condition.

The City's public water supply system does not draw its water from this impacted area of groundwater. The City's water comes from deep wells located to the west of our facility, out of the direction of any migration contamination. The MDEQ annually tests the City's public water supply system for possible contaminants, including the chemicals we have detected at our facility, and this testing confirms that none of these chemicals are in the City's water supply. We have enclosed a copy of the most recent 2007 MDEQ Official Laboratory Report, which indicates "Not Detected" for each of these chemicals.

In addition to the enclosed Notice of Migration, we want to provide you with as much information as possible in order to address possible questions or concerns. Therefore, we have developed a Questions & Answers document, which we have enclosed with this letter. We are working cooperatively with the MDEQ to address this soil and groundwater contamination at our facility. As part of that effort we have installed numerous monitoring wells around the site to conduct regular testing.

1136 Oak Valley Drive
Ann Arbor, MI 48108
www.tecumseh.com

We hope that this letter and the enclosed information answer any questions or concerns. If you wish to discuss this further, please do not hesitate to contact me at (734) 585-9439, or any of the persons listed below.

Sincerely,

Randy Kopke
Facilities Manager

Enclosures: Questions and Answer Document
Notice of Migration
City of Tecumseh Water Supply Test Data

cc: Mr. Jason Smith, Corporate Environmental Director, Tecumseh Products Company (731) 707-2889
Mr. Kevin Welch, Tecumseh City Manager
Mr. Peter Quackenbush, MDEQ
Mr. Hak Cho, USEPA

Tecumseh

June 1, 2009

Anna M. Camburn
310 E Kilbuck St.
Tecumseh, MI 49286

RE: Property at 310 E. Kilbuck St. (305-2020-00)

Dear Property Owner:

As you are aware, Tecumseh Products Company recently ceased manufacturing operations at 100 East Patterson Street in Tecumseh, Michigan. We are working closely with the City of Tecumseh in an effort to transfer the property to Consolidated Biscuit Company, a major manufacturer of cookies and crackers in North America. Consolidated Biscuit plans to convert the facility into a new manufacturing center and create 500 new jobs here in Tecumseh.

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Randy Kopke
Facilities Manager

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Notice of Migration
City of Tecumseh Water Supply Test Data

cc: Mr. Jason Smith, Corporate Environmental Director, Tecumseh Products Company (731) 707-2889
Mr. Kevin Welch, Tecumseh City Manager
Mr. Peter Quackenbush, MDEQ
Mr. Hak Cho, USEPA

Tecumseh

June 1, 2009

Richard L. & Sharon Bilby
206 S. Maumee St.
Tecumseh, MI 49286

RE: Property at 206 S. Maumee St. (000-0302-00)

Dear Property Owner:

As you are aware, Tecumseh Products Company recently ceased manufacturing operations at 100 East Patterson Street in Tecumseh, Michigan. We are working closely with the City of Tecumseh in an effort to transfer the property to Consolidated Biscuit Company, a major manufacturer of cookies and crackers in North America. Consolidated Biscuit plans to convert the facility into a new manufacturing center and create 500 new jobs here in Tecumseh.

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Sincerely,

Randy Kopke
Facilities Manager

Enclosures: Questions and Answer Document
Notice of Migration
City of Tecumseh Water Supply Test Data

cc: Mr. Jason Smith, Corporate Environmental Director, Tecumseh Products Company (731) 707-2889
Mr. Kevin Welch, Tecumseh City Manager
Mr. Peter Quackenbush, MDEQ
Mr. Hak Cho, USEPA

Tecumseh

June 1, 2009

Thomas H & Sharon A. Counts
223 E. Cummins St.
Tecumseh, MI 49286

RE: Property at 223 E. Cummins St. (305-2131-00)

Dear Property Owner:

As you are aware, Tecumseh Products Company recently ceased manufacturing operations at 100 East Patterson Street in Tecumseh, Michigan. We are working closely with the City of Tecumseh in an effort to transfer the property to Consolidated Biscuit Company, a major manufacturer of cookies and crackers in North America. Consolidated Biscuit plans to convert the facility into a new manufacturing center and create 500 new jobs here in Tecumseh.

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Sincerely,

Randy Kopke
Facilities Manager

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Notice of Migration
City of Tecumseh Water Supply Test Data

cc: Mr. Jason Smith, Corporate Environmental Director, Tecumseh Products Company (731) 707-2889
Mr. Kevin Welch, Tecumseh City Manager
Mr. Peter Quackenbush, MDEQ
Mr. Hak Cho, USEPA

Tecumseh

June 1, 2009

Hazel Dawdy
304 E. Kilbuck St.
Tecumseh, MI 49286

RE: Property at 304 E. Kilbuck St. (305-1990-00)

Dear Property Owner:

As you are aware, Tecumseh Products Company recently ceased manufacturing operations at 100 East Patterson Street in Tecumseh, Michigan. We are working closely with the City of Tecumseh in an effort to transfer the property to Consolidated Biscuit Company, a major manufacturer of cookies and crackers in North America. Consolidated Biscuit plans to convert the facility into a new manufacturing center and create 500 new jobs here in Tecumseh.

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Sincerely,

Randy Kopke
Facilities Manager

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Notice of Migration
City of Tecumseh Water Supply Test Data

cc: Mr. Jason Smith, Corporate Environmental Director, Tecumseh Products Company (731) 707-2889
Mr. Kevin Welch, Tecumseh City Manager
Mr. Peter Quackenbush, MDEQ
Mr. Hak Cho, USEPA

Tecumseh

June 1, 2009

Nickolas B. & Michelle Deavers
308 E. Kilbuck St.
Tecumseh, MI 49286

RE: Property at 308 E. Kilbuck St. (305-2010-00)

Dear Property Owner:

As you are aware, Tecumseh Products Company recently ceased manufacturing operations at 100 East Patterson Street in Tecumseh, Michigan. We are working closely with the City of Tecumseh in an effort to transfer the property to Consolidated Biscuit Company, a major manufacturer of cookies and crackers in North America. Consolidated Biscuit plans to convert the facility into a new manufacturing center and create 500 new jobs here in Tecumseh.

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cc: Mr. Jason Smith, Corporate Environmental Director, Tecumseh Products Company (731) 707-2889
Mr. Kevin Welch, Tecumseh City Manager
Mr. Peter Quackenbush, MDEQ
Mr. Hak Cho, USEPA

Tecumseh

June 1, 2009

Harold L. Duncan Trust
311 S. Maumee St.
Tecumseh, MI 49286

RE: Property at 311 S. Maumee St. (305-2051-00)

Dear Property Owner:

As you are aware, Tecumseh Products Company recently ceased manufacturing operations at 100 East Patterson Street in Tecumseh, Michigan. We are working closely with the City of Tecumseh in an effort to transfer the property to Consolidated Biscuit Company, a major manufacturer of cookies and crackers in North America. Consolidated Biscuit plans to convert the facility into a new manufacturing center and create 500 new jobs here in Tecumseh.

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Randy Kopke
Facilities Manager

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Notice of Migration
City of Tecumseh Water Supply Test Data

cc: Mr. Jason Smith, Corporate Environmental Director, Tecumseh Products Company (731) 707-2889
Mr. Kevin Welch, Tecumseh City Manager
Mr. Peter Quackenbush, MDEQ
Mr. Hak Cho, USEPA

Tecumseh

June 1, 2009

Teri Gates
2690 Dinius
Tecumseh, MI 49286

RE: Property at 302 S. Maumee St. (305-2191-00)

Dear Property Owner:

As you are aware, Tecumseh Products Company recently ceased manufacturing operations at 100 East Patterson Street in Tecumseh, Michigan. We are working closely with the City of Tecumseh in an effort to transfer the property to Consolidated Biscuit Company, a major manufacturer of cookies and crackers in North America. Consolidated Biscuit plans to convert the facility into a new manufacturing center and create 500 new jobs here in Tecumseh.

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In addition to the enclosed Notice of Migration, we want to provide you with as much information as possible in order to address possible questions or concerns. Therefore, we have developed a Questions & Answers document, which we have enclosed with this letter. We are working cooperatively with the MDEQ to address this soil and groundwater contamination at our facility. As part of that effort we have installed numerous monitoring wells around the site to conduct regular testing.

1136 Oak Valley Drive
Ann Arbor, MI 48108
www.tecumseh.com

We hope that this letter and the enclosed information answer any questions or concerns. If you wish to discuss this further, please do not hesitate to contact me at (734) 585-9439, or any of the persons listed below.

Sincerely,

Randy Kopke
Facilities Manager

Enclosures: Questions and Answer Document
Notice of Migration
City of Tecumseh Water Supply Test Data

cc: Mr. Jason Smith, Corporate Environmental Director, Tecumseh Products Company (731) 707-2889
Mr. Kevin Welch, Tecumseh City Manager
Mr. Peter Quackenbush, MDEQ
Mr. Hak Cho, USEPA

Tecumseh

June 1, 2009

Jerame L. Guenther
409 E. Kilbuck St.
Tecumseh, MI 49286

RE: Property at 409 E. Kilbuck St. (000-0341-00)

Dear Property Owner:

As you are aware, Tecumseh Products Company recently ceased manufacturing operations at 100 East Patterson Street in Tecumseh, Michigan. We are working closely with the City of Tecumseh in an effort to transfer the property to Consolidated Biscuit Company, a major manufacturer of cookies and crackers in North America. Consolidated Biscuit plans to convert the facility into a new manufacturing center and create 500 new jobs here in Tecumseh.

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Randy Kopke
Facilities Manager

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Notice of Migration
City of Tecumseh Water Supply Test Data

cc: Mr. Jason Smith, Corporate Environmental Director, Tecumseh Products Company (731) 707-2889
Mr. Kevin Welch, Tecumseh City Manager
Mr. Peter Quackenbush, MDEQ
Mr. Hak Cho, USEPA

Tecumseh

June 1, 2009

Harrison Properties, LLC
513 N. Occidental Rd.
Tecumseh, MI 49286

RE: Property at 220 E. Cummins St. (325-0101-00)

Dear Property Owner:

As you are aware, Tecumseh Products Company recently ceased manufacturing operations at 100 East Patterson Street in Tecumseh, Michigan. We are working closely with the City of Tecumseh in an effort to transfer the property to Consolidated Biscuit Company, a major manufacturer of cookies and crackers in North America. Consolidated Biscuit plans to convert the facility into a new manufacturing center and create 500 new jobs here in Tecumseh.

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Sincerely,

Randy Kopke
Facilities Manager

Enclosures: Questions and Answer Document
Notice of Migration
City of Tecumseh Water Supply Test Data

cc: Mr. Jason Smith, Corporate Environmental Director, Tecumseh Products Company (731) 707-2889
Mr. Kevin Welch, Tecumseh City Manager
Mr. Peter Quackenbush, MDEQ
Mr. Hak Cho, USEPA

Tecumseh

June 1, 2009

Salome & Angelina Herrera
219 E Cummins St.
Tecumseh, MI 49286

RE: Property at 219 E. Cummins St. (305-2110-00)

Dear Property Owner:

As you are aware, Tecumseh Products Company recently ceased manufacturing operations at 100 East Patterson Street in Tecumseh, Michigan. We are working closely with the City of Tecumseh in an effort to transfer the property to Consolidated Biscuit Company, a major manufacturer of cookies and crackers in North America. Consolidated Biscuit plans to convert the facility into a new manufacturing center and create 500 new jobs here in Tecumseh.

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Sincerely,

Randy Kopke
Facilities Manager

Enclosures: Questions and Answer Document
Notice of Migration
City of Tecumseh Water Supply Test Data

cc: Mr. Jason Smith, Corporate Environmental Director, Tecumseh Products Company (731) 707-2889
Mr. Kevin Welch, Tecumseh City Manager
Mr. Peter Quackenbush, MDEQ
Mr. Hak Cho, USEPA

Tecumseh

June 1, 2009

Herrick Memorial Hospital Inc.
500 E. Pottawatamie St.
Tecumseh, MI 49286

RE: Property at 415 E. Kilbuck St. (000-0351-00)

Dear Property Owner:

As you are aware, Tecumseh Products Company recently ceased manufacturing operations at 100 East Patterson Street in Tecumseh, Michigan. We are working closely with the City of Tecumseh in an effort to transfer the property to Consolidated Biscuit Company, a major manufacturer of cookies and crackers in North America. Consolidated Biscuit plans to convert the facility into a new manufacturing center and create 500 new jobs here in Tecumseh.

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Sincerely,

Randy Kopke
Facilities Manager

Enclosures: Questions and Answer Document
Notice of Migration
City of Tecumseh Water Supply Test Data

cc: Mr. Jason Smith, Corporate Environmental Director, Tecumseh Products Company (731) 707-2889
Mr. Kevin Welch, Tecumseh City Manager
Mr. Peter Quackenbush, MDEQ
Mr. Hak Cho, USEPA

Tecumseh

June 1, 2009

Lonnie D. Hignite
2223 Surrey Court SE
Marietta, GA 30067

RE: Property at 229 E. Cummins St. (305-2151-00)

Dear Property Owner:

As you are aware, Tecumseh Products Company recently ceased manufacturing operations at 100 East Patterson Street in Tecumseh, Michigan. We are working closely with the City of Tecumseh in an effort to transfer the property to Consolidated Biscuit Company, a major manufacturer of cookies and crackers in North America. Consolidated Biscuit plans to convert the facility into a new manufacturing center and create 500 new jobs here in Tecumseh.

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Sincerely,

Randy Kopke
Facilities Manager

Enclosures: Questions and Answer Document
Notice of Migration
City of Tecumseh Water Supply Test Data

cc: Mr. Jason Smith, Corporate Environmental Director, Tecumseh Products Company (731) 707-2889
Mr. Kevin Welch, Tecumseh City Manager
Mr. Peter Quackenbush, MDEQ
Mr. Hak Cho, USEPA

Tecumseh

June 1, 2009

JBM Tecumseh Mfg RE, LLC
707 S. Evans St.
Tecumseh, MI 49286

RE: Property at 705 S. Evans St. (133-4800-00)

Dear Property Owner:

As you are aware, Tecumseh Products Company recently ceased manufacturing operations at 100 East Patterson Street in Tecumseh, Michigan. We are working closely with the City of Tecumseh in an effort to transfer the property to Consolidated Biscuit Company, a major manufacturer of cookies and crackers in North America. Consolidated Biscuit plans to convert the facility into a new manufacturing center and create 500 new jobs here in Tecumseh.

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Sincerely,

Randy Kopke
Facilities Manager

Enclosures: Questions and Answer Document
Notice of Migration
City of Tecumseh Water Supply Test Data

cc: Mr. Jason Smith, Corporate Environmental Director, Tecumseh Products Company (731) 707-2889
Mr. Kevin Welch, Tecumseh City Manager
Mr. Peter Quackenbush, MDEQ
Mr. Hak Cho, USEPA

Tecumseh

June 1, 2009

David A. Kristina D. Keith
315 S. Maumee St.
Tecumseh, MI 49286

RE: Property at 315 S. Maumee St. (305-2180-00)

Dear Property Owner:

As you are aware, Tecumseh Products Company recently ceased manufacturing operations at 100 East Patterson Street in Tecumseh, Michigan. We are working closely with the City of Tecumseh in an effort to transfer the property to Consolidated Biscuit Company, a major manufacturer of cookies and crackers in North America. Consolidated Biscuit plans to convert the facility into a new manufacturing center and create 500 new jobs here in Tecumseh.

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Enclosures: Questions and Answer Document
Notice of Migration
City of Tecumseh Water Supply Test Data

cc: Mr. Jason Smith, Corporate Environmental Director, Tecumseh Products Company (731) 707-2889
Mr. Kevin Welch, Tecumseh City Manager
Mr. Peter Quackenbush, MDEQ
Mr. Hak Cho, USEPA

Tecumseh

June 1, 2009

Carol A Kennedy
233 E. Cummins St.
Tecumseh, MI 49286

RE: Property at 233 E. Cummins St. (305-2181-00)

Dear Property Owner:

As you are aware, Tecumseh Products Company recently ceased manufacturing operations at 100 East Patterson Street in Tecumseh, Michigan. We are working closely with the City of Tecumseh in an effort to transfer the property to Consolidated Biscuit Company, a major manufacturer of cookies and crackers in North America. Consolidated Biscuit plans to convert the facility into a new manufacturing center and create 500 new jobs here in Tecumseh.

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Notice of Migration
City of Tecumseh Water Supply Test Data

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Mr. Kevin Welch, Tecumseh City Manager
Mr. Peter Quackenbush, MDEQ
Mr. Hak Cho, USEPA

Tecumseh

June 1, 2009

Charles & Sally L. Laurer
207 S. Wyandotte St.
Tecumseh, MI 49286

RE: Property at 207 S. Wyandotte St. (000-0291-00)

Dear Property Owner:

As you are aware, Tecumseh Products Company recently ceased manufacturing operations at 100 East Patterson Street in Tecumseh, Michigan. We are working closely with the City of Tecumseh in an effort to transfer the property to Consolidated Biscuit Company, a major manufacturer of cookies and crackers in North America. Consolidated Biscuit plans to convert the facility into a new manufacturing center and create 500 new jobs here in Tecumseh.

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Randy Kopke
Facilities Manager

Enclosures: Questions and Answer Document
Notice of Migration
City of Tecumseh Water Supply Test Data

cc: Mr. Jason Smith, Corporate Environmental Director, Tecumseh Products Company (731) 707-2889
Mr. Kevin Welch, Tecumseh City Manager
Mr. Peter Quackenbush, MDEQ
Mr. Hak Cho, USEPA

Tecumseh

June 1, 2009

Joseph L. Lear
217 E Cummins St.
Tecumseh, MI 49286

RE: Property at 217 E Cummins St. (305-2091-00)

Dear Property Owner:

As you are aware, Tecumseh Products Company recently ceased manufacturing operations at 100 East Patterson Street in Tecumseh, Michigan. We are working closely with the City of Tecumseh in an effort to transfer the property to Consolidated Biscuit Company, a major manufacturer of cookies and crackers in North America. Consolidated Biscuit plans to convert the facility into a new manufacturing center and create 500 new jobs here in Tecumseh.

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Notice of Migration
City of Tecumseh Water Supply Test Data

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Mr. Kevin Welch, Tecumseh City Manager
Mr. Peter Quackenbush, MDEQ
Mr. Hak Cho, USEPA

Tecumseh

June 1, 2009

Lower Light Mission
20469 Deerfield Rd.
Deerfield, MI 49238

RE: Property at 214 S. Maumee St. (000-0332-00); 307 S. Maumee St. (305-2030-00)

Dear Property Owner:

As you are aware, Tecumseh Products Company recently ceased manufacturing operations at 100 East Patterson Street in Tecumseh, Michigan. We are working closely with the City of Tecumseh in an effort to transfer the property to Consolidated Biscuit Company, a major manufacturer of cookies and crackers in North America. Consolidated Biscuit plans to convert the facility into a new manufacturing center and create 500 new jobs here in Tecumseh.

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Ann Arbor, MI 48108
www.tecumseh.com

We hope that this letter and the enclosed information answer any questions or concerns. If you wish to discuss this further, please do not hesitate to contact me at (734) 585-9439, or any of the persons listed below.

Sincerely,

Randy Kopke
Facilities Manager

Enclosures: Questions and Answer Document
Notice of Migration
City of Tecumseh Water Supply Test Data

cc: Mr. Jason Smith, Corporate Environmental Director, Tecumseh Products Company (731) 707-2889
Mr. Kevin Welch, Tecumseh City Manager
Mr. Peter Quackenbush, MDEQ
Mr. Hak Cho, USEPA

Tecumseh

June 1, 2009

Masterpeace Management LLC
308 Maumee St. S.
Tecumseh, MI 49286

RE: Property at 308 S. Maumee St. (305-2192-00)

Dear Property Owner:

As you are aware, Tecumseh Products Company recently ceased manufacturing operations at 100 East Patterson Street in Tecumseh, Michigan. We are working closely with the City of Tecumseh in an effort to transfer the property to Consolidated Biscuit Company, a major manufacturer of cookies and crackers in North America. Consolidated Biscuit plans to convert the facility into a new manufacturing center and create 500 new jobs here in Tecumseh.

As part of this transaction an environmental investigation was conducted at the facility, which detected the existence of chemical concentrations in soil and groundwater at the facility. The chemical concentrations in groundwater have the potential to migrate into the groundwater below adjacent properties and properties "downgradient" in the natural easterly flow of subsurface groundwater. We have not tested the groundwater below your property, but as a precaution we have concluded that it is likely to be within the area of impacted groundwater. Because of this, Michigan Department of Environmental Quality (MDEQ) Rules require that we provide you with the enclosed Notice of Migration of Contamination, which provides more detail on this condition.

The City's public water supply system does not draw its water from this impacted area of groundwater. The City's water comes from deep wells located to the west of our facility, out of the direction of any migration contamination. The MDEQ annually tests the City's public water supply system for possible contaminants, including the chemicals we have detected at our facility, and this testing confirms that none of these chemicals are in the City's water supply. We have enclosed a copy of the most recent 2007 MDEQ Official Laboratory Report, which indicates "Not Detected" for each of these chemicals.

In addition to the enclosed Notice of Migration, we want to provide you with as much information as possible in order to address possible questions or concerns. Therefore, we have developed a Questions & Answers document, which we have enclosed with this letter. We are working cooperatively with the MDEQ to address this soil and groundwater contamination at our facility. As part of that effort we have installed numerous monitoring wells around the site to conduct regular testing.

1136 Oak Valley Drive
Ann Arbor, MI 48108
www.tecumseh.com

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Sincerely,

Randy Kopke
Facilities Manager

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Notice of Migration
City of Tecumseh Water Supply Test Data

cc: Mr. Jason Smith, Corporate Environmental Director, Tecumseh Products Company (731) 707-2889
Mr. Kevin Welch, Tecumseh City Manager
Mr. Peter Quackenbush, MDEQ
Mr. Hak Cho, USEPA

Tecumseh

June 1, 2009

Arthur &Regina R. Mauricio
406 E Kilbuck St.
Tecumseh, MI 49286

RE: Property at 406 E. Kilbuck St. (305-2194-00)

Dear Property Owner:

As you are aware, Tecumseh Products Company recently ceased manufacturing operations at 100 East Patterson Street in Tecumseh, Michigan. We are working closely with the City of Tecumseh in an effort to transfer the property to Consolidated Biscuit Company, a major manufacturer of cookies and crackers in North America. Consolidated Biscuit plans to convert the facility into a new manufacturing center and create 500 new jobs here in Tecumseh.

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Sincerely,

Randy Kopke
Facilities Manager

Enclosures: Questions and Answer Document
Notice of Migration
City of Tecumseh Water Supply Test Data

cc: Mr. Jason Smith, Corporate Environmental Director, Tecumseh Products Company (731) 707-2889
Mr. Kevin Welch, Tecumseh City Manager
Mr. Peter Quackenbush, MDEQ
Mr. Hak Cho, USEPA

Tecumseh

June 1, 2009

Larry L. Money
210 E. Cummins St.
Tecumseh, MI 49286

RE: Property at 210 E. Cummins St. (325-0110-00)

Dear Property Owner:

As you are aware, Tecumseh Products Company recently ceased manufacturing operations at 100 East Patterson Street in Tecumseh, Michigan. We are working closely with the City of Tecumseh in an effort to transfer the property to Consolidated Biscuit Company, a major manufacturer of cookies and crackers in North America. Consolidated Biscuit plans to convert the facility into a new manufacturing center and create 500 new jobs here in Tecumseh.

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Randy Kopke
Facilities Manager

Enclosures: Questions and Answer Document
Notice of Migration
City of Tecumseh Water Supply Test Data

cc: Mr. Jason Smith, Corporate Environmental Director, Tecumseh Products Company (731) 707-2889
Mr. Kevin Welch, Tecumseh City Manager
Mr. Peter Quackenbush, MDEQ
Mr. Hak Cho, USEPA

Tecumseh

June 1, 2009

George F. & Cheryl L. Murphy
13516 Canterbury Ct.
Plymouth, MI 48170

RE: Property at 216 E Kilbuck St. (305-1981-00)

Dear Property Owner:

As you are aware, Tecumseh Products Company recently ceased manufacturing operations at 100 East Patterson Street in Tecumseh, Michigan. We are working closely with the City of Tecumseh in an effort to transfer the property to Consolidated Biscuit Company, a major manufacturer of cookies and crackers in North America. Consolidated Biscuit plans to convert the facility into a new manufacturing center and create 500 new jobs here in Tecumseh.

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Randy Kopke
Facilities Manager

Enclosures: Questions and Answer Document
Notice of Migration
City of Tecumseh Water Supply Test Data

cc: Mr. Jason Smith, Corporate Environmental Director, Tecumseh Products Company (731) 707-2889
Mr. Kevin Welch, Tecumseh City Manager
Mr. Peter Quackenbush, MDEQ
Mr. Hak Cho, USEPA

Tecumseh

June 1, 2009

Orbin Herrell Trust
215 S. Maumee St.
Tecumseh, MI 49286

RE: Property at 211 S. Maumee St. (000-0432-00); 215 S. Maumee St. (000-0431-00)

Dear Property Owner:

As you are aware, Tecumseh Products Company recently ceased manufacturing operations at 100 East Patterson Street in Tecumseh, Michigan. We are working closely with the City of Tecumseh in an effort to transfer the property to Consolidated Biscuit Company, a major manufacturer of cookies and crackers in North America. Consolidated Biscuit plans to convert the facility into a new manufacturing center and create 500 new jobs here in Tecumseh.

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Randy Kopke
Facilities Manager

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Notice of Migration
City of Tecumseh Water Supply Test Data

cc: Mr. Jason Smith, Corporate Environmental Director, Tecumseh Products Company (731) 707-2889
Mr. Kevin Welch, Tecumseh City Manager
Mr. Peter Quackenbush, MDEQ
Mr. Hak Cho, USEPA

Tecumseh

June 1, 2009

Floella Richards
408 S. Ottawa St.
Tecumseh, MI 49286

RE: Property at 408 S. Ottawa St. (325-0120-00)

Dear Property Owner:

As you are aware, Tecumseh Products Company recently ceased manufacturing operations at 100 East Patterson Street in Tecumseh, Michigan. We are working closely with the City of Tecumseh in an effort to transfer the property to Consolidated Biscuit Company, a major manufacturer of cookies and crackers in North America. Consolidated Biscuit plans to convert the facility into a new manufacturing center and create 500 new jobs here in Tecumseh.

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Sincerely,

Randy Kopke
Facilities Manager

Enclosures: Questions and Answer Document
Notice of Migration
City of Tecumseh Water Supply Test Data

cc: Mr. Jason Smith, Corporate Environmental Director, Tecumseh Products Company (731) 707-2889
Mr. Kevin Welch, Tecumseh City Manager
Mr. Peter Quackenbush, MDEQ
Mr. Hak Cho, USEPA

Tecumseh

June 1, 2009

Thomas & Robert Robarge
210 S. Maumee St.
Tecumseh, MI 49286

RE: Property at 210 S. Maumee St. (000-0331-00)

Dear Property Owner:

As you are aware, Tecumseh Products Company recently ceased manufacturing operations at 100 East Patterson Street in Tecumseh, Michigan. We are working closely with the City of Tecumseh in an effort to transfer the property to Consolidated Biscuit Company, a major manufacturer of cookies and crackers in North America. Consolidated Biscuit plans to convert the facility into a new manufacturing center and create 500 new jobs here in Tecumseh.

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Randy Kopke
Facilities Manager

Enclosures: Questions and Answer Document
Notice of Migration
City of Tecumseh Water Supply Test Data

cc: Mr. Jason Smith, Corporate Environmental Director, Tecumseh Products Company (731) 707-2889
Mr. Kevin Welch, Tecumseh City Manager
Mr. Peter Quackenbush, MDEQ
Mr. Hak Cho, USEPA

Tecumseh

June 1, 2009

Southern Michigan RR Society
PO Box K
Clinton, MI 49236

RE: Property at Evans St. Between Cummins & Russell Rd. (128-4900-00)

Dear Property Owner:

As you are aware, Tecumseh Products Company recently ceased manufacturing operations at 100 East Patterson Street in Tecumseh, Michigan. We are working closely with the City of Tecumseh in an effort to transfer the property to Consolidated Biscuit Company, a major manufacturer of cookies and crackers in North America. Consolidated Biscuit plans to convert the facility into a new manufacturing center and create 500 new jobs here in Tecumseh.

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Notice of Migration
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Mr. Kevin Welch, Tecumseh City Manager
Mr. Peter Quackenbush, MDEQ
Mr. Hak Cho, USEPA

Tecumseh

June 1, 2009

Jessica A. Swanger
410 S. Ottawa St.
Tecumseh, MI 49286

RE: Property at 410 S. Ottawa St. (325-0160-00)

Dear Property Owner:

As you are aware, Tecumseh Products Company recently ceased manufacturing operations at 100 East Patterson Street in Tecumseh, Michigan. We are working closely with the City of Tecumseh in an effort to transfer the property to Consolidated Biscuit Company, a major manufacturer of cookies and crackers in North America. Consolidated Biscuit plans to convert the facility into a new manufacturing center and create 500 new jobs here in Tecumseh.

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Notice of Migration
City of Tecumseh Water Supply Test Data

cc: Mr. Jason Smith, Corporate Environmental Director, Tecumseh Products Company (731) 707-2889
Mr. Kevin Welch, Tecumseh City Manager
Mr. Peter Quackenbush, MDEQ
Mr. Hak Cho, USEPA

Tecumseh

June 1, 2009

Dario R. Torrez
227 E. Cummins St.
Tecumseh, MI 49286

RE: Property at 227 E. Cummins St. (305-2140-00)

Dear Property Owner:

As you are aware, Tecumseh Products Company recently ceased manufacturing operations at 100 East Patterson Street in Tecumseh, Michigan. We are working closely with the City of Tecumseh in an effort to transfer the property to Consolidated Biscuit Company, a major manufacturer of cookies and crackers in North America. Consolidated Biscuit plans to convert the facility into a new manufacturing center and create 500 new jobs here in Tecumseh.

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Notice of Migration
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Mr. Kevin Welch, Tecumseh City Manager
Mr. Peter Quackenbush, MDEQ
Mr. Hak Cho, USEPA

Tecumseh

June 1, 2009

Robert L. Walker
231 E. Cummins St.
Tecumseh, MI 49286

RE: Property at 231 E. Cummins St. (305-2170-00)

Dear Property Owner:

As you are aware, Tecumseh Products Company recently ceased manufacturing operations at 100 East Patterson Street in Tecumseh, Michigan. We are working closely with the City of Tecumseh in an effort to transfer the property to Consolidated Biscuit Company, a major manufacturer of cookies and crackers in North America. Consolidated Biscuit plans to convert the facility into a new manufacturing center and create 500 new jobs here in Tecumseh.

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Facilities Manager

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Notice of Migration
City of Tecumseh Water Supply Test Data

cc: Mr. Jason Smith, Corporate Environmental Director, Tecumseh Products Company (731) 707-2889
Mr. Kevin Welch, Tecumseh City Manager
Mr. Peter Quackenbush, MDEQ
Mr. Hak Cho, USEPA

Tecumseh

June 1, 2009

Martin F. & Phyllis Wallich
2800 W. Chicago Blvd.
Tecumseh, MI 49286

RE: Property at 400 E. Cummins St. Blk (325-0092-00)

Dear Property Owner:

As you are aware, Tecumseh Products Company recently ceased manufacturing operations at 100 East Patterson Street in Tecumseh, Michigan. We are working closely with the City of Tecumseh in an effort to transfer the property to Consolidated Biscuit Company, a major manufacturer of cookies and crackers in North America. Consolidated Biscuit plans to convert the facility into a new manufacturing center and create 500 new jobs here in Tecumseh.

As part of this transaction an environmental investigation was conducted at the facility, which detected the existence of chemical concentrations in soil and groundwater at the facility. The chemical concentrations in groundwater have the potential to migrate into the groundwater below adjacent properties and properties "downgradient" in the natural easterly flow of subsurface groundwater. We have not tested the groundwater below your property, but as a precaution we have concluded that it is likely to be within the area of impacted groundwater. Because of this, Michigan Department of Environmental Quality (MDEQ) Rules require that we provide you with the enclosed Notice of Migration of Contamination, which provides more detail on this condition.

The City's public water supply system does not draw its water from this impacted area of groundwater. The City's water comes from deep wells located to the west of our facility, out of the direction of any migration contamination. The MDEQ annually tests the City's public water supply system for possible contaminants, including the chemicals we have detected at our facility, and this testing confirms that none of these chemicals are in the City's water supply. We have enclosed a copy of the most recent 2007 MDEQ Official Laboratory Report, which indicates "Not Detected" for each of these chemicals.

In addition to the enclosed Notice of Migration, we want to provide you with as much information as possible in order to address possible questions or concerns. Therefore, we have developed a Questions & Answers document, which we have enclosed with this letter. We are working cooperatively with the MDEQ to address this soil and groundwater contamination at our facility. As part of that effort we have installed numerous monitoring wells around the site to conduct regular testing.

1136 Oak Valley Drive
Ann Arbor, MI 48108
www.tecumseh.com

We hope that this letter and the enclosed information answer any questions or concerns. If you wish to discuss this further, please do not hesitate to contact me at (734) 585-9439, or any of the persons listed below.

Sincerely,

Randy Kopke
Facilities Manager

Enclosures: Questions and Answer Document
Notice of Migration
City of Tecumseh Water Supply Test Data

cc: Mr. Jason Smith, Corporate Environmental Director, Tecumseh Products Company (731) 707-2889
Mr. Kevin Welch, Tecumseh City Manager
Mr. Peter Quackenbush, MDEQ
Mr. Hak Cho, USEPA

Tecumseh

June 1, 2009

Lee E. & Vernese G. Willis
306 E. Kilbuck St.
Tecumseh, MI 49286

RE: Property at 306 E. Kilbuck St. (305-2000-00)

Dear Property Owner:

As you are aware, Tecumseh Products Company recently ceased manufacturing operations at 100 East Patterson Street in Tecumseh, Michigan. We are working closely with the City of Tecumseh in an effort to transfer the property to Consolidated Biscuit Company, a major manufacturer of cookies and crackers in North America. Consolidated Biscuit plans to convert the facility into a new manufacturing center and create 500 new jobs here in Tecumseh.

As part of this transaction an environmental investigation was conducted at the facility, which detected the existence of chemical concentrations in soil and groundwater at the facility. The chemical concentrations in groundwater have the potential to migrate into the groundwater below adjacent properties and properties "downgradient" in the natural easterly flow of subsurface groundwater. We have not tested the groundwater below your property, but as a precaution we have concluded that it is likely to be within the area of impacted groundwater. Because of this, Michigan Department of Environmental Quality (MDEQ) Rules require that we provide you with the enclosed Notice of Migration of Contamination, which provides more detail on this condition.

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cc: Mr. Jason Smith, Corporate Environmental Director, Tecumseh Products Company (731) 707-2889
Mr. Kevin Welch, Tecumseh City Manager
Mr. Peter Quackenbush, MDEQ
Mr. Hak Cho, USEPA

Questions and Answers (updated 06/01/09)

1. **I received a notice of off-site migration. What do I do now?**
   In most cases you do not need to do anything. Because chemical concentrations were detected in groundwater above the criteria established by the Michigan Department of Environmental Quality near the Tecumseh Products Company site, the Michigan Department of Environmental Quality requires that the Tecumseh Products Company notify property owners whose property might be affected by off-site migration of affected groundwater. If you receive your water from the City's public water supply system, rather than water from an on-site well, you are not likely to come in contact with the groundwater. However, if you have a private well on your property, see the response to Question 4 below.

2. **What is groundwater, and how far below ground is it?**
   Groundwater is water located beneath the ground surface in soil pore spaces (i.e., space between grains of sand). The depth at which these soil pore spaces become completely saturated with water is called the groundwater table. The depth at which the soil becomes saturated in the vicinity of the Tecumseh Products Company site is approximately 10 to 25 feet below the ground surface. This groundwater is stored in and moves through layers of soil and sand called aquifers. These materials are permeable because they have connected spaces that allow water to flow through. Data collected at the Tecumseh Products Company site show that groundwater is generally flowing towards the east/northeast.

3. **Can I drink/use my tap water?**
   The Tecumseh Products Company is not aware that this condition affects the City's public water supply system. Please contact your water utility if you have specific questions on the condition of your tap water. If you have a private well see the response to Question 4.

1136 Oak Valley Drive
Ann Arbor, MI 48108
www.tecumseh.com

Questions and Answers (Continued)

4. **What if I have a well on my property?**
   The Tecumseh Products Company is currently unaware of any evidence that chemicals are present in groundwater at typical well depths (greater than 50 feet). However, if you have a well on your property, as a precautionary measure Tecumseh Products Company would like to collect and analyze a water sample from your well. Please notify Randy Kopke at Tecumseh Products Company (734) 585-9439 at your earliest convenience to arrange for this. The sample will be collected by our environmental consultant, RMT Inc., and a chemical analysis will be performed at no cost to you. We will provide you with the results of the laboratory analysis of the sample when we receive it, and we will be available to answer any questions or concerns you may have.

5. **Do I have to be concerned above migration of chemicals into the air in my basement or house?**
   The Michigan Department of Environmental Quality has established groundwater criteria to evaluate when there might be a risk that groundwater contaminant vapors might enter buildings. Concentrations detected at the Tecumseh Products Company perimeter and nearby areas are below these criteria.

6. **Is it safe for my children/pets to play outside in the yard?**
   Off-site migration is in subsurface groundwater; therefore children and pets playing outside are typically not exposed to chemicals that may be migrating from the Tecumseh Products Corporation site.

MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY
REMEDIATION AND REDEVELOPMENT DIVISION

For DEQ Use Only
ITS # _____
Site ID #_____
Category Code: _____

NOTICE OF MIGRATION OF CONTAMINATION

This notice must be sent to the DEQ office that serves the county in which the property is located. A list of DEQ offices is available at www.michigan.gov/bea, or by calling the Remediation and Redevelopment's Lansing office at 517-373-9837. The DEQ will not prepare acknowledgement of receipt of these notices. The sender is responsible for sending the report using a method that provides proof of delivery if such proof is desired. Please label the outside of the envelope "Migration Notice." Additional guidelines for the compliance with the requirements of R 200.51017(1) or R 299.5522 are available at www.michigan.gov/bea.

THIS NOTICE IS PROVIDED PURSUANT TO: **R 299.5522** ☒ **R 299.51017** ☒
(check both, if applicable)

Please provide the following information as completely as possible.

1. Name and location of the property that hazardous substances are emanating from:

   Name: Tecumseh Products Company
   Address: 100 E. Patterson Street
   Location: Tecumseh, Michigan
   City/County: Tecumseh, Lenawee
   Property Tax Identification Number, or if applicable, the ward and item number: 325-0241-00 & 325-0250-00

2. Status relative to the property:
   (Check one or both, as applicable.)

   Owner ☒
   Operator ☒

Provide any additional ID numbers associated with the property (e.g., EPA ID No., BEA No., Part 213 facility ID No., etc.):

3. Name, address, and telephone number of the property owner, operator, or other party submitting the notice:
   Name: Tecumseh Products Company
   Address: 1136 Oak Valley Drive
   City/State: Ann Arbor, Michigan
   Telephone number: 734-585-9500

4. Name, address and telephone number of a contact person familiar with the content of the notice:
   Name: Mr. Randy Kopke-Corporate Facilities and Property Manager
   Address: 1136 Oak Valley Drive
   City/State: Ann Arbor, Michigan
   Telephone: 734-585-9439

5. If this Notice is provided pursuant to R 299.51017, provide the address and other location information for the *adjacent* property(s) onto which contamination is migrating, has migrated, or is likely to migrate. If this Notice is provided pursuant to R 299.5522, provide the address and other location information for *each* property onto which contamination has migrated. Notice should be sent to the property owner of record. If the impacted property is owned by the State of Michigan, notice should be sent to the department managing the property (i.e. a prison, state park, etc.). Notices to the Michigan Department of Transportation (MDOT) for state owned roadways should be sent to Ms. Heather Hicks, MDOT-Bureau of Transportation Planning, 425 W. Ottawa Street, P.O. Box 30050, Lansing, MI 48989. If it isn't readily apparent what state department manages the property, notices should be sent to Mr. Thomas Saxton, Tenant and Land Services, Department of Management and Budget, 1st Floor Lewis-Cass Building, P.O. Box 30026, Lansing, MI 48909.

   See Attached List of Notified Property Owners for Pertinent Information.

6. Complete the Table on Page 3 of this Form for each hazardous substance which has migrated, or is likely to have migrated, beyond the property boundary at a concentration that exceeds a Generic Residential Cleanup Criterion developed by the DEQ pursuant to MCL 324.20120a(1). Complete and attach additional copies of Page 3, if necessary, to list all hazardous substances that must be reported. Include a scaled map or drawing that shows the location of sampling points identified on the Table on Page 3, the property boundaries, and the adjacent property owners if providing notice pursuant to R 299.1017(1) or all impacted property owners if providing notice pursuant to Rule 299.5522.

See Completed Table 3 and Attached Figure

7. Provide a summary of the information which shows that contamination is emanating from, or has emanated from, and is present beyond the boundary of the source property at a concentration which exceeds that allowed by MCL 324.20120a(1)(a). This summary shall identify the environmental media affected, specific hazardous substances, and the concentrations of those hazardous substances in all affected environmental media at the property boundary and in any sample locations beyond the property boundary. The summary shall also describe the basis for the conclusion that the contamination is emanating, has emanated, or is present beyond the boundary of the source property, including whether the conclusion is based on groundwater analytical data or fate and transport modeling, both, or neither.

On February 23, 2009 Tecumseh Products Company (TPC) received a draft of the Phase II Subsurface Investigation conducted on behalf of the potential purchaser of the site, Consolidated Biscuit Company (CBC). Data in the Phase II report indicated that groundwater beneath the TPC manufacturing facility in Tecumseh, Michigan contained concentrations of trichloroethene (TCE), cis-1,2-dichloroethene (cis-1,2-DCE), vinyl chloride, 1,1,1-trichloroethane (1,1,1-TCA), and 1,1-dichloroethene (1,1-DCE) above generic Michigan Department of Environmental Quality (MDEQ) criteria. Two samples collected near the facility property boundary indicated the potential for off-site migration. In March 2009, RMT Inc. (RMT) on behalf of TPC, conducted a perimeter investigation to determine groundwater flow direction and to evaluate the potential for off-site migration.

Data from the March 2009 investigation indicate that groundwater near the site perimeter contains concentrations of volatile organic compounds (VOCs) specifically TCE, cis-1,2-DCE, vinyl chloride, and 1,1,1-TCA above generic MDEQ criteria. The maximum concentrations for TCE, cis-1,2-DCE, vinyl chloride, and 1,1,1-TCA were 5,000 µg/L, 2,100 µg/L, 460 µg/L, and 750 µg/L, respectively. The highest concentrations of these constituents were found in the shallow groundwater. Water levels collected from nine shallow monitoring wells installed on-site indicate that groundwater flow is generally to the east toward the River Raisin.

Based on the information available at the time, specifically the concentrations of TCE, cis-1,2-DCE, vinyl chloride, and 1,1,1-TCA near the property boundary and the direction of groundwater flow. TPC conservatively identified 38 properties that could be affected by off-site migration. These properties included all properties between the TPC manufacturing facility and the River Raisin and those properties adjacent to the north or south side of the TPC manufacturing facility. These properties were notified of the potential for off-site migration on April 8, 2009.

In April and May 2009, RMT on behalf of TPC conducted an off-site investigation to determine the actual extent of off-site migration. Off-site, the maximum concentrations for TCE, cis-1,2-DCE, vinyl chloride, and 1,1,1-TCA were 1,700 µg/L, 5,500 µg/L, 450 µg/L, and 740 µg/L, respectively. The April-May 2009 investigation has generally defined the extent of off-site migration. Based on this information, TPC has identified 34 additional properties that may be affected by off-site VOC migration.

8. If the person making this notice has reason to believe that a migrating hazardous substance has affected, or is likely to affect, a private or public water supply, then that water supply must be identified here:

Water quality analysis for the City of Tecumseh municipal well field have not detected any of the hazardous substances identified above. Furthermore, the municipal well field is located west of the TPC facility, and data collected at the TPC site show that groundwater flow is towards the east. Concurrent with submittal of this notice, TPC is working with the City of Tecumseh and the County Health Department to identify if properties downgradient of the site may be using groundwater from an on-site well. As a precautionary measure TPC will sample on-site private wells at not cost to the owner.

	YES	NO
9. Is this notice being submitted within the timeframes established under R 299.5522 and/or R 299.51017, as applicable?	☒	☐
10. Is this notice in addition to a notice submitted prior to *December 21, 2002?* (R 299.51017(4)(c))	☐	☒
11. Is this notice related to an oil and gas well permit (R 299.51017(2))? Permit #:	☐	☒
12. Is this notice related to an easement (R 299.51017(3))? (NOTE: All easement grantors *must* receive this notice.)	☐	☒
13. Has surface water been affected (R 299.51017(1) and R 299.5522(2))? (If yes, please identify the affected surface water body.)	☐	☒

CERTIFICATION:

With my signature below, I certify that I am the owner of the facility or that I am legally authorized to execute this notice on behalf of the owner or operator named on this form, and that to the best of my knowledge and belief the above representations are complete and accurate. I understand that intentionally submitting false information to the DEQ is a felony and may result in fines up to $25,000 for each violation.

Signature _____ Date: **June 1, 2009**
(Owner or person legally authorized to bind the person making this report)

Name (Typed or Printed) **Randy Kopke**

Title (Typed or Printed) **Corporate Facilities and Property Manager**

See Item 6 on Page 2 of this Form for instructions to be used in completing this Table. Attach additional pages if necessary. The information to be included in each column of the Table is:

Column A Name of hazardous substance.
Column B Chemical Abstract Service (CAS) Number for the hazardous substance.
Column C Maximum hazardous substance concentration measured on the property, expressed in parts per billion (e.g., ug/L or ug/Kg). Report maximum concentration separately for each environmental medium.
Column D Sample location for Column C (relate to label on map).
Column E Environmental medium in which concentration reported in Column C was measured (e.g., soil or groundwater).
Column F Distance from point of maximum measured concentration (Column D) to property boundary, in direction of contaminant migration, if direction is known or can reasonably be inferred. If direction is unknown, list distance to nearest property boundary.
Column G Direction of contaminant migration, if known.
Column H Concentration closest to property boundary, if known. If a concentration lower than the maximum concentration reported in Column C has been measured at a point closer to the property boundary in the direction of contaminant migration, use Column I to list the concentration that was measured closest to the property boundary in the direction of contaminant migration.
Column I Sample location for Column H (relate to label on map).
Column J Environmental medium for measurement reported in Column H, if applicable.

A Hazardous Substance	B CAS Number	C Maximum Concentration	D Sample Location for "C"	E Environmental Medium for "C"	F Distance to Property Boundary	G Direction of Migration	H Boundary Concentration	I Sample Location for "H"	J Environmental Medium for "H"
1,1-Dichloroethene	75354	920	GP-21	Groundwater	~ 500	East	5.9	B-1	Groundwater
cis-1,2-Dichloroethene	156592	5500	B23 (30'-34')	Groundwater	Off-site ~50 ft north	East/Northeast	NA	NA	NA
1,1,1-Trichloroethane	71556	8500	GP-21	Groundwater	~ 500 ft	East	1100	MW-1s	Groundwater
Trichloroethene	79016	5000	MW-4s	Groundwater	~100 ft	East/Northeast	NA	NA	NA
Vinyl Chloride	75014	520	MW-4s	Groundwater	~100 ft	East/Northeast	NA	NA	NA

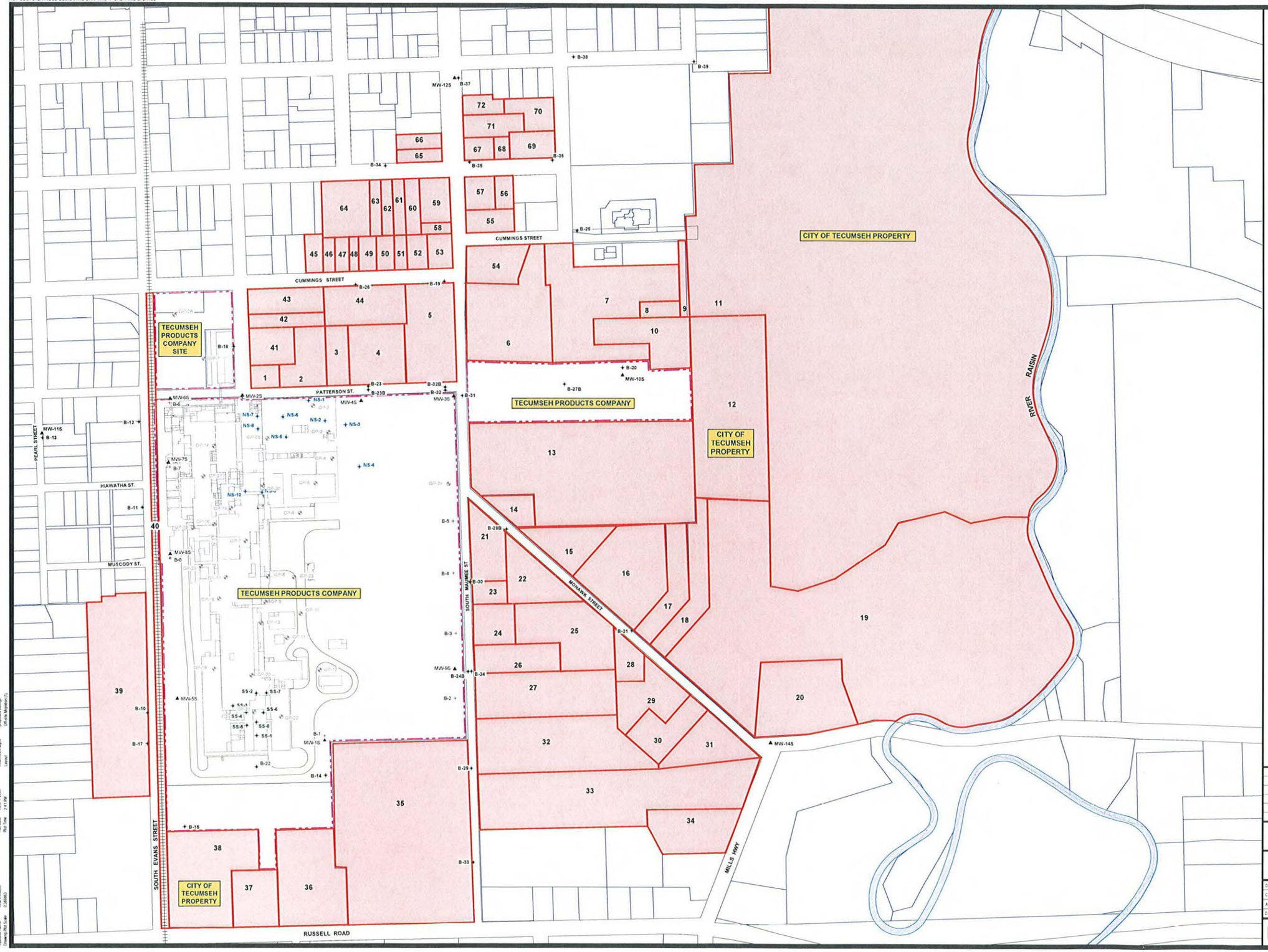
Total Number Samples Collected: 165 Total Number of Samples Exceeding Criteria: 102

A scaled map or drawing showing these locations and the property boundaries must be submitted with this Notice

Tecumseh Products Company
List of Notified Property Owners
Tecumseh, Michigan
June 1, 2009

Map ID #	Parcel #	Property Address	Owner Name	Owner Address	Owner City	ST	Zip Code	Notification Date
39	133-4800-00	705 S EVANS ST	JBM TECUMSEH MFG RE, LLC	707 S EVANS ST	TECUMSEH	MI	49286	06/01/09
40	128-4900-00	EVANS ST	SOUTHERN MICHIGAN RR SOCIETY	PO BOX K	CLINTON	MI	49236	06/01/09
41	325-0160-00	410 S OTTAWA ST	SWANGER, JESSICA A	410 S OTTAWA ST	TECUMSEH	MI	49286	06/01/09
42	325-0120-00	408 S OTTAWA ST	RICHARDS, FLOELLA	408 S OTTAWA ST	TECUMSEH	MI	49286	06/01/09
43	325-0110-00	210 E CUMMINS ST	MONEY, LARRY L	21O E CUMMINS ST	TECUMSEH	MI	49286	06/01/09
44	325-0101-00	220 E CUMMINS ST	HARRISON PROPERTIES, LLC	513 N OCCIDENTAL RD	TECUMSEH	MI	49286	06/01/09
45	305-2091-00	217 E CUMMINS ST	LEAR, JOSEPH L	217 E CUMMINS ST	TECUMSEH	MI	49286	06/01/09
46	305-2110-00	219 E CUMMINS ST	HERRERA, SALOME & ANGELINA	219 E CUMMINS ST	TECUMSEH	MI	49286	06/01/09
47	305-2120-00	221 E CUMMINS ST	BAUGHEY TRUST, HOWARD J	221 E CUMMINS ST	TECUMSEH	MI	49286	06/01/09
48	305-2131-00	223 E CUMMINS ST	COUNTS, THOMAS H & SHRON A	223 E CUMMINS ST	TECUMSEH	MI	49286	06/01/09
49	305-2140-00	227 E CUMMINS ST	TORREZ, DARIO R	227 E CUMMINS ST	TECUMSEH	MI	49286	06/01/09
50	305-2151-00	229 E CUMMINS ST	HIGNITE, LONNIE D	2223 SURREY COURT SE	MARIETTA	GA	30067	06/01/09
51	305-2170-00	231 E CUMMINS ST	WALKER, ROBERT L	231 E CUMMINS ST	TECUMSEH	MI	49286	06/01/09
52	305-2181-00	233 E CUMMINS ST	KENNEDY, CAROL A	233 E CUMMINS ST	TECUMSEH	MI	49286	06/01/09
53	305-2180-00	315 S MAUMEE ST	KEITH, DAVID A & KRISTINA D	315 S MAUMEE ST	TECUMSEH	MI	49286	06/01/09
54	325-0092-00	400 E CUMMINS ST BLK	WALLICH, MARTIN F & PHYLLIS	2800 W CHICAGO BLVD	TECUMSEH	MI	49286	06/01/09
55	305-2192-00	308 S MAUMEE ST	MASTERPEACE MANAGEMENT LLC	308 MAUMEE ST S	TECUMSEH	MI	49286	06/01/09
56	305-2194-00	406 E KILBUCK ST	MAURICIO, ARTHUR & REGINA R	406 E KILBUCK ST	TECUMSEH	MI	49286	06/01/09
57	305-2191-00	302 S MAUMEE ST	GATES, TERI	2690 DINIUS RD	TECUMSEH	MI	49286	06/01/09
58	305-2051-00	311 S MAUMEE ST	DUNCAN TRUST, HAROLD L	311 S MAUMEE ST	TECUMSEH	MI	49286	06/01/09
59	305-2030-00	307 S MAUMEE ST	LOWER LIGHT MISSION	20469 DEERFIELD RD.	DEERFIELD	MI	49238	06/01/09
60	305-2020-00	310 E KILBUCK ST	CAMBURN, ANNA M	310 E KILBUCK ST	TECUMSEH	MI	49286	06/01/09
61	305-2010-00	308 E KILBUCK ST	DEAVERS, NICKOLAS B & MICHELLE	308 E KILBUCK ST	TECUMSEH	MI	49286	06/01/09
62	305-2000-00	306 E KILBUCK ST	WILLIS, LEE E & VERNESE G	306 E KILBUCK ST	TECUMSEH	MI	49286	06/01/09
63	305-1990-00	304 E KILBUCK ST	DAWDY, HAZEL	304 E KILBUCK ST	TECUMSEH	MI	49286	06/01/09
64	305-1981-00	216 E KILBUCK ST	MURPHY, GEORGE F & CHERYL L	13516 CANTERBURY CT	PLYMOUTH	MI	48170-2448	06/01/09
65	000-0431-00	215 S MAUMEE ST	HERRELL TRUST, ORBIN	215 S MAUMEE ST	TECUMSEH	MI	49286	06/01/09
66	000-0432-00	211 S MAUMEE ST	HERRELL TRUST, ORBIN	215 S MAUMEE ST	TECUMSEH	MI	49286	06/01/09
67	000-0332-00	214 S MAUMEE ST	LOWER LIGHT MISSION	20469 DEERFIELD RD.	DEERFIELD	MI	49238	06/01/09
68	000-0341-00	409 E KILBUCK ST	GUENTHER, JERAME L	409 E KILBUCK ST	TECUMSEH	MI	49286	06/01/09
69	000-0351-00	415 E KILBUCK ST	HERRICK MEM HOSP INC	500 E POTTAWATAMIE ST	TECUMSEH	MI	49286	06/01/09
70	000-0291-00	207 S WYANDOTTE ST	LAUER, CHARLES & SALLY L	207 S WYANDOTTE ST	TECUMSEH	MI	49286	06/01/09
71	000-0331-00	210 S MAUMEE ST	ROBARGE, THOMAS & ROBERT ROBAR	210 S MAUMEE ST	TECUMSEH	MI	49286	06/01/09
72	000-0302-00	206 S MAUMEE ST	BILBY, RICHARD L & SHARON	206 S MAUMEE ST	TECUMSEH	MI	49286	06/01/09

Notes:
1) Parcel identification numbers and owner information provided by the City of Tecumseh on March 12, 2009 and April 3, 2009.



LEGEND

- TECUMSEH PRODUCTS SITE BOUNDARY
- RAILROAD TRACKS (APPROXIMATE LOCATION)
- B-2 + EXISTING SOIL BORING LOCATION AND NUMBER (INSTALLED BY RMT, INC. MARCH 2009)
- MW-4S ▲ EXISTING MONITORING WELL LOCATION AND NUMBER (INSTALLED BY RMT, INC. MARCH 2009)
- GP-26 APPROXIMATE GEOPROBE LOCATION, BORINGS ADVANCED AS PART OF ATCs LIMITED PHASE II INVESTIGATION IN DECEMBER 2008 AND JANUARY 2009.
- SS-2 NORTHERN SOURCE AREA INVESTIGATION BORING LOCATION AND NUMBER
- NS-6 SOUTHERN SOURCE AREA INVESTIGATION BORING LOCATION AND NUMBER
- B-23 PERIMETER / OFF-SITE INVESTIGATION BORING LOCATION AND NUMBER
- MAP ID NUMBER
- 23 PROPERTIES RECEIVING NOTICES OF OFF-SITE MIGRATION

NOTES

1. BASE MAP DEVELOPED FROM SITE PLAN PROVIDED BY THE CITY OF TECUMSEH, DRAWING NO. CITY.DWG, MARCH 2009. AERIAL PHOTOGRAPH PROVIDED FROM REMOTE SENSING & GIS RESEARCH AND OUTREACH SERVICES (RS&GIS). *PUBLICATION_DATE:* 06-29-2007. File:TECUMSEHSOUTH_NE.ECW.

0 200 400 600 800
SCALE IN FEET

NO.	BY	DATE	REVISION	APP'D
5				
4				
3				
2				
1				

TECUMSEH PRODUCTS
TECUMSEH, MICHIGAN

NOTICES OF POTENTIAL OFF-SITE MIGRATION

DRAWN BY	SJL	DRAWING SCALE	PROJECT NO. J-10807002
CHECKED BY	JAB/SM	SHOWN	FILE NO. 8070.02.11.dwg
APPROVED BY	GC	DATE PRINTED	**FIGURE 1**
DATE	June 2009		

RMT
3754 Rancheria Drive
Ann Arbor, MI 48108-2237
Phone: 734-971-7080 • Fax: 734-971-9022

MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY
DRINKING WATER LABORATORY
USEPA Region V Drinking Water Cert. No. MI00003
P.O. Box 30270
Lansing, MI 48909
TEL: (517) 335-8184
FAX: (517) 335-8562

Lab Results 2007

Sample Number
LB76877

Official Laboratory Report

Report To: TODD AMSTUTZ
710 EAST CHICAGO BLVD
TECUMSEH MI 49286

System Name/Owner:	CITY OF TECUMSEH	WSSN/Pool ID:	6560
Collection Address:	S WELLFIELD/ PATTERSON ST,TECU	Source:	TYPE I
Collected By:	TODD AMSTUTZ	Site Code:	C002
Township/Well#/Section:	/10/	Collector:	Public Water Supply Operator
County:	Lenawee	Date Collected:	09/10/2007 09:20
Sample Point:	PLANT TAP	Date Received:	09/11/2007 10:57
Water System:	Public System Well	Purpose:	Routine Monitoring

TESTING INFORMATION			REGULATORY INFORMATION			
Analyte Name	Result (mg/L)	Date Tested	RL (mg/L)	MCL/AL (mg/L)	Method	CAS #
Chloride	58	09/11/2007	4		SM 4500-Cl E	7647-14-5
Fluoride	0.74	09/11/2007	0.1	4.0	SM 4500 FC	16984-48-8
ardness as CaCO3	354	09/11/2007	20		SM 2340 C	HARD-00-C
Iron (automated)	Not detected	09/11/2007	0.1		SM 3500 FeB	7439-89-6
Nitrate as N	0.4	09/11/2007	0.4	10	SM 4500 NO3H	14797-55-8
Nitrite as N	Not detected	09/11/2007	0.05	1	SM 4500 NO3H	14797-65-0
Sodium (automated)	28	09/11/2007	5		SM 3500 NaB	7440-23-5
Sulfate	49	09/11/2007	10		SM 4500 SO4E	14808-79-8
Volatile Organic Compounds						
1,1 Dichloroethane	Not Detected	09/14/2007	0.0005		EPA 524.2	75-34-3
1,1 Dichloroethylene	Not Detected	09/14/2007	0.0005	0.007	EPA 524.2	75-35-4
1,1 Dichloropropene	Not Detected	09/14/2007	0.0005		EPA 524.2	563-58-6
1,1,1 Trichloroethane	Not Detected	09/14/2007	0.0005	0.2	EPA 524.2	71-55-6
1,1,1,2 Tetrachloroethane	Not Detected	09/14/2007	0.0005		EPA 524.2	630-20-6
1,1,2 Trichloroethane	Not Detected	09/14/2007	0.0005	0.005	EPA 524.2	79-00-5
1,1,2,2 Tetrachloroethane	Not Detected	09/14/2007	0.0005		EPA 524.2	79-34-5
1,2 Dichlorobenzene	Not Detected	09/14/2007	0.0005	0.6	EPA 524.2	95-50-1
1,2 Dichloroethane	Not Detected	09/14/2007	0.0005	0.005	EPA 524.2	107-06-2
1,2 Dichloropropane	Not Detected	09/14/2007	0.0005	0.005	EPA 524.2	78-87-5
1,2,3 Trichlorobenzene	Not Detected	09/14/2007	0.0005		EPA 524.2	87-61-6
1,2,3 Trichloropropane	Not Detected	09/14/2007	0.0005		EPA 524.2	96-18-4
1,2,4 Trichlorobenzene	Not Detected	09/14/2007	0.0005	0.07	EPA 524.2	120-82-1
1,2,4 Trimethylbenzene	Not Detected	09/14/2007	0.0005		EPA 524.2	95-63-6
3 Dichlorobenzene	Not Detected	09/14/2007	0.0005		EPA 524.2	541-73-1

CAS# : Chemical Abstract Service Registry Number
MCL : Maximum Contaminent Level
AL : Action Level
RL : Reporting Limit

mg/L : milligrams / Liter (ppm)
ppm : parts per million
MPN : Most Probable Number
CFU : Colony Forming Unit

Laboratory Contacts
Drinking Water Unit Mgr: Julia Pieper
Systems Mgmt. Unit Mgr: George Krisztian

MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY
DRINKING WATER LABORATORY
USEPA Region V Drinking Water Cert. No. MI00003
P.O. Box 30270
Lansing, MI 48909
TEL: (517) 335-8184
FAX: (517) 335-8562

Sample Number
LB76877

TESTING INFORMATION				REGULATORY INFORMATION		
Analyte Name	Result (mg/L)	Date Tested	RL (mg/L)	MCL/AL (mg/L)	Method	CAS #
Volatile Organic Compounds						
1,3 Dichloropropane	Not Detected	09/14/2007	0.0005		EPA 524.2	142-28-9
1,3,5 Trimethylbenzene	Not Detected	09/14/2007	0.0005		EPA 524.2	108-67-8
1,4 Dichlorobenzene	Not Detected	09/14/2007	0.0005	0.075	EPA 524.2	106-46-7
2,2 Dichloropropane	Not Detected	09/14/2007	0.0005		EPA 524.2	594-20-7
Benzene	Not Detected	09/14/2007	0.0005	0.005	EPA 524.2	71-43-2
Bromobenzene	Not Detected	09/14/2007	0.0005		EPA 524.2	108-86-1
Bromochloromethane	Not Detected	09/14/2007	0.0005		EPA 524.2	74-97-5
Bromodichloromethane	Not Detected	09/14/2007	0.0005	0.080	EPA 524.2	75-27-4
Bromoform	Not Detected	09/14/2007	0.0005	0.080	EPA 524.2	75-25-2
Bromomethane	Not Detected	09/14/2007	0.001		EPA 524.2	74-83-9
Carbon tetrachloride	Not Detected	09/14/2007	0.0005	0.005	EPA 524.2	56-23-5
Chlorobenzene	Not Detected	09/14/2007	0.0005	0.1	EPA 524.2	108-90-7
Chlorodibromomethane	Not Detected	09/14/2007	0.0005	0.080	EPA 524.2	124-48-1
Chloroethane	Not Detected	09/14/2007	0.0005		EPA 524.2	75-00-3
Chloroform	Not Detected	09/14/2007	0.0005	0.080	EPA 524.2	67-66-3
Chloromethane	Not Detected	09/14/2007	0.0005		EPA 524.2	74-87-3
1,2 Dichloroethylene	Not Detected	09/14/2007	0.0005	0.07	EPA 524.2	156-59-2
cis-1,3 Dichloropropene	Not Detected	09/14/2007	0.0005		EPA 524.2	10061-01-5
Dibromomethane	Not Detected	09/14/2007	0.0005		EPA 524.2	74-95-3
Dichlorodifluoromethane	Not Detected	09/14/2007	0.001		EPA 524.2	75-71-8
Dichloromethane	Not Detected	09/14/2007	0.0006	0.005	EPA 524.2	75-09-2
Ethylbenzene	Not Detected	09/14/2007	0.0005	0.7	EPA 524.2	100-41-4
Fluorotrichloromethane	Not Detected	09/14/2007	0.001		EPA 524.2	75-69-4
Hexachlorobutadiene	Not Detected	09/14/2007	0.0005		EPA 524.2	87-68-3
Isopropylbenzene	Not Detected	09/14/2007	0.0005		EPA 524.2	98-82-8
m & p-Xylene	Not Detected	09/14/2007	0.0005	10	EPA 524.2	XYLMP-00-C
Methyl ethyl ketone	Not Detected	09/14/2007	0.005		EPA 524.2	78-93-3
Methyl isobutyl ketone	Not Detected	09/14/2007	0.005		EPA 524.2	108-10-1
Methyl-tert-butyl ether (MTBE)	Not Detected	09/14/2007	0.001		EPA 524.2	1634-04-4
Naphthalene	Not Detected	09/14/2007	0.0005		EPA 524.2	91-20-3
n-Butylbenzene	Not Detected	09/14/2007	0.0005		EPA 524.2	104-51-8
Nitrobenzene	Not Detected	09/14/2007	0.01		EPA 524.2	98-95-3
n-Propylbenzene	Not Detected	09/14/2007	0.0005		EPA 524.2	103-65-1
o-Chlorotoluene	Not Detected	09/14/2007	0.0005		EPA 524.2	95-49-8
o-Xylene	Not Detected	09/14/2007	0.0005	10	EPA 524.2	95-47-6
p-Chlorotoluene	Not Detected	09/14/2007	0.0005		EPA 524.2	106-43-4
p-Isopropyltoluene	Not Detected	09/14/2007	0.0005		EPA 524.2	99-87-6
sec-Butylbenzene	Not Detected	09/14/2007	0.0005		EPA 524.2	135-98-8
Styrene	Not Detected	09/14/2007	0.0005	0.1	EPA 524.2	100-42-5

CAS# : Chemical Abstract Service Registry Number
MCL : Maximum Contaminent Level
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RL : Reporting Limit

mg/L : milligrams / Liter (ppm)
ppm : parts per million
MPN : Most Probable Number
CFU : Colony Forming Unit

Laboratory Contacts
Drinking Water Unit Mgr: Julia Pieper
Systems Mgmt. Unit Mgr: George Krisztian

MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY
DRINKING WATER LABORATORY
USEPA Region V Drinking Water Cert. No. MI00003
P.O. Box 30270
Lansing, MI 48909
TEL: (517) 335-8184
FAX: (517) 335-8562

Sample Number
LB76877

Analyte Name	Result (mg/L)	Date Tested	RL (mg/L)	MCL/AL (mg/L)	Method	CAS #
Volatile Organic Compounds						
tert-Butylbenzene	Not Detected	09/14/2007	0.0005		EPA 524.2	98-06-6
Tetrachloroethylene	Not Detected	09/14/2007	0.0005	0.005	EPA 524.2	127-18-4
Tetrahydrafuran	Not Detected	09/14/2007	0.005		EPA 524.2	109-99-9
Toluene	Not Detected	09/14/2007	0.0005	1	EPA 524.2	108-88-3
Total Trihalomethanes	Not Detected	09/14/2007		0.080	EPA 524.2	TTHM-00-C
Total Xylenes	Not Detected	09/14/2007		10	EPA 524.2	1330-20-7
trans-1,2 Dichloroethylene	Not Detected	09/14/2007	0.0005	0.1	EPA 524.2	156-60-5
trans-1,3 Dichloropropene	Not Detected	09/14/2007	0.0005		EPA 524.2	10061-02-6
Trichloroethylene	Not Detected	09/14/2007	0.0005	0.005	EPA 524.2	79-01-6
Vinyl chloride	Not Detected	09/14/2007	0.0004	0.002	EPA 524.2	75-01-4

The analyses performed by the MDEQ Drinking Water Laboratory were conducted using methods approved by the U.S. Environmental Protection Agency in accordance with the Safe Drinking Water Act, 40 CFR parts 141-143, and other regulatory agencies as appropriate.

Your local health department has detailed information about the quality of drinking water in your area. If you have concerns about the health risks related to the test results of your sample, please contact the Environmental Health Section through the address and telephone number listed below:

Lenawee County Health Dept.
1040 S. Winter St #2328
Adrian, MI 49221-3871
517 264-5202

CAS# : Chemical Abstract Service Registry Number
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MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY
DRINKING WATER LABORATORY
USEPA Region V Drinking Water Cert. No. MI00003
P.O. Box 30270
Lansing, MI 48909
TEL: (517) 335-8184
FAX: (517) 335-8562

Sample Number
LB76878

Official Laboratory Report

Report To: TODD AMSTUTZ
710 EAST CHICAGO BLVD
TECUMSEH MI 49286

System Name/Owner:	CITY OF TECUMSEH/ COMMONWEAL	WSSN/Pool ID:	6560
Collection Address:	S WELL FIELD/ 703 E CHICAGO BLV,T	Source:	TYPE I
Collected By:	TODD AMSTUTZ	Site Code:	D925
Township/Well#/Section:	//	Collector:	Public Water Supply Operator
County:	Lenawee	Date Collected:	09/10/2007 08:30
Sample Point:	KITCHEN	Date Received:	09/11/2007 10:57
Water System:	Public System Well	Purpose:	Routine Monitoring

Analyte Name	Result (mg/L)	Date Tested	RL (mg/L)	MCL/AL (mg/L)	Method	CAS #
Dalapon and Haloacetic						
ɔmoacetic acid	Not Detected	09/14/2007	0.004		EPA 552.1	79-08-3
Bromochloroacetic acid	Not Detected	09/14/2007	0.001		EPA 552.1	5589-96-8
Chloroacetic acid	Not Detected	09/14/2007	0.004		EPA 552.1	79-11-8
Dalapon	Not Detected	09/14/2007	0.001	0.2	EPA 552.1	75-99-0
Dibromoacetic acid	Not Detected	09/14/2007	0.002		EPA 552.1	631-64-1
Dichloroacetic acid	Not Detected	09/14/2007	0.002		EPA 552.1	79-43-6
Total Haloacetic Acids (five)	Not Detected	09/14/2007	0.01	0.060	EPA 552.1	THA-00-C
Trichloroacetic acid	Not Detected	09/14/2007	0.002		EPA 552.1	76-03-9
Total Trihalomethanes						
Bromodichloromethane	TRACE	09/14/2007	0.0005	0.080	EPA 524.2	75-27-4
Bromoform	Not Detected	09/14/2007	0.0005	0.080	EPA 524.2	75-25-2
Chlorodibromomethane	TRACE	09/14/2007	0.0005	0.080	EPA 524.2	124-48-1
Chloroform	Not Detected	09/14/2007	0.0005	0.080	EPA 524.2	67-66-3
Total Trihalomethanes	TRACE	09/14/2007	0.0005	0.080	EPA 524.2	TTHM-00-C

Compounds reported as TRACE were detected at levels above the detection limits, but at levels too low to quantitate.

CAS# : Chemical Abstract Service Registry Number
MCL : Maximum Contaminent Level
AL : Action Level
RL : Reporting Limit

mg/L : milligrams / Liter (ppm)
ppm : parts per million
MPN : Most Probable Number
CFU : Colony Forming Unit

Laboratory Contacts
Drinking Water Unit Mgr: Julia Pieper
Systems Mgmt. Unit Mgr: George Krisztian

Appendix G
Laboratory Data – Private Wells

April 17, 2009

RMT, Inc. - Ann Arbor Office
Attn: John Bacon
3754 Ranchero Drive
Ann Arbor, MI 48108-2771

Project: Tecumseh Products

Dear John Bacon,

Enclosed is a copy of the laboratory report, comprised of the following work order(s), for test samples received by TriMatrix Laboratories:

Work Order	Received	Description
0904234	04/14/2009	Laboratory Services

This report relates only to the sample(s), as received. Test results are in compliance with the requirements of the National Environmental Laboratory Accreditation Conference (NELAC). Any qualifications of results, including sample acceptance requirements, are explained in the Statement of Data Qualifications.

Estimates of analytical uncertainties for the test results contained within this report are available upon request.

If you have any questions or require further information, please do not hesitate to contact me.

Sincerely,

Jennifer L. Rice
Project Chemist

Enclosures(s)

5560 Corporate Exchange Court SE • Grand Rapids, MI 49512 • (616) 975-4500 • Fax (616) 942-7463

ANALYTICAL REPORT

Client:	**RMT, Inc. - Ann Arbor Office**	Work Order:	**0904234**
Project:	Tecumseh Products	Description:	Laboratory Services
Client Sample ID:	**610 Mohawk**	Sampled:	04/13/09 12:28
Lab Sample ID:	**0904234-01**	Sampled By:	J. Bacon
Matrix:	Water	Received:	04/14/09 09:00
Unit:	ug/L	Prepared:	04/14/09 By: DCG
Dilution Factor:	1	Analyzed:	04/14/09 By: DMC
QC Batch:	0904070	Analytical Batch:	9041531

Semivolatile Organic Compounds by EPA Method 8270C

CAS Number	Analyte	Analytical Result	RL	Action Limit
*123-91-1	1,4-Dioxane	<3.0	3.0	

Surrogates:	*% Recovery*	*Control Limits*
Nitrobenzene-d5	69	*31-123*
2-Fluorobiphenyl	71	*25-113*
o-Terphenyl	74	*42-125*

*See Statement of Data Qualifications

5560 Corporate Exchange Court SE • Grand Rapids, MI 49512 • (616) 975-4500 • Fax (616) 942-7463

ANALYTICAL REPORT

Client:	**RMT, Inc. - Ann Arbor Office**	Work Order:	**0904234**
Project:	Tecumseh Products	Description:	Laboratory Services
Client Sample ID:	**610 Mohawk**	Sampled:	04/13/09 12:28
Lab Sample ID:	**0904234-01**	Sampled By:	J. Bacon
Matrix:	Water	Received:	04/14/09 09:00
Unit:	mg/L	Prepared:	04/14/09 By: JDM
Dilution Factor:	1	Analyzed:	04/14/09 By: JDM
QC Batch:	0904129	Analytical Batch:	9041527

Volatile Organic Compounds in Drinking Water by EPA Method 524.2

CAS Number	Analyte	Analytical Result	RL	Action Limit
71-43-2	Benzene	<0.0010	0.0010	0.005
108-86-1	Bromobenzene	<0.0010	0.0010	
75-27-4	Bromodichloromethane	<0.0010	0.0010	0.08
75-25-2	Bromoform	<0.0010	0.0010	0.08
74-83-9	Bromomethane	<0.0010	0.0010	
56-23-5	Carbon Tetrachloride	<0.0010	0.0010	0.005
108-90-7	Chlorobenzene	<0.0010	0.0010	0.1
75-00-3	Chloroethane	<0.0010	0.0010	
67-66-3	Chloroform	<0.0010	0.0010	0.08
74-87-3	Chloromethane	<0.0010	0.0010	
95-49-8	2-Chlorotoluene	<0.0010	0.0010	
106-43-4	4-Chlorotoluene	<0.0010	0.0010	
124-48-1	Dibromochloromethane	<0.0010	0.0010	0.08
74-95-3	Dibromomethane	<0.0010	0.0010	
95-50-1	1,2-Dichlorobenzene	<0.0010	0.0010	0.6
541-73-1	1,3-Dichlorobenzene	<0.0010	0.0010	
106-46-7	1,4-Dichlorobenzene	<0.0010	0.0010	0.075
75-71-8	Dichlorodifluoromethane	<0.0010	0.0010	
75-34-3	1,1-Dichloroethane	**0.0050**	0.0010	
107-06-2	1,2-Dichloroethane	<0.0010	0.0010	0.005
75-35-4	1,1-Dichloroethene	**0.0023**	0.0010	0.007
156-59-2	cis-1,2-Dichloroethene	**0.015**	0.0010	0.07
156-60-5	trans-1,2-Dichloroethene	**0.0020**	0.0010	0.1
78-87-5	1,2-Dichloropropane	<0.0010	0.0010	0.005
142-28-9	1,3-Dichloropropane	<0.0010	0.0010	
594-20-7	2,2-Dichloropropane	<0.0010	0.0010	
563-58-6	1,1-Dichloropropene	<0.0010	0.0010	
10061-01-5	cis-1,3-Dichloropropene	<0.0010	0.0010	
10061-02-6	trans-1,3-Dichloropropene	<0.0010	0.0010	

Continued on next page

ANALYTICAL REPORT

Client:	**RMT, Inc. - Ann Arbor Office**	Work Order:	**0904234**
Project:	Tecumseh Products	Description:	Laboratory Services
Client Sample ID:	**610 Mohawk**	Sampled:	04/13/09 12:28
Lab Sample ID:	**0904234-01**	Sampled By:	J. Bacon
Matrix:	Water	Received:	04/14/09 09:00
Unit:	mg/L	Prepared:	04/14/09 By: JDM
Dilution Factor:	1	Analyzed:	04/14/09 By: JDM
QC Batch:	0904129	Analytical Batch:	9041527

Volatile Organic Compounds in Drinking Water by EPA Method 524.2 (Continued)

CAS Number	Analyte	Analytical Result	RL	Action Limit
100-41-4	Ethylbenzene	<0.0010	0.0010	0.7
*75-09-2	Methylene Chloride	<0.0050	0.0050	0.005
100-42-5	Styrene	<0.0010	0.0010	0.1
630-20-6	1,1,1,2-Tetrachloroethane	<0.0010	0.0010	
79-34-5	1,1,2,2-Tetrachloroethane	<0.0010	0.0010	
127-18-4	Tetrachloroethene	<0.0010	0.0010	0.005
108-88-3	Toluene	<0.0010	0.0010	1
120-82-1	1,2,4-Trichlorobenzene	<0.0010	0.0010	0.07
71-55-6	1,1,1-Trichloroethane	**0.059**	0.0010	0.2
79-00-5	1,1,2-Trichloroethane	<0.0010	0.0010	0.005
*79-01-6	Trichloroethene	**1.7**	0.0010	0.005
75-69-4	Trichlorofluoromethane	<0.0010	0.0010	
96-18-4	1,2,3-Trichloropropane	<0.0010	0.0010	
75-01-4	Vinyl Chloride	**0.0090**	0.0010	0.002
1330-20-7	Xylene (Total)	<0.0030	0.0030	10

Surrogates:	*% Recovery*	*Control Limits*
Dibromofluoromethane	107	*82-118*
1,2-Dichloroethane-d4	107	*75-128*
Toluene-d8	99	*88-108*
4-Bromofluorobenzene	98	*82-114*

*See Statement of Data Qualifications

ANALYTICAL REPORT

Client:	**RMT, Inc. - Ann Arbor Office**	Work Order:	**0904234**
Project:	Tecumseh Products	Description:	Laboratory Services
Client Sample ID:	**610 Mohawk**	Sampled:	04/13/09 12:28
Lab Sample ID:	**0904234-01RE1**	Sampled By:	J. Bacon
Matrix:	Water	Received:	04/14/09 09:00
Unit:	mg/L	Prepared:	04/16/09 By: JDM
Dilution Factor:	20	Analyzed:	04/16/09 By: JDM
QC Batch:	0904129	Analytical Batch:	9041718

Volatile Organic Compounds in Drinking Water by EPA Method 524.2

CAS Number	Analyte	Analytical Result	RL	Action Limit
71-43-2	Benzene	<0.020	0.020	0.005
108-86-1	Bromobenzene	<0.020	0.020	
75-27-4	Bromodichloromethane	<0.020	0.020	0.08
75-25-2	Bromoform	<0.020	0.020	0.08
74-83-9	Bromomethane	<0.020	0.020	
56-23-5	Carbon Tetrachloride	<0.020	0.020	0.005
108-90-7	Chlorobenzene	<0.020	0.020	0.1
75-00-3	Chloroethane	<0.020	0.020	
67-66-3	Chloroform	<0.020	0.020	0.08
74-87-3	Chloromethane	<0.020	0.020	
95-49-8	2-Chlorotoluene	<0.020	0.020	
106-43-4	4-Chlorotoluene	<0.020	0.020	
124-48-1	Dibromochloromethane	<0.020	0.020	0.08
74-95-3	Dibromomethane	<0.020	0.020	
95-50-1	1,2-Dichlorobenzene	<0.020	0.020	0.6
541-73-1	1,3-Dichlorobenzene	<0.020	0.020	
106-46-7	1,4-Dichlorobenzene	<0.020	0.020	0.075
75-71-8	Dichlorodifluoromethane	<0.020	0.020	
75-34-3	1,1-Dichloroethane	<0.020	0.020	
107-06-2	1,2-Dichloroethane	<0.020	0.020	0.005
75-35-4	1,1-Dichloroethene	<0.020	0.020	0.007
156-59-2	cis-1,2-Dichloroethene	**0.020**	0.020	0.07
156-60-5	trans-1,2-Dichloroethene	<0.020	0.020	0.1
78-87-5	1,2-Dichloropropane	<0.020	0.020	0.005
142-28-9	1,3-Dichloropropane	<0.020	0.020	
594-20-7	2,2-Dichloropropane	<0.020	0.020	
563-58-6	1,1-Dichloropropene	<0.020	0.020	
10061-01-5	cis-1,3-Dichloropropene	<0.020	0.020	
10061-02-6	trans-1,3-Dichloropropene	<0.020	0.020	
100-41-4	Ethylbenzene	<0.020	0.020	0.7
75-09-2	Methylene Chloride	<0.10	0.10	0.005

Continued on next page

ANALYTICAL REPORT

Client:	**RMT, Inc. - Ann Arbor Office**	Work Order:	**0904234**
Project:	Tecumseh Products	Description:	Laboratory Services
Client Sample ID:	**610 Mohawk**	Sampled:	04/13/09 12:28
Lab Sample ID:	**0904234-01RE1**	Sampled By:	J. Bacon
Matrix:	Water	Received:	04/14/09 09:00
Unit:	mg/L	Prepared:	04/16/09 By: JDM
Dilution Factor:	20	Analyzed:	04/16/09 By: JDM
QC Batch:	0904129	Analytical Batch:	9041718

Volatile Organic Compounds in Drinking Water by EPA Method 524.2 (Continued)

CAS Number	Analyte	Analytical Result	RL	Action Limit
100-42-5	Styrene	<0.020	0.020	0.1
630-20-6	1,1,1,2-Tetrachloroethane	<0.020	0.020	
79-34-5	1,1,2,2-Tetrachloroethane	<0.020	0.020	
127-18-4	Tetrachloroethene	<0.020	0.020	0.005
108-88-3	Toluene	<0.020	0.020	1
120-82-1	1,2,4-Trichlorobenzene	<0.020	0.020	0.07
71-55-6	1,1,1-Trichloroethane	**0.050**	0.020	0.2
79-00-5	1,1,2-Trichloroethane	<0.020	0.020	0.005
79-01-6	Trichloroethene	**1.2**	0.020	0.005
75-69-4	Trichlorofluoromethane	<0.020	0.020	
96-18-4	1,2,3-Trichloropropane	<0.020	0.020	
75-01-4	Vinyl Chloride	<0.020	0.020	0.002
1330-20-7	Xylene (Total)	<0.060	0.060	10

Surrogates:	***% Recovery***	***Control Limits***
Dibromofluoromethane	98	*82-118*
1,2-Dichloroethane-d4	99	*75-128*
Toluene-d8	100	*88-108*
4-Bromofluorobenzene	100	*82-114*

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ANALYTICAL REPORT

Client:	**RMT, Inc. - Ann Arbor Office**	Work Order:	**0904234**
Project:	Tecumseh Products	Description:	Laboratory Services
Client Sample ID:	**615 Mohawk**	Sampled:	04/13/09 11:55
Lab Sample ID:	**0904234-02**	Sampled By:	J. Bacon
Matrix:	Water	Received:	04/14/09 09:00
Unit:	ug/L	Prepared:	04/14/09 By: DCG
Dilution Factor:	1	Analyzed:	04/14/09 By: DMC
QC Batch:	0904070	Analytical Batch:	9041531

Semivolatile Organic Compounds by EPA Method 8270C

CAS Number	Analyte	Analytical Result	RL	Action Limit
*123-91-1	1,4-Dioxane	<3.0	3.0	

Surrogates:	*% Recovery*	*Control Limits*
Nitrobenzene-d5	72	*31-123*
2-Fluorobiphenyl	71	*25-113*
o-Terphenyl	74	*42-125*

*See Statement of Data Qualifications

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ANALYTICAL REPORT

Client:	**RMT, Inc. - Ann Arbor Office**	Work Order:	**0904234**
Project:	Tecumseh Products	Description:	Laboratory Services
Client Sample ID:	**615 Mohawk**	Sampled:	04/13/09 11:55
Lab Sample ID:	**0904234-02**	Sampled By:	J. Bacon
Matrix:	Water	Received:	04/14/09 09:00
Unit:	mg/L	Prepared:	04/14/09 By: JDM
Dilution Factor:	1	Analyzed:	04/14/09 By: JDM
QC Batch:	0904129	Analytical Batch:	9041527

Volatile Organic Compounds in Drinking Water by EPA Method 524.2

CAS Number	Analyte	Analytical Result	RL	Action Limit
71-43-2	Benzene	<0.0010	0.0010	0.005
108-86-1	Bromobenzene	<0.0010	0.0010	
75-27-4	Bromodichloromethane	<0.0010	0.0010	0.08
75-25-2	Bromoform	<0.0010	0.0010	0.08
74-83-9	Bromomethane	<0.0010	0.0010	
56-23-5	Carbon Tetrachloride	<0.0010	0.0010	0.005
108-90-7	Chlorobenzene	<0.0010	0.0010	0.1
75-00-3	Chloroethane	<0.0010	0.0010	
67-66-3	Chloroform	<0.0010	0.0010	0.08
74-87-3	Chloromethane	<0.0010	0.0010	
95-49-8	2-Chlorotoluene	<0.0010	0.0010	
106-43-4	4-Chlorotoluene	<0.0010	0.0010	
124-48-1	Dibromochloromethane	<0.0010	0.0010	0.08
74-95-3	Dibromomethane	<0.0010	0.0010	
95-50-1	1,2-Dichlorobenzene	<0.0010	0.0010	0.6
541-73-1	1,3-Dichlorobenzene	<0.0010	0.0010	
106-46-7	1,4-Dichlorobenzene	<0.0010	0.0010	0.075
75-71-8	Dichlorodifluoromethane	<0.0010	0.0010	
75-34-3	1,1-Dichloroethane	<0.0010	0.0010	
107-06-2	1,2-Dichloroethane	<0.0010	0.0010	0.005
75-35-4	1,1-Dichloroethene	<0.0010	0.0010	0.007
156-59-2	cis-1,2-Dichloroethene	<0.0010	0.0010	0.07
156-60-5	trans-1,2-Dichloroethene	<0.0010	0.0010	0.1
78-87-5	1,2-Dichloropropane	<0.0010	0.0010	0.005
142-28-9	1,3-Dichloropropane	<0.0010	0.0010	
594-20-7	2,2-Dichloropropane	<0.0010	0.0010	
563-58-6	1,1-Dichloropropene	<0.0010	0.0010	
10061-01-5	cis-1,3-Dichloropropene	<0.0010	0.0010	
10061-02-6	trans-1,3-Dichloropropene	<0.0010	0.0010	

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ANALYTICAL REPORT

Client:	**RMT, Inc. - Ann Arbor Office**	Work Order:	**0904234**
Project:	Tecumseh Products	Description:	Laboratory Services
Client Sample ID:	**615 Mohawk**	Sampled:	04/13/09 11:55
Lab Sample ID:	**0904234-02**	Sampled By:	J. Bacon
Matrix:	Water	Received:	04/14/09 09:00
Unit:	mg/L	Prepared:	04/14/09 By: JDM
Dilution Factor:	1	Analyzed:	04/14/09 By: JDM
QC Batch:	0904129	Analytical Batch:	9041527

Volatile Organic Compounds in Drinking Water by EPA Method 524.2 (Continued)

CAS Number	Analyte	Analytical Result	RL	Action Limit
100-41-4	Ethylbenzene	<0.0010	0.0010	0.7
*75-09-2	Methylene Chloride	<0.0050	0.0050	0.005
100-42-5	Styrene	<0.0010	0.0010	0.1
630-20-6	1,1,1,2-Tetrachloroethane	<0.0010	0.0010	
79-34-5	1,1,2,2-Tetrachloroethane	<0.0010	0.0010	
127-18-4	Tetrachloroethene	<0.0010	0.0010	0.005
108-88-3	Toluene	<0.0010	0.0010	1
120-82-1	1,2,4-Trichlorobenzene	<0.0010	0.0010	0.07
71-55-6	1,1,1-Trichloroethane	<0.0010	0.0010	0.2
79-00-5	1,1,2-Trichloroethane	<0.0010	0.0010	0.005
79-01-6	Trichloroethene	<0.0010	0.0010	0.005
75-69-4	Trichlorofluoromethane	<0.0010	0.0010	
96-18-4	1,2,3-Trichloropropane	<0.0010	0.0010	
75-01-4	Vinyl Chloride	<0.0010	0.0010	0.002
1330-20-7	Xylene (Total)	<0.0030	0.0030	10

Surrogates:	*% Recovery*	*Control Limits*
Dibromofluoromethane	102	*82-118*
1,2-Dichloroethane-d4	109	*75-128*
Toluene-d8	103	*88-108*
4-Bromofluorobenzene	97	*82-114*

*See Statement of Data Qualifications

ANALYTICAL REPORT

Client:	**RMT, Inc. - Ann Arbor Office**	Work Order:	**0904234**
Project:	Tecumseh Products	Description:	Laboratory Services
Client Sample ID:	**611 Mohawk**	Sampled:	04/13/09 11:37
Lab Sample ID:	**0904234-03**	Sampled By:	J. Bacon
Matrix:	Water	Received:	04/14/09 09:00
Unit:	ug/L	Prepared:	04/14/09 By: DCG
Dilution Factor:	1	Analyzed:	04/14/09 By: DMC
QC Batch:	0904070	Analytical Batch:	9041531

Semivolatile Organic Compounds by EPA Method 8270C

CAS Number	Analyte	Analytical Result	RL	Action Limit
*123-91-1	1,4-Dioxane	<3.0	3.0	

Surrogates:	*% Recovery*	*Control Limits*
Nitrobenzene-d5	69	*31-123*
2-Fluorobiphenyl	68	*25-113*
o-Terphenyl	71	*42-125*

*See Statement of Data Qualifications

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ANALYTICAL REPORT

Client:	**RMT, Inc. - Ann Arbor Office**	Work Order:	**0904234**
Project:	Tecumseh Products	Description:	Laboratory Services
Client Sample ID:	**611 Mohawk**	Sampled:	04/13/09 11:37
Lab Sample ID:	**0904234-03**	Sampled By:	J. Bacon
Matrix:	Water	Received:	04/14/09 09:00
Unit:	mg/L	Prepared:	04/14/09 By: JDM
Dilution Factor:	1	Analyzed:	04/14/09 By: JDM
QC Batch:	0904129	Analytical Batch:	9041527

Volatile Organic Compounds in Drinking Water by EPA Method 524.2

CAS Number	Analyte	Analytical Result	RL	Action Limit
71-43-2	Benzene	<0.0010	0.0010	0.005
108-86-1	Bromobenzene	<0.0010	0.0010	
75-27-4	Bromodichloromethane	<0.0010	0.0010	0.08
75-25-2	Bromoform	<0.0010	0.0010	0.08
74-83-9	Bromomethane	<0.0010	0.0010	
56-23-5	Carbon Tetrachloride	<0.0010	0.0010	0.005
108-90-7	Chlorobenzene	<0.0010	0.0010	0.1
75-00-3	Chloroethane	<0.0010	0.0010	
67-66-3	Chloroform	<0.0010	0.0010	0.08
74-87-3	Chloromethane	<0.0010	0.0010	
95-49-8	2-Chlorotoluene	<0.0010	0.0010	
106-43-4	4-Chlorotoluene	<0.0010	0.0010	
124-48-1	Dibromochloromethane	<0.0010	0.0010	0.08
74-95-3	Dibromomethane	<0.0010	0.0010	
95-50-1	1,2-Dichlorobenzene	<0.0010	0.0010	0.6
541-73-1	1,3-Dichlorobenzene	<0.0010	0.0010	
106-46-7	1,4-Dichlorobenzene	<0.0010	0.0010	0.075
75-71-8	Dichlorodifluoromethane	<0.0010	0.0010	
75-34-3	1,1-Dichloroethane	<0.0010	0.0010	
107-06-2	1,2-Dichloroethane	<0.0010	0.0010	0.005
75-35-4	1,1-Dichloroethene	<0.0010	0.0010	0.007
156-59-2	cis-1,2-Dichloroethene	<0.0010	0.0010	0.07
156-60-5	trans-1,2-Dichloroethene	<0.0010	0.0010	0.1
78-87-5	1,2-Dichloropropane	<0.0010	0.0010	0.005
142-28-9	1,3-Dichloropropane	<0.0010	0.0010	
594-20-7	2,2-Dichloropropane	<0.0010	0.0010	
563-58-6	1,1-Dichloropropene	<0.0010	0.0010	
10061-01-5	cis-1,3-Dichloropropene	<0.0010	0.0010	
10061-02-6	trans-1,3-Dichloropropene	<0.0010	0.0010	

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ANALYTICAL REPORT

Client:	**RMT, Inc. - Ann Arbor Office**	Work Order:	**0904234**
Project:	Tecumseh Products	Description:	Laboratory Services
Client Sample ID:	**611 Mohawk**	Sampled:	04/13/09 11:37
Lab Sample ID:	**0904234-03**	Sampled By:	J. Bacon
Matrix:	Water	Received:	04/14/09 09:00
Unit:	mg/L	Prepared:	04/14/09 By: JDM
Dilution Factor:	1	Analyzed:	04/14/09 By: JDM
QC Batch:	0904129	Analytical Batch:	9041527

Volatile Organic Compounds in Drinking Water by EPA Method 524.2 (Continued)

CAS Number	Analyte	Analytical Result	RL	Action Limit
100-41-4	Ethylbenzene	<0.0010	0.0010	0.7
*75-09-2	Methylene Chloride	<0.0050	0.0050	0.005
100-42-5	Styrene	<0.0010	0.0010	0.1
630-20-6	1,1,1,2-Tetrachloroethane	<0.0010	0.0010	
79-34-5	1,1,2,2-Tetrachloroethane	<0.0010	0.0010	
127-18-4	Tetrachloroethene	<0.0010	0.0010	0.005
108-88-3	Toluene	<0.0010	0.0010	1
120-82-1	1,2,4-Trichlorobenzene	<0.0010	0.0010	0.07
71-55-6	1,1,1-Trichloroethane	<0.0010	0.0010	0.2
79-00-5	1,1,2-Trichloroethane	<0.0010	0.0010	0.005
79-01-6	Trichloroethene	<0.0010	0.0010	0.005
75-69-4	Trichlorofluoromethane	<0.0010	0.0010	
96-18-4	1,2,3-Trichloropropane	<0.0010	0.0010	
75-01-4	Vinyl Chloride	<0.0010	0.0010	0.002
1330-20-7	Xylene (Total)	<0.0030	0.0030	10

Surrogates:	*% Recovery*	*Control Limits*
Dibromofluoromethane	103	*82-118*
1,2-Dichloroethane-d4	109	*75-128*
Toluene-d8	104	*88-108*
4-Bromofluorobenzene	98	*82-114*

*See Statement of Data Qualifications

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QUALITY CONTROL REPORT

Semivolatile Organic Compounds by EPA Method 8270C

Analyte	Sample Conc.	Spike Qty.	Result	Spike % Rec.	Control Limits	RPD	RPD Limits	RL
QC Batch: 0904070 3510C Liquid-Liquid Extraction/USEPA-8270C								
Method Blank					Analyzed:	04/14/2009	By: DMC	
Unit: ug/L					Analytical Batch:	9041531		
1,4-Dioxane			<3.0					3.0
Surrogates:								
Nitrobenzene-d5				*76*	*31-123*			
2-Fluorobiphenyl				*78*	*25-113*			
o-Terphenyl				*80*	*42-125*			
Laboratory Control Sample					Analyzed:	04/14/2009	By: DMC	
Unit: ug/L					Analytical Batch:	9041531		
1,4-Dioxane		10.0	**3.46**	35	21-100			3.0
Surrogates:								
Nitrobenzene-d5				*75*	*31-123*			
2-Fluorobiphenyl				*71*	*25-113*			
o-Terphenyl				*76*	*42-125*			
Laboratory Control Sample Duplicate					Analyzed:	04/14/2009	By: DMC	
Unit: ug/L					Analytical Batch:	9041531		
1,4-Dioxane		10.0	**4.40**	44	21-100	**24**	20	3.0
Surrogates:								
Nitrobenzene-d5				*71*	*31-123*			
2-Fluorobiphenyl				*73*	*25-113*			
o-Terphenyl				*73*	*42-125*			

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QUALITY CONTROL REPORT

Volatile Organic Compounds in Drinking Water by EPA Method 524.2

Analyte	Sample Conc.	Spike Qty.	Result	Spike % Rec.	Control Limits	RPD	RPD Limits	RL

QC Batch: 0904129 5030B Aqueous Purge & Trap/USEPA-524.2

Method Blank Analyzed: 04/14/2009 By: JDM

Unit: mg/L Analytical Batch: 9041527

Benzene			<0.0010					0.0010
Bromobenzene			<0.0010					0.0010
Bromodichloromethane			<0.0010					0.0010
Bromoform			<0.0010					0.0010
Bromomethane			<0.0010					0.0010
Carbon Tetrachloride			<0.0010					0.0010
Chlorobenzene			<0.0010					0.0010
Chloroethane			<0.0010					0.0010
Chloroform			<0.0010					0.0010
Chloromethane			<0.0010					0.0010
2-Chlorotoluene			<0.0010					0.0010
4-Chlorotoluene			<0.0010					0.0010
Dibromochloromethane			<0.0010					0.0010
Dibromomethane			<0.0010					0.0010
1,2-Dichlorobenzene			<0.0010					0.0010
1,3-Dichlorobenzene			<0.0010					0.0010
1,4-Dichlorobenzene			<0.0010					0.0010
Dichlorodifluoromethane			<0.0010					0.0010
1,1-Dichloroethane			<0.0010					0.0010
1,2-Dichloroethane			<0.0010					0.0010
1,1-Dichloroethene			<0.0010					0.0010
cis-1,2-Dichloroethene			<0.0010					0.0010
trans-1,2-Dichloroethene			<0.0010					0.0010
1,2-Dichloropropane			<0.0010					0.0010
1,3-Dichloropropane			<0.0010					0.0010
2,2-Dichloropropane			<0.0010					0.0010
1,1-Dichloropropene			<0.0010					0.0010
cis-1,3-Dichloropropene			<0.0010					0.0010
trans-1,3-Dichloropropene			<0.0010					0.0010
Ethylbenzene			<0.0010					0.0010
Methylene Chloride			<0.0050					0.0050
Styrene			<0.0010					0.0010
1,1,1,2-Tetrachloroethane			<0.0010					0.0010
1,1,2,2-Tetrachloroethane			<0.0010					0.0010
Tetrachloroethene			<0.0010					0.0010
Toluene			<0.0010					0.0010

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QUALITY CONTROL REPORT

Volatile Organic Compounds in Drinking Water by EPA Method 524.2 (Continued)

Analyte	Sample Conc.	Spike Qty.	Result	Spike % Rec.	Control Limits	RPD	RPD Limits	RL

QC Batch: 0904129 (Continued) 5030B Aqueous Purge & Trap/USEPA-524.2

Method Blank (Continued) Analyzed: 04/14/2009 By: JDM
Unit: mg/L Analytical Batch: 9041527

1,2,4-Trichlorobenzene		<0.0010			0.0010
1,1,1-Trichloroethane		<0.0010			0.0010
1,1,2-Trichloroethane		<0.0010			0.0010
Trichloroethene		<0.0010			0.0010
Trichlorofluoromethane		<0.0010			0.0010
1,2,3-Trichloropropane		<0.0010			0.0010
Vinyl Chloride		<0.0010			0.0010
Xylene (Total)		<0.0030			0.0030

Method Blank Analyzed: 04/14/2009 By: JDM
Unit: ug/L Analytical Batch: 9041527

Surrogates:			
Dibromofluoromethane		*102*	*82-118*
1,2-Dichloroethane-d4		*108*	*75-128*
Toluene-d8		*104*	*88-108*
4-Bromofluorobenzene		*98*	*82-114*

Method Blank Analyzed: 04/16/2009 By: JDM
Unit: mg/L Analytical Batch: 9041718

Benzene		<0.0010			0.0010
Bromobenzene		<0.0010			0.0010
Bromodichloromethane		<0.0010			0.0010
Bromoform		<0.0010			0.0010
Bromomethane		<0.0010			0.0010
Carbon Tetrachloride		<0.0010			0.0010
Chlorobenzene		<0.0010			0.0010
Chloroethane		<0.0010			0.0010
Chloroform		<0.0010			0.0010
Chloromethane		<0.0010			0.0010
2-Chlorotoluene		<0.0010			0.0010
4-Chlorotoluene		<0.0010			0.0010
Dibromochloromethane		<0.0010			0.0010
Dibromomethane		<0.0010			0.0010
1,2-Dichlorobenzene		<0.0010			0.0010
1,3-Dichlorobenzene		<0.0010			0.0010
1,4-Dichlorobenzene		<0.0010			0.0010
Dichlorodifluoromethane		<0.0010			0.0010

Continued on next page

QUALITY CONTROL REPORT

Volatile Organic Compounds in Drinking Water by EPA Method 524.2 (Continued)

Analyte	Sample Conc.	Spike Qty.	Result	Spike % Rec.	Control Limits	RPD	RPD Limits	RL

QC Batch: 0904129 (Continued) 5030B Aqueous Purge & Trap/USEPA-524.2

Method Blank (Continued) Analyzed: 04/16/2009 By: JDM
Unit: mg/L Analytical Batch: 9041718

1,1-Dichloroethane		<0.0010				0.0010
1,2-Dichloroethane		<0.0010				0.0010
1,1-Dichloroethene		<0.0010				0.0010
cis-1,2-Dichloroethene		<0.0010				0.0010
trans-1,2-Dichloroethene		<0.0010				0.0010
1,2-Dichloropropane		<0.0010				0.0010
1,3-Dichloropropane		<0.0010				0.0010
2,2-Dichloropropane		<0.0010				0.0010
1,1-Dichloropropene		<0.0010				0.0010
cis-1,3-Dichloropropene		<0.0010				0.0010
trans-1,3-Dichloropropene		<0.0010				0.0010
Ethylbenzene		<0.0010				0.0010
Methylene Chloride		<0.0050				0.0050
Styrene		<0.0010				0.0010
1,1,1,2-Tetrachloroethane		<0.0010				0.0010
1,1,2,2-Tetrachloroethane		<0.0010				0.0010
Tetrachloroethene		<0.0010				0.0010
Toluene		<0.0010				0.0010
1,2,4-Trichlorobenzene		<0.0010				0.0010
1,1,1-Trichloroethane		<0.0010				0.0010
1,1,2-Trichloroethane		<0.0010				0.0010
Trichloroethene		<0.0010				0.0010
Trichlorofluoromethane		<0.0010				0.0010
1,2,3-Trichloropropane		<0.0010				0.0010
Vinyl Chloride		<0.0010				0.0010
Xylene (Total)		<0.0030				0.0030

Method Blank Analyzed: 04/16/2009 By: JDM
Unit: ug/L Analytical Batch: 9041718

Surrogates:						
Dibromofluoromethane				*98*	*82-118*	
1,2-Dichloroethane-d4				*99*	*75-128*	
Toluene-d8				*100*	*88-108*	
4-Bromofluorobenzene				*100*	*82-114*	

Laboratory Control Sample Analyzed: 04/14/2009 By: JDM
Unit: mg/L Analytical Batch: 9041527

Benzene	0.0100	**0.00938**	94	70-130		0.0010

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QUALITY CONTROL REPORT

Volatile Organic Compounds in Drinking Water by EPA Method 524.2 (Continued)

QC Batch: 0904129 (Continued) 5030B Aqueous Purge & Trap/USEPA-524.2

Laboratory Control Sample (Continued) Analyzed: 04/14/2009 By: JDM

Unit: mg/L Analytical Batch: 9041527

Analyte	Sample Conc.	Spike Qty.	Result	Spike % Rec.	Control Limits	RPD	RPD Limits	RL
Bromobenzene		0.0100	**0.00855**	86	70-130			0.0010
Bromodichloromethane		0.0100	**0.0101**	101	70-130			0.0010
Bromoform		0.0100	**0.00952**	95	70-130			0.0010
Bromomethane		0.0100	**0.0100**	100	70-130			0.0010
Carbon Tetrachloride		0.0100	**0.00994**	99	70-130			0.0010
Chlorobenzene		0.0100	**0.00931**	93	70-130			0.0010
Chloroethane		0.0100	**0.0124**	124	70-130			0.0010
Chloroform		0.0100	**0.00993**	99	70-130			0.0010
Chloromethane		0.0100	**0.0115**	115	70-130			0.0010
2-Chlorotoluene		0.0100	**0.00842**	84	70-130			0.0010
4-Chlorotoluene		0.0100	**0.00868**	87	70-130			0.0010
Dibromochloromethane		0.0100	**0.00953**	95	70-130			0.0010
Dibromomethane		0.0100	**0.00991**	99	70-130			0.0010
1,2-Dichlorobenzene		0.0100	**0.00816**	82	70-130			0.0010
1,3-Dichlorobenzene		0.0100	**0.00830**	83	70-130			0.0010
1,4-Dichlorobenzene		0.0100	**0.00836**	84	70-130			0.0010
Dichlorodifluoromethane		0.0100	**0.0103**	103	70-130			0.0010
1,1-Dichloroethane		0.0100	**0.00983**	98	70-130			0.0010
1,2-Dichloroethane		0.0100	**0.0106**	106	70-130			0.0010
1,1-Dichloroethene		0.0100	**0.0116**	116	70-130			0.0010
cis-1,2-Dichloroethene		0.0100	**0.00864**	86	70-130			0.0010
trans-1,2-Dichloroethene		0.0100	**0.0116**	116	70-130			0.0010
1,2-Dichloropropane		0.0100	**0.00922**	92	70-130			0.0010
1,3-Dichloropropane		0.0100	**0.00936**	94	70-130			0.0010
2,2-Dichloropropane		0.0100	**0.00877**	88	70-130			0.0010
1,1-Dichloropropene		0.0100	**0.00899**	90	70-130			0.0010
cis-1,3-Dichloropropene		0.0100	**0.00795**	80	70-130			0.0010
trans-1,3-Dichloropropene		0.0100	**0.00835**	84	70-130			0.0010
Ethylbenzene		0.0100	**0.00928**	93	70-130			0.0010
Methylene Chloride		0.0100	**0.0133**	**133**	70-130			0.0050
Styrene		0.0100	**0.00962**	96	70-130			0.0010
1,1,1,2-Tetrachloroethane		0.0100	**0.00951**	95	70-130			0.0010
1,1,2,2-Tetrachloroethane		0.0100	**0.00974**	97	70-130			0.0010
Tetrachloroethene		0.0100	**0.00859**	86	70-130			0.0010
Toluene		0.0100	**0.00922**	92	70-130			0.0010
1,2,4-Trichlorobenzene		0.0100	**0.00726**	73	70-130			0.0010

Continued on next page

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QUALITY CONTROL REPORT

Volatile Organic Compounds in Drinking Water by EPA Method 524.2 (Continued)

Analyte	Sample Conc.	Spike Qty.	Result	Spike % Rec.	Control Limits	RPD	RPD Limits	RL

QC Batch: 0904129 (Continued) 5030B Aqueous Purge & Trap/USEPA-524.2

Laboratory Control Sample (Continued) Analyzed: 04/14/2009 By: JDM
Unit: mg/L Analytical Batch: 9041527

1,1,1-Trichloroethane	0.0100	**0.00957**	96	70-130		0.0010
1,1,2-Trichloroethane	0.0100	**0.00957**	96	70-130		0.0010
Trichloroethene	0.0100	**0.00892**	89	70-130		0.0010
Trichlorofluoromethane	0.0100	**0.0126**	126	70-130		0.0010
1,2,3-Trichloropropane	0.0100	**0.00888**	89	70-130		0.0010
Vinyl Chloride	0.0100	**0.0118**	118	70-130		0.0010
Xylene (Total)	0.0300	**0.0270**	90	70-130		0.0030

Laboratory Control Sample Analyzed: 04/14/2009 By: JDM
Unit: ug/L Analytical Batch: 9041527

Surrogates:						
Dibromofluoromethane			*102*	*82-118*		
1,2-Dichloroethane-d4			*105*	*75-128*		
Toluene-d8			*102*	*88-108*		
4-Bromofluorobenzene			*105*	*82-114*		

Laboratory Control Sample Analyzed: 04/16/2009 By: JDM
Unit: mg/L Analytical Batch: 9041718

Benzene	0.0100	**0.00999**	100	70-130		0.0010
Bromobenzene	0.0100	**0.0102**	102	70-130		0.0010
Bromodichloromethane	0.0100	**0.0102**	102	70-130		0.0010
Bromoform	0.0100	**0.00984**	98	70-130		0.0010
Bromomethane	0.0100	**0.00867**	87	70-130		0.0010
Carbon Tetrachloride	0.0100	**0.00987**	99	70-130		0.0010
Chlorobenzene	0.0100	**0.00994**	99	70-130		0.0010
Chloroethane	0.0100	**0.00948**	95	70-130		0.0010
Chloroform	0.0100	**0.00999**	100	70-130		0.0010
Chloromethane	0.0100	**0.0101**	101	70-130		0.0010
2-Chlorotoluene	0.0100	**0.0102**	102	70-130		0.0010
4-Chlorotoluene	0.0100	**0.0104**	104	70-130		0.0010
Dibromochloromethane	0.0100	**0.00960**	96	70-130		0.0010
Dibromomethane	0.0100	**0.0102**	102	70-130		0.0010
1,2-Dichlorobenzene	0.0100	**0.0104**	104	70-130		0.0010
1,3-Dichlorobenzene	0.0100	**0.0104**	104	70-130		0.0010
1,4-Dichlorobenzene	0.0100	**0.0101**	101	70-130		0.0010
Dichlorodifluoromethane	0.0100	**0.00970**	97	70-130		0.0010
1,1-Dichloroethane	0.0100	**0.00965**	97	70-130		0.0010

Continued on next page

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QUALITY CONTROL REPORT

Volatile Organic Compounds in Drinking Water by EPA Method 524.2 (Continued)

Analyte	Sample Conc.	Spike Qty.	Result	Spike % Rec.	Control Limits	RPD	RPD Limits	RL
QC Batch: 0904129 (Continued) 5030B Aqueous Purge & Trap/USEPA-524.2								
Laboratory Control Sample (Continued)					Analyzed:	04/16/2009	By: JDM	
Unit: mg/L					Analytical Batch:	9041718		
1,2-Dichloroethane		0.0100	**0.0102**	102	70-130			0.0010
1,1-Dichloroethene		0.0100	**0.00984**	98	70-130			0.0010
cis-1,2-Dichloroethene		0.0100	**0.00993**	99	70-130			0.0010
trans-1,2-Dichloroethene		0.0100	**0.00967**	97	70-130			0.0010
1,2-Dichloropropane		0.0100	**0.0103**	103	70-130			0.0010
1,3-Dichloropropane		0.0100	**0.0103**	103	70-130			0.0010
2,2-Dichloropropane		0.0100	**0.00939**	94	70-130			0.0010
1,1-Dichloropropene		0.0100	**0.00996**	100	70-130			0.0010
cis-1,3-Dichloropropene		0.0100	**0.0103**	103	70-130			0.0010
trans-1,3-Dichloropropene		0.0100	**0.0101**	101	70-130			0.0010
Ethylbenzene		0.0100	**0.0101**	101	70-130			0.0010
Methylene Chloride		0.0100	**0.00952**	95	70-130			0.0050
Styrene		0.0100	**0.0106**	106	70-130			0.0010
1,1,1,2-Tetrachloroethane		0.0100	**0.0103**	103	70-130			0.0010
1,1,2,2-Tetrachloroethane		0.0100	**0.0105**	105	70-130			0.0010
Tetrachloroethene		0.0100	**0.0100**	100	70-130			0.0010
Toluene		0.0100	**0.00994**	99	70-130			0.0010
1,2,4-Trichlorobenzene		0.0100	**0.0105**	105	70-130			0.0010
1,1,1-Trichloroethane		0.0100	**0.00965**	97	70-130			0.0010
1,1,2-Trichloroethane		0.0100	**0.0103**	103	70-130			0.0010
Trichloroethene		0.0100	**0.00995**	100	70-130			0.0010
Trichlorofluoromethane		0.0100	**0.00996**	100	70-130			0.0010
1,2,3-Trichloropropane		0.0100	**0.0108**	108	70-130			0.0010
Vinyl Chloride		0.0100	**0.0100**	100	70-130			0.0010
Xylene (Total)		0.0300	**0.0306**	102	70-130			0.0030
Laboratory Control Sample					Analyzed:	04/16/2009	By: JDM	
Unit: ug/L					Analytical Batch:	9041718		
Surrogates:								
Dibromofluoromethane				*101*	*82-118*			
1,2-Dichloroethane-d4				*101*	*75-128*			
Toluene-d8				*101*	*88-108*			
4-Bromofluorobenzene				*99*	*82-114*			
Duplicate 0904234-01 610 Mohawk					Analyzed:	04/14/2009	By: JDM	
Unit: mg/L					Analytical Batch:	9041527		
Benzene	<0.0010		<0.0010			20		0.0010

Continued on next page

QUALITY CONTROL REPORT

Volatile Organic Compounds in Drinking Water by EPA Method 524.2 (Continued)

QC Batch: 0904129 (Continued) 5030B Aqueous Purge & Trap/USEPA-524.2

Duplicate (Continued) 0904234-01 610 Mohawk — Analyzed: 04/14/2009 By: JDM

Unit: mg/L — Analytical Batch: 9041527

Analyte	Sample Conc.	Spike Qty.	Result	Spike % Rec.	Control Limits	RPD	RPD Limits	RL
Bromobenzene	<0.0010		<0.0010				20	0.0010
Bromodichloromethane	<0.0010		<0.0010				20	0.0010
Bromoform	<0.0010		<0.0010				20	0.0010
Bromomethane	<0.0010		<0.0010				20	0.0010
Carbon Tetrachloride	<0.0010		<0.0010				20	0.0010
Chlorobenzene	<0.0010		<0.0010				20	0.0010
Chloroethane	<0.0010		<0.0010				20	0.0010
Chloroform	0.000960		**0.000920**			4	20	0.0010
Chloromethane	<0.0010		<0.0010				20	0.0010
2-Chlorotoluene	<0.0010		<0.0010				20	0.0010
4-Chlorotoluene	<0.0010		<0.0010				20	0.0010
Dibromochloromethane	<0.0010		<0.0010				20	0.0010
Dibromomethane	<0.0010		<0.0010				20	0.0010
1,2-Dichlorobenzene	<0.0010		<0.0010				20	0.0010
1,3-Dichlorobenzene	<0.0010		<0.0010				20	0.0010
1,4-Dichlorobenzene	<0.0010		<0.0010				20	0.0010
Dichlorodifluoromethane	<0.0010		<0.0010				20	0.0010
1,1-Dichloroethane	0.00502		**0.00661**			**27**	20	0.0010
1,2-Dichloroethane	<0.0010		<0.0010				20	0.0010
1,1-Dichloroethene	0.00233		**0.00238**			2	20	0.0010
cis-1,2-Dichloroethene	0.0146		**0.0154**			6	20	0.0010
trans-1,2-Dichloroethene	0.00202		**0.00213**			5	20	0.0010
1,2-Dichloropropane	<0.0010		<0.0010				20	0.0010
1,3-Dichloropropane	<0.0010		<0.0010				20	0.0010
2,2-Dichloropropane	<0.0010		<0.0010				20	0.0010
1,1-Dichloropropene	<0.0010		<0.0010				20	0.0010
cis-1,3-Dichloropropene	<0.0010		<0.0010				20	0.0010
trans-1,3-Dichloropropene	<0.0010		<0.0010				20	0.0010
Ethylbenzene	<0.0010		<0.0010				20	0.0010
Methylene Chloride	<0.0050		<0.0050				20	0.0050
Styrene	<0.0010		<0.0010				20	0.0010
1,1,1,2-Tetrachloroethane	<0.0010		<0.0010				20	0.0010
1,1,2,2-Tetrachloroethane	<0.0010		<0.0010				20	0.0010
Tetrachloroethene	<0.0010		<0.0010				20	0.0010
Toluene	<0.0010		<0.0010				20	0.0010
1,2,4-Trichlorobenzene	<0.0010		<0.0010				20	0.0010

Continued on next page

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QUALITY CONTROL REPORT

Volatile Organic Compounds in Drinking Water by EPA Method 524.2 (Continued)

Analyte	Sample Conc.	Spike Qty.	Result	Spike % Rec.	Control Limits	RPD	RPD Limits	RL
QC Batch: 0904129 (Continued) 5030B Aqueous Purge & Trap/USEPA-524.2								
Duplicate (Continued) 0904234-01 610 Mohawk					Analyzed:	04/14/2009	By: JDM	
Unit: mg/L					Analytical Batch:	9041527		
1,1,1-Trichloroethane	0.0587		**0.0557**			5	20	0.0010
1,1,2-Trichloroethane	<0.0010		<0.0010				20	0.0010
*Trichloroethene	1.69		**1.67**			1	20	0.0010
Trichlorofluoromethane	0.000630		**0.000580**			8	20	0.0010
1,2,3-Trichloropropane	<0.0010		<0.0010				20	0.0010
Vinyl Chloride	0.00902		**0.00871**			3	20	0.0010
Xylene (Total)	<0.0030		<0.0030				20	0.0030
Duplicate 0904234-01 610 Mohawk					Analyzed:	04/14/2009	By: JDM	
Unit: ug/L					Analytical Batch:	9041527		
Surrogates:								
Dibromofluoromethane				*109*	*82-118*			
1,2-Dichloroethane-d4				*109*	*75-128*			
Toluene-d8				*100*	*88-108*			
4-Bromofluorobenzene				*99*	*82-114*			

*See Statement of Data Qualifications

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STATEMENT OF DATA QUALIFICATIONS

Semivolatile Organic Compounds by EPA Method 8270C

Qualification: The LCS/LCSD RPD exceeded the control limit. A positive result for this analyte in any sample from the associated QC batch is considered estimated. Non-detectable results are not qualified.

Analysis: USEPA-8270C

Sample/Analyte:		
0904234-01	610 Mohawk	1,4-Dioxane
0904234-02	615 Mohawk	1,4-Dioxane
0904234-03	611 Mohawk	1,4-Dioxane

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STATEMENT OF DATA QUALIFICATIONS

Volatile Organic Compounds in Drinking Water by EPA Method 524.2

Qualification: The LCS and/or LCSD recovery exceeded the upper control limit. A positive result for this analyte in any sample from the associated QC batch is considered estimated. Non-detectable results are not qualified.

Analysis: USEPA-524.2

Sample/Analyte:	0904234-01 610 Mohawk	Methylene Chloride
	0904234-02 615 Mohawk	Methylene Chloride
	0904234-03 611 Mohawk	Methylene Chloride

Qualification: The analyte concentration in the sample exceeded the calibrated range of the instrument. The sample result is considered estimated.

Analysis: USEPA-524.2

	0904129-DUP1	Trichloroethene
Sample/Analyte:	0904234-01 610 Mohawk	Trichloroethene

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TriMatrix Laboratories, Inc.
5560 Corporate Exchange Court SE Grand Rapids, MI 49512
Phone (616) 975-4500 Fax (616) 942-7463
www.trimatrixlabs.com

Chain of Custody Record

COC No. 129018

Page 1 of 1

For Lab Use Only

Cart: 4
VOA Rack/Tray: 644 G
Receipt Log No.: 17.12
Project Chemist:
Laboratory Project No.: 0904234

Client Name: RMT, Inc
Address: 3754 Ranchero Dr
Ann Arbor MI 48108
Phone: 734 971 7080 x 7154
Fax: 971 9022

Project Name: TR - TECUMSEH
Client Project No./P.O. No.: 8070.02
Invoice No.: ☒ Client ☐ Other (comments)
Contact/Report To: J. BACON

Analyses Requested

Container Type (corresponds to Container Packing List): 1 = VOC's 1,4 Dioxane; 2 = 1 L Amber

PRESERVATIVES
A NONE pH~7
B HNO_3 pH<2
C H_2SO_4 pH<2
D 1+1 HCl pH<2
E NaOH pH>12
F ZnAc/NaOH pH>9
G MeOH
H Other (note below)

Test Group	Matrix Code	Laboratory Sample Number		Sample ID	Cooler ID	Sample Date	Sample Time	COMP	GRAB	Matrix	Number of Containers Submitted: 1	2	Total	Sample Comments
624		01	1	610 Mohawk	TM1463	4/13/09	12:28P			W	3	2		3 40ml Vials 2 1L Amber
		02	2	615 Mohawk	"	"	11:55A			W	3	2		"
		03	3	611 Mohawk	"	"	1:37			W	3	2		"
			4											
			5											
			6											
			7											
			8											
			9											
			10											

Sampled By (print): JOHN BACON
Sampler's Signature:
Company: RMT, Inc

How Shipped? Hand Carrier UPS
Tracking No.

Comments

1. Relinquished By	Date	Time	2. Relinquished By	Date	Time	3. Relinquished By	Date	Time
	4/13/09	4:40 PM						
1. Received By	**Date**	**Time**	**2. Received By**	**Date**	**Time**	**3. Received For Lab By**	**Date**	**Time**
						Wm Cole	4-14-09	0900

April 17, 2009

RMT, Inc. - Ann Arbor Office
Attn: John Bacon
3754 Ranchero Drive
Ann Arbor, MI 48108-2771

Project: Tecumseh Products

Dear John Bacon,

Enclosed is a copy of the laboratory report, comprised of the following work order(s), for test samples received by TriMatrix Laboratories:

Work Order	Received	Description
0904303	04/16/2009	Laboratory Services

This report relates only to the sample(s), as received. Test results are in compliance with the requirements of the National Environmental Laboratory Accreditation Conference (NELAC). Any qualifications of results, including sample acceptance requirements, are explained in the Statement of Data Qualifications.

Estimates of analytical uncertainties for the test results contained within this report are available upon request.

If you have any questions or require further information, please do not hesitate to contact me.

Sincerely,

Jennifer L. Rice
Project Chemist

Enclosures(s)

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ANALYTICAL REPORT

Client:	**RMT, Inc. - Ann Arbor Office**	Work Order:	**0904303**
Project:	Tecumseh Products	Description:	Laboratory Services
Client Sample ID:	**607 Mohawk**	Sampled:	04/15/09 08:58
Lab Sample ID:	**0904303-01**	Sampled By:	J. Bacon
Matrix:	Water	Received:	04/16/09 09:30
Unit:	ug/L	Prepared:	04/16/09 By: BJH
Dilution Factor:	1	Analyzed:	04/16/09 By: DMC
QC Batch:	0904070	Analytical Batch:	9041735

Semivolatile Organic Compounds by EPA Method 8270C

CAS Number	Analyte	Analytical Result	RL	Action Limit
123-91-1	1,4-Dioxane	<3.0	3.0	

Surrogates:	*% Recovery*	*Control Limits*
Nitrobenzene-d5	71	*31-123*
2-Fluorobiphenyl	83	*25-113*
o-Terphenyl	90	*42-125*

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ANALYTICAL REPORT

Client:	**RMT, Inc. - Ann Arbor Office**	Work Order:	**0904303**
Project:	Tecumseh Products	Description:	Laboratory Services
Client Sample ID:	**607 Mohawk**	Sampled:	04/15/09 08:58
Lab Sample ID:	**0904303-01**	Sampled By:	J. Bacon
Matrix:	Water	Received:	04/16/09 09:30
Unit:	mg/L	Prepared:	04/16/09 By: JDM
Dilution Factor:	1	Analyzed:	04/16/09 By: JDM
QC Batch:	0904129	Analytical Batch:	9041718

Volatile Organic Compounds in Drinking Water by EPA Method 524.2

CAS Number	Analyte	Analytical Result	RL	Action Limit
71-43-2	Benzene	<0.0010	0.0010	0.005
108-86-1	Bromobenzene	<0.0010	0.0010	
75-27-4	Bromodichloromethane	<0.0010	0.0010	0.08
75-25-2	Bromoform	<0.0010	0.0010	0.08
74-83-9	Bromomethane	<0.0010	0.0010	
56-23-5	Carbon Tetrachloride	<0.0010	0.0010	0.005
108-90-7	Chlorobenzene	<0.0010	0.0010	0.1
75-00-3	Chloroethane	<0.0010	0.0010	
67-66-3	Chloroform	<0.0010	0.0010	0.08
74-87-3	Chloromethane	<0.0010	0.0010	
95-49-8	2-Chlorotoluene	<0.0010	0.0010	
106-43-4	4-Chlorotoluene	<0.0010	0.0010	
124-48-1	Dibromochloromethane	<0.0010	0.0010	0.08
74-95-3	Dibromomethane	<0.0010	0.0010	
95-50-1	1,2-Dichlorobenzene	<0.0010	0.0010	0.6
541-73-1	1,3-Dichlorobenzene	<0.0010	0.0010	
106-46-7	1,4-Dichlorobenzene	<0.0010	0.0010	0.075
75-71-8	Dichlorodifluoromethane	<0.0010	0.0010	
75-34-3	1,1-Dichloroethane	<0.0010	0.0010	
107-06-2	1,2-Dichloroethane	<0.0010	0.0010	0.005
75-35-4	1,1-Dichloroethene	<0.0010	0.0010	0.007
156-59-2	cis-1,2-Dichloroethene	<0.0010	0.0010	0.07
156-60-5	trans-1,2-Dichloroethene	<0.0010	0.0010	0.1
78-87-5	1,2-Dichloropropane	<0.0010	0.0010	0.005
142-28-9	1,3-Dichloropropane	<0.0010	0.0010	
594-20-7	2,2-Dichloropropane	<0.0010	0.0010	
563-58-6	1,1-Dichloropropene	<0.0010	0.0010	
10061-01-5	cis-1,3-Dichloropropene	<0.0010	0.0010	
10061-02-6	trans-1,3-Dichloropropene	<0.0010	0.0010	

Continued on next page

ANALYTICAL REPORT

Client:	**RMT, Inc. - Ann Arbor Office**	Work Order:	**0904303**
Project:	Tecumseh Products	Description:	Laboratory Services
Client Sample ID:	**607 Mohawk**	Sampled:	04/15/09 08:58
Lab Sample ID:	**0904303-01**	Sampled By:	J. Bacon
Matrix:	Water	Received:	04/16/09 09:30
Unit:	mg/L	Prepared:	04/16/09 By: JDM
Dilution Factor:	1	Analyzed:	04/16/09 By: JDM
QC Batch:	0904129	Analytical Batch:	9041718

Volatile Organic Compounds in Drinking Water by EPA Method 524.2 (Continued)

CAS Number	Analyte	Analytical Result	RL	Action Limit
100-41-4	Ethylbenzene	<0.0010	0.0010	0.7
75-09-2	Methylene Chloride	<0.0050	0.0050	0.005
100-42-5	Styrene	<0.0010	0.0010	0.1
630-20-6	1,1,1,2-Tetrachloroethane	<0.0010	0.0010	
79-34-5	1,1,2,2-Tetrachloroethane	<0.0010	0.0010	
127-18-4	Tetrachloroethene	<0.0010	0.0010	0.005
108-88-3	Toluene	<0.0010	0.0010	1
120-82-1	1,2,4-Trichlorobenzene	<0.0010	0.0010	0.07
71-55-6	1,1,1-Trichloroethane	<0.0010	0.0010	0.2
79-00-5	1,1,2-Trichloroethane	<0.0010	0.0010	0.005
79-01-6	Trichloroethene	<0.0010	0.0010	0.005
75-69-4	Trichlorofluoromethane	<0.0010	0.0010	
96-18-4	1,2,3-Trichloropropane	<0.0010	0.0010	
75-01-4	Vinyl Chloride	<0.0010	0.0010	0.002
1330-20-7	Xylene (Total)	<0.0030	0.0030	10

Surrogates:	***% Recovery***	***Control Limits***
Dibromofluoromethane	98	*82-118*
1,2-Dichloroethane-d4	100	*75-128*
Toluene-d8	100	*88-108*
4-Bromofluorobenzene	100	*82-114*

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ANALYTICAL REPORT

Client:	**RMT, Inc. - Ann Arbor Office**	Work Order:	**0904303**
Project:	Tecumseh Products	Description:	Laboratory Services
Client Sample ID:	**3719 Mill Hwy**	Sampled:	04/15/09 14:11
Lab Sample ID:	**0904303-02**	Sampled By:	J. Bacon
Matrix:	Water	Received:	04/16/09 09:30
Unit:	ug/L	Prepared:	04/16/09 By: BJH
Dilution Factor:	1	Analyzed:	04/16/09 By: DMC
QC Batch:	0904070	Analytical Batch:	9041735

Semivolatile Organic Compounds by EPA Method 8270C

CAS Number	Analyte	Analytical Result	RL	Action Limit
123-91-1	1,4-Dioxane	<3.0	3.0	

Surrogates:	*% Recovery*	*Control Limits*
Nitrobenzene-d5	76	*31-123*
2-Fluorobiphenyl	87	*25-113*
o-Terphenyl	89	*42-125*

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ANALYTICAL REPORT

Client:	**RMT, Inc. - Ann Arbor Office**	Work Order:	**0904303**
Project:	Tecumseh Products	Description:	Laboratory Services
Client Sample ID:	**3719 Mill Hwy**	Sampled:	04/15/09 14:11
Lab Sample ID:	**0904303-02**	Sampled By:	J. Bacon
Matrix:	Water	Received:	04/16/09 09:30
Unit:	mg/L	Prepared:	04/16/09 By: JDM
Dilution Factor:	1	Analyzed:	04/16/09 By: JDM
QC Batch:	0904129	Analytical Batch:	9041718

Volatile Organic Compounds in Drinking Water by EPA Method 524.2

CAS Number	Analyte	Analytical Result	RL	Action Limit
71-43-2	Benzene	<0.0010	0.0010	0.005
108-86-1	Bromobenzene	<0.0010	0.0010	
75-27-4	Bromodichloromethane	<0.0010	0.0010	0.08
75-25-2	Bromoform	<0.0010	0.0010	0.08
74-83-9	Bromomethane	<0.0010	0.0010	
56-23-5	Carbon Tetrachloride	<0.0010	0.0010	0.005
108-90-7	Chlorobenzene	<0.0010	0.0010	0.1
75-00-3	Chloroethane	<0.0010	0.0010	
67-66-3	Chloroform	<0.0010	0.0010	0.08
74-87-3	Chloromethane	<0.0010	0.0010	
95-49-8	2-Chlorotoluene	<0.0010	0.0010	
106-43-4	4-Chlorotoluene	<0.0010	0.0010	
124-48-1	Dibromochloromethane	<0.0010	0.0010	0.08
74-95-3	Dibromomethane	<0.0010	0.0010	
95-50-1	1,2-Dichlorobenzene	<0.0010	0.0010	0.6
541-73-1	1,3-Dichlorobenzene	<0.0010	0.0010	
106-46-7	1,4-Dichlorobenzene	<0.0010	0.0010	0.075
75-71-8	Dichlorodifluoromethane	<0.0010	0.0010	
75-34-3	1,1-Dichloroethane	<0.0010	0.0010	
107-06-2	1,2-Dichloroethane	<0.0010	0.0010	0.005
75-35-4	1,1-Dichloroethene	<0.0010	0.0010	0.007
156-59-2	cis-1,2-Dichloroethene	<0.0010	0.0010	0.07
156-60-5	trans-1,2-Dichloroethene	<0.0010	0.0010	0.1
78-87-5	1,2-Dichloropropane	<0.0010	0.0010	0.005
142-28-9	1,3-Dichloropropane	<0.0010	0.0010	
594-20-7	2,2-Dichloropropane	<0.0010	0.0010	
563-58-6	1,1-Dichloropropene	<0.0010	0.0010	
10061-01-5	cis-1,3-Dichloropropene	<0.0010	0.0010	
10061-02-6	trans-1,3-Dichloropropene	<0.0010	0.0010	

Continued on next page

ANALYTICAL REPORT

Client:	**RMT, Inc. - Ann Arbor Office**	Work Order:	**0904303**
Project:	Tecumseh Products	Description:	Laboratory Services
Client Sample ID:	**3719 Mill Hwy**	Sampled:	04/15/09 14:11
Lab Sample ID:	**0904303-02**	Sampled By:	J. Bacon
Matrix:	Water	Received:	04/16/09 09:30
Unit:	mg/L	Prepared:	04/16/09 By: JDM
Dilution Factor:	1	Analyzed:	04/16/09 By: JDM
QC Batch:	0904129	Analytical Batch:	9041718

Volatile Organic Compounds in Drinking Water by EPA Method 524.2 (Continued)

CAS Number	Analyte	Analytical Result	RL	Action Limit
100-41-4	Ethylbenzene	<0.0010	0.0010	0.7
75-09-2	Methylene Chloride	<0.0050	0.0050	0.005
100-42-5	Styrene	<0.0010	0.0010	0.1
630-20-6	1,1,1,2-Tetrachloroethane	<0.0010	0.0010	
79-34-5	1,1,2,2-Tetrachloroethane	<0.0010	0.0010	
127-18-4	Tetrachloroethene	<0.0010	0.0010	0.005
108-88-3	Toluene	<0.0010	0.0010	1
120-82-1	1,2,4-Trichlorobenzene	<0.0010	0.0010	0.07
71-55-6	1,1,1-Trichloroethane	<0.0010	0.0010	0.2
79-00-5	1,1,2-Trichloroethane	<0.0010	0.0010	0.005
79-01-6	Trichloroethene	<0.0010	0.0010	0.005
75-69-4	Trichlorofluoromethane	<0.0010	0.0010	
96-18-4	1,2,3-Trichloropropane	<0.0010	0.0010	
75-01-4	Vinyl Chloride	<0.0010	0.0010	0.002
1330-20-7	Xylene (Total)	<0.0030	0.0030	10

Surrogates:	*% Recovery*	*Control Limits*
Dibromofluoromethane	98	*82-118*
1,2-Dichloroethane-d4	101	*75-128*
Toluene-d8	100	*88-108*
4-Bromofluorobenzene	99	*82-114*

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ANALYTICAL REPORT

Client:	**RMT, Inc. - Ann Arbor Office**	Work Order:	**0904303**
Project:	Tecumseh Products	Description:	Laboratory Services
Client Sample ID:	**Trip Blank**	Sampled:	04/15/09 00:00
Lab Sample ID:	**0904303-03**	Sampled By:	J. Bacon
Matrix:	Water	Received:	04/16/09 09:30
Unit:	mg/L	Prepared:	04/16/09 By: JDM
Dilution Factor:	1	Analyzed:	04/16/09 By: JDM
QC Batch:	0904129	Analytical Batch:	9041718

Volatile Organic Compounds in Drinking Water by EPA Method 524.2

CAS Number	Analyte	Analytical Result	RL	Action Limit
71-43-2	Benzene	<0.0010	0.0010	0.005
108-86-1	Bromobenzene	<0.0010	0.0010	
75-27-4	Bromodichloromethane	<0.0010	0.0010	0.08
75-25-2	Bromoform	<0.0010	0.0010	0.08
74-83-9	Bromomethane	<0.0010	0.0010	
56-23-5	Carbon Tetrachloride	<0.0010	0.0010	0.005
108-90-7	Chlorobenzene	<0.0010	0.0010	0.1
75-00-3	Chloroethane	<0.0010	0.0010	
67-66-3	Chloroform	<0.0010	0.0010	0.08
74-87-3	Chloromethane	<0.0010	0.0010	
95-49-8	2-Chlorotoluene	<0.0010	0.0010	
106-43-4	4-Chlorotoluene	<0.0010	0.0010	
124-48-1	Dibromochloromethane	<0.0010	0.0010	0.08
74-95-3	Dibromomethane	<0.0010	0.0010	
95-50-1	1,2-Dichlorobenzene	<0.0010	0.0010	0.6
541-73-1	1,3-Dichlorobenzene	<0.0010	0.0010	
106-46-7	1,4-Dichlorobenzene	<0.0010	0.0010	0.075
75-71-8	Dichlorodifluoromethane	<0.0010	0.0010	
75-34-3	1,1-Dichloroethane	<0.0010	0.0010	
107-06-2	1,2-Dichloroethane	<0.0010	0.0010	0.005
75-35-4	1,1-Dichloroethene	<0.0010	0.0010	0.007
156-59-2	cis-1,2-Dichloroethene	<0.0010	0.0010	0.07
156-60-5	trans-1,2-Dichloroethene	<0.0010	0.0010	0.1
78-87-5	1,2-Dichloropropane	<0.0010	0.0010	0.005
142-28-9	1,3-Dichloropropane	<0.0010	0.0010	
594-20-7	2,2-Dichloropropane	<0.0010	0.0010	
563-58-6	1,1-Dichloropropene	<0.0010	0.0010	
10061-01-5	cis-1,3-Dichloropropene	<0.0010	0.0010	
10061-02-6	trans-1,3-Dichloropropene	<0.0010	0.0010	
100-41-4	Ethylbenzene	<0.0010	0.0010	0.7
75-09-2	Methylene Chloride	<0.0050	0.0050	0.005

Continued on next page

ANALYTICAL REPORT

Client:	**RMT, Inc. - Ann Arbor Office**	Work Order:	**0904303**
Project:	Tecumseh Products	Description:	Laboratory Services
Client Sample ID:	**Trip Blank**	Sampled:	04/15/09 00:00
Lab Sample ID:	**0904303-03**	Sampled By:	J. Bacon
Matrix:	Water	Received:	04/16/09 09:30
Unit:	mg/L	Prepared:	04/16/09 By: JDM
Dilution Factor:	1	Analyzed:	04/16/09 By: JDM
QC Batch:	0904129	Analytical Batch:	9041718

Volatile Organic Compounds in Drinking Water by EPA Method 524.2 (Continued)

CAS Number	Analyte	Analytical Result	RL	Action Limit
100-42-5	Styrene	<0.0010	0.0010	0.1
630-20-6	1,1,1,2-Tetrachloroethane	<0.0010	0.0010	
79-34-5	1,1,2,2-Tetrachloroethane	<0.0010	0.0010	
127-18-4	Tetrachloroethene	<0.0010	0.0010	0.005
108-88-3	Toluene	<0.0010	0.0010	1
120-82-1	1,2,4-Trichlorobenzene	<0.0010	0.0010	0.07
71-55-6	1,1,1-Trichloroethane	<0.0010	0.0010	0.2
79-00-5	1,1,2-Trichloroethane	<0.0010	0.0010	0.005
79-01-6	Trichloroethene	<0.0010	0.0010	0.005
75-69-4	Trichlorofluoromethane	<0.0010	0.0010	
96-18-4	1,2,3-Trichloropropane	<0.0010	0.0010	
75-01-4	Vinyl Chloride	<0.0010	0.0010	0.002
1330-20-7	Xylene (Total)	<0.0030	0.0030	10

Surrogates:	***% Recovery***	***Control Limits***
Dibromofluoromethane	98	*82-118*
1,2-Dichloroethane-d4	101	*75-128*
Toluene-d8	100	*88-108*
4-Bromofluorobenzene	100	*82-114*

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QUALITY CONTROL REPORT

Semivolatile Organic Compounds by EPA Method 8270C

Analyte	Sample Conc.	Spike Qty.	Result	Spike % Rec.	Control Limits	RPD	RPD Limits	RL
QC Batch: 0904070 3510C Liquid-Liquid Extraction/USEPA-8270C								
Method Blank					Analyzed:	04/16/2009	By: DMC	
Unit: ug/L					Analytical Batch:	9041735		
1,4-Dioxane			<3.0					3.0
Surrogates:								
Nitrobenzene-d5				*71*	*31-123*			
2-Fluorobiphenyl				*79*	*25-113*			
o-Terphenyl				*79*	*42-125*			
Laboratory Control Sample					Analyzed:	04/16/2009	By: DMC	
Unit: ug/L					Analytical Batch:	9041735		
1,4-Dioxane		10.0	**4.03**	40	21-100			3.0
Surrogates:								
Nitrobenzene-d5				*71*	*31-123*			
2-Fluorobiphenyl				*86*	*25-113*			
o-Terphenyl				*84*	*42-125*			

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QUALITY CONTROL REPORT

Volatile Organic Compounds in Drinking Water by EPA Method 524.2

QC Batch: 0904129 5030B Aqueous Purge & Trap/USEPA-524.2

Method Blank Analyzed: 04/16/2009 By: JDM

Unit: mg/L Analytical Batch: 9041718

Analyte	Sample Conc.	Spike Qty.	Result	Spike % Rec.	Control Limits	RPD	RPD Limits	RL
Benzene			<0.0010					0.0010
Bromobenzene			<0.0010					0.0010
Bromodichloromethane			<0.0010					0.0010
Bromoform			<0.0010					0.0010
Bromomethane			<0.0010					0.0010
Carbon Tetrachloride			<0.0010					0.0010
Chlorobenzene			<0.0010					0.0010
Chloroethane			<0.0010					0.0010
Chloroform			<0.0010					0.0010
Chloromethane			<0.0010					0.0010
2-Chlorotoluene			<0.0010					0.0010
4-Chlorotoluene			<0.0010					0.0010
Dibromochloromethane			<0.0010					0.0010
Dibromomethane			<0.0010					0.0010
1,2-Dichlorobenzene			<0.0010					0.0010
1,3-Dichlorobenzene			<0.0010					0.0010
1,4-Dichlorobenzene			<0.0010					0.0010
Dichlorodifluoromethane			<0.0010					0.0010
1,1-Dichloroethane			<0.0010					0.0010
1,2-Dichloroethane			<0.0010					0.0010
1,1-Dichloroethene			<0.0010					0.0010
cis-1,2-Dichloroethene			<0.0010					0.0010
trans-1,2-Dichloroethene			<0.0010					0.0010
1,2-Dichloropropane			<0.0010					0.0010
1,3-Dichloropropane			<0.0010					0.0010
2,2-Dichloropropane			<0.0010					0.0010
1,1-Dichloropropene			<0.0010					0.0010
cis-1,3-Dichloropropene			<0.0010					0.0010
trans-1,3-Dichloropropene			<0.0010					0.0010
Ethylbenzene			<0.0010					0.0010
Methylene Chloride			<0.0050					0.0050
Styrene			<0.0010					0.0010
1,1,1,2-Tetrachloroethane			<0.0010					0.0010
1,1,2,2-Tetrachloroethane			<0.0010					0.0010
Tetrachloroethene			<0.0010					0.0010
Toluene			<0.0010					0.0010

Continued on next page

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QUALITY CONTROL REPORT

Volatile Organic Compounds in Drinking Water by EPA Method 524.2 (Continued)

Analyte	Sample Conc.	Spike Qty.	Result	Spike % Rec.	Control Limits	RPD	RPD Limits	RL

QC Batch: 0904129 (Continued) 5030B Aqueous Purge & Trap/USEPA-524.2

Method Blank (Continued) Analyzed: 04/16/2009 By: JDM
Unit: mg/L Analytical Batch: 9041718

1,2,4-Trichlorobenzene		<0.0010				0.0010
1,1,1-Trichloroethane		<0.0010				0.0010
1,1,2-Trichloroethane		<0.0010				0.0010
Trichloroethene		<0.0010				0.0010
Trichlorofluoromethane		<0.0010				0.0010
1,2,3-Trichloropropane		<0.0010				0.0010
Vinyl Chloride		<0.0010				0.0010
Xylene (Total)		<0.0030				0.0030

Method Blank Analyzed: 04/16/2009 By: JDM
Unit: ug/L Analytical Batch: 9041718

Surrogates:						
Dibromofluoromethane			*98*	*82-118*		
1,2-Dichloroethane-d4			*99*	*75-128*		
Toluene-d8			*100*	*88-108*		
4-Bromofluorobenzene			*100*	*82-114*		

Laboratory Control Sample Analyzed: 04/16/2009 By: JDM
Unit: mg/L Analytical Batch: 9041718

Benzene	0.0100	**0.00999**	100	70-130		0.0010
Bromobenzene	0.0100	**0.0102**	102	70-130		0.0010
Bromodichloromethane	0.0100	**0.0102**	102	70-130		0.0010
Bromoform	0.0100	**0.00984**	98	70-130		0.0010
Bromomethane	0.0100	**0.00867**	87	70-130		0.0010
Carbon Tetrachloride	0.0100	**0.00987**	99	70-130		0.0010
Chlorobenzene	0.0100	**0.00994**	99	70-130		0.0010
Chloroethane	0.0100	**0.00948**	95	70-130		0.0010
Chloroform	0.0100	**0.00999**	100	70-130		0.0010
Chloromethane	0.0100	**0.0101**	101	70-130		0.0010
2-Chlorotoluene	0.0100	**0.0102**	102	70-130		0.0010
4-Chlorotoluene	0.0100	**0.0104**	104	70-130		0.0010
Dibromochloromethane	0.0100	**0.00960**	96	70-130		0.0010
Dibromomethane	0.0100	**0.0102**	102	70-130		0.0010
1,2-Dichlorobenzene	0.0100	**0.0104**	104	70-130		0.0010
1,3-Dichlorobenzene	0.0100	**0.0104**	104	70-130		0.0010
1,4-Dichlorobenzene	0.0100	**0.0101**	101	70-130		0.0010
Dichlorodifluoromethane	0.0100	**0.00970**	97	70-130		0.0010

Continued on next page

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QUALITY CONTROL REPORT

Volatile Organic Compounds in Drinking Water by EPA Method 524.2 (Continued)

QC Batch: 0904129 (Continued) 5030B Aqueous Purge & Trap/USEPA-524.2

Laboratory Control Sample (Continued) Analyzed: 04/16/2009 By: JDM
Unit: mg/L Analytical Batch: 9041718

Analyte	Sample Conc.	Spike Qty.	Result	Spike % Rec.	Control Limits	RPD	RPD Limits	RL
1,1-Dichloroethane		0.0100	**0.00965**	97	70-130			0.0010
1,2-Dichloroethane		0.0100	**0.0102**	102	70-130			0.0010
1,1-Dichloroethene		0.0100	**0.00984**	98	70-130			0.0010
cis-1,2-Dichloroethene		0.0100	**0.00993**	99	70-130			0.0010
trans-1,2-Dichloroethene		0.0100	**0.00967**	97	70-130			0.0010
1,2-Dichloropropane		0.0100	**0.0103**	103	70-130			0.0010
1,3-Dichloropropane		0.0100	**0.0103**	103	70-130			0.0010
2,2-Dichloropropane		0.0100	**0.00939**	94	70-130			0.0010
1,1-Dichloropropene		0.0100	**0.00996**	100	70-130			0.0010
cis-1,3-Dichloropropene		0.0100	**0.0103**	103	70-130			0.0010
trans-1,3-Dichloropropene		0.0100	**0.0101**	101	70-130			0.0010
Ethylbenzene		0.0100	**0.0101**	101	70-130			0.0010
Methylene Chloride		0.0100	**0.00952**	95	70-130			0.0050
Styrene		0.0100	**0.0106**	106	70-130			0.0010
1,1,1,2-Tetrachloroethane		0.0100	**0.0103**	103	70-130			0.0010
1,1,2,2-Tetrachloroethane		0.0100	**0.0105**	105	70-130			0.0010
Tetrachloroethene		0.0100	**0.0100**	100	70-130			0.0010
Toluene		0.0100	**0.00994**	99	70-130			0.0010
1,2,4-Trichlorobenzene		0.0100	**0.0105**	105	70-130			0.0010
1,1,1-Trichloroethane		0.0100	**0.00965**	97	70-130			0.0010
1,1,2-Trichloroethane		0.0100	**0.0103**	103	70-130			0.0010
Trichloroethene		0.0100	**0.00995**	100	70-130			0.0010
Trichlorofluoromethane		0.0100	**0.00996**	100	70-130			0.0010
1,2,3-Trichloropropane		0.0100	**0.0108**	108	70-130			0.0010
Vinyl Chloride		0.0100	**0.0100**	100	70-130			0.0010
Xylene (Total)		0.0300	**0.0306**	102	70-130			0.0030

Laboratory Control Sample Analyzed: 04/16/2009 By: JDM
Unit: ug/L Analytical Batch: 9041718

Surrogates:			
Dibromofluoromethane	*101*	*82-118*	
1,2-Dichloroethane-d4	*101*	*75-128*	
Toluene-d8	*101*	*88-108*	
4-Bromofluorobenzene	*99*	*82-114*	

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STATEMENT OF DATA QUALIFICATIONS

All analyses have been validated and comply with our Quality Control Program.
No Qualifications required.

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TRIMATRIX LABORATORIES

~~Bureau Veritas North America, Inc.~~

REQUEST FOR LABORATORY ANALYTICAL SERVICES

IMPORTANT
Date Results Requested: 4/17/09
Rush Charges Authorized? [X] Yes [ ] No
[ ] Fax or [X] E-mail Results
E-mail address: john.bacon@rmtinc.com

Page ___ of ___
For Bureau Veritas Use Only
Bureau Veritas Lab Project No.

REPORT RESULTS TO
Name: JOHN BACON
Company: RMT INC
Mailing Address: 3754 Ranchero Dr.
City, State, Zip: Ann Arbor, MI 48108
Telephone No.: 734 971 7080 FAX No.: 734 971 9022
Client Job No.: 8070.02
Dept.: —

SEND INVOICE TO
Purchase Order No.:
Name:
Company:
Address:
City, State, Zip:
Dept. Loss Ctrl.

Special instructions and/or specific regulatory requirements: (method, limit of detection, etc.)
As specified in quote - 24 hr turn. Also, please send more Chain-of Custodies (We are out) Thx John

* Explanation of Preservative

Soils: Which state are these from? ___

Waters: [X] Drinking Water [ ] Groundwater [ ] Wastewater

ANALYSIS REQUESTED
(Enter an "X" in the box below to indicate request. Enter a "P" if Preservative added.")

CLIENT SAMPLE IDENTIFICATION	DATE SAMPLED	TIME SAMPLED	MATRIX/ MEDIA	AIR VOLUME (specify units)	Number of Containers	DW VOC's (524.5)	1,4 Dioxane	FOR LAB USE ONLY
607 MOHAWK	4/15/09	8:58A	W	0	5	✓	✓	
6719 MILL HWY.	4/15/09	2:11		0	5	✓	✓	
TRIP BLANK			W	0	1	✓		

CHAIN OF CUSTODY
Collected by: JOHN BACON (print) — Collector's Signature:
Relinquished by: — Date/Time 4/15/09 16:38 — Received by: — Date/Time
Relinquished by: — Date/Time — Received by: — Date/Time 4/16/09 0930
Method of Shipment: — Received at Lab by: — Date/Time

Authorized by: _____ Date _____
(Client Signature **MUST** Accompany Request)

Sample Condition Upon Receipt: [ ] Acceptable [ ] Other (explain)

Please return completed form and samples to one of the Bureau Veritas North America, Inc. labs listed below:

Detroit Lab
22345 Roethel Drive
Novi, MI 48375
(800) 806-5887
(248) 344-1770
FAX (248) 344-2655

Atlanta Lab
3380 Chastain Meadows Parkway, Suite 300
Kennesaw, GA 30144
(800) 252-9919
(770) 499-7500
FAX (770) 499-7511

0904303

21-7 485 White
COC-04582 TM1379

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3/07 10K

April 21, 2009

RMT, Inc. - Ann Arbor Office
Attn: John Bacon
3754 Ranchero Drive
Ann Arbor, MI 48108-2771

Project: Tecumseh Products

Dear John Bacon,

Enclosed is a copy of the laboratory report, comprised of the following work order(s), for test samples received by TriMatrix Laboratories:

Work Order	Received	Description
0904369	04/20/2009	Laboratory Services

This report relates only to the sample(s), as received. Test results are in compliance with the requirements of the National Environmental Laboratory Accreditation Conference (NELAC). Any qualifications of results, including sample acceptance requirements, are explained in the Statement of Data Qualifications.

Estimates of analytical uncertainties for the test results contained within this report are available upon request.

If you have any questions or require further information, please do not hesitate to contact me.

Sincerely,

Jennifer L. Rice
Project Chemist

Enclosures(s)

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ANALYTICAL REPORT

Client:	**RMT, Inc. - Ann Arbor Office**	Work Order:	**0904369**
Project:	Tecumseh Products	Description:	Laboratory Services
Client Sample ID:	**610 Mohawk St.**	Sampled:	04/17/09 07:49
Lab Sample ID:	**0904369-01**	Sampled By:	J. Bacon
Matrix:	Water	Received:	04/20/09 09:00
Unit:	mg/L	Prepared:	04/20/09 By: JDM
Dilution Factor:	20	Analyzed:	04/20/09 By: JDM
QC Batch:	0904129	Analytical Batch:	9042042

Volatile Organic Compounds in Drinking Water by EPA Method 524.2

CAS Number	Analyte	Analytical Result	RL	Action Limit
71-43-2	Benzene	<0.020	0.020	0.005
108-86-1	Bromobenzene	<0.020	0.020	
75-27-4	Bromodichloromethane	<0.020	0.020	0.08
75-25-2	Bromoform	<0.020	0.020	0.08
74-83-9	Bromomethane	<0.020	0.020	
56-23-5	Carbon Tetrachloride	<0.020	0.020	0.005
108-90-7	Chlorobenzene	<0.020	0.020	0.1
75-00-3	Chloroethane	<0.020	0.020	
67-66-3	Chloroform	<0.020	0.020	0.08
74-87-3	Chloromethane	<0.020	0.020	
95-49-8	2-Chlorotoluene	<0.020	0.020	
106-43-4	4-Chlorotoluene	<0.020	0.020	
124-48-1	Dibromochloromethane	<0.020	0.020	0.08
74-95-3	Dibromomethane	<0.020	0.020	
95-50-1	1,2-Dichlorobenzene	<0.020	0.020	0.6
541-73-1	1,3-Dichlorobenzene	<0.020	0.020	
106-46-7	1,4-Dichlorobenzene	<0.020	0.020	0.075
*75-71-8	Dichlorodifluoromethane	<0.020	0.020	
75-34-3	1,1-Dichloroethane	<0.020	0.020	
107-06-2	1,2-Dichloroethane	<0.020	0.020	0.005
75-35-4	1,1-Dichloroethene	<0.020	0.020	0.007
156-59-2	cis-1,2-Dichloroethene	<0.020	0.020	0.07
156-60-5	trans-1,2-Dichloroethene	<0.020	0.020	0.1
78-87-5	1,2-Dichloropropane	<0.020	0.020	0.005
142-28-9	1,3-Dichloropropane	<0.020	0.020	
594-20-7	2,2-Dichloropropane	<0.020	0.020	
563-58-6	1,1-Dichloropropene	<0.020	0.020	
10061-01-5	cis-1,3-Dichloropropene	<0.020	0.020	
10061-02-6	trans-1,3-Dichloropropene	<0.020	0.020	
100-41-4	Ethylbenzene	<0.020	0.020	0.7
75-09-2	Methylene Chloride	<0.10	0.10	0.005

Continued on next page

*See Statement of Data Qualifications

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ANALYTICAL REPORT

Client:	**RMT, Inc. - Ann Arbor Office**	Work Order:	**0904369**
Project:	Tecumseh Products	Description:	Laboratory Services
Client Sample ID:	**610 Mohawk St.**	Sampled:	04/17/09 07:49
Lab Sample ID:	**0904369-01**	Sampled By:	J. Bacon
Matrix:	Water	Received:	04/20/09 09:00
Unit:	mg/L	Prepared:	04/20/09 By: JDM
Dilution Factor:	20	Analyzed:	04/20/09 By: JDM
QC Batch:	0904129	Analytical Batch:	9042042

Volatile Organic Compounds in Drinking Water by EPA Method 524.2 (Continued)

CAS Number	Analyte	Analytical Result	RL	Action Limit
100-42-5	Styrene	<0.020	0.020	0.1
630-20-6	1,1,1,2-Tetrachloroethane	<0.020	0.020	
79-34-5	1,1,2,2-Tetrachloroethane	<0.020	0.020	
127-18-4	Tetrachloroethene	<0.020	0.020	0.005
108-88-3	Toluene	<0.020	0.020	1
120-82-1	1,2,4-Trichlorobenzene	<0.020	0.020	0.07
71-55-6	1,1,1-Trichloroethane	**0.060**	0.020	0.2
79-00-5	1,1,2-Trichloroethane	<0.020	0.020	0.005
79-01-6	Trichloroethene	**1.3**	0.020	0.005
75-69-4	Trichlorofluoromethane	<0.020	0.020	
96-18-4	1,2,3-Trichloropropane	<0.020	0.020	
75-01-4	Vinyl Chloride	<0.020	0.020	0.002
1330-20-7	Xylene (Total)	<0.060	0.060	10

Surrogates:	***% Recovery***	***Control Limits***
Dibromofluoromethane	103	*82-118*
1,2-Dichloroethane-d4	109	*75-128*
Toluene-d8	100	*88-108*
4-Bromofluorobenzene	100	*82-114*

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ANALYTICAL REPORT

Client:	**RMT, Inc. - Ann Arbor Office**	Work Order:	**0904369**
Project:	Tecumseh Products	Description:	Laboratory Services
Client Sample ID:	**610 Mohawk St.**	Sampled:	04/17/09 07:49
Lab Sample ID:	**0904369-01RE1**	Sampled By:	J. Bacon
Matrix:	Water	Received:	04/20/09 09:00
Unit:	mg/L	Prepared:	04/20/09 By: JDM
Dilution Factor:	1	Analyzed:	04/20/09 By: JDM
QC Batch:	0904129	Analytical Batch:	9042042

Volatile Organic Compounds in Drinking Water by EPA Method 524.2

CAS Number	Analyte	Analytical Result	RL	Action Limit
71-43-2	Benzene	<0.0010	0.0010	0.005
108-86-1	Bromobenzene	<0.0010	0.0010	
75-27-4	Bromodichloromethane	<0.0010	0.0010	0.08
75-25-2	Bromoform	<0.0010	0.0010	0.08
74-83-9	Bromomethane	<0.0010	0.0010	
56-23-5	Carbon Tetrachloride	<0.0010	0.0010	0.005
108-90-7	Chlorobenzene	<0.0010	0.0010	0.1
75-00-3	Chloroethane	<0.0010	0.0010	
67-66-3	Chloroform	**0.0014**	0.0010	0.08
74-87-3	Chloromethane	<0.0010	0.0010	
95-49-8	2-Chlorotoluene	<0.0010	0.0010	
106-43-4	4-Chlorotoluene	<0.0010	0.0010	
124-48-1	Dibromochloromethane	<0.0010	0.0010	0.08
74-95-3	Dibromomethane	<0.0010	0.0010	
95-50-1	1,2-Dichlorobenzene	<0.0010	0.0010	0.6
541-73-1	1,3-Dichlorobenzene	<0.0010	0.0010	
106-46-7	1,4-Dichlorobenzene	<0.0010	0.0010	0.075
75-71-8	Dichlorodifluoromethane	<0.0010	0.0010	
75-34-3	1,1-Dichloroethane	**0.0062**	0.0010	
107-06-2	1,2-Dichloroethane	<0.0010	0.0010	0.005
75-35-4	1,1-Dichloroethene	**0.0023**	0.0010	0.007
156-59-2	cis-1,2-Dichloroethene	**0.015**	0.0010	0.07
156-60-5	trans-1,2-Dichloroethene	**0.0020**	0.0010	0.1
78-87-5	1,2-Dichloropropane	<0.0010	0.0010	0.005
142-28-9	1,3-Dichloropropane	<0.0010	0.0010	
594-20-7	2,2-Dichloropropane	<0.0010	0.0010	
563-58-6	1,1-Dichloropropene	<0.0010	0.0010	
10061-01-5	cis-1,3-Dichloropropene	<0.0010	0.0010	
10061-02-6	trans-1,3-Dichloropropene	<0.0010	0.0010	
100-41-4	Ethylbenzene	<0.0010	0.0010	0.7
75-09-2	Methylene Chloride	<0.0050	0.0050	0.005

Continued on next page

ANALYTICAL REPORT

Client:	**RMT, Inc. - Ann Arbor Office**	Work Order:	**0904369**
Project:	Tecumseh Products	Description:	Laboratory Services
Client Sample ID:	**610 Mohawk St.**	Sampled:	04/17/09 07:49
Lab Sample ID:	**0904369-01RE1**	Sampled By:	J. Bacon
Matrix:	Water	Received:	04/20/09 09:00
Unit:	mg/L	Prepared:	04/20/09 By: JDM
Dilution Factor:	1	Analyzed:	04/20/09 By: JDM
QC Batch:	0904129	Analytical Batch:	9042042

Volatile Organic Compounds in Drinking Water by EPA Method 524.2 (Continued)

CAS Number	Analyte	Analytical Result	RL	Action Limit
100-42-5	Styrene	<0.0010	0.0010	0.1
630-20-6	1,1,1,2-Tetrachloroethane	<0.0010	0.0010	
79-34-5	1,1,2,2-Tetrachloroethane	<0.0010	0.0010	
127-18-4	Tetrachloroethene	<0.0010	0.0010	0.005
108-88-3	Toluene	<0.0010	0.0010	1
120-82-1	1,2,4-Trichlorobenzene	<0.0010	0.0010	0.07
71-55-6	1,1,1-Trichloroethane	**0.066**	0.0010	0.2
79-00-5	1,1,2-Trichloroethane	<0.0010	0.0010	0.005
*79-01-6	Trichloroethene	**1.3**	0.0010	0.005
75-69-4	Trichlorofluoromethane	<0.0010	0.0010	
96-18-4	1,2,3-Trichloropropane	<0.0010	0.0010	
75-01-4	Vinyl Chloride	**0.0095**	0.0010	0.002
1330-20-7	Xylene (Total)	<0.0030	0.0030	10

Surrogates:	***% Recovery***	***Control Limits***
Dibromofluoromethane	108	*82-118*
1,2-Dichloroethane-d4	114	*75-128*
Toluene-d8	97	*88-108*
4-Bromofluorobenzene	103	*82-114*

*See Statement of Data Qualifications

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QUALITY CONTROL REPORT

Volatile Organic Compounds in Drinking Water by EPA Method 524.2

Analyte	Sample Conc.	Spike Qty.	Result	Spike % Rec.	Control Limits	RPD	RPD Limits	RL

QC Batch: 0904129 5030B Aqueous Purge & Trap/USEPA-524.2

Method Blank Analyzed: 04/20/2009 By: JDM

Unit: mg/L Analytical Batch: 9042042

Benzene			<0.0010					0.0010
Bromobenzene			<0.0010					0.0010
Bromodichloromethane			<0.0010					0.0010
Bromoform			<0.0010					0.0010
Bromomethane			<0.0010					0.0010
Carbon Tetrachloride			<0.0010					0.0010
Chlorobenzene			<0.0010					0.0010
Chloroethane			<0.0010					0.0010
Chloroform			<0.0010					0.0010
Chloromethane			<0.0010					0.0010
2-Chlorotoluene			<0.0010					0.0010
4-Chlorotoluene			<0.0010					0.0010
Dibromochloromethane			<0.0010					0.0010
Dibromomethane			<0.0010					0.0010
1,2-Dichlorobenzene			<0.0010					0.0010
1,3-Dichlorobenzene			<0.0010					0.0010
1,4-Dichlorobenzene			<0.0010					0.0010
Dichlorodifluoromethane			<0.0010					0.0010
1,1-Dichloroethane			<0.0010					0.0010
1,2-Dichloroethane			<0.0010					0.0010
1,1-Dichloroethene			<0.0010					0.0010
cis-1,2-Dichloroethene			<0.0010					0.0010
trans-1,2-Dichloroethene			<0.0010					0.0010
1,2-Dichloropropane			<0.0010					0.0010
1,3-Dichloropropane			<0.0010					0.0010
2,2-Dichloropropane			<0.0010					0.0010
1,1-Dichloropropene			<0.0010					0.0010
cis-1,3-Dichloropropene			<0.0010					0.0010
trans-1,3-Dichloropropene			<0.0010					0.0010
Ethylbenzene			<0.0010					0.0010
Methylene Chloride			<0.0050					0.0050
Styrene			<0.0010					0.0010
1,1,1,2-Tetrachloroethane			<0.0010					0.0010
1,1,2,2-Tetrachloroethane			<0.0010					0.0010
Tetrachloroethene			<0.0010					0.0010
Toluene			<0.0010					0.0010

Continued on next page

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QUALITY CONTROL REPORT

Volatile Organic Compounds in Drinking Water by EPA Method 524.2 (Continued)

Analyte	Sample Conc.	Spike Qty.	Result	Spike % Rec.	Control Limits	RPD	RPD Limits	RL

QC Batch: 0904129 (Continued) 5030B Aqueous Purge & Trap/USEPA-524.2

Method Blank (Continued) Analyzed: 04/20/2009 By: JDM
Unit: mg/L Analytical Batch: 9042042

1,2,4-Trichlorobenzene		<0.0010				0.0010
1,1,1-Trichloroethane		<0.0010				0.0010
1,1,2-Trichloroethane		<0.0010				0.0010
Trichloroethene		<0.0010				0.0010
Trichlorofluoromethane		<0.0010				0.0010
1,2,3-Trichloropropane		<0.0010				0.0010
Vinyl Chloride		<0.0010				0.0010
Xylene (Total)		<0.0030				0.0030

Method Blank Analyzed: 04/20/2009 By: JDM
Unit: ug/L Analytical Batch: 9042042

Surrogates:						
Dibromofluoromethane			*102*	*82-118*		
1,2-Dichloroethane-d4			*108*	*75-128*		
Toluene-d8			*99*	*88-108*		
4-Bromofluorobenzene			*100*	*82-114*		

Laboratory Control Sample Analyzed: 04/20/2009 By: JDM
Unit: mg/L Analytical Batch: 9042042

Benzene	0.0100	**0.0104**	104	70-130		0.0010
Bromobenzene	0.0100	**0.0108**	108	70-130		0.0010
Bromodichloromethane	0.0100	**0.0118**	118	70-130		0.0010
Bromoform	0.0100	**0.0102**	102	70-130		0.0010
Bromomethane	0.0100	**0.0126**	126	70-130		0.0010
Carbon Tetrachloride	0.0100	**0.0116**	116	70-130		0.0010
Chlorobenzene	0.0100	**0.0103**	103	70-130		0.0010
Chloroethane	0.0100	**0.0106**	106	70-130		0.0010
Chloroform	0.0100	**0.0112**	112	70-130		0.0010
Chloromethane	0.0100	**0.00845**	84	70-130		0.0010
2-Chlorotoluene	0.0100	**0.0102**	102	70-130		0.0010
4-Chlorotoluene	0.0100	**0.0108**	108	70-130		0.0010
Dibromochloromethane	0.0100	**0.0108**	108	70-130		0.0010
Dibromomethane	0.0100	**0.0109**	109	70-130		0.0010
1,2-Dichlorobenzene	0.0100	**0.00998**	100	70-130		0.0010
1,3-Dichlorobenzene	0.0100	**0.0100**	100	70-130		0.0010
1,4-Dichlorobenzene	0.0100	**0.0101**	101	70-130		0.0010
Dichlorodifluoromethane	0.0100	**0.00663**	**66**	70-130		0.0010

Continued on next page

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QUALITY CONTROL REPORT

Volatile Organic Compounds in Drinking Water by EPA Method 524.2 (Continued)

QC Batch: 0904129 (Continued) 5030B Aqueous Purge & Trap/USEPA-524.2

Laboratory Control Sample (Continued) Analyzed: 04/20/2009 By: JDM

Unit: mg/L Analytical Batch: 9042042

Analyte	Sample Conc.	Spike Qty.	Result	Spike % Rec.	Control Limits	RPD	RPD Limits	RL
1,1-Dichloroethane		0.0100	**0.0115**	115	70-130			0.0010
1,2-Dichloroethane		0.0100	**0.0119**	119	70-130			0.0010
1,1-Dichloroethene		0.0100	**0.0101**	101	70-130			0.0010
cis-1,2-Dichloroethene		0.0100	**0.00998**	100	70-130			0.0010
trans-1,2-Dichloroethene		0.0100	**0.0106**	106	70-130			0.0010
1,2-Dichloropropane		0.0100	**0.0108**	108	70-130			0.0010
1,3-Dichloropropane		0.0100	**0.0106**	106	70-130			0.0010
2,2-Dichloropropane		0.0100	**0.0106**	106	70-130			0.0010
1,1-Dichloropropene		0.0100	**0.0106**	106	70-130			0.0010
cis-1,3-Dichloropropene		0.0100	**0.0105**	105	70-130			0.0010
trans-1,3-Dichloropropene		0.0100	**0.00998**	100	70-130			0.0010
Ethylbenzene		0.0100	**0.0104**	104	70-130			0.0010
Methylene Chloride		0.0100	**0.0124**	124	70-130			0.0050
Styrene		0.0100	**0.0105**	105	70-130			0.0010
1,1,1,2-Tetrachloroethane		0.0100	**0.0110**	110	70-130			0.0010
1,1,2,2-Tetrachloroethane		0.0100	**0.0107**	107	70-130			0.0010
Tetrachloroethene		0.0100	**0.0101**	101	70-130			0.0010
Toluene		0.0100	**0.0103**	103	70-130			0.0010
1,2,4-Trichlorobenzene		0.0100	**0.00758**	76	70-130			0.0010
1,1,1-Trichloroethane		0.0100	**0.0106**	106	70-130			0.0010
1,1,2-Trichloroethane		0.0100	**0.0108**	108	70-130			0.0010
Trichloroethene		0.0100	**0.00987**	99	70-130			0.0010
Trichlorofluoromethane		0.0100	**0.0114**	114	70-130			0.0010
1,2,3-Trichloropropane		0.0100	**0.0109**	109	70-130			0.0010
Vinyl Chloride		0.0100	**0.00933**	93	70-130			0.0010
Xylene (Total)		0.0300	**0.0309**	103	70-130			0.0030

Laboratory Control Sample Analyzed: 04/20/2009 By: JDM

Unit: ug/L Analytical Batch: 9042042

Surrogates:			
Dibromofluoromethane		*105*	*82-118*
1,2-Dichloroethane-d4		*108*	*75-128*
Toluene-d8		*101*	*88-108*
4-Bromofluorobenzene		*103*	*82-114*

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STATEMENT OF DATA QUALIFICATIONS

Volatile Organic Compounds in Drinking Water by EPA Method 524.2

Qualification: The LCS and/or LCSD recovery exceeded the upper control limit. A positive result for this analyte in any sample from the associated QC batch is considered estimated. Non-detectable results are not qualified.

Analysis: USEPA-524.2

Sample/Analyte: 0904369-01 610 Mohawk St. Dichlorodifluoromethane

Qualification: The analyte concentration in the sample exceeded the calibrated range of the instrument. The sample result is considered estimated.

Analysis: USEPA-524.2

Sample/Analyte: 0904369-01RE1 610 Mohawk St. Trichloroethene

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E-0901369 VOC RACK #0406 COC# 04605 27.1

Page 1 of 1

Bureau Veritas North America, Inc.

REQUEST FOR LABORATORY ANALYTICAL SERVICES

IMPORTANT
Date Results Requested: 4/20/09
Rush Charges Authorized? ☑ Yes ☐ No
☐ Fax or ☒ E-mail Results
E-mail address: john.bacon@rmtinc.com

For Bureau Veritas Use Only
Bureau Veritas Lab Project No.

REPORT RESULTS TO
Name: RMT, Inc J. Bacon
Company: RMT Inc
Mailing Address: 3754 Ranchero.
City, State, Zip: Ann Arbor MI 48108
Telephone No.: 734 971 7080 FAX No.: 734 971 9022

Client Job No.: 8070.02
Dept.: —

SEND INVOICE TO
Purchase Order No.
Name
Company: Dept. Loss Ctrl.
Address
City, State, Zip

Special instructions and/or specific regulatory requirements: (method, limit of detection, etc.)
24 hour turn for Drinking Water (524.5)

* Explanation of Preservative HCl

Soils: Which state are these from?

Waters:
☑ Drinking Water
☐ Groundwater
☐ Wastewater

ANALYSIS REQUESTED
(Enter an "X" in the box below to indicate request. Enter a "P" if Preservative added.*)

CLIENT SAMPLE IDENTIFICATION	DATE SAMPLED	TIME SAMPLED	MATRIX/ MEDIA	AIR VOLUME (specify units)	Number of Containers	Drinking Water 524.5 (VOC)	FOR LAB USE ONLY
~~7:49A~~		~~7:49A~~	W			X	
01 610 Mohawk St	4/17/09	7:49A	W	0	3	X	

CHAIN OF CUSTODY

Collected by: JOHN A. BACON (print) Collector's Signature:
Relinquished by: Date/Time 4/17/09 10:50A Received by: Date/Time
Relinquished by: Date/Time Received by: Date/Time
Method of Shipment: Received at Lab by: Date/Time 4.2009 0900
Authorized by: Date 4/17/09 Sample Condition Upon Receipt: ☐ Acceptable ☐ Other (explain)
(Client Signature MUST Accompany Request)

Please return completed form and samples to one of the Bureau Veritas North America, Inc. labs listed below:

Detroit Lab
22345 Roethel Drive
Novi, MI 48375
(800) 806-5887
(248) 344-1770
FAX (248) 344-2655

Atlanta Lab
3380 Chastain Meadows Parkway, Suite 300
Kennesaw, GA 30144
(800) 252-9919
(770) 499-7500
FAX (770) 499-7511

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May 01, 2009

RMT, Inc. - Ann Arbor Office
Attn: John Bacon
3754 Ranchero Drive
Ann Arbor, MI 48108-2771

Project: Tecumseh Products

Dear John Bacon,

Enclosed is a copy of the laboratory report, comprised of the following work order(s), for test samples received by TriMatrix Laboratories:

Work Order	Received	Description
0904590	04/30/2009	Laboratory Services

This report relates only to the sample(s), as received. Test results are in compliance with the requirements of the National Environmental Laboratory Accreditation Conference (NELAC). Any qualifications of results, including sample acceptance requirements, are explained in the Statement of Data Qualifications.

Estimates of analytical uncertainties for the test results contained within this report are available upon request.

If you have any questions or require further information, please do not hesitate to contact me.

Sincerely,

Jennifer L. Rice
Project Chemist

Enclosures(s)

5560 Corporate Exchange Court SE • Grand Rapids, MI 49512 • (616) 975-4500 • Fax (616) 942-7463

ANALYTICAL REPORT

Client:	**RMT, Inc. - Ann Arbor Office**	Work Order:	**0904590**
Project:	Tecumseh Products	Description:	Laboratory Services
Client Sample ID:	**307 Kilbuck St.**	Sampled:	04/29/09 10:30
Lab Sample ID:	**0904590-01**	Sampled By:	J. Bacon
Matrix:	Water	Received:	04/30/09 07:40
Unit:	mg/L	Prepared:	04/30/09 By: DLV
Dilution Factor:	1	Analyzed:	04/30/09 By: DLV
QC Batch:	0904609	Analytical Batch:	9043027

Volatile Organic Compounds in Drinking Water by EPA Method 524.2

CAS Number	Analyte	Analytical Result	RL	Action Limit
71-43-2	Benzene	<0.0010	0.0010	0.005
108-86-1	Bromobenzene	<0.0010	0.0010	
75-27-4	Bromodichloromethane	<0.0010	0.0010	0.08
75-25-2	Bromoform	<0.0010	0.0010	0.08
*74-83-9	Bromomethane	<0.0010	0.0010	
56-23-5	Carbon Tetrachloride	<0.0010	0.0010	0.005
108-90-7	Chlorobenzene	<0.0010	0.0010	0.1
75-00-3	Chloroethane	<0.0010	0.0010	
67-66-3	Chloroform	<0.0010	0.0010	0.08
74-87-3	Chloromethane	<0.0010	0.0010	
95-49-8	2-Chlorotoluene	<0.0010	0.0010	
106-43-4	4-Chlorotoluene	<0.0010	0.0010	
124-48-1	Dibromochloromethane	<0.0010	0.0010	0.08
74-95-3	Dibromomethane	<0.0010	0.0010	
95-50-1	1,2-Dichlorobenzene	<0.0010	0.0010	0.6
541-73-1	1,3-Dichlorobenzene	<0.0010	0.0010	
106-46-7	1,4-Dichlorobenzene	<0.0010	0.0010	0.075
75-71-8	Dichlorodifluoromethane	<0.0010	0.0010	
75-34-3	1,1-Dichloroethane	<0.0010	0.0010	
107-06-2	1,2-Dichloroethane	<0.0010	0.0010	0.005
75-35-4	1,1-Dichloroethene	<0.0010	0.0010	0.007
156-59-2	cis-1,2-Dichloroethene	<0.0010	0.0010	0.07
156-60-5	trans-1,2-Dichloroethene	<0.0010	0.0010	0.1
78-87-5	1,2-Dichloropropane	<0.0010	0.0010	0.005
142-28-9	1,3-Dichloropropane	<0.0010	0.0010	
594-20-7	2,2-Dichloropropane	<0.0010	0.0010	
563-58-6	1,1-Dichloropropene	<0.0010	0.0010	
10061-01-5	cis-1,3-Dichloropropene	<0.0010	0.0010	
10061-02-6	trans-1,3-Dichloropropene	<0.0010	0.0010	
100-41-4	Ethylbenzene	<0.0010	0.0010	0.7
75-09-2	Methylene Chloride	<0.0050	0.0050	0.005

Continued on next page

*See Statement of Data Qualifications

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ANALYTICAL REPORT

Client:	**RMT, Inc. - Ann Arbor Office**	Work Order:	**0904590**
Project:	Tecumseh Products	Description:	Laboratory Services
Client Sample ID:	**307 Kilbuck St.**	Sampled:	04/29/09 10:30
Lab Sample ID:	**0904590-01**	Sampled By:	J. Bacon
Matrix:	Water	Received:	04/30/09 07:40
Unit:	mg/L	Prepared:	04/30/09 By: DLV
Dilution Factor:	1	Analyzed:	04/30/09 By: DLV
QC Batch:	0904609	Analytical Batch:	9043027

Volatile Organic Compounds in Drinking Water by EPA Method 524.2 (Continued)

CAS Number	Analyte	Analytical Result	RL	Action Limit
100-42-5	Styrene	<0.0010	0.0010	0.1
630-20-6	1,1,1,2-Tetrachloroethane	<0.0010	0.0010	
79-34-5	1,1,2,2-Tetrachloroethane	<0.0010	0.0010	
127-18-4	Tetrachloroethene	<0.0010	0.0010	0.005
108-88-3	Toluene	<0.0010	0.0010	1
120-82-1	1,2,4-Trichlorobenzene	<0.0010	0.0010	0.07
71-55-6	1,1,1-Trichloroethane	<0.0010	0.0010	0.2
79-00-5	1,1,2-Trichloroethane	<0.0010	0.0010	0.005
79-01-6	Trichloroethene	<0.0010	0.0010	0.005
75-69-4	Trichlorofluoromethane	<0.0010	0.0010	
96-18-4	1,2,3-Trichloropropane	<0.0010	0.0010	
75-01-4	Vinyl Chloride	<0.0010	0.0010	0.002
1330-20-7	Xylene (Total)	<0.0030	0.0030	10

Surrogates:	***% Recovery***	***Control Limits***
Dibromofluoromethane	94	*82-118*
1,2-Dichloroethane-d4	98	*75-128*
Toluene-d8	93	*88-108*
4-Bromofluorobenzene	96	*82-114*

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ANALYTICAL REPORT

Client:	**RMT, Inc. - Ann Arbor Office**	Work Order:	**0904590**
Project:	Tecumseh Products	Description:	Laboratory Services
Client Sample ID:	**Trip Blank**	Sampled:	04/29/09 00:00
Lab Sample ID:	**0904590-02**	Sampled By:	TML
Matrix:	Water	Received:	04/30/09 07:40
Unit:	mg/L	Prepared:	04/30/09 By: DLV
Dilution Factor:	1	Analyzed:	04/30/09 By: DLV
QC Batch:	0904609	Analytical Batch:	9043027

Volatile Organic Compounds in Drinking Water by EPA Method 524.2

CAS Number	Analyte	Analytical Result	RL	Action Limit
71-43-2	Benzene	<0.0010	0.0010	0.005
108-86-1	Bromobenzene	<0.0010	0.0010	
75-27-4	Bromodichloromethane	<0.0010	0.0010	0.08
75-25-2	Bromoform	<0.0010	0.0010	0.08
*74-83-9	Bromomethane	<0.0010	0.0010	
56-23-5	Carbon Tetrachloride	<0.0010	0.0010	0.005
108-90-7	Chlorobenzene	<0.0010	0.0010	0.1
75-00-3	Chloroethane	<0.0010	0.0010	
67-66-3	Chloroform	<0.0010	0.0010	0.08
74-87-3	Chloromethane	<0.0010	0.0010	
95-49-8	2-Chlorotoluene	<0.0010	0.0010	
106-43-4	4-Chlorotoluene	<0.0010	0.0010	
124-48-1	Dibromochloromethane	<0.0010	0.0010	0.08
74-95-3	Dibromomethane	<0.0010	0.0010	
95-50-1	1,2-Dichlorobenzene	<0.0010	0.0010	0.6
541-73-1	1,3-Dichlorobenzene	<0.0010	0.0010	
106-46-7	1,4-Dichlorobenzene	<0.0010	0.0010	0.075
75-71-8	Dichlorodifluoromethane	<0.0010	0.0010	
75-34-3	1,1-Dichloroethane	<0.0010	0.0010	
107-06-2	1,2-Dichloroethane	<0.0010	0.0010	0.005
75-35-4	1,1-Dichloroethene	<0.0010	0.0010	0.007
156-59-2	cis-1,2-Dichloroethene	<0.0010	0.0010	0.07
156-60-5	trans-1,2-Dichloroethene	<0.0010	0.0010	0.1
78-87-5	1,2-Dichloropropane	<0.0010	0.0010	0.005
142-28-9	1,3-Dichloropropane	<0.0010	0.0010	
594-20-7	2,2-Dichloropropane	<0.0010	0.0010	
563-58-6	1,1-Dichloropropene	<0.0010	0.0010	
10061-01-5	cis-1,3-Dichloropropene	<0.0010	0.0010	
10061-02-6	trans-1,3-Dichloropropene	<0.0010	0.0010	
100-41-4	Ethylbenzene	<0.0010	0.0010	0.7
75-09-2	Methylene Chloride	<0.0050	0.0050	0.005

Continued on next page

*See Statement of Data Qualifications

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ANALYTICAL REPORT

Client:	**RMT, Inc. - Ann Arbor Office**	Work Order:	**0904590**
Project:	Tecumseh Products	Description:	Laboratory Services
Client Sample ID:	**Trip Blank**	Sampled:	04/29/09 00:00
Lab Sample ID:	**0904590-02**	Sampled By:	TML
Matrix:	Water	Received:	04/30/09 07:40
Unit:	mg/L	Prepared:	04/30/09 By: DLV
Dilution Factor:	1	Analyzed:	04/30/09 By: DLV
QC Batch:	0904609	Analytical Batch:	9043027

Volatile Organic Compounds in Drinking Water by EPA Method 524.2 (Continued)

CAS Number	Analyte	Analytical Result	RL	Action Limit
100-42-5	Styrene	<0.0010	0.0010	0.1
630-20-6	1,1,1,2-Tetrachloroethane	<0.0010	0.0010	
79-34-5	1,1,2,2-Tetrachloroethane	<0.0010	0.0010	
127-18-4	Tetrachloroethene	<0.0010	0.0010	0.005
108-88-3	Toluene	<0.0010	0.0010	1
120-82-1	1,2,4-Trichlorobenzene	<0.0010	0.0010	0.07
71-55-6	1,1,1-Trichloroethane	<0.0010	0.0010	0.2
79-00-5	1,1,2-Trichloroethane	<0.0010	0.0010	0.005
79-01-6	Trichloroethene	<0.0010	0.0010	0.005
75-69-4	Trichlorofluoromethane	<0.0010	0.0010	
96-18-4	1,2,3-Trichloropropane	<0.0010	0.0010	
75-01-4	Vinyl Chloride	<0.0010	0.0010	0.002
1330-20-7	Xylene (Total)	<0.0030	0.0030	10

Surrogates:	***% Recovery***	***Control Limits***
Dibromofluoromethane	95	*82-118*
1,2-Dichloroethane-d4	98	*75-128*
Toluene-d8	93	*88-108*
4-Bromofluorobenzene	97	*82-114*

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QUALITY CONTROL REPORT

Volatile Organic Compounds in Drinking Water by EPA Method 524.2

QC Batch: 0904609 524.2 Purge & Trap/USEPA-524.2

Method Blank Analyzed: 04/30/2009 By: DLV

Unit: mg/L Analytical Batch: 9043027

Analyte	Sample Conc.	Spike Qty.	Result	Spike % Rec.	Control Limits	RPD	RPD Limits	RL
Benzene			<0.0010					0.0010
Bromobenzene			<0.0010					0.0010
Bromodichloromethane			<0.0010					0.0010
Bromoform			<0.0010					0.0010
Bromomethane			<0.0010					0.0010
Carbon Tetrachloride			<0.0010					0.0010
Chlorobenzene			<0.0010					0.0010
Chloroethane			<0.0010					0.0010
Chloroform			<0.0010					0.0010
Chloromethane			<0.0010					0.0010
2-Chlorotoluene			<0.0010					0.0010
4-Chlorotoluene			<0.0010					0.0010
Dibromochloromethane			<0.0010					0.0010
Dibromomethane			<0.0010					0.0010
1,2-Dichlorobenzene			<0.0010					0.0010
1,3-Dichlorobenzene			<0.0010					0.0010
1,4-Dichlorobenzene			<0.0010					0.0010
Dichlorodifluoromethane			<0.0010					0.0010
1,1-Dichloroethane			<0.0010					0.0010
1,2-Dichloroethane			<0.0010					0.0010
1,1-Dichloroethene			<0.0010					0.0010
cis-1,2-Dichloroethene			<0.0010					0.0010
trans-1,2-Dichloroethene			<0.0010					0.0010
1,2-Dichloropropane			<0.0010					0.0010
1,3-Dichloropropane			<0.0010					0.0010
2,2-Dichloropropane			<0.0010					0.0010
1,1-Dichloropropene			<0.0010					0.0010
cis-1,3-Dichloropropene			<0.0010					0.0010
trans-1,3-Dichloropropene			<0.0010					0.0010
Ethylbenzene			<0.0010					0.0010
Methylene Chloride			<0.0050					0.0050
Styrene			<0.0010					0.0010
1,1,1,2-Tetrachloroethane			<0.0010					0.0010
1,1,2,2-Tetrachloroethane			<0.0010					0.0010
Tetrachloroethene			<0.0010					0.0010
Toluene			<0.0010					0.0010

Continued on next page

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QUALITY CONTROL REPORT

Volatile Organic Compounds in Drinking Water by EPA Method 524.2 (Continued)

Analyte	Sample Conc.	Spike Qty.	Result	Spike % Rec.	Control Limits	RPD	RPD Limits	RL

QC Batch: 0904609 (Continued) 524.2 Purge & Trap/USEPA-524.2

Method Blank (Continued) Analyzed: 04/30/2009 By: DLV
Unit: mg/L Analytical Batch: 9043027

1,2,4-Trichlorobenzene		<0.0010					0.0010
1,1,1-Trichloroethane		<0.0010					0.0010
1,1,2-Trichloroethane		<0.0010					0.0010
Trichloroethene		<0.0010					0.0010
Trichlorofluoromethane		<0.0010					0.0010
1,2,3-Trichloropropane		<0.0010					0.0010
Vinyl Chloride		<0.0010					0.0010
Xylene (Total)		<0.0030					0.0030

Method Blank Analyzed: 04/30/2009 By: DLV
Unit: ug/L Analytical Batch: 9043027

Surrogates:							
Dibromofluoromethane			*95*	*82-118*			
1,2-Dichloroethane-d4			*99*	*75-128*			
Toluene-d8			*94*	*88-108*			
4-Bromofluorobenzene			*99*	*82-114*			

Laboratory Control Sample Analyzed: 04/30/2009 By: DLV
Unit: mg/L Analytical Batch: 9043027

Benzene	0.0100	**0.00857**	86	70-130			0.0010
Bromobenzene	0.0100	**0.00999**	100	70-130			0.0010
Bromodichloromethane	0.0100	**0.00835**	84	70-130			0.0010
Bromoform	0.0100	**0.0102**	102	70-130			0.0010
Bromomethane	0.0100	**0.00599**	**60**	70-130			0.0010
Carbon Tetrachloride	0.0100	**0.00758**	76	70-130			0.0010
Chlorobenzene	0.0100	**0.00993**	99	70-130			0.0010
Chloroethane	0.0100	**0.00779**	78	70-130			0.0010
Chloroform	0.0100	**0.00868**	87	70-130			0.0010
Chloromethane	0.0100	**0.00868**	87	70-130			0.0010
2-Chlorotoluene	0.0100	**0.0104**	104	70-130			0.0010
4-Chlorotoluene	0.0100	**0.0108**	108	70-130			0.0010
Dibromochloromethane	0.0100	**0.00974**	97	70-130			0.0010
Dibromomethane	0.0100	**0.00947**	95	70-130			0.0010
1,2-Dichlorobenzene	0.0100	**0.0108**	108	70-130			0.0010
1,3-Dichlorobenzene	0.0100	**0.0109**	109	70-130			0.0010
1,4-Dichlorobenzene	0.0100	**0.0106**	106	70-130			0.0010
Dichlorodifluoromethane	0.0100	**0.0100**	100	70-130			0.0010

Continued on next page

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QUALITY CONTROL REPORT

Volatile Organic Compounds in Drinking Water by EPA Method 524.2 (Continued)

QC Batch: 0904609 (Continued) 524.2 Purge & Trap/USEPA-524.2

Laboratory Control Sample (Continued) Analyzed: 04/30/2009 By: DLV

Unit: mg/L Analytical Batch: 9043027

Analyte	Sample Conc.	Spike Qty.	Result	Spike % Rec.	Control Limits	RPD	RPD Limits	RL
1,1-Dichloroethane		0.0100	**0.00873**	87	70-130			0.0010
1,2-Dichloroethane		0.0100	**0.00919**	92	70-130			0.0010
1,1-Dichloroethene		0.0100	**0.00862**	86	70-130			0.0010
cis-1,2-Dichloroethene		0.0100	**0.00891**	89	70-130			0.0010
trans-1,2-Dichloroethene		0.0100	**0.00895**	90	70-130			0.0010
1,2-Dichloropropane		0.0100	**0.00877**	88	70-130			0.0010
1,3-Dichloropropane		0.0100	**0.0109**	109	70-130			0.0010
2,2-Dichloropropane		0.0100	**0.00811**	81	70-130			0.0010
1,1-Dichloropropene		0.0100	**0.00834**	83	70-130			0.0010
cis-1,3-Dichloropropene		0.0100	**0.00820**	82	70-130			0.0010
trans-1,3-Dichloropropene		0.0100	**0.00816**	82	70-130			0.0010
Ethylbenzene		0.0100	**0.0101**	101	70-130			0.0010
Methylene Chloride		0.0100	**0.00871**	87	70-130			0.0050
Styrene		0.0100	**0.00992**	99	70-130			0.0010
1,1,1,2-Tetrachloroethane		0.0100	**0.00976**	98	70-130			0.0010
1,1,2,2-Tetrachloroethane		0.0100	**0.0117**	117	70-130			0.0010
Tetrachloroethene		0.0100	**0.00907**	91	70-130			0.0010
Toluene		0.0100	**0.00868**	87	70-130			0.0010
1,2,4-Trichlorobenzene		0.0100	**0.0115**	115	70-130			0.0010
1,1,1-Trichloroethane		0.0100	**0.00813**	81	70-130			0.0010
1,1,2-Trichloroethane		0.0100	**0.00972**	97	70-130			0.0010
Trichloroethene		0.0100	**0.00862**	86	70-130			0.0010
Trichlorofluoromethane		0.0100	**0.00913**	91	70-130			0.0010
1,2,3-Trichloropropane		0.0100	**0.0116**	116	70-130			0.0010
Vinyl Chloride		0.0100	**0.00869**	87	70-130			0.0010
Xylene (Total)		0.0300	**0.0304**	101	70-130			0.0030

Laboratory Control Sample Analyzed: 04/30/2009 By: DLV

Unit: ug/L Analytical Batch: 9043027

Surrogates:			
Dibromofluoromethane	*98*	*82-118*	
1,2-Dichloroethane-d4	*106*	*75-128*	
Toluene-d8	*95*	*88-108*	
4-Bromofluorobenzene	*107*	*82-114*	

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STATEMENT OF DATA QUALIFICATIONS

Volatile Organic Compounds in Drinking Water by EPA Method 524.2

Qualification: The LCS recovery was less than the lower control limit but greater than or equal to 10%. A positive result for this analyte in the associated QC batch is considered estimated; a non-detect result for the same analyte is considered as approximate.

Analysis: USEPA-524.2

Sample/Analyte:			
	0904590-01	307 Kilbuck St.	Bromomethane
	0904590-02	Trip Blank	Bromomethane

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TriMatrix Laboratories, Inc.
5560 Corporate Exchange Court SE Grand Rapids, MI 49512
Phone (616) 975-4500 Fax (616) 942-7463
www.trimatrixlabs.com

Chain of Custody Record

COC No. 128848

Page 1 of 1

For Lab Use Only

Cart: 5

VOA Rack/Tray: 696 R - 646 G

Receipt Log No.: 45-2

Project Chemist:

Laboratory Project No.: 0904590

Client Name: RMT, Inc

Address: 3754 Ranchero Drive

Ann Arbor MI 48108

Phone 734 971 7080

Fax 734 971 9022

Project Name: TPC Tecumseh

Client Project No./P.O. No.: 8070.02

Invoice No. ☐ Client ☐ Other (comments)

Contact/Report To: J. BACON

Analyses Requested

VOC's 8260 B — D/S D

DW. 524.5

Container Type (corresponds to Container Packing List)

Number of Containers Submitted

PRESERVATIVES
A NONE pH~7
B HNO_3 pH<2
C H_2SO_4 pH<2
D 1+1 HCl pH<2
E NaOH pH>12
F ZnAc/NaOH pH>9
G MeOH
H Other (note below)

Test Group	Matrix Code	Laboratory Sample Number		Sample ID	Cooler ID	Sample Date	Sample Time	COMP	GRAB	Matrix			Total	Sample Comments
06		01	1	307 Kilbuck St.	TM1182	4/29/09	10:30A			W		✓ (3-40 mL VOA's)		24-hour Turnaround
			2	DRUM SAMPLE 1	"		10:44A	X		S	✓	1-10oz + 1 mL VOA; MeOH Pres.)		Standard Turnaround
			3	DRUM SAMPLE 2	"		10:53A	X		S	✓	1-5oz + 1 mL VOA, MeOH Pres.)		
			4	DRUM SAMPLE 3	"		11:01A			W	✓	(3-40 ml VOA's)		
			5	DRUM SAMPLE 4	"		11:07A			W	✓	(3-40 mL VOA's)		
05		02	6	TRIP BLANK	"	4/27/09	15:37			W	✓	✓ (1-40 ml VOA)		24 hour Turn-around.
			7											
			8											
			9											
			10											

Sampled By (print): JOHN BACON

Sampler's Signature:

Company: RMT, Inc

How Shipped? Hand Carrier

Tracking No.

Comments: If possible, could we please have the results from sample 1 (307 Kilbuck) Friday Morning? Thanks JB

1. Relinquished By	Date	Time	2. Relinquished By	Date	Time	3. Relinquished By	Date	Time
	4/29/09	12:07						
1. Received By	**Date**	**Time**	**2. Received By**	**Date**	**Time**	**3. Received For Lab By**	**Date**	**Time**
							4/30/09	0740

August 18, 2009

RMT, Inc. - Ann Arbor Office
Attn: John Bacon
3754 Ranchero Drive
Ann Arbor, MI 48108-2771

Project: Tecumseh Products

Dear John Bacon,

Enclosed is a copy of the laboratory report, comprised of the following work order(s), for test samples received by TriMatrix Laboratories:

Work Order	Received	Description
0908198	08/12/2009	Laboratory Services

This report relates only to the sample(s), as received. Test results are in compliance with the requirements of the National Environmental Laboratory Accreditation Conference (NELAC). Any qualifications of results, including sample acceptance requirements, are explained in the Statement of Data Qualifications.

Estimates of analytical uncertainties for the test results contained within this report are available upon request.

If you have any questions or require further information, please do not hesitate to contact me.

Sincerely,

Jennifer L. Rice
Project Chemist

Enclosures(s)

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ANALYTICAL REPORT

Client:	**RMT, Inc. - Ann Arbor Office**	Work Order:	**0908198**
Project:	Tecumseh Products	Description:	Laboratory Services
Client Sample ID:	**509 S. Maumee**	Sampled:	08/11/09 11:33
Lab Sample ID:	**0908198-01**	Sampled By:	John Bacon
Matrix:	Water	Received:	08/12/09 09:00
Unit:	mg/L	Prepared:	08/14/09 By: DLV
Dilution Factor:	1	Analyzed:	08/14/09 By: DLV
QC Batch:	0909334	Analytical Batch:	9H17028

Volatile Organic Compounds in Drinking Water by EPA Method 524.2

CAS Number	Analyte	Analytical Result	RL
71-43-2	Benzene	<0.0010	0.0010
108-86-1	Bromobenzene	<0.0010	0.0010
75-27-4	Bromodichloromethane	<0.0010	0.0010
75-25-2	Bromoform	<0.0010	0.0010
74-83-9	Bromomethane	<0.0010	0.0010
56-23-5	Carbon Tetrachloride	<0.0010	0.0010
108-90-7	Chlorobenzene	<0.0010	0.0010
75-00-3	Chloroethane	<0.0010	0.0010
67-66-3	Chloroform	**0.0029**	0.0010
74-87-3	Chloromethane	<0.0010	0.0010
95-49-8	2-Chlorotoluene	<0.0010	0.0010
106-43-4	4-Chlorotoluene	<0.0010	0.0010
124-48-1	Dibromochloromethane	<0.0010	0.0010
74-95-3	Dibromomethane	<0.0010	0.0010
95-50-1	1,2-Dichlorobenzene	<0.0010	0.0010
541-73-1	1,3-Dichlorobenzene	<0.0010	0.0010
106-46-7	1,4-Dichlorobenzene	<0.0010	0.0010
75-71-8	Dichlorodifluoromethane	<0.0010	0.0010
75-34-3	1,1-Dichloroethane	**0.011**	0.0010
107-06-2	1,2-Dichloroethane	<0.0010	0.0010
75-35-4	1,1-Dichloroethene	**0.0023**	0.0010
156-59-2	cis-1,2-Dichloroethene	**0.020**	0.0010
156-60-5	trans-1,2-Dichloroethene	**0.0028**	0.0010
78-87-5	1,2-Dichloropropane	<0.0010	0.0010
142-28-9	1,3-Dichloropropane	<0.0010	0.0010
594-20-7	2,2-Dichloropropane	<0.0010	0.0010
563-58-6	1,1-Dichloropropene	<0.0010	0.0010
10061-01-5	cis-1,3-Dichloropropene	<0.0010	0.0010
10061-02-6	trans-1,3-Dichloropropene	<0.0010	0.0010
100-41-4	Ethylbenzene	<0.0010	0.0010
75-09-2	Methylene Chloride	<0.0050	0.0050

Continued on next page

ANALYTICAL REPORT

Client:	**RMT, Inc. - Ann Arbor Office**	Work Order:	**0908198**
Project:	Tecumseh Products	Description:	Laboratory Services
Client Sample ID:	**509 S. Maumee**	Sampled:	08/11/09 11:33
Lab Sample ID:	**0908198-01**	Sampled By:	John Bacon
Matrix:	Water	Received:	08/12/09 09:00
Unit:	mg/L	Prepared:	08/14/09 By: DLV
Dilution Factor:	1	Analyzed:	08/14/09 By: DLV
QC Batch:	0909334	Analytical Batch:	9H17028

Volatile Organic Compounds in Drinking Water by EPA Method 524.2 (Continued)

CAS Number	Analyte	Analytical Result	RL
100-42-5	Styrene	<0.0010	0.0010
630-20-6	1,1,1,2-Tetrachloroethane	<0.0010	0.0010
79-34-5	1,1,2,2-Tetrachloroethane	<0.0010	0.0010
127-18-4	Tetrachloroethene	<0.0010	0.0010
108-88-3	Toluene	<0.0010	0.0010
120-82-1	1,2,4-Trichlorobenzene	<0.0010	0.0010
*71-55-6	1,1,1-Trichloroethane	**0.27**	0.0010
79-00-5	1,1,2-Trichloroethane	**0.0011**	0.0010
*79-01-6	Trichloroethene	**1.4**	0.0010
75-69-4	Trichlorofluoromethane	<0.0010	0.0010
96-18-4	1,2,3-Trichloropropane	<0.0010	0.0010
75-01-4	Vinyl Chloride	**0.025**	0.0010
1330-20-7	Xylene (Total)	<0.0030	0.0030

Surrogates:	***% Recovery***	***Control Limits***
Dibromofluoromethane	104	*82-118*
1,2-Dichloroethane-d4	103	*75-128*
Toluene-d8	100	*88-108*
4-Bromofluorobenzene	101	*82-114*

*See Statement of Data Qualifications

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ANALYTICAL REPORT

Client:	**RMT, Inc. - Ann Arbor Office**	Work Order:	**0908198**
Project:	Tecumseh Products	Description:	Laboratory Services
Client Sample ID:	**509 S. Maumee**	Sampled:	08/11/09 11:33
Lab Sample ID:	**0908198-01RE1**	Sampled By:	John Bacon
Matrix:	Water	Received:	08/12/09 09:00
Unit:	mg/L	Prepared:	08/17/09 By: DLV
Dilution Factor:	25	Analyzed:	08/17/09 By: DLV
QC Batch:	0909334	Analytical Batch:	9H17034

Volatile Organic Compounds in Drinking Water by EPA Method 524.2

CAS Number	Analyte	Analytical Result	RL
71-43-2	Benzene	<0.025	0.025
108-86-1	Bromobenzene	<0.025	0.025
75-27-4	Bromodichloromethane	<0.025	0.025
75-25-2	Bromoform	<0.025	0.025
74-83-9	Bromomethane	<0.025	0.025
56-23-5	Carbon Tetrachloride	<0.025	0.025
108-90-7	Chlorobenzene	<0.025	0.025
75-00-3	Chloroethane	<0.025	0.025
67-66-3	Chloroform	<0.025	0.025
74-87-3	Chloromethane	<0.025	0.025
95-49-8	2-Chlorotoluene	<0.025	0.025
106-43-4	4-Chlorotoluene	<0.025	0.025
124-48-1	Dibromochloromethane	<0.025	0.025
74-95-3	Dibromomethane	<0.025	0.025
95-50-1	1,2-Dichlorobenzene	<0.025	0.025
541-73-1	1,3-Dichlorobenzene	<0.025	0.025
106-46-7	1,4-Dichlorobenzene	<0.025	0.025
75-71-8	Dichlorodifluoromethane	<0.025	0.025
75-34-3	1,1-Dichloroethane	<0.025	0.025
107-06-2	1,2-Dichloroethane	<0.025	0.025
75-35-4	1,1-Dichloroethene	<0.025	0.025
156-59-2	cis-1,2-Dichloroethene	<0.025	0.025
156-60-5	trans-1,2-Dichloroethene	<0.025	0.025
78-87-5	1,2-Dichloropropane	<0.025	0.025
142-28-9	1,3-Dichloropropane	<0.025	0.025
594-20-7	2,2-Dichloropropane	<0.025	0.025
563-58-6	1,1-Dichloropropene	<0.025	0.025
10061-01-5	cis-1,3-Dichloropropene	<0.025	0.025
10061-02-6	trans-1,3-Dichloropropene	<0.025	0.025
100-41-4	Ethylbenzene	<0.025	0.025
75-09-2	Methylene Chloride	<0.12	0.12

Continued on next page

ANALYTICAL REPORT

Client:	**RMT, Inc. - Ann Arbor Office**	Work Order:	**0908198**
Project:	Tecumseh Products	Description:	Laboratory Services
Client Sample ID:	**509 S. Maumee**	Sampled:	08/11/09 11:33
Lab Sample ID:	**0908198-01RE1**	Sampled By:	John Bacon
Matrix:	Water	Received:	08/12/09 09:00
Unit:	mg/L	Prepared:	08/17/09 By: DLV
Dilution Factor:	25	Analyzed:	08/17/09 By: DLV
QC Batch:	0909334	Analytical Batch:	9H17034

Volatile Organic Compounds in Drinking Water by EPA Method 524.2 (Continued)

CAS Number	Analyte	Analytical Result	RL
100-42-5	Styrene	<0.025	0.025
630-20-6	1,1,1,2-Tetrachloroethane	<0.025	0.025
79-34-5	1,1,2,2-Tetrachloroethane	<0.025	0.025
127-18-4	Tetrachloroethene	<0.025	0.025
108-88-3	Toluene	<0.025	0.025
120-82-1	1,2,4-Trichlorobenzene	<0.025	0.025
71-55-6	1,1,1-Trichloroethane	**0.21**	0.025
79-00-5	1,1,2-Trichloroethane	<0.025	0.025
*79-01-6	Trichloroethene	**1.0**	0.025
75-69-4	Trichlorofluoromethane	<0.025	0.025
96-18-4	1,2,3-Trichloropropane	<0.025	0.025
75-01-4	Vinyl Chloride	<0.025	0.025
1330-20-7	Xylene (Total)	<0.075	0.075

Surrogates:	***% Recovery***	***Control Limits***
Dibromofluoromethane	104	*82-118*
1,2-Dichloroethane-d4	105	*75-128*
Toluene-d8	103	*88-108*
4-Bromofluorobenzene	101	*82-114*

*See Statement of Data Qualifications

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QUALITY CONTROL REPORT

Volatile Organic Compounds in Drinking Water by EPA Method 524.2

Analyte	Sample Conc.	Spike Qty.	Result	Spike % Rec.	Control Limits	RPD	RPD Limits	RL

QC Batch: 0909334 5030B Aqueous Purge & Trap/USEPA-524.2

Method Blank Analyzed: 08/14/2009 By: DLV

Unit: mg/L Analytical Batch: 9H17028

Benzene			<0.0010				0.0010	
Bromobenzene			<0.0010				0.0010	
Bromodichloromethane			<0.0010				0.0010	
Bromoform			<0.0010				0.0010	
Bromomethane			<0.0010				0.0010	
Carbon Tetrachloride			<0.0010				0.0010	
Chlorobenzene			<0.0010				0.0010	
Chloroethane			<0.0010				0.0010	
Chloroform			<0.0010				0.0010	
Chloromethane			<0.0010				0.0010	
2-Chlorotoluene			<0.0010				0.0010	
4-Chlorotoluene			<0.0010				0.0010	
Dibromochloromethane			<0.0010				0.0010	
Dibromomethane			<0.0010				0.0010	
1,2-Dichlorobenzene			<0.0010				0.0010	
1,3-Dichlorobenzene			<0.0010				0.0010	
1,4-Dichlorobenzene			<0.0010				0.0010	
Dichlorodifluoromethane			<0.0010				0.0010	
1,1-Dichloroethane			<0.0010				0.0010	
1,2-Dichloroethane			<0.0010				0.0010	
1,1-Dichloroethene			<0.0010				0.0010	
cis-1,2-Dichloroethene			<0.0010				0.0010	
trans-1,2-Dichloroethene			<0.0010				0.0010	
1,2-Dichloropropane			<0.0010				0.0010	
1,3-Dichloropropane			<0.0010				0.0010	
2,2-Dichloropropane			<0.0010				0.0010	
1,1-Dichloropropene			<0.0010				0.0010	
cis-1,3-Dichloropropene			<0.0010				0.0010	
trans-1,3-Dichloropropene			<0.0010				0.0010	
Ethylbenzene			<0.0010				0.0010	
Methylene Chloride			<0.0050				0.0050	
Styrene			<0.0010				0.0010	
1,1,1,2-Tetrachloroethane			<0.0010				0.0010	
1,1,2,2-Tetrachloroethane			<0.0010				0.0010	
Tetrachloroethene			<0.0010				0.0010	
Toluene			<0.0010				0.0010	

Continued on next page

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QUALITY CONTROL REPORT

Volatile Organic Compounds in Drinking Water by EPA Method 524.2 (Continued)

Analyte	Sample Conc.	Spike Qty.	Result	Spike % Rec.	Control Limits	RPD	RPD Limits	RL

QC Batch: 0909334 (Continued) 5030B Aqueous Purge & Trap/USEPA-524.2

Method Blank (Continued) Analyzed: 08/14/2009 By: DLV
Unit: mg/L Analytical Batch: 9H17028

1,2,4-Trichlorobenzene			<0.0010				0.0010
1,1,1-Trichloroethane			<0.0010				0.0010
1,1,2-Trichloroethane			<0.0010				0.0010
Trichloroethene			<0.0010				0.0010
Trichlorofluoromethane			<0.0010				0.0010
1,2,3-Trichloropropane			<0.0010				0.0010
Vinyl Chloride			<0.0010				0.0010
Xylene (Total)			<0.0030				0.0030

Method Blank Analyzed: 08/14/2009 By: DLV
Unit: ug/L Analytical Batch: 9H17028

Surrogates:							
Dibromofluoromethane				*99*	*82-118*		
1,2-Dichloroethane-d4				*103*	*75-128*		
Toluene-d8				*101*	*88-108*		
4-Bromofluorobenzene				*102*	*82-114*		

Method Blank Analyzed: 08/17/2009 By: DLV
Unit: mg/L Analytical Batch: 9H17034

Benzene			<0.0010				0.0010
Bromobenzene			<0.0010				0.0010
Bromodichloromethane			<0.0010				0.0010
Bromoform			<0.0010				0.0010
Bromomethane			<0.0010				0.0010
Carbon Tetrachloride			<0.0010				0.0010
Chlorobenzene			<0.0010				0.0010
Chloroethane			<0.0010				0.0010
Chloroform			<0.0010				0.0010
Chloromethane			<0.0010				0.0010
2-Chlorotoluene			<0.0010				0.0010
4-Chlorotoluene			<0.0010				0.0010
Dibromochloromethane			<0.0010				0.0010
Dibromomethane			<0.0010				0.0010
1,2-Dichlorobenzene			<0.0010				0.0010
1,3-Dichlorobenzene			<0.0010				0.0010
1,4-Dichlorobenzene			<0.0010				0.0010
Dichlorodifluoromethane			<0.0010				0.0010

Continued on next page

QUALITY CONTROL REPORT

Volatile Organic Compounds in Drinking Water by EPA Method 524.2 (Continued)

Analyte	Sample Conc.	Spike Qty.	Result	Spike % Rec.	Control Limits	RPD	RPD Limits	RL

QC Batch: 0909334 (Continued) 5030B Aqueous Purge & Trap/USEPA-524.2

Method Blank (Continued) Analyzed: 08/17/2009 By: DLV
Unit: mg/L Analytical Batch: 9H17034

1,1-Dichloroethane		<0.0010				0.0010
1,2-Dichloroethane		<0.0010				0.0010
1,1-Dichloroethene		<0.0010				0.0010
cis-1,2-Dichloroethene		<0.0010				0.0010
trans-1,2-Dichloroethene		<0.0010				0.0010
1,2-Dichloropropane		<0.0010				0.0010
1,3-Dichloropropane		<0.0010				0.0010
2,2-Dichloropropane		<0.0010				0.0010
1,1-Dichloropropene		<0.0010				0.0010
cis-1,3-Dichloropropene		<0.0010				0.0010
trans-1,3-Dichloropropene		<0.0010				0.0010
Ethylbenzene		<0.0010				0.0010
Methylene Chloride		<0.0050				0.0050
Styrene		<0.0010				0.0010
1,1,1,2-Tetrachloroethane		<0.0010				0.0010
1,1,2,2-Tetrachloroethane		<0.0010				0.0010
Tetrachloroethene		<0.0010				0.0010
Toluene		<0.0010				0.0010
1,2,4-Trichlorobenzene		<0.0010				0.0010
1,1,1-Trichloroethane		<0.0010				0.0010
1,1,2-Trichloroethane		<0.0010				0.0010
Trichloroethene		<0.0010				0.0010
Trichlorofluoromethane		<0.0010				0.0010
1,2,3-Trichloropropane		<0.0010				0.0010
Vinyl Chloride		<0.0010				0.0010
Xylene (Total)		<0.0030				0.0030

Method Blank Analyzed: 08/17/2009 By: DLV
Unit: ug/L Analytical Batch: 9H17034

Surrogates:				
Dibromofluoromethane		*104*	*82-118*	
1,2-Dichloroethane-d4		*105*	*75-128*	
Toluene-d8		*104*	*88-108*	
4-Bromofluorobenzene		*100*	*82-114*	

Laboratory Control Sample Analyzed: 08/14/2009 By: DLV
Unit: mg/L Analytical Batch: 9H17028

Benzene	0.0100	**0.0118**	118	70-130		0.0010

Continued on next page

QUALITY CONTROL REPORT

Volatile Organic Compounds in Drinking Water by EPA Method 524.2 (Continued)

QC Batch: 0909334 (Continued) 5030B Aqueous Purge & Trap/USEPA-524.2

Laboratory Control Sample (Continued) Analyzed: 08/14/2009 By: DLV

Unit: mg/L Analytical Batch: 9H17028

Analyte	Sample Conc.	Spike Qty.	Result	Spike % Rec.	Control Limits	RPD	RPD Limits	RL
Bromobenzene		0.0100	**0.0121**	121	70-130			0.0010
Bromodichloromethane		0.0100	**0.0114**	114	70-130			0.0010
Bromoform		0.0100	**0.0105**	105	70-130			0.0010
Bromomethane		0.0100	**0.0112**	112	70-130			0.0010
Carbon Tetrachloride		0.0100	**0.0111**	111	70-130			0.0010
Chlorobenzene		0.0100	**0.0112**	112	70-130			0.0010
Chloroethane		0.0100	**0.00916**	92	70-130			0.0010
Chloroform		0.0100	**0.0110**	110	70-130			0.0010
Chloromethane		0.0100	**0.00958**	96	70-130			0.0010
2-Chlorotoluene		0.0100	**0.0115**	115	70-130			0.0010
4-Chlorotoluene		0.0100	**0.0122**	122	70-130			0.0010
Dibromochloromethane		0.0100	**0.0116**	116	70-130			0.0010
Dibromomethane		0.0100	**0.0108**	108	70-130			0.0010
1,2-Dichlorobenzene		0.0100	**0.0112**	112	70-130			0.0010
1,3-Dichlorobenzene		0.0100	**0.0108**	108	70-130			0.0010
1,4-Dichlorobenzene		0.0100	**0.0107**	107	70-130			0.0010
Dichlorodifluoromethane		0.0100	**0.00918**	92	70-130			0.0010
1,1-Dichloroethane		0.0100	**0.0118**	118	70-130			0.0010
1,2-Dichloroethane		0.0100	**0.0111**	111	70-130			0.0010
1,1-Dichloroethene		0.0100	**0.00949**	95	70-130			0.0010
cis-1,2-Dichloroethene		0.0100	**0.0105**	105	70-130			0.0010
trans-1,2-Dichloroethene		0.0100	**0.0109**	109	70-130			0.0010
1,2-Dichloropropane		0.0100	**0.0122**	122	70-130			0.0010
1,3-Dichloropropane		0.0100	**0.0125**	125	70-130			0.0010
2,2-Dichloropropane		0.0100	**0.00986**	99	70-130			0.0010
1,1-Dichloropropene		0.0100	**0.0119**	119	70-130			0.0010
cis-1,3-Dichloropropene		0.0100	**0.0111**	111	70-130			0.0010
trans-1,3-Dichloropropene		0.0100	**0.0110**	110	70-130			0.0010
Ethylbenzene		0.0100	**0.0118**	118	70-130			0.0010
Methylene Chloride		0.0100	**0.0113**	113	70-130			0.0050
Styrene		0.0100	**0.0109**	109	70-130			0.0010
1,1,1,2-Tetrachloroethane		0.0100	**0.0115**	115	70-130			0.0010
1,1,2,2-Tetrachloroethane		0.0100	**0.0130**	130	70-130			0.0010
Tetrachloroethene		0.0100	**0.0107**	107	70-130			0.0010
Toluene		0.0100	**0.0113**	113	70-130			0.0010
1,2,4-Trichlorobenzene		0.0100	**0.0104**	104	70-130			0.0010

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QUALITY CONTROL REPORT

Volatile Organic Compounds in Drinking Water by EPA Method 524.2 (Continued)

Analyte	Sample Conc.	Spike Qty.	Result	Spike % Rec.	Control Limits	RPD	RPD Limits	RL

QC Batch: 0909334 (Continued) 5030B Aqueous Purge & Trap/USEPA-524.2

Laboratory Control Sample (Continued) Analyzed: 08/14/2009 By: DLV
Unit: mg/L Analytical Batch: 9H17028

1,1,1-Trichloroethane	0.0100	**0.0113**	113	70-130		0.0010
1,1,2-Trichloroethane	0.0100	**0.0118**	118	70-130		0.0010
Trichloroethene	0.0100	**0.0109**	109	70-130		0.0010
Trichlorofluoromethane	0.0100	**0.00979**	98	70-130		0.0010
1,2,3-Trichloropropane	0.0100	**0.0125**	125	70-130		0.0010
Vinyl Chloride	0.0100	**0.0102**	102	70-130		0.0010
Xylene (Total)	0.0300	**0.0347**	116	70-130		0.0030

Laboratory Control Sample Analyzed: 08/14/2009 By: DLV
Unit: ug/L Analytical Batch: 9H17028

Surrogates:		
Dibromofluoromethane	*98*	*82-118*
1,2-Dichloroethane-d4	*98*	*75-128*
Toluene-d8	*101*	*88-108*
4-Bromofluorobenzene	*108*	*82-114*

Laboratory Control Sample Analyzed: 08/17/2009 By: DLV
Unit: mg/L Analytical Batch: 9H17034

Benzene	0.0100	**0.0112**	112	70-130		0.0010
Bromobenzene	0.0100	**0.0113**	113	70-130		0.0010
Bromodichloromethane	0.0100	**0.0116**	116	70-130		0.0010
Bromoform	0.0100	**0.0111**	111	70-130		0.0010
Bromomethane	0.0100	**0.0105**	105	70-130		0.0010
Carbon Tetrachloride	0.0100	**0.0115**	115	70-130		0.0010
Chlorobenzene	0.0100	**0.0105**	105	70-130		0.0010
Chloroethane	0.0100	**0.00889**	89	70-130		0.0010
Chloroform	0.0100	**0.0109**	109	70-130		0.0010
Chloromethane	0.0100	**0.00961**	96	70-130		0.0010
2-Chlorotoluene	0.0100	**0.0107**	107	70-130		0.0010
4-Chlorotoluene	0.0100	**0.0114**	114	70-130		0.0010
Dibromochloromethane	0.0100	**0.0114**	114	70-130		0.0010
Dibromomethane	0.0100	**0.0106**	106	70-130		0.0010
1,2-Dichlorobenzene	0.0100	**0.0103**	103	70-130		0.0010
1,3-Dichlorobenzene	0.0100	**0.0103**	103	70-130		0.0010
1,4-Dichlorobenzene	0.0100	**0.0101**	101	70-130		0.0010
Dichlorodifluoromethane	0.0100	**0.00961**	96	70-130		0.0010
1,1-Dichloroethane	0.0100	**0.0114**	114	70-130		0.0010

Continued on next page

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QUALITY CONTROL REPORT

Volatile Organic Compounds in Drinking Water by EPA Method 524.2 (Continued)

Analyte	Sample Conc.	Spike Qty.	Result	Spike % Rec.	Control Limits	RPD	RPD Limits	RL
QC Batch: 0909334 (Continued) 5030B Aqueous Purge & Trap/USEPA-524.2								
Laboratory Control Sample (Continued)						Analyzed:	08/17/2009	By: DLV
Unit: mg/L						Analytical Batch:	9H17034	
1,2-Dichloroethane		0.0100	**0.0107**	107	70-130			0.0010
1,1-Dichloroethene		0.0100	**0.00895**	90	70-130			0.0010
cis-1,2-Dichloroethene		0.0100	**0.0102**	102	70-130			0.0010
trans-1,2-Dichloroethene		0.0100	**0.0105**	105	70-130			0.0010
1,2-Dichloropropane		0.0100	**0.0119**	119	70-130			0.0010
1,3-Dichloropropane		0.0100	**0.0113**	113	70-130			0.0010
2,2-Dichloropropane		0.0100	**0.0129**	129	70-130			0.0010
1,1-Dichloropropene		0.0100	**0.0109**	109	70-130			0.0010
cis-1,3-Dichloropropene		0.0100	**0.0115**	115	70-130			0.0010
trans-1,3-Dichloropropene		0.0100	**0.0116**	116	70-130			0.0010
Ethylbenzene		0.0100	**0.0109**	109	70-130			0.0010
Methylene Chloride		0.0100	**0.0109**	109	70-130			0.0050
Styrene		0.0100	**0.0101**	101	70-130			0.0010
1,1,1,2-Tetrachloroethane		0.0100	**0.0111**	111	70-130			0.0010
1,1,2,2-Tetrachloroethane		0.0100	**0.0121**	121	70-130			0.0010
Tetrachloroethene		0.0100	**0.00990**	99	70-130			0.0010
Toluene		0.0100	**0.0108**	108	70-130			0.0010
1,2,4-Trichlorobenzene		0.0100	**0.0100**	100	70-130			0.0010
1,1,1-Trichloroethane		0.0100	**0.0112**	112	70-130			0.0010
1,1,2-Trichloroethane		0.0100	**0.0110**	110	70-130			0.0010
Trichloroethene		0.0100	**0.0104**	104	70-130			0.0010
Trichlorofluoromethane		0.0100	**0.00981**	98	70-130			0.0010
1,2,3-Trichloropropane		0.0100	**0.0123**	123	70-130			0.0010
Vinyl Chloride		0.0100	**0.0101**	101	70-130			0.0010
Xylene (Total)		0.0300	**0.0318**	106	70-130			0.0030
Laboratory Control Sample						Analyzed:	08/17/2009	By: DLV
Unit: ug/L						Analytical Batch:	9H17034	
Surrogates:								
Dibromofluoromethane				*100*	*82-118*			
1,2-Dichloroethane-d4				*101*	*75-128*			
Toluene-d8				*101*	*88-108*			
4-Bromofluorobenzene				*107*	*82-114*			
Matrix Spike 0908198-01RE1 509 S. Maumee						Analyzed:	08/17/2009	By: DLV
Unit: mg/L						Analytical Batch:	9H17034	
Benzene	<0.025	0.250	**0.275**	110	70-130			0.025

Continued on next page

QUALITY CONTROL REPORT

Volatile Organic Compounds in Drinking Water by EPA Method 524.2 (Continued)

QC Batch: 0909334 (Continued) 5030B Aqueous Purge & Trap/USEPA-524.2

Matrix Spike (Continued) 0908198-01RE1 509 S. Maumee — Analyzed: 08/17/2009 By: DLV

Unit: mg/L — Analytical Batch: 9H17034

Analyte	Sample Conc.	Spike Qty.	Result	Spike % Rec.	Control Limits	RPD	RPD Limits	RL
Bromobenzene	0.00450	0.250	**0.270**	106	70-130			0.025
Bromodichloromethane	<0.025	0.250	**0.271**	108	70-130			0.025
Bromoform	<0.025	0.250	**0.251**	100	70-130			0.025
Bromomethane	<0.025	0.250	**0.236**	94	70-130			0.025
Carbon Tetrachloride	<0.025	0.250	**0.264**	106	70-130			0.025
Chlorobenzene	<0.025	0.250	**0.253**	101	70-130			0.025
Chloroethane	<0.025	0.250	**0.216**	87	70-130			0.025
Chloroform	<0.025	0.250	**0.260**	104	70-130			0.025
Chloromethane	<0.025	0.250	**0.226**	90	70-130			0.025
2-Chlorotoluene	<0.025	0.250	**0.253**	101	70-130			0.025
4-Chlorotoluene	<0.025	0.250	**0.270**	108	70-130			0.025
Dibromochloromethane	<0.025	0.250	**0.264**	105	70-130			0.025
Dibromomethane	<0.025	0.250	**0.254**	102	70-130			0.025
1,2-Dichlorobenzene	<0.025	0.250	**0.244**	98	70-130			0.025
1,3-Dichlorobenzene	<0.025	0.250	**0.242**	97	70-130			0.025
1,4-Dichlorobenzene	<0.025	0.250	**0.238**	95	70-130			0.025
Dichlorodifluoromethane	<0.025	0.250	**0.228**	91	70-130			0.025
1,1-Dichloroethane	0.0115	0.250	**0.278**	107	70-130			0.025
1,2-Dichloroethane	<0.025	0.250	**0.256**	102	70-130			0.025
1,1-Dichloroethene	<0.025	0.250	**0.213**	85	70-130			0.025
cis-1,2-Dichloroethene	0.0205	0.250	**0.260**	96	70-130			0.025
trans-1,2-Dichloroethene	0.00425	0.250	**0.250**	98	70-130			0.025
1,2-Dichloropropane	<0.025	0.250	**0.282**	113	70-130			0.025
1,3-Dichloropropane	<0.025	0.250	**0.275**	110	70-130			0.025
2,2-Dichloropropane	<0.025	0.250	**0.274**	110	70-130			0.025
1,1-Dichloropropene	<0.025	0.250	**0.265**	106	70-130			0.025
cis-1,3-Dichloropropene	<0.025	0.250	**0.267**	107	70-130			0.025
trans-1,3-Dichloropropene	<0.025	0.250	**0.266**	107	70-130			0.025
Ethylbenzene	<0.025	0.250	**0.263**	105	70-130			0.025
Methylene Chloride	<0.12	0.250	**0.266**	107	70-130			0.12
Styrene	<0.025	0.250	**0.244**	98	70-130			0.025
1,1,1,2-Tetrachloroethane	<0.025	0.250	**0.263**	105	70-130			0.025
1,1,2,2-Tetrachloroethane	<0.025	0.250	**0.288**	115	70-130			0.025
Tetrachloroethene	<0.025	0.250	**0.234**	94	70-130			0.025
Toluene	<0.025	0.250	**0.260**	104	70-130			0.025
1,2,4-Trichlorobenzene	<0.025	0.250	**0.228**	91	70-130			0.025

Continued on next page

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QUALITY CONTROL REPORT

Volatile Organic Compounds in Drinking Water by EPA Method 524.2 (Continued)

Analyte	Sample Conc.	Spike Qty.	Result	Spike % Rec.	Control Limits	RPD	RPD Limits	RL
QC Batch: 0909334 (Continued) 5030B Aqueous Purge & Trap/USEPA-524.2								
Matrix Spike (Continued) 0908198-01RE1 509 S. Maumee					Analyzed:	08/17/2009	By: DLV	
Unit: mg/L					Analytical Batch:	9H17034		
1,1,1-Trichloroethane	0.208	0.250	**0.446**	95	70-130			0.025
1,1,2-Trichloroethane	<0.025	0.250	**0.278**	111	70-130			0.025
Trichloroethene	1.01	0.250	**1.17**	**61**	70-130			0.025
Trichlorofluoromethane	<0.025	0.250	**0.232**	93	70-130			0.025
1,2,3-Trichloropropane	<0.025	0.250	**0.282**	113	70-130			0.025
Vinyl Chloride	<0.025	0.250	**0.257**	103	70-130			0.025
Xylene (Total)	<0.075	0.750	**0.766**	102	70-130			0.075
Matrix Spike 0908198-01RE1 509 S. Maumee					Analyzed:	08/17/2009	By: DLV	
Unit: ug/L					Analytical Batch:	9H17034		
Surrogates:								
Dibromofluoromethane				*98*	*82-118*			
1,2-Dichloroethane-d4				*100*	*75-128*			
Toluene-d8				*101*	*88-108*			
4-Bromofluorobenzene				*108*	*82-114*			
Matrix Spike Duplicate 0908198-01RE1 509 S. Maumee					Analyzed:	08/17/2009	By: DLV	
Unit: mg/L					Analytical Batch:	9H17034		
Benzene	<0.025	0.250	**0.273**	109	70-130	0.8	20	0.025
Bromobenzene	0.00450	0.250	**0.273**	108	70-130	1	20	0.025
Bromodichloromethane	<0.025	0.250	**0.271**	108	70-130	0.09	20	0.025
Bromoform	<0.025	0.250	**0.255**	102	70-130	1	20	0.025
Bromomethane	<0.025	0.250	**0.243**	97	70-130	3	20	0.025
Carbon Tetrachloride	<0.025	0.250	**0.266**	107	70-130	0.9	20	0.025
Chlorobenzene	<0.025	0.250	**0.251**	100	70-130	0.9	20	0.025
Chloroethane	<0.025	0.250	**0.213**	85	70-130	2	20	0.025
Chloroform	<0.025	0.250	**0.262**	105	70-130	0.8	20	0.025
Chloromethane	<0.025	0.250	**0.222**	89	70-130	2	20	0.025
2-Chlorotoluene	<0.025	0.250	**0.252**	101	70-130	0.6	20	0.025
4-Chlorotoluene	<0.025	0.250	**0.268**	107	70-130	0.5	20	0.025
Dibromochloromethane	<0.025	0.250	**0.258**	103	70-130	2	20	0.025
Dibromomethane	<0.025	0.250	**0.256**	102	70-130	0.4	20	0.025
1,2-Dichlorobenzene	<0.025	0.250	**0.244**	97	70-130	0.2	20	0.025
1,3-Dichlorobenzene	<0.025	0.250	**0.245**	98	70-130	1	20	0.025
1,4-Dichlorobenzene	<0.025	0.250	**0.236**	94	70-130	0.6	20	0.025
Dichlorodifluoromethane	<0.025	0.250	**0.230**	92	70-130	0.7	20	0.025
1,1-Dichloroethane	0.0115	0.250	**0.278**	106	70-130	0.2	20	0.025

Continued on next page

QUALITY CONTROL REPORT

Volatile Organic Compounds in Drinking Water by EPA Method 524.2 (Continued)

QC Batch: 0909334 (Continued) 5030B Aqueous Purge & Trap/USEPA-524.2

Matrix Spike Duplicate (Continued) 0908198-01RE1 509 S. Maumee — Analyzed: 08/17/2009 By: DLV

Unit: mg/L — Analytical Batch: 9H17034

Analyte	Sample Conc.	Spike Qty.	Result	Spike % Rec.	Control Limits	RPD	RPD Limits	RL
1,2-Dichloroethane	<0.025	0.250	**0.260**	104	70-130	2	20	0.025
1,1-Dichloroethene	<0.025	0.250	**0.216**	86	70-130	1	20	0.025
cis-1,2-Dichloroethene	0.0205	0.250	**0.260**	96	70-130	0.3	20	0.025
trans-1,2-Dichloroethene	0.00425	0.250	**0.248**	97	70-130	0.8	20	0.025
1,2-Dichloropropane	<0.025	0.250	**0.286**	114	70-130	1	20	0.025
1,3-Dichloropropane	<0.025	0.250	**0.275**	110	70-130	0.2	20	0.025
2,2-Dichloropropane	<0.025	0.250	**0.286**	114	70-130	4	20	0.025
1,1-Dichloropropene	<0.025	0.250	**0.262**	105	70-130	1	20	0.025
cis-1,3-Dichloropropene	<0.025	0.250	**0.262**	105	70-130	2	20	0.025
trans-1,3-Dichloropropene	<0.025	0.250	**0.267**	107	70-130	0.3	20	0.025
Ethylbenzene	<0.025	0.250	**0.259**	104	70-130	2	20	0.025
Methylene Chloride	<0.12	0.250	**0.262**	105	70-130	2	20	0.12
Styrene	<0.025	0.250	**0.240**	96	70-130	2	20	0.025
1,1,1,2-Tetrachloroethane	<0.025	0.250	**0.252**	101	70-130	4	20	0.025
1,1,2,2-Tetrachloroethane	<0.025	0.250	**0.294**	117	70-130	2	20	0.025
Tetrachloroethene	<0.025	0.250	**0.231**	92	70-130	1	20	0.025
Toluene	<0.025	0.250	**0.254**	101	70-130	3	20	0.025
1,2,4-Trichlorobenzene	<0.025	0.250	**0.236**	94	70-130	3	20	0.025
1,1,1-Trichloroethane	0.208	0.250	**0.449**	97	70-130	0.7	20	0.025
1,1,2-Trichloroethane	<0.025	0.250	**0.272**	109	70-130	2	20	0.025
Trichloroethene	1.01	0.250	**1.15**	**55**	70-130	1	20	0.025
Trichlorofluoromethane	<0.025	0.250	**0.228**	91	70-130	2	20	0.025
1,2,3-Trichloropropane	<0.025	0.250	**0.283**	113	70-130	0.4	20	0.025
Vinyl Chloride	<0.025	0.250	**0.256**	102	70-130	0.5	20	0.025
Xylene (Total)	<0.075	0.750	**0.749**	100	70-130	2	20	0.075

Matrix Spike Duplicate 0908198-01RE1 509 S. Maumee — Analyzed: 08/17/2009 By: DLV

Unit: ug/L — Analytical Batch: 9H17034

Surrogates:		
Dibromofluoromethane	*102*	*82-118*
1,2-Dichloroethane-d4	*100*	*75-128*
Toluene-d8	*102*	*88-108*
4-Bromofluorobenzene	*108*	*82-114*

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STATEMENT OF DATA QUALIFICATIONS

Volatile Organic Compounds in Drinking Water by EPA Method 524.2

Qualification: The result for this analyte was above the linear range of the initial calibration curve and must be considered as estimated.

Analysis: USEPA-524.2

Sample/Analyte:			
	0908198-01	509 S. Maumee	1,1,1-Trichloroethane
	0908198-01	509 S. Maumee	Trichloroethene

Qualification: The MS and/or MSD recovery was outside the control limit. The non-spiked sample result is considered estimated.

Analysis: USEPA-524.2

Sample/Analyte:			
	0908198-01RE1	509 S. Maumee	Trichloroethene

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TriMatrix Laboratories, Inc.

5560 Corporate Exchange Court SE Grand Rapids, MI 49512
Phone (616) 975-4500 Fax (616) 942-7463
www.trimatrixlabs.com

Chain of Custody Record

COC No. 130062

Page 1 of 1

For Lab Use Only

Cart:

VOA Rack/Tray: 718 W

Receipt Log No.: 23-7

Project Chemist: E-0908198

Laboratory Project No.: (W) ELR

Client Name: RMT, Inc

Address: 3754 RANCHERO DR.
ANN ARBOR, MI 48108

Phone 734 971 7080 x7154
Fax 734 971 9022

Project Name: TPC-TECUMSEH

Client Project No./P.O. No.: 00-08070.02

Invoice No. ☒ Client ☐ Other (comments)

Contact/Report To: J. BACON

Analyses Requested

VOC's by EPA 524.2 (DW)

Container Type (corresponds to Container Packing List)

PRESERVATIVES
A NONE pH~7
B HNO_3 pH<2
C H_2SO_4 pH<2
D 1+1 HCl pH<2
E NaOH pH>12
F ZnAc/NaOH pH>9
G MeOH
H Other (note below)

	Test Group	Matrix Code	Laboratory Sample Number	Sample ID	Cooler ID	Sample Date	Sample Time	COMP	GRAB	Matrix	Number of Containers Submitted	Total	Sample Comments
1	02		01	509 S. MAUMEE	THA65	8/11/09	11:33A			W	4	4	
2													
3													
4													
5													
6													
7													
8													
9													
10													

Sampled By (print): JOHN A BACON

Sampler's Signature:

Company: RMT, Inc

How Shipped? Hand (Carrier)

Tracking No.

Comments: 1 week TAT please. Thanks, John

	Relinquished By	Date	Time	Received By	Date	Time
1		8/11/09	13:06			
2						
3					8/12/09	0900

TriMatrixCOC_COC WHITE COPY - REPORT YELLOW COPY - LABORATORY PINK COPY - FIELD

TriMatrix Laboratories, Inc.

SAMPLE RECEIVING / LOG-IN CHECKLIST

Client: KMT Inc	Project Submittal No.: new / add to 090F198
Receipt Record Page/Line No.: 23-7	Project Chemist / Sample Nos.

Coolers Received

Recorded by (initials/date)	Container	Qty Received	Thermometer Used
LR 8/12/09	☑ Cooler ☐ Box ☐ Other ____	1	☑ IR Gun (#202) ☐ Digital Thermometer (#54) ☐ Other (#____) ☐ See Additional Cooler Information Form

	Cooler 1	Cooler 2	Cooler 3	Cooler 4
Cooler No. / Time	1965 / 0954			
Custody Seals	☑ none ☐ present / intact ☐ present / not intact	☐ none ☐ present / intact ☐ present / not intact	☐ none ☐ present / intact ☐ present / not intact	☐ none ☐ present / intact ☐ present / not intact
Coolant Location	(Dispersed) / Top / Middle / Bottom	Dispersed / Top / Middle / Bottom	Dispersed / Top / Middle / Bottom	Dispersed / Top / Middle / Bottom
Coolant / Temperature Taken Via	☑ loose ice / avg 2-3 containers ☐ bagged ice / avg 2-3 containers ☐ blue ice / avg 2-3 containers ■ none / avg 2-3 containers	☐ loose ice / avg 2-3 containers ☐ bagged ice / avg 2-3 containers ☐ blue ice / avg 2-3 containers ■ none / avg 2-3 containers	☐ loose ice / avg 2-3 containers ☐ bagged ice / avg 2-3 containers ☐ blue ice / avg 2-3 containers ■ none / avg 2-3 containers	☐ loose ice / avg 2-3 containers ☐ bagged ice / avg 2-3 containers ☐ blue ice / avg 2-3 containers ■ none / avg 2-3 containers
Alternate Temperature Taken Via	☐ temperature blank (tb) ☐ 1 container	☐ temperature blank (tb) ☐ 1 container	☐ temperature blank (tb) ☐ 1 container	☐ temperature blank (tb) ☐ 1 container

Cooler 1	Recorded °C	Correction Factor °C	Actual °C
tb			
tb location: representative / in ice			
1	9.2	–	9.2
2	9.3	–	9.3
3	12.4	–	12.4
Average °C			10.3

Coolers 2–4: Recorded °C / Correction Factor °C / Actual °C; tb; tb location: representative / in ice; 1; 2; 3; Average °C (blank)

Each cooler: ☐ Cooler ID on COC? ☐ VOC trip blank received?

If any shaded areas checked, complete Sample Receiving Non-Conformance Form

Paperwork Received

☐ No COC received

N/A	Yes	No	
	☑	☐	**Chain of Custody Record(s)?**
	☐		If No, COC initiated by ____
	☑		Rec'd for Lab signed/date/time?
☐	☑		Shipping Document?
☑	☐		Other ____

COC ID Nos.

☑ TriMatrix 130062

☐ Other (name or ID#) ____

Check COC for Accuracy

☐ No analysis requested

Yes	No	
☑	■	Sample ID matches COC?
☑	■	Sample date and time matches COC?
☑		Container type completed on COC?
☑	■	All container types indicated are received?

Sample Condition Summary

☐ Non-TriMatrix containers, see Notes

N/A	Yes	No	
	■	☑	Broken containers/lids?
	■	☑	Missing or incomplete labels?
	■	☑	Illegible information on labels?
	■	☑	Low volume received?
	■	☑	Inappropriate containers received?
☐	■	☑	VOC vials / TOX containers have headspace?
☑	■	☐	Extra sample locations / containers not listed on COC?

Check Sample Preservation

N/A	Yes	No	
	☐	■ ☑	Average sample temperature ≤6° C?
☑	☐		Completed Sample Preservation Verification Form?
☑	☐	■	Samples preserved correctly?
☑	☐		If "No", added orange tag?
☑	☐		Received pre-preserved VOC soils?

☐ MeOH ☐ Na_2SO_4

Check for Short Hold-Time Prep/Analyses

- ☐ Bacteriological
- ☐ Air Bags
- ☐ EnCores / Methanol Pre-Preserved
- ☐ Formaldehyde/Aldehyde
- ☐ Green-tagged Containers
- ☐ Yellow/White-tagged 1L Ambers (SV Prep-Lab)

AFTER HOURS ONLY:
COPIES OF COC TO LAB AREA(S) LR 8/12/09
☑ NONE RECEIVED
☑ RECEIVED, COCs TO LAB(S)

Notes

☐ Trip blank received ☐ Trip blank not listed on COC

☐ No COC received, Proj. Chemist reviewed (init./date) ____

☐ No analysis requested, Proj. Chemist completed (init./date) ____

Cooler Received (Date/Time)	Paperwork Delivered (Date/Time)	≤1 Hour Goal Met?
8/12/09 0900	8/12/09 0956	(Yes) / No

Appendix H
Laboratory Data – RMT Subsurface Investigation

March 11, 2009

RMT, Inc. - Ann Arbor Office
Attn: John Bacon
3754 Ranchero Drive
Ann Arbor, MI 48108-2771

Project: Tecumseh Products

Dear John Bacon,

Enclosed is a copy of the laboratory report, comprised of the following work order(s), for test samples received by TriMatrix Laboratories:

Work Order	Received	Description
0903132	03/10/2009	Laboratory Services

This report relates only to the sample(s), as received. Test results are in compliance with the requirements of the National Environmental Laboratory Accreditation Conference (NELAC). Any qualifications of results, including sample acceptance requirements, are explained in the Statement of Data Qualifications.

Estimates of analytical uncertainties for the test results contained within this report are available upon request.

If you have any questions or require further information, please do not hesitate to contact me.

Sincerely,

Jennifer L. Rice
Project Chemist

Enclosures(s)

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ANALYTICAL REPORT

Client:	**RMT, Inc. - Ann Arbor Office**	Work Order:	**0903132**
Project:	Tecumseh Products	Description:	Laboratory Services
Client Sample ID:	**B-1 (46'-50')**	Sampled:	03/09/09 11:07
Lab Sample ID:	**0903132-01**	Sampled By:	S. Middlebrook
Matrix:	Water	Received:	03/10/09 09:30
Unit:	ug/L	Prepared:	03/10/09 By: JDM
Dilution Factor:	1	Analyzed:	03/10/09 By: JDM
QC Batch:	0902882	Analytical Batch:	9031047

Volatile Organic Compounds by EPA Method 8260B

CAS Number	Analyte	Analytical Result	RL
67-64-1	Acetone	<20	20
107-13-1	Acrylonitrile	<2.0	2.0
71-43-2	Benzene	<1.0	1.0
108-86-1	Bromobenzene	<1.0	1.0
74-97-5	Bromochloromethane	<1.0	1.0
75-27-4	Bromodichloromethane	<1.0	1.0
75-25-2	Bromoform	<1.0	1.0
74-83-9	Bromomethane	<5.0	5.0
104-51-8	n-Butylbenzene	<1.0	1.0
135-98-8	sec-Butylbenzene	<1.0	1.0
98-06-6	tert-Butylbenzene	<1.0	1.0
75-15-0	Carbon Disulfide	<1.0	1.0
56-23-5	Carbon Tetrachloride	<1.0	1.0
108-90-7	Chlorobenzene	<1.0	1.0
75-00-3	Chloroethane	<5.0	5.0
67-66-3	Chloroform	<1.0	1.0
74-87-3	Chloromethane	<5.0	5.0
96-12-8	1,2-Dibromo-3-chloropropane	<5.0	5.0
124-48-1	Dibromochloromethane	<1.0	1.0
106-93-4	1,2-Dibromoethane	<1.0	1.0
74-95-3	Dibromomethane	<1.0	1.0
110-57-6	trans-1,4-Dichloro-2-butene	<1.0	1.0
95-50-1	1,2-Dichlorobenzene	<1.0	1.0
541-73-1	1,3-Dichlorobenzene	<1.0	1.0
106-46-7	1,4-Dichlorobenzene	<1.0	1.0
75-71-8	Dichlorodifluoromethane	<5.0	5.0
75-34-3	1,1-Dichloroethane	<1.0	1.0
107-06-2	1,2-Dichloroethane	<1.0	1.0
75-35-4	1,1-Dichloroethene	<1.0	1.0
156-59-2	cis-1,2-Dichloroethene	<1.0	1.0
156-60-5	trans-1,2-Dichloroethene	<1.0	1.0

Continued on next page

ANALYTICAL REPORT

Client:	**RMT, Inc. - Ann Arbor Office**	Work Order:	**0903132**
Project:	Tecumseh Products	Description:	Laboratory Services
Client Sample ID:	**B-1 (46'-50')**	Sampled:	03/09/09 11:07
Lab Sample ID:	**0903132-01**	Sampled By:	S. Middlebrook
Matrix:	Water	Received:	03/10/09 09:30
Unit:	ug/L	Prepared:	03/10/09 By: JDM
Dilution Factor:	1	Analyzed:	03/10/09 By: JDM
QC Batch:	0902882	Analytical Batch:	9031047

Volatile Organic Compounds by EPA Method 8260B (Continued)

CAS Number	Analyte	Analytical Result	RL
78-87-5	1,2-Dichloropropane	<1.0	1.0
10061-01-5	cis-1,3-Dichloropropene	<1.0	1.0
10061-02-6	trans-1,3-Dichloropropene	<1.0	1.0
100-41-4	Ethylbenzene	<1.0	1.0
60-29-7	Ethyl Ether	<5.0	5.0
591-78-6	2-Hexanone	<5.0	5.0
74-88-4	Iodomethane	<1.0	1.0
98-82-8	Isopropylbenzene	<1.0	1.0
99-87-6	4-Isopropyltoluene	<5.0	5.0
1634-04-4	Methyl tert-Butyl Ether	<5.0	5.0
75-09-2	Methylene Chloride	<5.0	5.0
78-93-3	2-Butanone (MEK)	<5.0	5.0
91-57-6	2-Methylnaphthalene	<5.0	5.0
108-10-1	4-Methyl-2-pentanone (MIBK)	<5.0	5.0
91-20-3	Naphthalene	<5.0	5.0
103-65-1	n-Propylbenzene	<1.0	1.0
100-42-5	Styrene	<1.0	1.0
630-20-6	1,1,1,2-Tetrachloroethane	<1.0	1.0
79-34-5	1,1,2,2-Tetrachloroethane	<1.0	1.0
127-18-4	Tetrachloroethene	<1.0	1.0
109-99-9	Tetrahydrofuran	<5.0	5.0
108-88-3	Toluene	**4.2**	1.0
87-61-6	1,2,3-Trichlorobenzene	<5.0	5.0
120-82-1	1,2,4-Trichlorobenzene	<5.0	5.0
71-55-6	1,1,1-Trichloroethane	<1.0	1.0
79-00-5	1,1,2-Trichloroethane	<1.0	1.0
79-01-6	Trichloroethene	**6.8**	1.0
75-69-4	Trichlorofluoromethane	<1.0	1.0
96-18-4	1,2,3-Trichloropropane	<1.0	1.0
95-63-6	1,2,4-Trimethylbenzene	<1.0	1.0
108-67-8	1,3,5-Trimethylbenzene	<1.0	1.0

Continued on next page

ANALYTICAL REPORT

Client:	**RMT, Inc. - Ann Arbor Office**	Work Order:	**0903132**
Project:	Tecumseh Products	Description:	Laboratory Services
Client Sample ID:	**B-1 (46'-50')**	Sampled:	03/09/09 11:07
Lab Sample ID:	**0903132-01**	Sampled By:	S. Middlebrook
Matrix:	Water	Received:	03/10/09 09:30
Unit:	ug/L	Prepared:	03/10/09 By: JDM
Dilution Factor:	1	Analyzed:	03/10/09 By: JDM
QC Batch:	0902882	Analytical Batch:	9031047

Volatile Organic Compounds by EPA Method 8260B (Continued)

CAS Number	Analyte	Analytical Result	RL
75-01-4	Vinyl Chloride	**5.0**	1.0
136777-61-2	Xylene, Meta + Para	<2.0	2.0
95-47-6	Xylene, Ortho	<1.0	1.0

Surrogates:	*% Recovery*	*Control Limits*
Dibromofluoromethane	104	*88-115*
1,2-Dichloroethane-d4	101	*81-116*
Toluene-d8	102	*87-113*
4-Bromofluorobenzene	101	*78-116*

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ANALYTICAL REPORT

Client:	**RMT, Inc. - Ann Arbor Office**	Work Order:	**0903132**
Project:	Tecumseh Products	Description:	Laboratory Services
Client Sample ID:	**B-1 (26'-30')**	Sampled:	03/09/09 11:57
Lab Sample ID:	**0903132-02**	Sampled By:	S. Middlebrook
Matrix:	Water	Received:	03/10/09 09:30
Unit:	ug/L	Prepared:	03/10/09 By: JDM
Dilution Factor:	1	Analyzed:	03/10/09 By: JDM
QC Batch:	0902882	Analytical Batch:	9031047

Volatile Organic Compounds by EPA Method 8260B

CAS Number	Analyte	Analytical Result	RL
67-64-1	Acetone	<20	20
107-13-1	Acrylonitrile	<2.0	2.0
71-43-2	Benzene	<1.0	1.0
108-86-1	Bromobenzene	<1.0	1.0
74-97-5	Bromochloromethane	<1.0	1.0
75-27-4	Bromodichloromethane	<1.0	1.0
75-25-2	Bromoform	<1.0	1.0
74-83-9	Bromomethane	<5.0	5.0
104-51-8	n-Butylbenzene	<1.0	1.0
135-98-8	sec-Butylbenzene	<1.0	1.0
98-06-6	tert-Butylbenzene	<1.0	1.0
75-15-0	Carbon Disulfide	<1.0	1.0
56-23-5	Carbon Tetrachloride	<1.0	1.0
108-90-7	Chlorobenzene	<1.0	1.0
75-00-3	Chloroethane	<5.0	5.0
67-66-3	Chloroform	<1.0	1.0
74-87-3	Chloromethane	<5.0	5.0
96-12-8	1,2-Dibromo-3-chloropropane	<5.0	5.0
124-48-1	Dibromochloromethane	<1.0	1.0
106-93-4	1,2-Dibromoethane	<1.0	1.0
74-95-3	Dibromomethane	<1.0	1.0
110-57-6	trans-1,4-Dichloro-2-butene	<1.0	1.0
95-50-1	1,2-Dichlorobenzene	<1.0	1.0
541-73-1	1,3-Dichlorobenzene	<1.0	1.0
106-46-7	1,4-Dichlorobenzene	<1.0	1.0
75-71-8	Dichlorodifluoromethane	<5.0	5.0
75-34-3	1,1-Dichloroethane	**26**	1.0
107-06-2	1,2-Dichloroethane	**1.0**	1.0
75-35-4	1,1-Dichloroethene	**5.9**	1.0
156-59-2	cis-1,2-Dichloroethene	**120**	1.0
156-60-5	trans-1,2-Dichloroethene	**12**	1.0

Continued on next page

ANALYTICAL REPORT

Client:	**RMT, Inc. - Ann Arbor Office**	Work Order:	**0903132**
Project:	Tecumseh Products	Description:	Laboratory Services
Client Sample ID:	**B-1 (26'-30')**	Sampled:	03/09/09 11:57
Lab Sample ID:	**0903132-02**	Sampled By:	S. Middlebrook
Matrix:	Water	Received:	03/10/09 09:30
Unit:	ug/L	Prepared:	03/10/09 By: JDM
Dilution Factor:	1	Analyzed:	03/10/09 By: JDM
QC Batch:	0902882	Analytical Batch:	9031047

Volatile Organic Compounds by EPA Method 8260B (Continued)

CAS Number	Analyte	Analytical Result	RL
78-87-5	1,2-Dichloropropane	<1.0	1.0
10061-01-5	cis-1,3-Dichloropropene	<1.0	1.0
10061-02-6	trans-1,3-Dichloropropene	<1.0	1.0
100-41-4	Ethylbenzene	<1.0	1.0
60-29-7	Ethyl Ether	<5.0	5.0
591-78-6	2-Hexanone	<5.0	5.0
74-88-4	Iodomethane	<1.0	1.0
98-82-8	Isopropylbenzene	<1.0	1.0
99-87-6	4-Isopropyltoluene	<5.0	5.0
1634-04-4	Methyl tert-Butyl Ether	<5.0	5.0
75-09-2	Methylene Chloride	<5.0	5.0
78-93-3	2-Butanone (MEK)	<5.0	5.0
91-57-6	2-Methylnaphthalene	<5.0	5.0
108-10-1	4-Methyl-2-pentanone (MIBK)	<5.0	5.0
91-20-3	Naphthalene	<5.0	5.0
103-65-1	n-Propylbenzene	<1.0	1.0
100-42-5	Styrene	<1.0	1.0
630-20-6	1,1,1,2-Tetrachloroethane	<1.0	1.0
79-34-5	1,1,2,2-Tetrachloroethane	<1.0	1.0
127-18-4	Tetrachloroethene	<1.0	1.0
109-99-9	Tetrahydrofuran	<5.0	5.0
108-88-3	Toluene	**5.3**	1.0
87-61-6	1,2,3-Trichlorobenzene	<5.0	5.0
120-82-1	1,2,4-Trichlorobenzene	<5.0	5.0
71-55-6	1,1,1-Trichloroethane	<1.0	1.0
79-00-5	1,1,2-Trichloroethane	<1.0	1.0
79-01-6	Trichloroethene	**200**	1.0
75-69-4	Trichlorofluoromethane	<1.0	1.0
96-18-4	1,2,3-Trichloropropane	<1.0	1.0
95-63-6	1,2,4-Trimethylbenzene	<1.0	1.0
108-67-8	1,3,5-Trimethylbenzene	<1.0	1.0

Continued on next page

ANALYTICAL REPORT

Client:	**RMT, Inc. - Ann Arbor Office**	Work Order:	**0903132**
Project:	Tecumseh Products	Description:	Laboratory Services
Client Sample ID:	**B-1 (26'-30')**	Sampled:	03/09/09 11:57
Lab Sample ID:	**0903132-02**	Sampled By:	S. Middlebrook
Matrix:	Water	Received:	03/10/09 09:30
Unit:	ug/L	Prepared:	03/10/09 By: JDM
Dilution Factor:	1	Analyzed:	03/10/09 By: JDM
QC Batch:	0902882	Analytical Batch:	9031047

Volatile Organic Compounds by EPA Method 8260B (Continued)

CAS Number	Analyte	Analytical Result	RL
75-01-4	Vinyl Chloride	<1.0	1.0
136777-61-2	Xylene, Meta + Para	<2.0	2.0
95-47-6	Xylene, Ortho	<1.0	1.0

Surrogates:	*% Recovery*	*Control Limits*
Dibromofluoromethane	105	*88-115*
1,2-Dichloroethane-d4	102	*81-116*
Toluene-d8	102	*87-113*
4-Bromofluorobenzene	100	*78-116*

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ANALYTICAL REPORT

Client:	**RMT, Inc. - Ann Arbor Office**	Work Order:	**0903132**
Project:	Tecumseh Products	Description:	Laboratory Services
Client Sample ID:	**B-3 (38'-42')**	Sampled:	03/09/09 15:57
Lab Sample ID:	**0903132-03**	Sampled By:	S. Middlebrook
Matrix:	Water	Received:	03/10/09 09:30
Unit:	ug/L	Prepared:	03/10/09 By: JDM
Dilution Factor:	1	Analyzed:	03/10/09 By: JDM
QC Batch:	0902882	Analytical Batch:	9031047

Volatile Organic Compounds by EPA Method 8260B

CAS Number	Analyte	Analytical Result	RL
67-64-1	Acetone	<20	20
107-13-1	Acrylonitrile	<2.0	2.0
71-43-2	Benzene	<1.0	1.0
108-86-1	Bromobenzene	<1.0	1.0
74-97-5	Bromochloromethane	<1.0	1.0
75-27-4	Bromodichloromethane	<1.0	1.0
75-25-2	Bromoform	<1.0	1.0
74-83-9	Bromomethane	<5.0	5.0
104-51-8	n-Butylbenzene	<1.0	1.0
135-98-8	sec-Butylbenzene	<1.0	1.0
98-06-6	tert-Butylbenzene	<1.0	1.0
75-15-0	Carbon Disulfide	<1.0	1.0
56-23-5	Carbon Tetrachloride	<1.0	1.0
108-90-7	Chlorobenzene	<1.0	1.0
75-00-3	Chloroethane	<5.0	5.0
67-66-3	Chloroform	<1.0	1.0
74-87-3	Chloromethane	<5.0	5.0
96-12-8	1,2-Dibromo-3-chloropropane	<5.0	5.0
124-48-1	Dibromochloromethane	<1.0	1.0
106-93-4	1,2-Dibromoethane	<1.0	1.0
74-95-3	Dibromomethane	<1.0	1.0
110-57-6	trans-1,4-Dichloro-2-butene	<1.0	1.0
95-50-1	1,2-Dichlorobenzene	<1.0	1.0
541-73-1	1,3-Dichlorobenzene	<1.0	1.0
106-46-7	1,4-Dichlorobenzene	<1.0	1.0
75-71-8	Dichlorodifluoromethane	<5.0	5.0
75-34-3	1,1-Dichloroethane	<1.0	1.0
107-06-2	1,2-Dichloroethane	<1.0	1.0
75-35-4	1,1-Dichloroethene	<1.0	1.0
156-59-2	cis-1,2-Dichloroethene	<1.0	1.0
156-60-5	trans-1,2-Dichloroethene	<1.0	1.0

Continued on next page

ANALYTICAL REPORT

Client:	**RMT, Inc. - Ann Arbor Office**	Work Order:	**0903132**
Project:	Tecumseh Products	Description:	Laboratory Services
Client Sample ID:	**B-3 (38'-42')**	Sampled:	03/09/09 15:57
Lab Sample ID:	**0903132-03**	Sampled By:	S. Middlebrook
Matrix:	Water	Received:	03/10/09 09:30
Unit:	ug/L	Prepared:	03/10/09 By: JDM
Dilution Factor:	1	Analyzed:	03/10/09 By: JDM
QC Batch:	0902882	Analytical Batch:	9031047

Volatile Organic Compounds by EPA Method 8260B (Continued)

CAS Number	Analyte	Analytical Result	RL
78-87-5	1,2-Dichloropropane	<1.0	1.0
10061-01-5	cis-1,3-Dichloropropene	<1.0	1.0
10061-02-6	trans-1,3-Dichloropropene	<1.0	1.0
100-41-4	Ethylbenzene	<1.0	1.0
60-29-7	Ethyl Ether	<5.0	5.0
591-78-6	2-Hexanone	<5.0	5.0
74-88-4	Iodomethane	<1.0	1.0
98-82-8	Isopropylbenzene	<1.0	1.0
99-87-6	4-Isopropyltoluene	<5.0	5.0
1634-04-4	Methyl tert-Butyl Ether	<5.0	5.0
75-09-2	Methylene Chloride	<5.0	5.0
78-93-3	2-Butanone (MEK)	<5.0	5.0
91-57-6	2-Methylnaphthalene	<5.0	5.0
108-10-1	4-Methyl-2-pentanone (MIBK)	<5.0	5.0
91-20-3	Naphthalene	<5.0	5.0
103-65-1	n-Propylbenzene	<1.0	1.0
100-42-5	Styrene	<1.0	1.0
630-20-6	1,1,1,2-Tetrachloroethane	<1.0	1.0
79-34-5	1,1,2,2-Tetrachloroethane	<1.0	1.0
127-18-4	Tetrachloroethene	<1.0	1.0
109-99-9	Tetrahydrofuran	<5.0	5.0
108-88-3	Toluene	**2.2**	1.0
87-61-6	1,2,3-Trichlorobenzene	<5.0	5.0
120-82-1	1,2,4-Trichlorobenzene	<5.0	5.0
71-55-6	1,1,1-Trichloroethane	<1.0	1.0
79-00-5	1,1,2-Trichloroethane	<1.0	1.0
79-01-6	Trichloroethene	<1.0	1.0
75-69-4	Trichlorofluoromethane	<1.0	1.0
96-18-4	1,2,3-Trichloropropane	<1.0	1.0
95-63-6	1,2,4-Trimethylbenzene	<1.0	1.0
108-67-8	1,3,5-Trimethylbenzene	<1.0	1.0

Continued on next page

ANALYTICAL REPORT

Client:	**RMT, Inc. - Ann Arbor Office**	Work Order:	**0903132**
Project:	Tecumseh Products	Description:	Laboratory Services
Client Sample ID:	**B-3 (38'-42')**	Sampled:	03/09/09 15:57
Lab Sample ID:	**0903132-03**	Sampled By:	S. Middlebrook
Matrix:	Water	Received:	03/10/09 09:30
Unit:	ug/L	Prepared:	03/10/09 By: JDM
Dilution Factor:	1	Analyzed:	03/10/09 By: JDM
QC Batch:	0902882	Analytical Batch:	9031047

Volatile Organic Compounds by EPA Method 8260B (Continued)

CAS Number	Analyte	Analytical Result	RL
75-01-4	Vinyl Chloride	<1.0	1.0
136777-61-2	Xylene, Meta + Para	<2.0	2.0
95-47-6	Xylene, Ortho	<1.0	1.0

Surrogates:	*% Recovery*	*Control Limits*
Dibromofluoromethane	103	*88-115*
1,2-Dichloroethane-d4	102	*81-116*
Toluene-d8	101	*87-113*
4-Bromofluorobenzene	101	*78-116*

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ANALYTICAL REPORT

Client:	**RMT, Inc. - Ann Arbor Office**	Work Order:	**0903132**
Project:	Tecumseh Products	Description:	Laboratory Services
Client Sample ID:	**B-3 (26'-30')**	Sampled:	03/09/09 15:03
Lab Sample ID:	**0903132-04**	Sampled By:	S. Middlebrook
Matrix:	Water	Received:	03/10/09 09:30
Unit:	ug/L	Prepared:	03/10/09 By: JDM
Dilution Factor:	1	Analyzed:	03/10/09 By: JDM
QC Batch:	0902882	Analytical Batch:	9031047

Volatile Organic Compounds by EPA Method 8260B

CAS Number	Analyte	Analytical Result	RL
67-64-1	Acetone	<20	20
107-13-1	Acrylonitrile	<2.0	2.0
71-43-2	Benzene	<1.0	1.0
108-86-1	Bromobenzene	<1.0	1.0
74-97-5	Bromochloromethane	<1.0	1.0
75-27-4	Bromodichloromethane	<1.0	1.0
75-25-2	Bromoform	<1.0	1.0
74-83-9	Bromomethane	<5.0	5.0
104-51-8	n-Butylbenzene	<1.0	1.0
135-98-8	sec-Butylbenzene	<1.0	1.0
98-06-6	tert-Butylbenzene	<1.0	1.0
75-15-0	Carbon Disulfide	<1.0	1.0
56-23-5	Carbon Tetrachloride	<1.0	1.0
108-90-7	Chlorobenzene	<1.0	1.0
75-00-3	Chloroethane	<5.0	5.0
67-66-3	Chloroform	<1.0	1.0
74-87-3	Chloromethane	<5.0	5.0
96-12-8	1,2-Dibromo-3-chloropropane	<5.0	5.0
124-48-1	Dibromochloromethane	<1.0	1.0
106-93-4	1,2-Dibromoethane	<1.0	1.0
74-95-3	Dibromomethane	<1.0	1.0
110-57-6	trans-1,4-Dichloro-2-butene	<1.0	1.0
95-50-1	1,2-Dichlorobenzene	<1.0	1.0
541-73-1	1,3-Dichlorobenzene	<1.0	1.0
106-46-7	1,4-Dichlorobenzene	<1.0	1.0
75-71-8	Dichlorodifluoromethane	<5.0	5.0
75-34-3	1,1-Dichloroethane	<1.0	1.0
107-06-2	1,2-Dichloroethane	<1.0	1.0
75-35-4	1,1-Dichloroethene	<1.0	1.0
156-59-2	cis-1,2-Dichloroethene	<1.0	1.0
156-60-5	trans-1,2-Dichloroethene	<1.0	1.0

Continued on next page

ANALYTICAL REPORT

Client:	**RMT, Inc. - Ann Arbor Office**	Work Order:	**0903132**
Project:	Tecumseh Products	Description:	Laboratory Services
Client Sample ID:	**B-3 (26'-30')**	Sampled:	03/09/09 15:03
Lab Sample ID:	**0903132-04**	Sampled By:	S. Middlebrook
Matrix:	Water	Received:	03/10/09 09:30
Unit:	ug/L	Prepared:	03/10/09 By: JDM
Dilution Factor:	1	Analyzed:	03/10/09 By: JDM
QC Batch:	0902882	Analytical Batch:	9031047

Volatile Organic Compounds by EPA Method 8260B (Continued)

CAS Number	Analyte	Analytical Result	RL
78-87-5	1,2-Dichloropropane	<1.0	1.0
10061-01-5	cis-1,3-Dichloropropene	<1.0	1.0
10061-02-6	trans-1,3-Dichloropropene	<1.0	1.0
100-41-4	Ethylbenzene	<1.0	1.0
60-29-7	Ethyl Ether	<5.0	5.0
591-78-6	2-Hexanone	<5.0	5.0
74-88-4	Iodomethane	<1.0	1.0
98-82-8	Isopropylbenzene	<1.0	1.0
99-87-6	4-Isopropyltoluene	<5.0	5.0
1634-04-4	Methyl tert-Butyl Ether	<5.0	5.0
75-09-2	Methylene Chloride	<5.0	5.0
78-93-3	2-Butanone (MEK)	<5.0	5.0
91-57-6	2-Methylnaphthalene	<5.0	5.0
108-10-1	4-Methyl-2-pentanone (MIBK)	<5.0	5.0
91-20-3	Naphthalene	<5.0	5.0
103-65-1	n-Propylbenzene	<1.0	1.0
100-42-5	Styrene	<1.0	1.0
630-20-6	1,1,1,2-Tetrachloroethane	<1.0	1.0
79-34-5	1,1,2,2-Tetrachloroethane	<1.0	1.0
127-18-4	Tetrachloroethene	<1.0	1.0
109-99-9	Tetrahydrofuran	<5.0	5.0
108-88-3	Toluene	**2.6**	1.0
87-61-6	1,2,3-Trichlorobenzene	<5.0	5.0
120-82-1	1,2,4-Trichlorobenzene	<5.0	5.0
71-55-6	1,1,1-Trichloroethane	<1.0	1.0
79-00-5	1,1,2-Trichloroethane	<1.0	1.0
79-01-6	Trichloroethene	<1.0	1.0
75-69-4	Trichlorofluoromethane	<1.0	1.0
96-18-4	1,2,3-Trichloropropane	<1.0	1.0
95-63-6	1,2,4-Trimethylbenzene	<1.0	1.0
108-67-8	1,3,5-Trimethylbenzene	<1.0	1.0

Continued on next page

ANALYTICAL REPORT

Client:	**RMT, Inc. - Ann Arbor Office**	Work Order:	**0903132**
Project:	Tecumseh Products	Description:	Laboratory Services
Client Sample ID:	**B-3 (26'-30')**	Sampled:	03/09/09 15:03
Lab Sample ID:	**0903132-04**	Sampled By:	S. Middlebrook
Matrix:	Water	Received:	03/10/09 09:30
Unit:	ug/L	Prepared:	03/10/09 By: JDM
Dilution Factor:	1	Analyzed:	03/10/09 By: JDM
QC Batch:	0902882	Analytical Batch:	9031047

Volatile Organic Compounds by EPA Method 8260B (Continued)

CAS Number	Analyte	Analytical Result	RL
75-01-4	Vinyl Chloride	**1.4**	1.0
136777-61-2	Xylene, Meta + Para	<2.0	2.0
95-47-6	Xylene, Ortho	<1.0	1.0

Surrogates:	*% Recovery*	*Control Limits*
Dibromofluoromethane	103	*88-115*
1,2-Dichloroethane-d4	101	*81-116*
Toluene-d8	101	*87-113*
4-Bromofluorobenzene	101	*78-116*

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ANALYTICAL REPORT

Client:	**RMT, Inc. - Ann Arbor Office**	Work Order:	**0903132**
Project:	Tecumseh Products	Description:	Laboratory Services
Client Sample ID:	**Trip Blank**	Sampled:	03/04/09 20:29
Lab Sample ID:	**0903132-05**	Sampled By:	S. Middlebrook
Matrix:	Water	Received:	03/10/09 09:30
Unit:	ug/L	Prepared:	03/10/09 By: JDM
Dilution Factor:	1	Analyzed:	03/10/09 By: JDM
QC Batch:	0902882	Analytical Batch:	9031047

Volatile Organic Compounds by EPA Method 8260B

CAS Number	Analyte	Analytical Result	RL
67-64-1	Acetone	<20	20
107-13-1	Acrylonitrile	<2.0	2.0
71-43-2	Benzene	<1.0	1.0
108-86-1	Bromobenzene	<1.0	1.0
74-97-5	Bromochloromethane	<1.0	1.0
75-27-4	Bromodichloromethane	<1.0	1.0
75-25-2	Bromoform	<1.0	1.0
74-83-9	Bromomethane	<5.0	5.0
104-51-8	n-Butylbenzene	<1.0	1.0
135-98-8	sec-Butylbenzene	<1.0	1.0
98-06-6	tert-Butylbenzene	<1.0	1.0
75-15-0	Carbon Disulfide	<1.0	1.0
56-23-5	Carbon Tetrachloride	<1.0	1.0
108-90-7	Chlorobenzene	<1.0	1.0
75-00-3	Chloroethane	<5.0	5.0
67-66-3	Chloroform	<1.0	1.0
74-87-3	Chloromethane	<5.0	5.0
96-12-8	1,2-Dibromo-3-chloropropane	<5.0	5.0
124-48-1	Dibromochloromethane	<1.0	1.0
106-93-4	1,2-Dibromoethane	<1.0	1.0
74-95-3	Dibromomethane	<1.0	1.0
110-57-6	trans-1,4-Dichloro-2-butene	<1.0	1.0
95-50-1	1,2-Dichlorobenzene	<1.0	1.0
541-73-1	1,3-Dichlorobenzene	<1.0	1.0
106-46-7	1,4-Dichlorobenzene	<1.0	1.0
75-71-8	Dichlorodifluoromethane	<5.0	5.0
75-34-3	1,1-Dichloroethane	<1.0	1.0
107-06-2	1,2-Dichloroethane	<1.0	1.0
75-35-4	1,1-Dichloroethene	<1.0	1.0
156-59-2	cis-1,2-Dichloroethene	<1.0	1.0
156-60-5	trans-1,2-Dichloroethene	<1.0	1.0

Continued on next page

ANALYTICAL REPORT

Client:	**RMT, Inc. - Ann Arbor Office**	Work Order:	**0903132**
Project:	Tecumseh Products	Description:	Laboratory Services
Client Sample ID:	**Trip Blank**	Sampled:	03/04/09 20:29
Lab Sample ID:	**0903132-05**	Sampled By:	S. Middlebrook
Matrix:	Water	Received:	03/10/09 09:30
Unit:	ug/L	Prepared:	03/10/09 By: JDM
Dilution Factor:	1	Analyzed:	03/10/09 By: JDM
QC Batch:	0902882	Analytical Batch:	9031047

Volatile Organic Compounds by EPA Method 8260B (Continued)

CAS Number	Analyte	Analytical Result	RL
78-87-5	1,2-Dichloropropane	<1.0	1.0
10061-01-5	cis-1,3-Dichloropropene	<1.0	1.0
10061-02-6	trans-1,3-Dichloropropene	<1.0	1.0
100-41-4	Ethylbenzene	<1.0	1.0
60-29-7	Ethyl Ether	<5.0	5.0
591-78-6	2-Hexanone	<5.0	5.0
74-88-4	Iodomethane	<1.0	1.0
98-82-8	Isopropylbenzene	<1.0	1.0
99-87-6	4-Isopropyltoluene	<5.0	5.0
1634-04-4	Methyl tert-Butyl Ether	<5.0	5.0
75-09-2	Methylene Chloride	<5.0	5.0
78-93-3	2-Butanone (MEK)	<5.0	5.0
91-57-6	2-Methylnaphthalene	<5.0	5.0
108-10-1	4-Methyl-2-pentanone (MIBK)	<5.0	5.0
91-20-3	Naphthalene	<5.0	5.0
103-65-1	n-Propylbenzene	<1.0	1.0
100-42-5	Styrene	<1.0	1.0
630-20-6	1,1,1,2-Tetrachloroethane	<1.0	1.0
79-34-5	1,1,2,2-Tetrachloroethane	<1.0	1.0
127-18-4	Tetrachloroethene	<1.0	1.0
109-99-9	Tetrahydrofuran	<5.0	5.0
108-88-3	Toluene	<1.0	1.0
87-61-6	1,2,3-Trichlorobenzene	<5.0	5.0
120-82-1	1,2,4-Trichlorobenzene	<5.0	5.0
71-55-6	1,1,1-Trichloroethane	<1.0	1.0
79-00-5	1,1,2-Trichloroethane	<1.0	1.0
79-01-6	Trichloroethene	<1.0	1.0
75-69-4	Trichlorofluoromethane	<1.0	1.0
96-18-4	1,2,3-Trichloropropane	<1.0	1.0
95-63-6	1,2,4-Trimethylbenzene	<1.0	1.0
108-67-8	1,3,5-Trimethylbenzene	<1.0	1.0

Continued on next page

ANALYTICAL REPORT

Client:	**RMT, Inc. - Ann Arbor Office**	Work Order:	**0903132**
Project:	Tecumseh Products	Description:	Laboratory Services
Client Sample ID:	**Trip Blank**	Sampled:	03/04/09 20:29
Lab Sample ID:	**0903132-05**	Sampled By:	S. Middlebrook
Matrix:	Water	Received:	03/10/09 09:30
Unit:	ug/L	Prepared:	03/10/09 By: JDM
Dilution Factor:	1	Analyzed:	03/10/09 By: JDM
QC Batch:	0902882	Analytical Batch:	9031047

Volatile Organic Compounds by EPA Method 8260B (Continued)

CAS Number	Analyte	Analytical Result	RL
75-01-4	Vinyl Chloride	<1.0	1.0
136777-61-2	Xylene, Meta + Para	<2.0	2.0
95-47-6	Xylene, Ortho	<1.0	1.0

Surrogates:	*% Recovery*	*Control Limits*
Dibromofluoromethane	103	*88-115*
1,2-Dichloroethane-d4	102	*81-116*
Toluene-d8	103	*87-113*
4-Bromofluorobenzene	101	*78-116*

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QUALITY CONTROL REPORT

Volatile Organic Compounds by EPA Method 8260B

Analyte	Sample Conc.	Spike Qty.	Result	Spike % Rec.	Control Limits	RPD	RPD Limits	RL

QC Batch: 0902882 5030B Aqueous Purge & Trap/USEPA-8260B

Method Blank Analyzed: 03/10/2009 By: JDM

Unit: ug/L Analytical Batch: 9031047

Acetone			<20					20
Acrylonitrile			<2.0					2.0
Benzene			<1.0					1.0
Bromobenzene			<1.0					1.0
Bromochloromethane			<1.0					1.0
Bromodichloromethane			<1.0					1.0
Bromoform			<1.0					1.0
Bromomethane			<5.0					5.0
n-Butylbenzene			<1.0					1.0
sec-Butylbenzene			<1.0					1.0
tert-Butylbenzene			<1.0					1.0
Carbon Disulfide			<1.0					1.0
Carbon Tetrachloride			<1.0					1.0
Chlorobenzene			<1.0					1.0
Chloroethane			<5.0					5.0
Chloroform			<1.0					1.0
Chloromethane			<5.0					5.0
1,2-Dibromo-3-chloropropane			<5.0					5.0
Dibromochloromethane			<1.0					1.0
1,2-Dibromoethane			<1.0					1.0
Dibromomethane			<1.0					1.0
trans-1,4-Dichloro-2-butene			<1.0					1.0
1,2-Dichlorobenzene			<1.0					1.0
1,3-Dichlorobenzene			<1.0					1.0
1,4-Dichlorobenzene			<1.0					1.0
Dichlorodifluoromethane			<5.0					5.0
1,1-Dichloroethane			<1.0					1.0
1,2-Dichloroethane			<1.0					1.0
1,1-Dichloroethene			<1.0					1.0
cis-1,2-Dichloroethene			<1.0					1.0
trans-1,2-Dichloroethene			<1.0					1.0
1,2-Dichloropropane			<1.0					1.0
cis-1,3-Dichloropropene			<1.0					1.0
trans-1,3-Dichloropropene			<1.0					1.0
Ethylbenzene			<1.0					1.0
Ethyl Ether			<5.0					5.0

Continued on next page

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QUALITY CONTROL REPORT

Volatile Organic Compounds by EPA Method 8260B (Continued)

Analyte	Sample Conc.	Spike Qty.	Result	Spike % Rec.	Control Limits	RPD	RPD Limits	RL

QC Batch: 0902882 (Continued) 5030B Aqueous Purge & Trap/USEPA-8260B

Method Blank (Continued) Analyzed: 03/10/2009 By: JDM

Unit: ug/L Analytical Batch: 9031047

2-Hexanone		<5.0			5.0
Iodomethane		<1.0			1.0
Isopropylbenzene		<1.0			1.0
4-Isopropyltoluene		<5.0			5.0
Methyl tert-Butyl Ether		<5.0			5.0
Methylene Chloride		<5.0			5.0
2-Butanone (MEK)		<5.0			5.0
2-Methylnaphthalene		<5.0			5.0
4-Methyl-2-pentanone (MIBK)		<5.0			5.0
Naphthalene		<5.0			5.0
n-Propylbenzene		<1.0			1.0
Styrene		<1.0			1.0
1,1,1,2-Tetrachloroethane		<1.0			1.0
1,1,2,2-Tetrachloroethane		<1.0			1.0
Tetrachloroethene		<1.0			1.0
Tetrahydrofuran		<5.0			5.0
Toluene		<1.0			1.0
1,2,3-Trichlorobenzene		<5.0			5.0
1,2,4-Trichlorobenzene		<5.0			5.0
1,1,1-Trichloroethane		<1.0			1.0
1,1,2-Trichloroethane		<1.0			1.0
Trichloroethene		<1.0			1.0
Trichlorofluoromethane		<1.0			1.0
1,2,3-Trichloropropane		<1.0			1.0
1,2,4-Trimethylbenzene		<1.0			1.0
1,3,5-Trimethylbenzene		<1.0			1.0
Vinyl Chloride		<1.0			1.0
Xylene, Meta + Para		<2.0			2.0
Xylene, Ortho		<1.0			1.0
Surrogates:					
Dibromofluoromethane			*104*	*88-115*	
1,2-Dichloroethane-d4			*101*	*81-116*	
Toluene-d8			*102*	*87-113*	
4-Bromofluorobenzene			*101*	*78-116*	

Laboratory Control Sample Analyzed: 03/10/2009 By: JDM

Unit: ug/L Analytical Batch: 9031047

Benzene	40.0	**41.4**	104	86-122	1.0

Continued on next page

QUALITY CONTROL REPORT

Volatile Organic Compounds by EPA Method 8260B (Continued)

Analyte	Sample Conc.	Spike Qty.	Result	Spike % Rec.	Control Limits	RPD	RPD Limits	RL
QC Batch: 0902882 (Continued) 5030B Aqueous Purge & Trap/USEPA-8260B								
Laboratory Control Sample (Continued)					Analyzed:	03/10/2009		By: JDM
Unit: ug/L					Analytical Batch:	9031047		
Chlorobenzene		40.0	**40.0**	100	88-114			1.0
1,1-Dichloroethene		40.0	**42.7**	107	81-125			1.0
Toluene		40.0	**41.1**	103	87-123			1.0
Trichloroethene		40.0	**41.5**	104	80-122			1.0
Surrogates:								
Dibromofluoromethane				*105*	*88-115*			
1,2-Dichloroethane-d4				*98*	*81-116*			
Toluene-d8				*102*	*87-113*			
4-Bromofluorobenzene				*103*	*78-116*			
Matrix Spike 0903132-04 B-3 (26'-30')					Analyzed:	03/10/2009		By: JDM
Unit: ug/L					Analytical Batch:	9031047		
Benzene	<1.0	40.0	**41.6**	104	84-127			1.0
Chlorobenzene	<1.0	40.0	**38.0**	95	89-115			1.0
1,1-Dichloroethene	<1.0	40.0	**42.7**	107	85-130			1.0
Toluene	2.60	40.0	**43.0**	101	88-125			1.0
Trichloroethene	<1.0	40.0	**40.5**	101	81-124			1.0
Surrogates:								
Dibromofluoromethane				*104*	*88-115*			
1,2-Dichloroethane-d4				*99*	*81-116*			
Toluene-d8				*101*	*87-113*			
4-Bromofluorobenzene				*104*	*78-116*			
Matrix Spike Duplicate 0903132-04 B-3 (26'-30')					Analyzed:	03/10/2009		By: JDM
Unit: ug/L					Analytical Batch:	9031047		
Benzene	<1.0	40.0	**41.6**	104	84-127	0.02	8	1.0
Chlorobenzene	<1.0	40.0	**37.8**	94	89-115	0.5	8	1.0
1,1-Dichloroethene	<1.0	40.0	**44.3**	111	85-130	4	10	1.0
Toluene	2.60	40.0	**43.0**	101	88-125	0.07	8	1.0
Trichloroethene	<1.0	40.0	**40.7**	102	81-124	0.6	8	1.0
Surrogates:								
Dibromofluoromethane				*104*	*88-115*			
1,2-Dichloroethane-d4				*98*	*81-116*			
Toluene-d8				*102*	*87-113*			
4-Bromofluorobenzene				*104*	*78-116*			

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STATEMENT OF DATA QUALIFICATIONS

All analyses have been validated and comply with our Quality Control Program.
No Qualifications required.

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TriMatrix Laboratories, Inc.
5560 Corporate Exchange Court SE Grand Rapids, MI 49512
Phone (616) 975-4500 Fax (616) 942-7463
www.trimatrixlabs.com

Chain of Custody Record

COC No. 128048

Page 1 of 1

For Lab Use Only

Cart: /

VOA Rack/Tray: 397R

Receipt Log No.: 7-10

Project Chemist:

Laboratory Project No.: 0903132

Client Name: RMT, Inc
Address: Ranchero Dr
Ann Arbor, MI
Phone: 734-971-7080
Fax: 734-971-9022

Project Name: Tecumseh Products
Client Project No./P.O. No.: 8070.02
Invoice No. ☐ Client ☐ Other (comments)
Contact/Report To: John Bacon

Analyses Requested

D — VOC's

Container Type (corresponds to Container Packing List)

P — Number of Containers Submitted

PRESERVATIVES
A NONE pH~7
B HNO_3 pH<2
C H_2SO_4 pH<2
D 1+1 HCl pH<2
E NaOH pH>12
F ZnAc/NaOH pH>9
G MeOH
H Other (none below)

Test Group	Matrix Code	Laboratory Sample Number		Sample ID	Cooler ID	Sample Date	Sample Time	COMP	GRAB	Matrix	P	Total	Sample Comments
01		01	1	B-1 (46'-50')	TM1792	3-9-09	1107		X	GW	2		
1		02	2	B-1 (26'-30')	TM1792	3-9-09	1157		X	GW	2		
1		03	3	B-3 ~~(46'-50')~~ (38'-42')	TM1792	3-9-09			X	GW	2		
24		04	4	B-3 (26'-30')	TM1792	3-9-09	1503		X	GW	2		
			5	B-3 (26'-30') MS/MSD	TM1792	3-9-09	1503		X	GW	4		
03			6	TB-01	TM1792	3-4-09	2029				01		
			7										
			8										
			9										
			10										

Sampled By (print): Scot Middlebrook
Sampler's Signature:
Company: RMT, Inc

How Shipped? Hand Carrier UPS
Tracking No.

Comments: 24hr. turnaround on samples.

1. Relinquished By	Date	Time	2. Relinquished By	Date	Time	3. Relinquished By	Date	Time
Scot Middlebrook	3-9-09	1445						
1. Received By	Date	Time	2. Received By	Date	Time	3. Received For Lab By	Date	Time
							3-10-09	0930

WHITE COPY - REPORT YELLOW COPY - LABORATORY PINK COPY - FILE

March 12, 2009

RMT, Inc. - Ann Arbor Office
Attn: John Bacon
3754 Ranchero Drive
Ann Arbor, MI 48108-2771

Project: Tecumseh Products

Dear John Bacon,

Enclosed is a copy of the laboratory report, comprised of the following work order(s), for test samples received by TriMatrix Laboratories:

Work Order	Received	Description
0903159	03/11/2009	Laboratory Services

This report relates only to the sample(s), as received. Test results are in compliance with the requirements of the National Environmental Laboratory Accreditation Conference (NELAC). Any qualifications of results, including sample acceptance requirements, are explained in the Statement of Data Qualifications.

Estimates of analytical uncertainties for the test results contained within this report are available upon request.

If you have any questions or require further information, please do not hesitate to contact me.

Sincerely,

Jennifer L. Rice
Project Chemist

Enclosures(s)

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ANALYTICAL REPORT

Client:	**RMT, Inc. - Ann Arbor Office**	Work Order:	**0903159**
Project:	Tecumseh Products	Description:	Laboratory Services
Client Sample ID:	**B-2 (33'-37')**	Sampled:	03/10/09 09:00
Lab Sample ID:	**0903159-01**	Sampled By:	John Bacon
Matrix:	Water	Received:	03/11/09 09:15
Unit:	ug/L	Prepared:	03/11/09 By: JDM
Dilution Factor:	1	Analyzed:	03/11/09 By: JDM
QC Batch:	0902882	Analytical Batch:	9031172

Volatile Organic Compounds by EPA Method 8260B

CAS Number	Analyte	Analytical Result	RL
67-64-1	Acetone	<20	20
107-13-1	Acrylonitrile	<2.0	2.0
71-43-2	Benzene	<1.0	1.0
108-86-1	Bromobenzene	<1.0	1.0
74-97-5	Bromochloromethane	<1.0	1.0
75-27-4	Bromodichloromethane	<1.0	1.0
75-25-2	Bromoform	<1.0	1.0
74-83-9	Bromomethane	<5.0	5.0
104-51-8	n-Butylbenzene	<1.0	1.0
135-98-8	sec-Butylbenzene	<1.0	1.0
98-06-6	tert-Butylbenzene	<1.0	1.0
75-15-0	Carbon Disulfide	<1.0	1.0
56-23-5	Carbon Tetrachloride	<1.0	1.0
108-90-7	Chlorobenzene	<1.0	1.0
75-00-3	Chloroethane	<5.0	5.0
67-66-3	Chloroform	<1.0	1.0
74-87-3	Chloromethane	<5.0	5.0
96-12-8	1,2-Dibromo-3-chloropropane	<5.0	5.0
124-48-1	Dibromochloromethane	<1.0	1.0
106-93-4	1,2-Dibromoethane	<1.0	1.0
74-95-3	Dibromomethane	<1.0	1.0
110-57-6	trans-1,4-Dichloro-2-butene	<1.0	1.0
95-50-1	1,2-Dichlorobenzene	<1.0	1.0
541-73-1	1,3-Dichlorobenzene	<1.0	1.0
106-46-7	1,4-Dichlorobenzene	<1.0	1.0
75-71-8	Dichlorodifluoromethane	<5.0	5.0
75-34-3	1,1-Dichloroethane	<1.0	1.0
107-06-2	1,2-Dichloroethane	<1.0	1.0
75-35-4	1,1-Dichloroethene	<1.0	1.0
156-59-2	cis-1,2-Dichloroethene	<1.0	1.0
156-60-5	trans-1,2-Dichloroethene	<1.0	1.0

Continued on next page

ANALYTICAL REPORT

Client:	**RMT, Inc. - Ann Arbor Office**	Work Order:	**0903159**
Project:	Tecumseh Products	Description:	Laboratory Services
Client Sample ID:	**B-2 (33'-37')**	Sampled:	03/10/09 09:00
Lab Sample ID:	**0903159-01**	Sampled By:	John Bacon
Matrix:	Water	Received:	03/11/09 09:15
Unit:	ug/L	Prepared:	03/11/09 By: JDM
Dilution Factor:	1	Analyzed:	03/11/09 By: JDM
QC Batch:	0902882	Analytical Batch:	9031172

Volatile Organic Compounds by EPA Method 8260B (Continued)

CAS Number	Analyte	Analytical Result	RL
78-87-5	1,2-Dichloropropane	<1.0	1.0
10061-01-5	cis-1,3-Dichloropropene	<1.0	1.0
10061-02-6	trans-1,3-Dichloropropene	<1.0	1.0
100-41-4	Ethylbenzene	<1.0	1.0
60-29-7	Ethyl Ether	<5.0	5.0
591-78-6	2-Hexanone	<5.0	5.0
74-88-4	Iodomethane	<1.0	1.0
98-82-8	Isopropylbenzene	<1.0	1.0
99-87-6	4-Isopropyltoluene	<5.0	5.0
1634-04-4	Methyl tert-Butyl Ether	<5.0	5.0
75-09-2	Methylene Chloride	<5.0	5.0
78-93-3	2-Butanone (MEK)	<5.0	5.0
91-57-6	2-Methylnaphthalene	<5.0	5.0
108-10-1	4-Methyl-2-pentanone (MIBK)	<5.0	5.0
91-20-3	Naphthalene	<5.0	5.0
103-65-1	n-Propylbenzene	<1.0	1.0
100-42-5	Styrene	<1.0	1.0
630-20-6	1,1,1,2-Tetrachloroethane	<1.0	1.0
79-34-5	1,1,2,2-Tetrachloroethane	<1.0	1.0
127-18-4	Tetrachloroethene	<1.0	1.0
109-99-9	Tetrahydrofuran	<5.0	5.0
108-88-3	Toluene	<1.0	1.0
87-61-6	1,2,3-Trichlorobenzene	<5.0	5.0
120-82-1	1,2,4-Trichlorobenzene	<5.0	5.0
71-55-6	1,1,1-Trichloroethane	<1.0	1.0
79-00-5	1,1,2-Trichloroethane	<1.0	1.0
79-01-6	Trichloroethene	**4.0**	1.0
75-69-4	Trichlorofluoromethane	<1.0	1.0
96-18-4	1,2,3-Trichloropropane	<1.0	1.0
95-63-6	1,2,4-Trimethylbenzene	<1.0	1.0
108-67-8	1,3,5-Trimethylbenzene	<1.0	1.0

Continued on next page

ANALYTICAL REPORT

Client:	**RMT, Inc. - Ann Arbor Office**	Work Order:	**0903159**
Project:	Tecumseh Products	Description:	Laboratory Services
Client Sample ID:	**B-2 (33'-37')**	Sampled:	03/10/09 09:00
Lab Sample ID:	**0903159-01**	Sampled By:	John Bacon
Matrix:	Water	Received:	03/11/09 09:15
Unit:	ug/L	Prepared:	03/11/09 By: JDM
Dilution Factor:	1	Analyzed:	03/11/09 By: JDM
QC Batch:	0902882	Analytical Batch:	9031172

Volatile Organic Compounds by EPA Method 8260B (Continued)

CAS Number	Analyte	Analytical Result	RL
75-01-4	Vinyl Chloride	**16**	1.0
136777-61-2	Xylene, Meta + Para	<2.0	2.0
95-47-6	Xylene, Ortho	<1.0	1.0

Surrogates:	*% Recovery*	*Control Limits*
Dibromofluoromethane	103	*88-115*
1,2-Dichloroethane-d4	100	*81-116*
Toluene-d8	102	*87-113*
4-Bromofluorobenzene	101	*78-116*

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ANALYTICAL REPORT

Client:	**RMT, Inc. - Ann Arbor Office**	Work Order:	**0903159**
Project:	Tecumseh Products	Description:	Laboratory Services
Client Sample ID:	**B-2 (22'-26')**	Sampled:	03/10/09 09:30
Lab Sample ID:	**0903159-02**	Sampled By:	John Bacon
Matrix:	Water	Received:	03/11/09 09:15
Unit:	ug/L	Prepared:	03/11/09 By: JDM
Dilution Factor:	1	Analyzed:	03/11/09 By: JDM
QC Batch:	0902882	Analytical Batch:	9031172

Volatile Organic Compounds by EPA Method 8260B

CAS Number	Analyte	Analytical Result	RL
67-64-1	Acetone	<20	20
107-13-1	Acrylonitrile	<2.0	2.0
71-43-2	Benzene	<1.0	1.0
108-86-1	Bromobenzene	<1.0	1.0
74-97-5	Bromochloromethane	<1.0	1.0
75-27-4	Bromodichloromethane	<1.0	1.0
75-25-2	Bromoform	<1.0	1.0
74-83-9	Bromomethane	<5.0	5.0
104-51-8	n-Butylbenzene	<1.0	1.0
135-98-8	sec-Butylbenzene	<1.0	1.0
98-06-6	tert-Butylbenzene	<1.0	1.0
75-15-0	Carbon Disulfide	<1.0	1.0
56-23-5	Carbon Tetrachloride	<1.0	1.0
108-90-7	Chlorobenzene	<1.0	1.0
75-00-3	Chloroethane	<5.0	5.0
67-66-3	Chloroform	<1.0	1.0
74-87-3	Chloromethane	<5.0	5.0
96-12-8	1,2-Dibromo-3-chloropropane	<5.0	5.0
124-48-1	Dibromochloromethane	<1.0	1.0
106-93-4	1,2-Dibromoethane	<1.0	1.0
74-95-3	Dibromomethane	<1.0	1.0
110-57-6	trans-1,4-Dichloro-2-butene	<1.0	1.0
95-50-1	1,2-Dichlorobenzene	<1.0	1.0
541-73-1	1,3-Dichlorobenzene	<1.0	1.0
106-46-7	1,4-Dichlorobenzene	<1.0	1.0
75-71-8	Dichlorodifluoromethane	<5.0	5.0
75-34-3	1,1-Dichloroethane	<1.0	1.0
107-06-2	1,2-Dichloroethane	<1.0	1.0
75-35-4	1,1-Dichloroethene	<1.0	1.0
156-59-2	cis-1,2-Dichloroethene	<1.0	1.0
156-60-5	trans-1,2-Dichloroethene	<1.0	1.0

Continued on next page

ANALYTICAL REPORT

Client:	**RMT, Inc. - Ann Arbor Office**	Work Order:	**0903159**
Project:	Tecumseh Products	Description:	Laboratory Services
Client Sample ID:	**B-2 (22'-26')**	Sampled:	03/10/09 09:30
Lab Sample ID:	**0903159-02**	Sampled By:	John Bacon
Matrix:	Water	Received:	03/11/09 09:15
Unit:	ug/L	Prepared:	03/11/09 By: JDM
Dilution Factor:	1	Analyzed:	03/11/09 By: JDM
QC Batch:	0902882	Analytical Batch:	9031172

Volatile Organic Compounds by EPA Method 8260B (Continued)

CAS Number	Analyte	Analytical Result	RL
78-87-5	1,2-Dichloropropane	<1.0	1.0
10061-01-5	cis-1,3-Dichloropropene	<1.0	1.0
10061-02-6	trans-1,3-Dichloropropene	<1.0	1.0
100-41-4	Ethylbenzene	<1.0	1.0
60-29-7	Ethyl Ether	<5.0	5.0
591-78-6	2-Hexanone	<5.0	5.0
74-88-4	Iodomethane	<1.0	1.0
98-82-8	Isopropylbenzene	<1.0	1.0
99-87-6	4-Isopropyltoluene	<5.0	5.0
1634-04-4	Methyl tert-Butyl Ether	<5.0	5.0
75-09-2	Methylene Chloride	<5.0	5.0
78-93-3	2-Butanone (MEK)	<5.0	5.0
91-57-6	2-Methylnaphthalene	<5.0	5.0
108-10-1	4-Methyl-2-pentanone (MIBK)	<5.0	5.0
91-20-3	Naphthalene	<5.0	5.0
103-65-1	n-Propylbenzene	<1.0	1.0
100-42-5	Styrene	<1.0	1.0
630-20-6	1,1,1,2-Tetrachloroethane	<1.0	1.0
79-34-5	1,1,2,2-Tetrachloroethane	<1.0	1.0
127-18-4	Tetrachloroethene	<1.0	1.0
109-99-9	Tetrahydrofuran	<5.0	5.0
108-88-3	Toluene	<1.0	1.0
87-61-6	1,2,3-Trichlorobenzene	<5.0	5.0
120-82-1	1,2,4-Trichlorobenzene	<5.0	5.0
71-55-6	1,1,1-Trichloroethane	<1.0	1.0
79-00-5	1,1,2-Trichloroethane	<1.0	1.0
79-01-6	Trichloroethene	**1.8**	1.0
75-69-4	Trichlorofluoromethane	<1.0	1.0
96-18-4	1,2,3-Trichloropropane	<1.0	1.0
95-63-6	1,2,4-Trimethylbenzene	<1.0	1.0
108-67-8	1,3,5-Trimethylbenzene	<1.0	1.0

Continued on next page

ANALYTICAL REPORT

Client:	**RMT, Inc. - Ann Arbor Office**	Work Order:	**0903159**
Project:	Tecumseh Products	Description:	Laboratory Services
Client Sample ID:	**B-2 (22'-26')**	Sampled:	03/10/09 09:30
Lab Sample ID:	**0903159-02**	Sampled By:	John Bacon
Matrix:	Water	Received:	03/11/09 09:15
Unit:	ug/L	Prepared:	03/11/09 By: JDM
Dilution Factor:	1	Analyzed:	03/11/09 By: JDM
QC Batch:	0902882	Analytical Batch:	9031172

Volatile Organic Compounds by EPA Method 8260B (Continued)

CAS Number	Analyte	Analytical Result	RL
75-01-4	Vinyl Chloride	**27**	1.0
136777-61-2	Xylene, Meta + Para	<2.0	2.0
95-47-6	Xylene, Ortho	<1.0	1.0

Surrogates:	*% Recovery*	*Control Limits*
Dibromofluoromethane	103	*88-115*
1,2-Dichloroethane-d4	99	*81-116*
Toluene-d8	101	*87-113*
4-Bromofluorobenzene	101	*78-116*

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ANALYTICAL REPORT

Client:	**RMT, Inc. - Ann Arbor Office**	Work Order:	**0903159**
Project:	Tecumseh Products	Description:	Laboratory Services
Client Sample ID:	**B-4 (29'-33')**	Sampled:	03/10/09 10:35
Lab Sample ID:	**0903159-03**	Sampled By:	John Bacon
Matrix:	Water	Received:	03/11/09 09:15
Unit:	ug/L	Prepared:	03/11/09 By: JDM
Dilution Factor:	1	Analyzed:	03/11/09 By: JDM
QC Batch:	0902882	Analytical Batch:	9031172

Volatile Organic Compounds by EPA Method 8260B

CAS Number	Analyte	Analytical Result	RL
67-64-1	Acetone	<20	20
107-13-1	Acrylonitrile	<2.0	2.0
71-43-2	Benzene	<1.0	1.0
108-86-1	Bromobenzene	<1.0	1.0
74-97-5	Bromochloromethane	<1.0	1.0
75-27-4	Bromodichloromethane	<1.0	1.0
75-25-2	Bromoform	<1.0	1.0
74-83-9	Bromomethane	<5.0	5.0
104-51-8	n-Butylbenzene	<1.0	1.0
135-98-8	sec-Butylbenzene	<1.0	1.0
98-06-6	tert-Butylbenzene	<1.0	1.0
75-15-0	Carbon Disulfide	<1.0	1.0
56-23-5	Carbon Tetrachloride	<1.0	1.0
108-90-7	Chlorobenzene	<1.0	1.0
75-00-3	Chloroethane	<5.0	5.0
67-66-3	Chloroform	<1.0	1.0
74-87-3	Chloromethane	<5.0	5.0
96-12-8	1,2-Dibromo-3-chloropropane	<5.0	5.0
124-48-1	Dibromochloromethane	<1.0	1.0
106-93-4	1,2-Dibromoethane	<1.0	1.0
74-95-3	Dibromomethane	<1.0	1.0
110-57-6	trans-1,4-Dichloro-2-butene	<1.0	1.0
95-50-1	1,2-Dichlorobenzene	<1.0	1.0
541-73-1	1,3-Dichlorobenzene	<1.0	1.0
106-46-7	1,4-Dichlorobenzene	<1.0	1.0
75-71-8	Dichlorodifluoromethane	<5.0	5.0
75-34-3	1,1-Dichloroethane	<1.0	1.0
107-06-2	1,2-Dichloroethane	<1.0	1.0
75-35-4	1,1-Dichloroethene	<1.0	1.0
156-59-2	cis-1,2-Dichloroethene	<1.0	1.0
156-60-5	trans-1,2-Dichloroethene	<1.0	1.0

Continued on next page

ANALYTICAL REPORT

Client:	**RMT, Inc. - Ann Arbor Office**	Work Order:	**0903159**
Project:	Tecumseh Products	Description:	Laboratory Services
Client Sample ID:	**B-4 (29'-33')**	Sampled:	03/10/09 10:35
Lab Sample ID:	**0903159-03**	Sampled By:	John Bacon
Matrix:	Water	Received:	03/11/09 09:15
Unit:	ug/L	Prepared:	03/11/09 By: JDM
Dilution Factor:	1	Analyzed:	03/11/09 By: JDM
QC Batch:	0902882	Analytical Batch:	9031172

Volatile Organic Compounds by EPA Method 8260B (Continued)

CAS Number	Analyte	Analytical Result	RL
78-87-5	1,2-Dichloropropane	<1.0	1.0
10061-01-5	cis-1,3-Dichloropropene	<1.0	1.0
10061-02-6	trans-1,3-Dichloropropene	<1.0	1.0
100-41-4	Ethylbenzene	<1.0	1.0
60-29-7	Ethyl Ether	<5.0	5.0
591-78-6	2-Hexanone	<5.0	5.0
74-88-4	Iodomethane	<1.0	1.0
98-82-8	Isopropylbenzene	<1.0	1.0
99-87-6	4-Isopropyltoluene	<5.0	5.0
1634-04-4	Methyl tert-Butyl Ether	<5.0	5.0
75-09-2	Methylene Chloride	<5.0	5.0
78-93-3	2-Butanone (MEK)	<5.0	5.0
91-57-6	2-Methylnaphthalene	<5.0	5.0
108-10-1	4-Methyl-2-pentanone (MIBK)	<5.0	5.0
91-20-3	Naphthalene	<5.0	5.0
103-65-1	n-Propylbenzene	<1.0	1.0
100-42-5	Styrene	<1.0	1.0
630-20-6	1,1,1,2-Tetrachloroethane	<1.0	1.0
79-34-5	1,1,2,2-Tetrachloroethane	<1.0	1.0
127-18-4	Tetrachloroethene	<1.0	1.0
109-99-9	Tetrahydrofuran	<5.0	5.0
108-88-3	Toluene	<1.0	1.0
87-61-6	1,2,3-Trichlorobenzene	<5.0	5.0
120-82-1	1,2,4-Trichlorobenzene	<5.0	5.0
71-55-6	1,1,1-Trichloroethane	<1.0	1.0
79-00-5	1,1,2-Trichloroethane	<1.0	1.0
79-01-6	Trichloroethene	<1.0	1.0
75-69-4	Trichlorofluoromethane	<1.0	1.0
96-18-4	1,2,3-Trichloropropane	<1.0	1.0
95-63-6	1,2,4-Trimethylbenzene	<1.0	1.0
108-67-8	1,3,5-Trimethylbenzene	<1.0	1.0

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ANALYTICAL REPORT

Client:	**RMT, Inc. - Ann Arbor Office**	Work Order:	**0903159**
Project:	Tecumseh Products	Description:	Laboratory Services
Client Sample ID:	**B-4 (29'-33')**	Sampled:	03/10/09 10:35
Lab Sample ID:	**0903159-03**	Sampled By:	John Bacon
Matrix:	Water	Received:	03/11/09 09:15
Unit:	ug/L	Prepared:	03/11/09 By: JDM
Dilution Factor:	1	Analyzed:	03/11/09 By: JDM
QC Batch:	0902882	Analytical Batch:	9031172

Volatile Organic Compounds by EPA Method 8260B (Continued)

CAS Number	Analyte	Analytical Result	RL
75-01-4	Vinyl Chloride	<1.0	1.0
136777-61-2	Xylene, Meta + Para	<2.0	2.0
95-47-6	Xylene, Ortho	<1.0	1.0

Surrogates:	*% Recovery*	*Control Limits*
Dibromofluoromethane	103	*88-115*
1,2-Dichloroethane-d4	101	*81-116*
Toluene-d8	102	*87-113*
4-Bromofluorobenzene	101	*78-116*

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ANALYTICAL REPORT

Client:	**RMT, Inc. - Ann Arbor Office**	Work Order:	**0903159**
Project:	Tecumseh Products	Description:	Laboratory Services
Client Sample ID:	**B-4 (19'-23')**	Sampled:	03/10/09 11:12
Lab Sample ID:	**0903159-04**	Sampled By:	John Bacon
Matrix:	Water	Received:	03/11/09 09:15
Unit:	ug/L	Prepared:	03/11/09 By: JDM
Dilution Factor:	1	Analyzed:	03/11/09 By: JDM
QC Batch:	0902882	Analytical Batch:	9031172

Volatile Organic Compounds by EPA Method 8260B

CAS Number	Analyte	Analytical Result	RL
67-64-1	Acetone	<20	20
107-13-1	Acrylonitrile	<2.0	2.0
71-43-2	Benzene	<1.0	1.0
108-86-1	Bromobenzene	<1.0	1.0
74-97-5	Bromochloromethane	<1.0	1.0
75-27-4	Bromodichloromethane	<1.0	1.0
75-25-2	Bromoform	<1.0	1.0
74-83-9	Bromomethane	<5.0	5.0
104-51-8	n-Butylbenzene	<1.0	1.0
135-98-8	sec-Butylbenzene	<1.0	1.0
98-06-6	tert-Butylbenzene	<1.0	1.0
75-15-0	Carbon Disulfide	<1.0	1.0
56-23-5	Carbon Tetrachloride	<1.0	1.0
108-90-7	Chlorobenzene	<1.0	1.0
75-00-3	Chloroethane	<5.0	5.0
67-66-3	Chloroform	<1.0	1.0
74-87-3	Chloromethane	<5.0	5.0
96-12-8	1,2-Dibromo-3-chloropropane	<5.0	5.0
124-48-1	Dibromochloromethane	<1.0	1.0
106-93-4	1,2-Dibromoethane	<1.0	1.0
74-95-3	Dibromomethane	<1.0	1.0
110-57-6	trans-1,4-Dichloro-2-butene	<1.0	1.0
95-50-1	1,2-Dichlorobenzene	<1.0	1.0
541-73-1	1,3-Dichlorobenzene	<1.0	1.0
106-46-7	1,4-Dichlorobenzene	<1.0	1.0
75-71-8	Dichlorodifluoromethane	<5.0	5.0
75-34-3	1,1-Dichloroethane	<1.0	1.0
107-06-2	1,2-Dichloroethane	<1.0	1.0
75-35-4	1,1-Dichloroethene	<1.0	1.0
156-59-2	cis-1,2-Dichloroethene	<1.0	1.0
156-60-5	trans-1,2-Dichloroethene	<1.0	1.0

Continued on next page

ANALYTICAL REPORT

Client:	**RMT, Inc. - Ann Arbor Office**	Work Order:	**0903159**
Project:	Tecumseh Products	Description:	Laboratory Services
Client Sample ID:	**B-4 (19'-23')**	Sampled:	03/10/09 11:12
Lab Sample ID:	**0903159-04**	Sampled By:	John Bacon
Matrix:	Water	Received:	03/11/09 09:15
Unit:	ug/L	Prepared:	03/11/09 By: JDM
Dilution Factor:	1	Analyzed:	03/11/09 By: JDM
QC Batch:	0902882	Analytical Batch:	9031172

Volatile Organic Compounds by EPA Method 8260B (Continued)

CAS Number	Analyte	Analytical Result	RL
78-87-5	1,2-Dichloropropane	<1.0	1.0
10061-01-5	cis-1,3-Dichloropropene	<1.0	1.0
10061-02-6	trans-1,3-Dichloropropene	<1.0	1.0
100-41-4	Ethylbenzene	<1.0	1.0
60-29-7	Ethyl Ether	<5.0	5.0
591-78-6	2-Hexanone	<5.0	5.0
74-88-4	Iodomethane	<1.0	1.0
98-82-8	Isopropylbenzene	<1.0	1.0
99-87-6	4-Isopropyltoluene	<5.0	5.0
1634-04-4	Methyl tert-Butyl Ether	<5.0	5.0
75-09-2	Methylene Chloride	<5.0	5.0
78-93-3	2-Butanone (MEK)	<5.0	5.0
91-57-6	2-Methylnaphthalene	<5.0	5.0
108-10-1	4-Methyl-2-pentanone (MIBK)	<5.0	5.0
91-20-3	Naphthalene	<5.0	5.0
103-65-1	n-Propylbenzene	<1.0	1.0
100-42-5	Styrene	<1.0	1.0
630-20-6	1,1,1,2-Tetrachloroethane	<1.0	1.0
79-34-5	1,1,2,2-Tetrachloroethane	<1.0	1.0
127-18-4	Tetrachloroethene	<1.0	1.0
109-99-9	Tetrahydrofuran	<5.0	5.0
108-88-3	Toluene	<1.0	1.0
87-61-6	1,2,3-Trichlorobenzene	<5.0	5.0
120-82-1	1,2,4-Trichlorobenzene	<5.0	5.0
71-55-6	1,1,1-Trichloroethane	<1.0	1.0
79-00-5	1,1,2-Trichloroethane	<1.0	1.0
79-01-6	Trichloroethene	<1.0	1.0
75-69-4	Trichlorofluoromethane	<1.0	1.0
96-18-4	1,2,3-Trichloropropane	<1.0	1.0
95-63-6	1,2,4-Trimethylbenzene	<1.0	1.0
108-67-8	1,3,5-Trimethylbenzene	<1.0	1.0

Continued on next page

ANALYTICAL REPORT

Client:	**RMT, Inc. - Ann Arbor Office**	Work Order:	**0903159**
Project:	Tecumseh Products	Description:	Laboratory Services
Client Sample ID:	**B-4 (19'-23')**	Sampled:	03/10/09 11:12
Lab Sample ID:	**0903159-04**	Sampled By:	John Bacon
Matrix:	Water	Received:	03/11/09 09:15
Unit:	ug/L	Prepared:	03/11/09 By: JDM
Dilution Factor:	1	Analyzed:	03/11/09 By: JDM
QC Batch:	0902882	Analytical Batch:	9031172

Volatile Organic Compounds by EPA Method 8260B (Continued)

CAS Number	Analyte	Analytical Result	RL
75-01-4	Vinyl Chloride	**12**	1.0
136777-61-2	Xylene, Meta + Para	<2.0	2.0
95-47-6	Xylene, Ortho	<1.0	1.0

Surrogates:	*% Recovery*	*Control Limits*
Dibromofluoromethane	104	*88-115*
1,2-Dichloroethane-d4	98	*81-116*
Toluene-d8	102	*87-113*
4-Bromofluorobenzene	102	*78-116*

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ANALYTICAL REPORT

Client:	**RMT, Inc. - Ann Arbor Office**	Work Order:	**0903159**
Project:	Tecumseh Products	Description:	Laboratory Services
Client Sample ID:	**B-5 (22'-26')**	Sampled:	03/10/09 12:16
Lab Sample ID:	**0903159-05**	Sampled By:	John Bacon
Matrix:	Water	Received:	03/11/09 09:15
Unit:	ug/L	Prepared:	03/11/09 By: JDM
Dilution Factor:	1	Analyzed:	03/11/09 By: JDM
QC Batch:	0902882	Analytical Batch:	9031172

Volatile Organic Compounds by EPA Method 8260B

CAS Number	Analyte	Analytical Result	RL
67-64-1	Acetone	<20	20
107-13-1	Acrylonitrile	<2.0	2.0
71-43-2	Benzene	<1.0	1.0
108-86-1	Bromobenzene	<1.0	1.0
74-97-5	Bromochloromethane	<1.0	1.0
75-27-4	Bromodichloromethane	<1.0	1.0
75-25-2	Bromoform	<1.0	1.0
74-83-9	Bromomethane	<5.0	5.0
104-51-8	n-Butylbenzene	<1.0	1.0
135-98-8	sec-Butylbenzene	<1.0	1.0
98-06-6	tert-Butylbenzene	<1.0	1.0
75-15-0	Carbon Disulfide	<1.0	1.0
56-23-5	Carbon Tetrachloride	<1.0	1.0
108-90-7	Chlorobenzene	<1.0	1.0
75-00-3	Chloroethane	<5.0	5.0
67-66-3	Chloroform	<1.0	1.0
74-87-3	Chloromethane	<5.0	5.0
96-12-8	1,2-Dibromo-3-chloropropane	<5.0	5.0
124-48-1	Dibromochloromethane	<1.0	1.0
106-93-4	1,2-Dibromoethane	<1.0	1.0
74-95-3	Dibromomethane	<1.0	1.0
110-57-6	trans-1,4-Dichloro-2-butene	<1.0	1.0
95-50-1	1,2-Dichlorobenzene	<1.0	1.0
541-73-1	1,3-Dichlorobenzene	<1.0	1.0
106-46-7	1,4-Dichlorobenzene	<1.0	1.0
75-71-8	Dichlorodifluoromethane	<5.0	5.0
75-34-3	1,1-Dichloroethane	<1.0	1.0
107-06-2	1,2-Dichloroethane	<1.0	1.0
75-35-4	1,1-Dichloroethene	<1.0	1.0
156-59-2	cis-1,2-Dichloroethene	<1.0	1.0
156-60-5	trans-1,2-Dichloroethene	<1.0	1.0

Continued on next page

ANALYTICAL REPORT

Client:	**RMT, Inc. - Ann Arbor Office**	Work Order:	**0903159**
Project:	Tecumseh Products	Description:	Laboratory Services
Client Sample ID:	**B-5 (22'-26')**	Sampled:	03/10/09 12:16
Lab Sample ID:	**0903159-05**	Sampled By:	John Bacon
Matrix:	Water	Received:	03/11/09 09:15
Unit:	ug/L	Prepared:	03/11/09 By: JDM
Dilution Factor:	1	Analyzed:	03/11/09 By: JDM
QC Batch:	0902882	Analytical Batch:	9031172

Volatile Organic Compounds by EPA Method 8260B (Continued)

CAS Number	Analyte	Analytical Result	RL
78-87-5	1,2-Dichloropropane	<1.0	1.0
10061-01-5	cis-1,3-Dichloropropene	<1.0	1.0
10061-02-6	trans-1,3-Dichloropropene	<1.0	1.0
100-41-4	Ethylbenzene	<1.0	1.0
60-29-7	Ethyl Ether	<5.0	5.0
591-78-6	2-Hexanone	<5.0	5.0
74-88-4	Iodomethane	<1.0	1.0
98-82-8	Isopropylbenzene	<1.0	1.0
99-87-6	4-Isopropyltoluene	<5.0	5.0
1634-04-4	Methyl tert-Butyl Ether	<5.0	5.0
75-09-2	Methylene Chloride	<5.0	5.0
78-93-3	2-Butanone (MEK)	<5.0	5.0
91-57-6	2-Methylnaphthalene	<5.0	5.0
108-10-1	4-Methyl-2-pentanone (MIBK)	<5.0	5.0
91-20-3	Naphthalene	<5.0	5.0
103-65-1	n-Propylbenzene	<1.0	1.0
100-42-5	Styrene	<1.0	1.0
630-20-6	1,1,1,2-Tetrachloroethane	<1.0	1.0
79-34-5	1,1,2,2-Tetrachloroethane	<1.0	1.0
127-18-4	Tetrachloroethene	<1.0	1.0
109-99-9	Tetrahydrofuran	<5.0	5.0
108-88-3	Toluene	<1.0	1.0
87-61-6	1,2,3-Trichlorobenzene	<5.0	5.0
120-82-1	1,2,4-Trichlorobenzene	<5.0	5.0
71-55-6	1,1,1-Trichloroethane	<1.0	1.0
79-00-5	1,1,2-Trichloroethane	<1.0	1.0
79-01-6	Trichloroethene	<1.0	1.0
75-69-4	Trichlorofluoromethane	<1.0	1.0
96-18-4	1,2,3-Trichloropropane	<1.0	1.0
95-63-6	1,2,4-Trimethylbenzene	<1.0	1.0
108-67-8	1,3,5-Trimethylbenzene	<1.0	1.0

Continued on next page

ANALYTICAL REPORT

Client:	**RMT, Inc. - Ann Arbor Office**	Work Order:	**0903159**
Project:	Tecumseh Products	Description:	Laboratory Services
Client Sample ID:	**B-5 (22'-26')**	Sampled:	03/10/09 12:16
Lab Sample ID:	**0903159-05**	Sampled By:	John Bacon
Matrix:	Water	Received:	03/11/09 09:15
Unit:	ug/L	Prepared:	03/11/09 By: JDM
Dilution Factor:	1	Analyzed:	03/11/09 By: JDM
QC Batch:	0902882	Analytical Batch:	9031172

Volatile Organic Compounds by EPA Method 8260B (Continued)

CAS Number	Analyte	Analytical Result	RL
75-01-4	Vinyl Chloride	**3.7**	1.0
136777-61-2	Xylene, Meta + Para	<2.0	2.0
95-47-6	Xylene, Ortho	<1.0	1.0

Surrogates:	*% Recovery*	*Control Limits*
Dibromofluoromethane	103	*88-115*
1,2-Dichloroethane-d4	100	*81-116*
Toluene-d8	101	*87-113*
4-Bromofluorobenzene	103	*78-116*

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ANALYTICAL REPORT

Client:	**RMT, Inc. - Ann Arbor Office**	Work Order:	**0903159**
Project:	Tecumseh Products	Description:	Laboratory Services
Client Sample ID:	**B-5 (14'-18)**	Sampled:	03/10/09 12:48
Lab Sample ID:	**0903159-06**	Sampled By:	John Bacon
Matrix:	Water	Received:	03/11/09 09:15
Unit:	ug/L	Prepared:	03/11/09 By: JDM
Dilution Factor:	1	Analyzed:	03/11/09 By: JDM
QC Batch:	0902882	Analytical Batch:	9031172

Volatile Organic Compounds by EPA Method 8260B

CAS Number	Analyte	Analytical Result	RL
67-64-1	Acetone	<20	20
107-13-1	Acrylonitrile	<2.0	2.0
71-43-2	Benzene	<1.0	1.0
108-86-1	Bromobenzene	<1.0	1.0
74-97-5	Bromochloromethane	<1.0	1.0
75-27-4	Bromodichloromethane	<1.0	1.0
75-25-2	Bromoform	<1.0	1.0
74-83-9	Bromomethane	<5.0	5.0
104-51-8	n-Butylbenzene	<1.0	1.0
135-98-8	sec-Butylbenzene	<1.0	1.0
98-06-6	tert-Butylbenzene	<1.0	1.0
75-15-0	Carbon Disulfide	<1.0	1.0
56-23-5	Carbon Tetrachloride	<1.0	1.0
108-90-7	Chlorobenzene	<1.0	1.0
75-00-3	Chloroethane	<5.0	5.0
67-66-3	Chloroform	<1.0	1.0
74-87-3	Chloromethane	<5.0	5.0
96-12-8	1,2-Dibromo-3-chloropropane	<5.0	5.0
124-48-1	Dibromochloromethane	<1.0	1.0
106-93-4	1,2-Dibromoethane	<1.0	1.0
74-95-3	Dibromomethane	<1.0	1.0
110-57-6	trans-1,4-Dichloro-2-butene	<1.0	1.0
95-50-1	1,2-Dichlorobenzene	<1.0	1.0
541-73-1	1,3-Dichlorobenzene	<1.0	1.0
106-46-7	1,4-Dichlorobenzene	<1.0	1.0
75-71-8	Dichlorodifluoromethane	<5.0	5.0
75-34-3	1,1-Dichloroethane	<1.0	1.0
107-06-2	1,2-Dichloroethane	<1.0	1.0
75-35-4	1,1-Dichloroethene	<1.0	1.0
156-59-2	cis-1,2-Dichloroethene	<1.0	1.0
156-60-5	trans-1,2-Dichloroethene	<1.0	1.0

Continued on next page

ANALYTICAL REPORT

Client:	**RMT, Inc. - Ann Arbor Office**	Work Order:	**0903159**
Project:	Tecumseh Products	Description:	Laboratory Services
Client Sample ID:	**B-5 (14'-18)**	Sampled:	03/10/09 12:48
Lab Sample ID:	**0903159-06**	Sampled By:	John Bacon
Matrix:	Water	Received:	03/11/09 09:15
Unit:	ug/L	Prepared:	03/11/09 By: JDM
Dilution Factor:	1	Analyzed:	03/11/09 By: JDM
QC Batch:	0902882	Analytical Batch:	9031172

Volatile Organic Compounds by EPA Method 8260B (Continued)

CAS Number	Analyte	Analytical Result	RL
78-87-5	1,2-Dichloropropane	<1.0	1.0
10061-01-5	cis-1,3-Dichloropropene	<1.0	1.0
10061-02-6	trans-1,3-Dichloropropene	<1.0	1.0
100-41-4	Ethylbenzene	<1.0	1.0
60-29-7	Ethyl Ether	<5.0	5.0
591-78-6	2-Hexanone	<5.0	5.0
74-88-4	Iodomethane	<1.0	1.0
98-82-8	Isopropylbenzene	<1.0	1.0
99-87-6	4-Isopropyltoluene	<5.0	5.0
1634-04-4	Methyl tert-Butyl Ether	<5.0	5.0
75-09-2	Methylene Chloride	<5.0	5.0
78-93-3	2-Butanone (MEK)	<5.0	5.0
91-57-6	2-Methylnaphthalene	<5.0	5.0
108-10-1	4-Methyl-2-pentanone (MIBK)	<5.0	5.0
91-20-3	Naphthalene	<5.0	5.0
103-65-1	n-Propylbenzene	<1.0	1.0
100-42-5	Styrene	<1.0	1.0
630-20-6	1,1,1,2-Tetrachloroethane	<1.0	1.0
79-34-5	1,1,2,2-Tetrachloroethane	<1.0	1.0
127-18-4	Tetrachloroethene	<1.0	1.0
109-99-9	Tetrahydrofuran	<5.0	5.0
108-88-3	Toluene	<1.0	1.0
87-61-6	1,2,3-Trichlorobenzene	<5.0	5.0
120-82-1	1,2,4-Trichlorobenzene	<5.0	5.0
71-55-6	1,1,1-Trichloroethane	<1.0	1.0
79-00-5	1,1,2-Trichloroethane	<1.0	1.0
79-01-6	Trichloroethene	<1.0	1.0
75-69-4	Trichlorofluoromethane	<1.0	1.0
96-18-4	1,2,3-Trichloropropane	<1.0	1.0
95-63-6	1,2,4-Trimethylbenzene	<1.0	1.0
108-67-8	1,3,5-Trimethylbenzene	<1.0	1.0

Continued on next page

ANALYTICAL REPORT

Client:	**RMT, Inc. - Ann Arbor Office**	Work Order:	**0903159**
Project:	Tecumseh Products	Description:	Laboratory Services
Client Sample ID:	**B-5 (14'-18)**	Sampled:	03/10/09 12:48
Lab Sample ID:	**0903159-06**	Sampled By:	John Bacon
Matrix:	Water	Received:	03/11/09 09:15
Unit:	ug/L	Prepared:	03/11/09 By: JDM
Dilution Factor:	1	Analyzed:	03/11/09 By: JDM
QC Batch:	0902882	Analytical Batch:	9031172

Volatile Organic Compounds by EPA Method 8260B (Continued)

CAS Number	Analyte	Analytical Result	RL
75-01-4	Vinyl Chloride	**11**	1.0
136777-61-2	Xylene, Meta + Para	<2.0	2.0
95-47-6	Xylene, Ortho	<1.0	1.0

Surrogates:	*% Recovery*	*Control Limits*
Dibromofluoromethane	103	*88-115*
1,2-Dichloroethane-d4	101	*81-116*
Toluene-d8	102	*87-113*
4-Bromofluorobenzene	102	*78-116*

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ANALYTICAL REPORT

Client:	**RMT, Inc. - Ann Arbor Office**	Work Order:	**0903159**
Project:	Tecumseh Products	Description:	Laboratory Services
Client Sample ID:	**Dup-01**	Sampled:	03/10/09 00:00
Lab Sample ID:	**0903159-07**	Sampled By:	John Bacon
Matrix:	Water	Received:	03/11/09 09:15
Unit:	ug/L	Prepared:	03/11/09 By: JDM
Dilution Factor:	1	Analyzed:	03/11/09 By: JDM
QC Batch:	0902882	Analytical Batch:	9031172

Volatile Organic Compounds by EPA Method 8260B

CAS Number	Analyte	Analytical Result	RL
67-64-1	Acetone	<20	20
107-13-1	Acrylonitrile	<2.0	2.0
71-43-2	Benzene	<1.0	1.0
108-86-1	Bromobenzene	<1.0	1.0
74-97-5	Bromochloromethane	<1.0	1.0
75-27-4	Bromodichloromethane	<1.0	1.0
75-25-2	Bromoform	<1.0	1.0
74-83-9	Bromomethane	<5.0	5.0
104-51-8	n-Butylbenzene	<1.0	1.0
135-98-8	sec-Butylbenzene	<1.0	1.0
98-06-6	tert-Butylbenzene	<1.0	1.0
75-15-0	Carbon Disulfide	<1.0	1.0
56-23-5	Carbon Tetrachloride	<1.0	1.0
108-90-7	Chlorobenzene	<1.0	1.0
75-00-3	Chloroethane	<5.0	5.0
67-66-3	Chloroform	<1.0	1.0
74-87-3	Chloromethane	<5.0	5.0
96-12-8	1,2-Dibromo-3-chloropropane	<5.0	5.0
124-48-1	Dibromochloromethane	<1.0	1.0
106-93-4	1,2-Dibromoethane	<1.0	1.0
74-95-3	Dibromomethane	<1.0	1.0
110-57-6	trans-1,4-Dichloro-2-butene	<1.0	1.0
95-50-1	1,2-Dichlorobenzene	<1.0	1.0
541-73-1	1,3-Dichlorobenzene	<1.0	1.0
106-46-7	1,4-Dichlorobenzene	<1.0	1.0
75-71-8	Dichlorodifluoromethane	<5.0	5.0
75-34-3	1,1-Dichloroethane	<1.0	1.0
107-06-2	1,2-Dichloroethane	<1.0	1.0
75-35-4	1,1-Dichloroethene	<1.0	1.0
156-59-2	cis-1,2-Dichloroethene	<1.0	1.0
156-60-5	trans-1,2-Dichloroethene	<1.0	1.0

Continued on next page

ANALYTICAL REPORT

Client:	**RMT, Inc. - Ann Arbor Office**	Work Order:	**0903159**
Project:	Tecumseh Products	Description:	Laboratory Services
Client Sample ID:	**Dup-01**	Sampled:	03/10/09 00:00
Lab Sample ID:	**0903159-07**	Sampled By:	John Bacon
Matrix:	Water	Received:	03/11/09 09:15
Unit:	ug/L	Prepared:	03/11/09 By: JDM
Dilution Factor:	1	Analyzed:	03/11/09 By: JDM
QC Batch:	0902882	Analytical Batch:	9031172

Volatile Organic Compounds by EPA Method 8260B (Continued)

CAS Number	Analyte	Analytical Result	RL
78-87-5	1,2-Dichloropropane	<1.0	1.0
10061-01-5	cis-1,3-Dichloropropene	<1.0	1.0
10061-02-6	trans-1,3-Dichloropropene	<1.0	1.0
100-41-4	Ethylbenzene	<1.0	1.0
60-29-7	Ethyl Ether	<5.0	5.0
591-78-6	2-Hexanone	<5.0	5.0
74-88-4	Iodomethane	<1.0	1.0
98-82-8	Isopropylbenzene	<1.0	1.0
99-87-6	4-Isopropyltoluene	<5.0	5.0
1634-04-4	Methyl tert-Butyl Ether	<5.0	5.0
75-09-2	Methylene Chloride	<5.0	5.0
78-93-3	2-Butanone (MEK)	<5.0	5.0
91-57-6	2-Methylnaphthalene	<5.0	5.0
108-10-1	4-Methyl-2-pentanone (MIBK)	<5.0	5.0
91-20-3	Naphthalene	<5.0	5.0
103-65-1	n-Propylbenzene	<1.0	1.0
100-42-5	Styrene	<1.0	1.0
630-20-6	1,1,1,2-Tetrachloroethane	<1.0	1.0
79-34-5	1,1,2,2-Tetrachloroethane	<1.0	1.0
127-18-4	Tetrachloroethene	<1.0	1.0
109-99-9	Tetrahydrofuran	<5.0	5.0
108-88-3	Toluene	<1.0	1.0
87-61-6	1,2,3-Trichlorobenzene	<5.0	5.0
120-82-1	1,2,4-Trichlorobenzene	<5.0	5.0
71-55-6	1,1,1-Trichloroethane	<1.0	1.0
79-00-5	1,1,2-Trichloroethane	<1.0	1.0
79-01-6	Trichloroethene	<1.0	1.0
75-69-4	Trichlorofluoromethane	<1.0	1.0
96-18-4	1,2,3-Trichloropropane	<1.0	1.0
95-63-6	1,2,4-Trimethylbenzene	<1.0	1.0
108-67-8	1,3,5-Trimethylbenzene	<1.0	1.0

Continued on next page

ANALYTICAL REPORT

Client:	**RMT, Inc. - Ann Arbor Office**	Work Order:	**0903159**
Project:	Tecumseh Products	Description:	Laboratory Services
Client Sample ID:	**Dup-01**	Sampled:	03/10/09 00:00
Lab Sample ID:	**0903159-07**	Sampled By:	John Bacon
Matrix:	Water	Received:	03/11/09 09:15
Unit:	ug/L	Prepared:	03/11/09 By: JDM
Dilution Factor:	1	Analyzed:	03/11/09 By: JDM
QC Batch:	0902882	Analytical Batch:	9031172

Volatile Organic Compounds by EPA Method 8260B (Continued)

CAS Number	Analyte	Analytical Result	RL
75-01-4	Vinyl Chloride	**12**	1.0
136777-61-2	Xylene, Meta + Para	<2.0	2.0
95-47-6	Xylene, Ortho	<1.0	1.0

Surrogates:	*% Recovery*	*Control Limits*
Dibromofluoromethane	104	*88-115*
1,2-Dichloroethane-d4	101	*81-116*
Toluene-d8	103	*87-113*
4-Bromofluorobenzene	102	*78-116*

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ANALYTICAL REPORT

Client:	**RMT, Inc. - Ann Arbor Office**	Work Order:	**0903159**
Project:	Tecumseh Products	Description:	Laboratory Services
Client Sample ID:	**TB-02**	Sampled:	03/04/09 20:29
Lab Sample ID:	**0903159-08**	Sampled By:	John Bacon
Matrix:	Water	Received:	03/11/09 09:15
Unit:	ug/L	Prepared:	03/11/09 By: JDM
Dilution Factor:	1	Analyzed:	03/11/09 By: JDM
QC Batch:	0902882	Analytical Batch:	9031172

Volatile Organic Compounds by EPA Method 8260B

CAS Number	Analyte	Analytical Result	RL
67-64-1	Acetone	<20	20
107-13-1	Acrylonitrile	<2.0	2.0
71-43-2	Benzene	<1.0	1.0
108-86-1	Bromobenzene	<1.0	1.0
74-97-5	Bromochloromethane	<1.0	1.0
75-27-4	Bromodichloromethane	<1.0	1.0
75-25-2	Bromoform	<1.0	1.0
74-83-9	Bromomethane	<5.0	5.0
104-51-8	n-Butylbenzene	<1.0	1.0
135-98-8	sec-Butylbenzene	<1.0	1.0
98-06-6	tert-Butylbenzene	<1.0	1.0
75-15-0	Carbon Disulfide	<1.0	1.0
56-23-5	Carbon Tetrachloride	<1.0	1.0
108-90-7	Chlorobenzene	<1.0	1.0
75-00-3	Chloroethane	<5.0	5.0
67-66-3	Chloroform	<1.0	1.0
74-87-3	Chloromethane	<5.0	5.0
96-12-8	1,2-Dibromo-3-chloropropane	<5.0	5.0
124-48-1	Dibromochloromethane	<1.0	1.0
106-93-4	1,2-Dibromoethane	<1.0	1.0
74-95-3	Dibromomethane	<1.0	1.0
110-57-6	trans-1,4-Dichloro-2-butene	<1.0	1.0
95-50-1	1,2-Dichlorobenzene	<1.0	1.0
541-73-1	1,3-Dichlorobenzene	<1.0	1.0
106-46-7	1,4-Dichlorobenzene	<1.0	1.0
75-71-8	Dichlorodifluoromethane	<5.0	5.0
75-34-3	1,1-Dichloroethane	<1.0	1.0
107-06-2	1,2-Dichloroethane	<1.0	1.0
75-35-4	1,1-Dichloroethene	<1.0	1.0
156-59-2	cis-1,2-Dichloroethene	<1.0	1.0
156-60-5	trans-1,2-Dichloroethene	<1.0	1.0

Continued on next page

ANALYTICAL REPORT

Client:	**RMT, Inc. - Ann Arbor Office**	Work Order:	**0903159**
Project:	Tecumseh Products	Description:	Laboratory Services
Client Sample ID:	**TB-02**	Sampled:	03/04/09 20:29
Lab Sample ID:	**0903159-08**	Sampled By:	John Bacon
Matrix:	Water	Received:	03/11/09 09:15
Unit:	ug/L	Prepared:	03/11/09 By: JDM
Dilution Factor:	1	Analyzed:	03/11/09 By: JDM
QC Batch:	0902882	Analytical Batch:	9031172

Volatile Organic Compounds by EPA Method 8260B (Continued)

CAS Number	Analyte	Analytical Result	RL
78-87-5	1,2-Dichloropropane	<1.0	1.0
10061-01-5	cis-1,3-Dichloropropene	<1.0	1.0
10061-02-6	trans-1,3-Dichloropropene	<1.0	1.0
100-41-4	Ethylbenzene	<1.0	1.0
60-29-7	Ethyl Ether	<5.0	5.0
591-78-6	2-Hexanone	<5.0	5.0
74-88-4	Iodomethane	<1.0	1.0
98-82-8	Isopropylbenzene	<1.0	1.0
99-87-6	4-Isopropyltoluene	<5.0	5.0
1634-04-4	Methyl tert-Butyl Ether	<5.0	5.0
75-09-2	Methylene Chloride	<5.0	5.0
78-93-3	2-Butanone (MEK)	<5.0	5.0
91-57-6	2-Methylnaphthalene	<5.0	5.0
108-10-1	4-Methyl-2-pentanone (MIBK)	<5.0	5.0
91-20-3	Naphthalene	<5.0	5.0
103-65-1	n-Propylbenzene	<1.0	1.0
100-42-5	Styrene	<1.0	1.0
630-20-6	1,1,1,2-Tetrachloroethane	<1.0	1.0
79-34-5	1,1,2,2-Tetrachloroethane	<1.0	1.0
127-18-4	Tetrachloroethene	<1.0	1.0
109-99-9	Tetrahydrofuran	<5.0	5.0
108-88-3	Toluene	<1.0	1.0
87-61-6	1,2,3-Trichlorobenzene	<5.0	5.0
120-82-1	1,2,4-Trichlorobenzene	<5.0	5.0
71-55-6	1,1,1-Trichloroethane	<1.0	1.0
79-00-5	1,1,2-Trichloroethane	<1.0	1.0
79-01-6	Trichloroethene	<1.0	1.0
75-69-4	Trichlorofluoromethane	<1.0	1.0
96-18-4	1,2,3-Trichloropropane	<1.0	1.0
95-63-6	1,2,4-Trimethylbenzene	<1.0	1.0
108-67-8	1,3,5-Trimethylbenzene	<1.0	1.0

Continued on next page

ANALYTICAL REPORT

Client:	**RMT, Inc. - Ann Arbor Office**	Work Order:	**0903159**
Project:	Tecumseh Products	Description:	Laboratory Services
Client Sample ID:	**TB-02**	Sampled:	03/04/09 20:29
Lab Sample ID:	**0903159-08**	Sampled By:	John Bacon
Matrix:	Water	Received:	03/11/09 09:15
Unit:	ug/L	Prepared:	03/11/09 By: JDM
Dilution Factor:	1	Analyzed:	03/11/09 By: JDM
QC Batch:	0902882	Analytical Batch:	9031172

Volatile Organic Compounds by EPA Method 8260B (Continued)

CAS Number	Analyte	Analytical Result	RL
75-01-4	Vinyl Chloride	<1.0	1.0
136777-61-2	Xylene, Meta + Para	<2.0	2.0
95-47-6	Xylene, Ortho	<1.0	1.0

Surrogates:	*% Recovery*	*Control Limits*
Dibromofluoromethane	102	*88-115*
1,2-Dichloroethane-d4	99	*81-116*
Toluene-d8	101	*87-113*
4-Bromofluorobenzene	100	*78-116*

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QUALITY CONTROL REPORT

Volatile Organic Compounds by EPA Method 8260B

Analyte	Sample Conc.	Spike Qty.	Result	Spike % Rec.	Control Limits	RPD	RPD Limits	RL

QC Batch: 0902882 5030B Aqueous Purge & Trap/USEPA-8260B

Method Blank Analyzed: 03/11/2009 By: JDM

Unit: ug/L Analytical Batch: 9031172

Acetone			<20					20
Acrylonitrile			<2.0					2.0
Benzene			<1.0					1.0
Bromobenzene			<1.0					1.0
Bromochloromethane			<1.0					1.0
Bromodichloromethane			<1.0					1.0
Bromoform			<1.0					1.0
Bromomethane			<5.0					5.0
n-Butylbenzene			<1.0					1.0
sec-Butylbenzene			<1.0					1.0
tert-Butylbenzene			<1.0					1.0
Carbon Disulfide			<1.0					1.0
Carbon Tetrachloride			<1.0					1.0
Chlorobenzene			<1.0					1.0
Chloroethane			<5.0					5.0
Chloroform			<1.0					1.0
Chloromethane			<5.0					5.0
1,2-Dibromo-3-chloropropane			<5.0					5.0
Dibromochloromethane			<1.0					1.0
1,2-Dibromoethane			<1.0					1.0
Dibromomethane			<1.0					1.0
trans-1,4-Dichloro-2-butene			<1.0					1.0
1,2-Dichlorobenzene			<1.0					1.0
1,3-Dichlorobenzene			<1.0					1.0
1,4-Dichlorobenzene			<1.0					1.0
Dichlorodifluoromethane			<5.0					5.0
1,1-Dichloroethane			<1.0					1.0
1,2-Dichloroethane			<1.0					1.0
1,1-Dichloroethene			<1.0					1.0
cis-1,2-Dichloroethene			<1.0					1.0
trans-1,2-Dichloroethene			<1.0					1.0
1,2-Dichloropropane			<1.0					1.0
cis-1,3-Dichloropropene			<1.0					1.0
trans-1,3-Dichloropropene			<1.0					1.0
Ethylbenzene			<1.0					1.0
Ethyl Ether			<5.0					5.0

Continued on next page

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QUALITY CONTROL REPORT

Volatile Organic Compounds by EPA Method 8260B (Continued)

Analyte	Sample Conc.	Spike Qty.	Result	Spike % Rec.	Control Limits	RPD	RPD Limits	RL

QC Batch: 0902882 (Continued) 5030B Aqueous Purge & Trap/USEPA-8260B

Method Blank (Continued) Analyzed: 03/11/2009 By: JDM
Unit: ug/L Analytical Batch: 9031172

2-Hexanone		<5.0				5.0
Iodomethane		<1.0				1.0
Isopropylbenzene		<1.0				1.0
4-Isopropyltoluene		<5.0				5.0
Methyl tert-Butyl Ether		<5.0				5.0
Methylene Chloride		<5.0				5.0
2-Butanone (MEK)		<5.0				5.0
2-Methylnaphthalene		<5.0				5.0
4-Methyl-2-pentanone (MIBK)		<5.0				5.0
Naphthalene		<5.0				5.0
n-Propylbenzene		<1.0				1.0
Styrene		<1.0				1.0
1,1,1,2-Tetrachloroethane		<1.0				1.0
1,1,2,2-Tetrachloroethane		<1.0				1.0
Tetrachloroethene		<1.0				1.0
Tetrahydrofuran		<5.0				5.0
Toluene		<1.0				1.0
1,2,3-Trichlorobenzene		<5.0				5.0
1,2,4-Trichlorobenzene		<5.0				5.0
1,1,1-Trichloroethane		<1.0				1.0
1,1,2-Trichloroethane		<1.0				1.0
Trichloroethene		<1.0				1.0
Trichlorofluoromethane		<1.0				1.0
1,2,3-Trichloropropane		<1.0				1.0
1,2,4-Trimethylbenzene		<1.0				1.0
1,3,5-Trimethylbenzene		<1.0				1.0
Vinyl Chloride		<1.0				1.0
Xylene, Meta + Para		<2.0				2.0
Xylene, Ortho		<1.0				1.0
Surrogates:						
Dibromofluoromethane				*102*	*88-115*	
1,2-Dichloroethane-d4				*101*	*81-116*	
Toluene-d8				*102*	*87-113*	
4-Bromofluorobenzene				*101*	*78-116*	

Laboratory Control Sample Analyzed: 03/11/2009 By: JDM
Unit: ug/L Analytical Batch: 9031172

Benzene		40.0	**40.9**	102	86-122	1.0

Continued on next page

QUALITY CONTROL REPORT

Volatile Organic Compounds by EPA Method 8260B (Continued)

Analyte	Sample Conc.	Spike Qty.	Result	Spike % Rec.	Control Limits	RPD	RPD Limits	RL

QC Batch: 0902882 (Continued) 5030B Aqueous Purge & Trap/USEPA-8260B

Laboratory Control Sample (Continued) Analyzed: 03/11/2009 By: JDM

Unit: ug/L Analytical Batch: 9031172

Chlorobenzene	40.0	**39.1**	98	88-114		1.0
1,1-Dichloroethene	40.0	**42.4**	106	81-125		1.0
Toluene	40.0	**40.7**	102	87-123		1.0
Trichloroethene	40.0	**40.9**	102	80-122		1.0
Surrogates:						
Dibromofluoromethane			*104*	*88-115*		
1,2-Dichloroethane-d4			*98*	*81-116*		
Toluene-d8			*102*	*87-113*		
4-Bromofluorobenzene			*103*	*78-116*		

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STATEMENT OF DATA QUALIFICATIONS

All analyses have been validated and comply with our Quality Control Program.
No Qualifications required.

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TriMatrix Laboratories, Inc.

5560 Corporate Exchange Court SE Grand Rapids, MI 49512
Phone (616) 975-4500 Fax (616) 942-7463
www.trimatrixlabs.com

Chain of Custody Record

COC No. 128049

Page 1 of 1

For Lab Use Only
Cart: ✓
VOA Rack/Tray: 112 Blue
Receipt Log No.: 9-5
Project Chemist:
Laboratory Project No.: 0903159

Client Name: BMT, Inc
Address: Ranchero Dr.
Ann Arbor, MI
Phone: 734-971-4080
Fax: 734-971-9022

Project Name: TOcumseh Products
Client Project No./P.O. No.: 8070,02
Invoice No. ☐ Client ☐ Other (comments)
Contact/Report To: John Bacon

Analyses Requested

PRESERVATIVES
A NONE pH~7
B HNO_3 pH<2
C H_2SO_4 pH<2
D 1+1 HCl pH<2
E NaOH pH>12
F ZnAc/NaOH pH>9
G MeOH
H Other (note below)

Test Group	Matrix Code	Laboratory Sample Number		Sample ID	Cooler ID	Sample Date	Sample Time	COMP	GRAB	Matrix	Container Type (corresponds to Container Packing List)	Number of Containers Submitted	Total	Sample Comments
											D	VOC's		
01		01	1	B-2 (33'-37')	2047	3-10-09	0900		X	GW		2	2	
		02	2	B-2 (22'-26')		3-10-09	0930		X	GW		2	2	
		03	3	B-4 (29-33')		3-10-09	1035		X	GW		2	2	
		04	4	B-4 (19'-23')		3-10-09	1112		X	GW		2	2	
		05	5	B-5 (22'-26')		3-10-09	1216		X	GW		2	2	
		06	6	B-5 (14'-18')		3-10-09	1248		X	GW		2	2	
		07	7	Dup-01		3-10-09	—		X	GW		2	2	
03		08	8	TB-02		3-4-09	2029		X	GW		1	1	
			9											
			10											

Sampled By (print): Scot Middlebrook
Sampler's Signature: Scot Middlebrook
Company: BMT, Inc

How Shipped? Hand Carrier UPS
Tracking No.

Comments: VOC's by 8260B
Samples need 24hr turnaround.

1. Relinquished By	Date	Time	2. Relinquished By	Date	Time	3. Relinquished By	Date	Time
Scot Middlebrook	3-10-09	1602	[illegible]	3/10/09	5:00PM			
1. Received By	Date	Time	2. Received By	Date	Time	3. Received For Lab By	Date	Time
[illegible]	3/10/09	1602	UPS			[illegible]	3/11/09	0915

March 17, 2009

RMT, Inc. - Ann Arbor Office
Attn: John Bacon
3754 Ranchero Drive
Ann Arbor, MI 48108-2771

Project: Tecumseh Products

Dear John Bacon,

Enclosed is a copy of the laboratory report, comprised of the following work order(s), for test samples received by TriMatrix Laboratories:

Work Order	Received	Description
0903247	03/13/2009	Laboratory Services

This report relates only to the sample(s), as received. Test results are in compliance with the requirements of the National Environmental Laboratory Accreditation Conference (NELAC). Any qualifications of results, including sample acceptance requirements, are explained in the Statement of Data Qualifications.

Estimates of analytical uncertainties for the test results contained within this report are available upon request.

If you have any questions or require further information, please do not hesitate to contact me.

Sincerely,

Jennifer L. Rice
Project Chemist

Enclosures(s)

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ANALYTICAL REPORT

Client:	**RMT, Inc. - Ann Arbor Office**	Work Order:	**0903247**
Project:	Tecumseh Products	Description:	Laboratory Services
Client Sample ID:	**Dup-02**	Sampled:	03/13/09 00:00
Lab Sample ID:	**0903247-01**	Sampled By:	S. Middlebrook
Matrix:	Water	Received:	03/13/09 20:50
Unit:	ug/L	Prepared:	03/16/09 By: JDM
Dilution Factor:	20	Analyzed:	03/16/09 By: JDM
QC Batch:	0903090	Analytical Batch:	9031647

Volatile Organic Compounds by EPA Method 8260B

CAS Number	Analyte	Analytical Result	RL
67-64-1	Acetone	<400	400
107-13-1	Acrylonitrile	<40	40
71-43-2	Benzene	<20	20
108-86-1	Bromobenzene	<20	20
74-97-5	Bromochloromethane	<20	20
75-27-4	Bromodichloromethane	<20	20
75-25-2	Bromoform	<20	20
74-83-9	Bromomethane	<100	100
104-51-8	n-Butylbenzene	<20	20
135-98-8	sec-Butylbenzene	<20	20
98-06-6	tert-Butylbenzene	<20	20
75-15-0	Carbon Disulfide	<20	20
56-23-5	Carbon Tetrachloride	<20	20
108-90-7	Chlorobenzene	<20	20
75-00-3	Chloroethane	<100	100
67-66-3	Chloroform	<20	20
74-87-3	Chloromethane	<100	100
96-12-8	1,2-Dibromo-3-chloropropane	<100	100
124-48-1	Dibromochloromethane	<20	20
106-93-4	1,2-Dibromoethane	<20	20
74-95-3	Dibromomethane	<20	20
110-57-6	trans-1,4-Dichloro-2-butene	<20	20
95-50-1	1,2-Dichlorobenzene	<20	20
541-73-1	1,3-Dichlorobenzene	<20	20
106-46-7	1,4-Dichlorobenzene	<20	20
75-71-8	Dichlorodifluoromethane	<100	100
75-34-3	1,1-Dichloroethane	<20	20
107-06-2	1,2-Dichloroethane	<20	20
75-35-4	1,1-Dichloroethene	<20	20
156-59-2	cis-1,2-Dichloroethene	<20	20
156-60-5	trans-1,2-Dichloroethene	<20	20

Continued on next page

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ANALYTICAL REPORT

Client:	**RMT, Inc. - Ann Arbor Office**	Work Order:	**0903247**
Project:	Tecumseh Products	Description:	Laboratory Services
Client Sample ID:	**Dup-02**	Sampled:	03/13/09 00:00
Lab Sample ID:	**0903247-01**	Sampled By:	S. Middlebrook
Matrix:	Water	Received:	03/13/09 20:50
Unit:	ug/L	Prepared:	03/16/09 By: JDM
Dilution Factor:	20	Analyzed:	03/16/09 By: JDM
QC Batch:	0903090	Analytical Batch:	9031647

Volatile Organic Compounds by EPA Method 8260B (Continued)

CAS Number	Analyte	Analytical Result	RL
78-87-5	1,2-Dichloropropane	<20	20
10061-01-5	cis-1,3-Dichloropropene	<20	20
10061-02-6	trans-1,3-Dichloropropene	<20	20
100-41-4	Ethylbenzene	<20	20
60-29-7	Ethyl Ether	<100	100
591-78-6	2-Hexanone	<100	100
74-88-4	Iodomethane	<20	20
98-82-8	Isopropylbenzene	<20	20
99-87-6	4-Isopropyltoluene	<100	100
1634-04-4	Methyl tert-Butyl Ether	<100	100
75-09-2	Methylene Chloride	<100	100
78-93-3	2-Butanone (MEK)	<100	100
91-57-6	2-Methylnaphthalene	<100	100
108-10-1	4-Methyl-2-pentanone (MIBK)	<100	100
91-20-3	Naphthalene	<100	100
103-65-1	n-Propylbenzene	<20	20
100-42-5	Styrene	<20	20
630-20-6	1,1,1,2-Tetrachloroethane	<20	20
79-34-5	1,1,2,2-Tetrachloroethane	<20	20
127-18-4	Tetrachloroethene	<20	20
109-99-9	Tetrahydrofuran	<100	100
108-88-3	Toluene	<20	20
87-61-6	1,2,3-Trichlorobenzene	<100	100
120-82-1	1,2,4-Trichlorobenzene	<100	100
71-55-6	1,1,1-Trichloroethane	**720**	20
79-00-5	1,1,2-Trichloroethane	<20	20
79-01-6	Trichloroethene	**2700**	20
75-69-4	Trichlorofluoromethane	<20	20
96-18-4	1,2,3-Trichloropropane	<20	20
95-63-6	1,2,4-Trimethylbenzene	<20	20
108-67-8	1,3,5-Trimethylbenzene	<20	20

Continued on next page

ANALYTICAL REPORT

Client:	**RMT, Inc. - Ann Arbor Office**	Work Order:	**0903247**
Project:	Tecumseh Products	Description:	Laboratory Services
Client Sample ID:	**Dup-02**	Sampled:	03/13/09 00:00
Lab Sample ID:	**0903247-01**	Sampled By:	S. Middlebrook
Matrix:	Water	Received:	03/13/09 20:50
Unit:	ug/L	Prepared:	03/16/09 By: JDM
Dilution Factor:	20	Analyzed:	03/16/09 By: JDM
QC Batch:	0903090	Analytical Batch:	9031647

Volatile Organic Compounds by EPA Method 8260B (Continued)

CAS Number	Analyte	Analytical Result	RL
75-01-4	Vinyl Chloride	<20	20
136777-61-2	Xylene, Meta + Para	<40	40
95-47-6	Xylene, Ortho	<20	20

Surrogates:	*% Recovery*	*Control Limits*
Dibromofluoromethane	104	*88-115*
1,2-Dichloroethane-d4	103	*81-116*
Toluene-d8	99	*87-113*
4-Bromofluorobenzene	99	*78-116*

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ANALYTICAL REPORT

Client:	**RMT, Inc. - Ann Arbor Office**	Work Order:	**0903247**
Project:	Tecumseh Products	Description:	Laboratory Services
Client Sample ID:	**MW-4s**	Sampled:	03/13/09 07:04
Lab Sample ID:	**0903247-02**	Sampled By:	S. Middlebrook
Matrix:	Water	Received:	03/13/09 20:50
Unit:	ug/L	Prepared:	03/16/09 By: JDM
Dilution Factor:	25	Analyzed:	03/16/09 By: JDM
QC Batch:	0903090	Analytical Batch:	9031647

*Volatile Organic Compounds by EPA Method 8260B

CAS Number	Analyte	Analytical Result	RL
67-64-1	Acetone	<500	500
107-13-1	Acrylonitrile	<50	50
71-43-2	Benzene	<25	25
108-86-1	Bromobenzene	<25	25
74-97-5	Bromochloromethane	<25	25
75-27-4	Bromodichloromethane	<25	25
75-25-2	Bromoform	<25	25
74-83-9	Bromomethane	<120	120
104-51-8	n-Butylbenzene	<25	25
135-98-8	sec-Butylbenzene	<25	25
98-06-6	tert-Butylbenzene	<25	25
75-15-0	Carbon Disulfide	<25	25
56-23-5	Carbon Tetrachloride	<25	25
108-90-7	Chlorobenzene	<25	25
75-00-3	Chloroethane	<120	120
67-66-3	Chloroform	<25	25
74-87-3	Chloromethane	<120	120
96-12-8	1,2-Dibromo-3-chloropropane	<120	120
124-48-1	Dibromochloromethane	<25	25
106-93-4	1,2-Dibromoethane	<25	25
74-95-3	Dibromomethane	<25	25
110-57-6	trans-1,4-Dichloro-2-butene	<25	25
95-50-1	1,2-Dichlorobenzene	<25	25
541-73-1	1,3-Dichlorobenzene	<25	25
106-46-7	1,4-Dichlorobenzene	<25	25
75-71-8	Dichlorodifluoromethane	<120	120
75-34-3	1,1-Dichloroethane	<25	25
107-06-2	1,2-Dichloroethane	<25	25
75-35-4	1,1-Dichloroethene	<25	25
156-59-2	cis-1,2-Dichloroethene	**2100**	25
156-60-5	trans-1,2-Dichloroethene	**70**	25

Continued on next page

*See Statement of Data Qualifications

ANALYTICAL REPORT

Client:	**RMT, Inc. - Ann Arbor Office**	Work Order:	**0903247**
Project:	Tecumseh Products	Description:	Laboratory Services
Client Sample ID:	**MW-4s**	Sampled:	03/13/09 07:04
Lab Sample ID:	**0903247-02**	Sampled By:	S. Middlebrook
Matrix:	Water	Received:	03/13/09 20:50
Unit:	ug/L	Prepared:	03/16/09 By: JDM
Dilution Factor:	25	Analyzed:	03/16/09 By: JDM
QC Batch:	0903090	Analytical Batch:	9031647

*Volatile Organic Compounds by EPA Method 8260B (Continued)

CAS Number	Analyte	Analytical Result	RL
78-87-5	1,2-Dichloropropane	<25	25
10061-01-5	cis-1,3-Dichloropropene	<25	25
10061-02-6	trans-1,3-Dichloropropene	<25	25
100-41-4	Ethylbenzene	<25	25
60-29-7	Ethyl Ether	<120	120
591-78-6	2-Hexanone	<120	120
74-88-4	Iodomethane	<25	25
98-82-8	Isopropylbenzene	<25	25
99-87-6	4-Isopropyltoluene	<120	120
1634-04-4	Methyl tert-Butyl Ether	<120	120
75-09-2	Methylene Chloride	<120	120
78-93-3	2-Butanone (MEK)	<120	120
91-57-6	2-Methylnaphthalene	<120	120
108-10-1	4-Methyl-2-pentanone (MIBK)	<120	120
91-20-3	Naphthalene	<120	120
103-65-1	n-Propylbenzene	<25	25
100-42-5	Styrene	<25	25
630-20-6	1,1,1,2-Tetrachloroethane	<25	25
79-34-5	1,1,2,2-Tetrachloroethane	<25	25
127-18-4	Tetrachloroethene	<25	25
109-99-9	Tetrahydrofuran	<120	120
108-88-3	Toluene	<25	25
87-61-6	1,2,3-Trichlorobenzene	<120	120
120-82-1	1,2,4-Trichlorobenzene	<120	120
71-55-6	1,1,1-Trichloroethane	<25	25
79-00-5	1,1,2-Trichloroethane	<25	25
79-01-6	Trichloroethene	**5000**	25
75-69-4	Trichlorofluoromethane	<25	25
96-18-4	1,2,3-Trichloropropane	<25	25
95-63-6	1,2,4-Trimethylbenzene	<25	25
108-67-8	1,3,5-Trimethylbenzene	<25	25

Continued on next page

*See Statement of Data Qualifications

ANALYTICAL REPORT

Client:	**RMT, Inc. - Ann Arbor Office**	Work Order:	**0903247**
Project:	Tecumseh Products	Description:	Laboratory Services
Client Sample ID:	**MW-4s**	Sampled:	03/13/09 07:04
Lab Sample ID:	**0903247-02**	Sampled By:	S. Middlebrook
Matrix:	Water	Received:	03/13/09 20:50
Unit:	ug/L	Prepared:	03/16/09 By: JDM
Dilution Factor:	25	Analyzed:	03/16/09 By: JDM
QC Batch:	0903090	Analytical Batch:	9031647

*Volatile Organic Compounds by EPA Method 8260B (Continued)

CAS Number	Analyte	Analytical Result	RL
75-01-4	Vinyl Chloride	**460**	25
136777-61-2	Xylene, Meta + Para	<50	50
95-47-6	Xylene, Ortho	<25	25

Surrogates:	*% Recovery*	*Control Limits*
Dibromofluoromethane	103	*88-115*
1,2-Dichloroethane-d4	104	*81-116*
Toluene-d8	99	*87-113*
4-Bromofluorobenzene	99	*78-116*

*See Statement of Data Qualifications

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ANALYTICAL REPORT

Client:	**RMT, Inc. - Ann Arbor Office**	Work Order:	**0903247**
Project:	Tecumseh Products	Description:	Laboratory Services
Client Sample ID:	**MW-3s**	Sampled:	03/13/09 08:00
Lab Sample ID:	**0903247-03**	Sampled By:	S. Middlebrook
Matrix:	Water	Received:	03/13/09 20:50
Unit:	ug/L	Prepared:	03/16/09 By: JDM
Dilution Factor:	2	Analyzed:	03/16/09 By: JDM
QC Batch:	0903090	Analytical Batch:	9031647

Volatile Organic Compounds by EPA Method 8260B

CAS Number	Analyte	Analytical Result	RL
67-64-1	Acetone	<40	40
107-13-1	Acrylonitrile	<4.0	4.0
71-43-2	Benzene	<2.0	2.0
108-86-1	Bromobenzene	<2.0	2.0
74-97-5	Bromochloromethane	<2.0	2.0
75-27-4	Bromodichloromethane	<2.0	2.0
75-25-2	Bromoform	<2.0	2.0
74-83-9	Bromomethane	<10	10
104-51-8	n-Butylbenzene	<2.0	2.0
135-98-8	sec-Butylbenzene	<2.0	2.0
98-06-6	tert-Butylbenzene	<2.0	2.0
75-15-0	Carbon Disulfide	<2.0	2.0
56-23-5	Carbon Tetrachloride	<2.0	2.0
108-90-7	Chlorobenzene	<2.0	2.0
75-00-3	Chloroethane	<10	10
67-66-3	Chloroform	<2.0	2.0
74-87-3	Chloromethane	<10	10
96-12-8	1,2-Dibromo-3-chloropropane	<10	10
124-48-1	Dibromochloromethane	<2.0	2.0
106-93-4	1,2-Dibromoethane	<2.0	2.0
74-95-3	Dibromomethane	<2.0	2.0
110-57-6	trans-1,4-Dichloro-2-butene	<2.0	2.0
95-50-1	1,2-Dichlorobenzene	<2.0	2.0
541-73-1	1,3-Dichlorobenzene	<2.0	2.0
106-46-7	1,4-Dichlorobenzene	<2.0	2.0
75-71-8	Dichlorodifluoromethane	<10	10
75-34-3	1,1-Dichloroethane	**9.1**	2.0
107-06-2	1,2-Dichloroethane	<2.0	2.0
75-35-4	1,1-Dichloroethene	<2.0	2.0
156-59-2	cis-1,2-Dichloroethene	**240**	2.0
156-60-5	trans-1,2-Dichloroethene	**9.1**	2.0

Continued on next page

ANALYTICAL REPORT

Client:	**RMT, Inc. - Ann Arbor Office**	Work Order:	**0903247**
Project:	Tecumseh Products	Description:	Laboratory Services
Client Sample ID:	**MW-3s**	Sampled:	03/13/09 08:00
Lab Sample ID:	**0903247-03**	Sampled By:	S. Middlebrook
Matrix:	Water	Received:	03/13/09 20:50
Unit:	ug/L	Prepared:	03/16/09 By: JDM
Dilution Factor:	2	Analyzed:	03/16/09 By: JDM
QC Batch:	0903090	Analytical Batch:	9031647

Volatile Organic Compounds by EPA Method 8260B (Continued)

CAS Number	Analyte	Analytical Result	RL
78-87-5	1,2-Dichloropropane	<2.0	2.0
10061-01-5	cis-1,3-Dichloropropene	<2.0	2.0
10061-02-6	trans-1,3-Dichloropropene	<2.0	2.0
100-41-4	Ethylbenzene	<2.0	2.0
60-29-7	Ethyl Ether	<10	10
591-78-6	2-Hexanone	<10	10
74-88-4	Iodomethane	<2.0	2.0
98-82-8	Isopropylbenzene	<2.0	2.0
99-87-6	4-Isopropyltoluene	<10	10
1634-04-4	Methyl tert-Butyl Ether	<10	10
75-09-2	Methylene Chloride	<10	10
78-93-3	2-Butanone (MEK)	<10	10
91-57-6	2-Methylnaphthalene	<10	10
108-10-1	4-Methyl-2-pentanone (MIBK)	<10	10
91-20-3	Naphthalene	<10	10
103-65-1	n-Propylbenzene	<2.0	2.0
100-42-5	Styrene	<2.0	2.0
630-20-6	1,1,1,2-Tetrachloroethane	<2.0	2.0
79-34-5	1,1,2,2-Tetrachloroethane	<2.0	2.0
127-18-4	Tetrachloroethene	<2.0	2.0
109-99-9	Tetrahydrofuran	<10	10
108-88-3	Toluene	<2.0	2.0
87-61-6	1,2,3-Trichlorobenzene	<10	10
120-82-1	1,2,4-Trichlorobenzene	<10	10
71-55-6	1,1,1-Trichloroethane	<2.0	2.0
79-00-5	1,1,2-Trichloroethane	<2.0	2.0
79-01-6	Trichloroethene	<2.0	2.0
75-69-4	Trichlorofluoromethane	<2.0	2.0
96-18-4	1,2,3-Trichloropropane	<2.0	2.0
95-63-6	1,2,4-Trimethylbenzene	<2.0	2.0
108-67-8	1,3,5-Trimethylbenzene	<2.0	2.0

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ANALYTICAL REPORT

Client:	**RMT, Inc. - Ann Arbor Office**	Work Order:	**0903247**
Project:	Tecumseh Products	Description:	Laboratory Services
Client Sample ID:	**MW-3s**	Sampled:	03/13/09 08:00
Lab Sample ID:	**0903247-03**	Sampled By:	S. Middlebrook
Matrix:	Water	Received:	03/13/09 20:50
Unit:	ug/L	Prepared:	03/16/09 By: JDM
Dilution Factor:	2	Analyzed:	03/16/09 By: JDM
QC Batch:	0903090	Analytical Batch:	9031647

Volatile Organic Compounds by EPA Method 8260B (Continued)

CAS Number	Analyte	Analytical Result	RL
75-01-4	Vinyl Chloride	**140**	2.0
136777-61-2	Xylene, Meta + Para	<4.0	4.0
95-47-6	Xylene, Ortho	<2.0	2.0

Surrogates:	*% Recovery*	*Control Limits*
Dibromofluoromethane	102	*88-115*
1,2-Dichloroethane-d4	104	*81-116*
Toluene-d8	99	*87-113*
4-Bromofluorobenzene	99	*78-116*

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ANALYTICAL REPORT

Client:	**RMT, Inc. - Ann Arbor Office**	Work Order:	**0903247**
Project:	Tecumseh Products	Description:	Laboratory Services
Client Sample ID:	**B-6 (44'-48')**	Sampled:	03/13/09 10:50
Lab Sample ID:	**0903247-04**	Sampled By:	S. Middlebrook
Matrix:	Water	Received:	03/13/09 20:50
Unit:	ug/L	Prepared:	03/16/09 By: JDM
Dilution Factor:	1	Analyzed:	03/16/09 By: JDM
QC Batch:	0903090	Analytical Batch:	9031647

Volatile Organic Compounds by EPA Method 8260B

CAS Number	Analyte	Analytical Result	RL
67-64-1	Acetone	<20	20
107-13-1	Acrylonitrile	<2.0	2.0
71-43-2	Benzene	<1.0	1.0
108-86-1	Bromobenzene	<1.0	1.0
74-97-5	Bromochloromethane	<1.0	1.0
75-27-4	Bromodichloromethane	<1.0	1.0
75-25-2	Bromoform	<1.0	1.0
74-83-9	Bromomethane	<5.0	5.0
104-51-8	n-Butylbenzene	<1.0	1.0
135-98-8	sec-Butylbenzene	<1.0	1.0
98-06-6	tert-Butylbenzene	<1.0	1.0
75-15-0	Carbon Disulfide	<1.0	1.0
56-23-5	Carbon Tetrachloride	<1.0	1.0
108-90-7	Chlorobenzene	<1.0	1.0
75-00-3	Chloroethane	<5.0	5.0
67-66-3	Chloroform	<1.0	1.0
74-87-3	Chloromethane	<5.0	5.0
96-12-8	1,2-Dibromo-3-chloropropane	<5.0	5.0
124-48-1	Dibromochloromethane	<1.0	1.0
106-93-4	1,2-Dibromoethane	<1.0	1.0
74-95-3	Dibromomethane	<1.0	1.0
110-57-6	trans-1,4-Dichloro-2-butene	<1.0	1.0
95-50-1	1,2-Dichlorobenzene	<1.0	1.0
541-73-1	1,3-Dichlorobenzene	<1.0	1.0
106-46-7	1,4-Dichlorobenzene	<1.0	1.0
75-71-8	Dichlorodifluoromethane	<5.0	5.0
75-34-3	1,1-Dichloroethane	<1.0	1.0
107-06-2	1,2-Dichloroethane	<1.0	1.0
75-35-4	1,1-Dichloroethene	<1.0	1.0
156-59-2	cis-1,2-Dichloroethene	<1.0	1.0
156-60-5	trans-1,2-Dichloroethene	<1.0	1.0

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ANALYTICAL REPORT

Client:	**RMT, Inc. - Ann Arbor Office**	Work Order:	**0903247**
Project:	Tecumseh Products	Description:	Laboratory Services
Client Sample ID:	**B-6 (44'-48')**	Sampled:	03/13/09 10:50
Lab Sample ID:	**0903247-04**	Sampled By:	S. Middlebrook
Matrix:	Water	Received:	03/13/09 20:50
Unit:	ug/L	Prepared:	03/16/09 By: JDM
Dilution Factor:	1	Analyzed:	03/16/09 By: JDM
QC Batch:	0903090	Analytical Batch:	9031647

Volatile Organic Compounds by EPA Method 8260B (Continued)

CAS Number	Analyte	Analytical Result	RL
78-87-5	1,2-Dichloropropane	<1.0	1.0
10061-01-5	cis-1,3-Dichloropropene	<1.0	1.0
10061-02-6	trans-1,3-Dichloropropene	<1.0	1.0
100-41-4	Ethylbenzene	<1.0	1.0
60-29-7	Ethyl Ether	<5.0	5.0
591-78-6	2-Hexanone	<5.0	5.0
74-88-4	Iodomethane	<1.0	1.0
98-82-8	Isopropylbenzene	<1.0	1.0
99-87-6	4-Isopropyltoluene	<5.0	5.0
1634-04-4	Methyl tert-Butyl Ether	<5.0	5.0
75-09-2	Methylene Chloride	<5.0	5.0
78-93-3	2-Butanone (MEK)	<5.0	5.0
91-57-6	2-Methylnaphthalene	<5.0	5.0
108-10-1	4-Methyl-2-pentanone (MIBK)	<5.0	5.0
91-20-3	Naphthalene	<5.0	5.0
103-65-1	n-Propylbenzene	<1.0	1.0
100-42-5	Styrene	<1.0	1.0
630-20-6	1,1,1,2-Tetrachloroethane	<1.0	1.0
79-34-5	1,1,2,2-Tetrachloroethane	<1.0	1.0
127-18-4	Tetrachloroethene	<1.0	1.0
109-99-9	Tetrahydrofuran	<5.0	5.0
108-88-3	Toluene	**3.5**	1.0
87-61-6	1,2,3-Trichlorobenzene	<5.0	5.0
120-82-1	1,2,4-Trichlorobenzene	<5.0	5.0
71-55-6	1,1,1-Trichloroethane	<1.0	1.0
79-00-5	1,1,2-Trichloroethane	<1.0	1.0
79-01-6	Trichloroethene	<1.0	1.0
75-69-4	Trichlorofluoromethane	<1.0	1.0
96-18-4	1,2,3-Trichloropropane	<1.0	1.0
95-63-6	1,2,4-Trimethylbenzene	<1.0	1.0
108-67-8	1,3,5-Trimethylbenzene	<1.0	1.0

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ANALYTICAL REPORT

Client:	**RMT, Inc. - Ann Arbor Office**	Work Order:	**0903247**
Project:	Tecumseh Products	Description:	Laboratory Services
Client Sample ID:	**B-6 (44'-48')**	Sampled:	03/13/09 10:50
Lab Sample ID:	**0903247-04**	Sampled By:	S. Middlebrook
Matrix:	Water	Received:	03/13/09 20:50
Unit:	ug/L	Prepared:	03/16/09 By: JDM
Dilution Factor:	1	Analyzed:	03/16/09 By: JDM
QC Batch:	0903090	Analytical Batch:	9031647

Volatile Organic Compounds by EPA Method 8260B (Continued)

CAS Number	Analyte	Analytical Result	RL
75-01-4	Vinyl Chloride	<1.0	1.0
136777-61-2	Xylene, Meta + Para	<2.0	2.0
95-47-6	Xylene, Ortho	<1.0	1.0

Surrogates:	*% Recovery*	*Control Limits*
Dibromofluoromethane	103	*88-115*
1,2-Dichloroethane-d4	104	*81-116*
Toluene-d8	99	*87-113*
4-Bromofluorobenzene	99	*78-116*

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ANALYTICAL REPORT

Client:	**RMT, Inc. - Ann Arbor Office**	Work Order:	**0903247**
Project:	Tecumseh Products	Description:	Laboratory Services
Client Sample ID:	**MW-5s**	Sampled:	03/13/09 13:22
Lab Sample ID:	**0903247-05**	Sampled By:	S. Middlebrook
Matrix:	Water	Received:	03/13/09 20:50
Unit:	ug/L	Prepared:	03/14/09 By: JDM
Dilution Factor:	1	Analyzed:	03/14/09 By: JDM
QC Batch:	0903090	Analytical Batch:	9031646

Volatile Organic Compounds by EPA Method 8260B

CAS Number	Analyte	Analytical Result	RL
67-64-1	Acetone	<20	20
107-13-1	Acrylonitrile	<2.0	2.0
71-43-2	Benzene	<1.0	1.0
108-86-1	Bromobenzene	<1.0	1.0
74-97-5	Bromochloromethane	<1.0	1.0
75-27-4	Bromodichloromethane	<1.0	1.0
75-25-2	Bromoform	<1.0	1.0
74-83-9	Bromomethane	<5.0	5.0
104-51-8	n-Butylbenzene	<1.0	1.0
135-98-8	sec-Butylbenzene	<1.0	1.0
98-06-6	tert-Butylbenzene	<1.0	1.0
75-15-0	Carbon Disulfide	<1.0	1.0
56-23-5	Carbon Tetrachloride	<1.0	1.0
108-90-7	Chlorobenzene	<1.0	1.0
75-00-3	Chloroethane	<5.0	5.0
67-66-3	Chloroform	<1.0	1.0
74-87-3	Chloromethane	<5.0	5.0
96-12-8	1,2-Dibromo-3-chloropropane	<5.0	5.0
124-48-1	Dibromochloromethane	<1.0	1.0
106-93-4	1,2-Dibromoethane	<1.0	1.0
74-95-3	Dibromomethane	<1.0	1.0
110-57-6	trans-1,4-Dichloro-2-butene	<1.0	1.0
95-50-1	1,2-Dichlorobenzene	<1.0	1.0
541-73-1	1,3-Dichlorobenzene	<1.0	1.0
106-46-7	1,4-Dichlorobenzene	<1.0	1.0
75-71-8	Dichlorodifluoromethane	<5.0	5.0
75-34-3	1,1-Dichloroethane	<1.0	1.0
107-06-2	1,2-Dichloroethane	<1.0	1.0
75-35-4	1,1-Dichloroethene	<1.0	1.0
156-59-2	cis-1,2-Dichloroethene	<1.0	1.0
156-60-5	trans-1,2-Dichloroethene	<1.0	1.0

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ANALYTICAL REPORT

Client:	**RMT, Inc. - Ann Arbor Office**	Work Order:	**0903247**
Project:	Tecumseh Products	Description:	Laboratory Services
Client Sample ID:	**MW-5s**	Sampled:	03/13/09 13:22
Lab Sample ID:	**0903247-05**	Sampled By:	S. Middlebrook
Matrix:	Water	Received:	03/13/09 20:50
Unit:	ug/L	Prepared:	03/14/09 By: JDM
Dilution Factor:	1	Analyzed:	03/14/09 By: JDM
QC Batch:	0903090	Analytical Batch:	9031646

Volatile Organic Compounds by EPA Method 8260B (Continued)

CAS Number	Analyte	Analytical Result	RL
78-87-5	1,2-Dichloropropane	<1.0	1.0
10061-01-5	cis-1,3-Dichloropropene	<1.0	1.0
10061-02-6	trans-1,3-Dichloropropene	<1.0	1.0
100-41-4	Ethylbenzene	<1.0	1.0
60-29-7	Ethyl Ether	<5.0	5.0
591-78-6	2-Hexanone	<5.0	5.0
74-88-4	Iodomethane	<1.0	1.0
98-82-8	Isopropylbenzene	<1.0	1.0
99-87-6	4-Isopropyltoluene	<5.0	5.0
1634-04-4	Methyl tert-Butyl Ether	<5.0	5.0
75-09-2	Methylene Chloride	<5.0	5.0
78-93-3	2-Butanone (MEK)	<5.0	5.0
91-57-6	2-Methylnaphthalene	<5.0	5.0
108-10-1	4-Methyl-2-pentanone (MIBK)	<5.0	5.0
91-20-3	Naphthalene	<5.0	5.0
103-65-1	n-Propylbenzene	<1.0	1.0
100-42-5	Styrene	<1.0	1.0
630-20-6	1,1,1,2-Tetrachloroethane	<1.0	1.0
79-34-5	1,1,2,2-Tetrachloroethane	<1.0	1.0
127-18-4	Tetrachloroethene	**3.5**	1.0
109-99-9	Tetrahydrofuran	<5.0	5.0
108-88-3	Toluene	<1.0	1.0
87-61-6	1,2,3-Trichlorobenzene	<5.0	5.0
120-82-1	1,2,4-Trichlorobenzene	<5.0	5.0
71-55-6	1,1,1-Trichloroethane	<1.0	1.0
79-00-5	1,1,2-Trichloroethane	<1.0	1.0
79-01-6	Trichloroethene	**120**	1.0
75-69-4	Trichlorofluoromethane	<1.0	1.0
96-18-4	1,2,3-Trichloropropane	<1.0	1.0
95-63-6	1,2,4-Trimethylbenzene	<1.0	1.0
108-67-8	1,3,5-Trimethylbenzene	<1.0	1.0

Continued on next page

ANALYTICAL REPORT

Client:	**RMT, Inc. - Ann Arbor Office**	Work Order:	**0903247**
Project:	Tecumseh Products	Description:	Laboratory Services
Client Sample ID:	**MW-5s**	Sampled:	03/13/09 13:22
Lab Sample ID:	**0903247-05**	Sampled By:	S. Middlebrook
Matrix:	Water	Received:	03/13/09 20:50
Unit:	ug/L	Prepared:	03/14/09 By: JDM
Dilution Factor:	1	Analyzed:	03/14/09 By: JDM
QC Batch:	0903090	Analytical Batch:	9031646

Volatile Organic Compounds by EPA Method 8260B (Continued)

CAS Number	Analyte	Analytical Result	RL
75-01-4	Vinyl Chloride	<1.0	1.0
136777-61-2	Xylene, Meta + Para	<2.0	2.0
95-47-6	Xylene, Ortho	<1.0	1.0

Surrogates:	*% Recovery*	*Control Limits*
Dibromofluoromethane	100	*88-115*
1,2-Dichloroethane-d4	102	*81-116*
Toluene-d8	99	*87-113*
4-Bromofluorobenzene	97	*78-116*

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ANALYTICAL REPORT

Client:	**RMT, Inc. - Ann Arbor Office**	Work Order:	**0903247**
Project:	Tecumseh Products	Description:	Laboratory Services
Client Sample ID:	**Trip Blank-03**	Sampled:	03/13/09 00:00
Lab Sample ID:	**0903247-06**	Sampled By:	S. Middlebrook
Matrix:	Water	Received:	03/13/09 20:50
Unit:	ug/L	Prepared:	03/14/09 By: JDM
Dilution Factor:	1	Analyzed:	03/14/09 By: JDM
QC Batch:	0903090	Analytical Batch:	9031646

Volatile Organic Compounds by EPA Method 8260B

CAS Number	Analyte	Analytical Result	RL
67-64-1	Acetone	<20	20
107-13-1	Acrylonitrile	<2.0	2.0
71-43-2	Benzene	<1.0	1.0
108-86-1	Bromobenzene	<1.0	1.0
74-97-5	Bromochloromethane	<1.0	1.0
75-27-4	Bromodichloromethane	<1.0	1.0
75-25-2	Bromoform	<1.0	1.0
74-83-9	Bromomethane	<5.0	5.0
104-51-8	n-Butylbenzene	<1.0	1.0
135-98-8	sec-Butylbenzene	<1.0	1.0
98-06-6	tert-Butylbenzene	<1.0	1.0
75-15-0	Carbon Disulfide	<1.0	1.0
56-23-5	Carbon Tetrachloride	<1.0	1.0
108-90-7	Chlorobenzene	<1.0	1.0
75-00-3	Chloroethane	<5.0	5.0
67-66-3	Chloroform	<1.0	1.0
74-87-3	Chloromethane	<5.0	5.0
96-12-8	1,2-Dibromo-3-chloropropane	<5.0	5.0
124-48-1	Dibromochloromethane	<1.0	1.0
106-93-4	1,2-Dibromoethane	<1.0	1.0
74-95-3	Dibromomethane	<1.0	1.0
110-57-6	trans-1,4-Dichloro-2-butene	<1.0	1.0
95-50-1	1,2-Dichlorobenzene	<1.0	1.0
541-73-1	1,3-Dichlorobenzene	<1.0	1.0
106-46-7	1,4-Dichlorobenzene	<1.0	1.0
75-71-8	Dichlorodifluoromethane	<5.0	5.0
75-34-3	1,1-Dichloroethane	<1.0	1.0
107-06-2	1,2-Dichloroethane	<1.0	1.0
75-35-4	1,1-Dichloroethene	<1.0	1.0
156-59-2	cis-1,2-Dichloroethene	<1.0	1.0
156-60-5	trans-1,2-Dichloroethene	<1.0	1.0

Continued on next page

ANALYTICAL REPORT

Client:	**RMT, Inc. - Ann Arbor Office**	Work Order:	**0903247**
Project:	Tecumseh Products	Description:	Laboratory Services
Client Sample ID:	**Trip Blank-03**	Sampled:	03/13/09 00:00
Lab Sample ID:	**0903247-06**	Sampled By:	S. Middlebrook
Matrix:	Water	Received:	03/13/09 20:50
Unit:	ug/L	Prepared:	03/14/09 By: JDM
Dilution Factor:	1	Analyzed:	03/14/09 By: JDM
QC Batch:	0903090	Analytical Batch:	9031646

Volatile Organic Compounds by EPA Method 8260B (Continued)

CAS Number	Analyte	Analytical Result	RL
78-87-5	1,2-Dichloropropane	<1.0	1.0
10061-01-5	cis-1,3-Dichloropropene	<1.0	1.0
10061-02-6	trans-1,3-Dichloropropene	<1.0	1.0
100-41-4	Ethylbenzene	<1.0	1.0
60-29-7	Ethyl Ether	<5.0	5.0
591-78-6	2-Hexanone	<5.0	5.0
74-88-4	Iodomethane	<1.0	1.0
98-82-8	Isopropylbenzene	<1.0	1.0
99-87-6	4-Isopropyltoluene	<5.0	5.0
1634-04-4	Methyl tert-Butyl Ether	<5.0	5.0
75-09-2	Methylene Chloride	<5.0	5.0
78-93-3	2-Butanone (MEK)	<5.0	5.0
91-57-6	2-Methylnaphthalene	<5.0	5.0
108-10-1	4-Methyl-2-pentanone (MIBK)	<5.0	5.0
91-20-3	Naphthalene	<5.0	5.0
103-65-1	n-Propylbenzene	<1.0	1.0
100-42-5	Styrene	<1.0	1.0
630-20-6	1,1,1,2-Tetrachloroethane	<1.0	1.0
79-34-5	1,1,2,2-Tetrachloroethane	<1.0	1.0
127-18-4	Tetrachloroethene	<1.0	1.0
109-99-9	Tetrahydrofuran	<5.0	5.0
108-88-3	Toluene	<1.0	1.0
87-61-6	1,2,3-Trichlorobenzene	<5.0	5.0
120-82-1	1,2,4-Trichlorobenzene	<5.0	5.0
71-55-6	1,1,1-Trichloroethane	<1.0	1.0
79-00-5	1,1,2-Trichloroethane	<1.0	1.0
79-01-6	Trichloroethene	<1.0	1.0
75-69-4	Trichlorofluoromethane	<1.0	1.0
96-18-4	1,2,3-Trichloropropane	<1.0	1.0
95-63-6	1,2,4-Trimethylbenzene	<1.0	1.0
108-67-8	1,3,5-Trimethylbenzene	<1.0	1.0

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ANALYTICAL REPORT

Client:	**RMT, Inc. - Ann Arbor Office**	Work Order:	**0903247**
Project:	Tecumseh Products	Description:	Laboratory Services
Client Sample ID:	**Trip Blank-03**	Sampled:	03/13/09 00:00
Lab Sample ID:	**0903247-06**	Sampled By:	S. Middlebrook
Matrix:	Water	Received:	03/13/09 20:50
Unit:	ug/L	Prepared:	03/14/09 By: JDM
Dilution Factor:	1	Analyzed:	03/14/09 By: JDM
QC Batch:	0903090	Analytical Batch:	9031646

Volatile Organic Compounds by EPA Method 8260B (Continued)

CAS Number	Analyte	Analytical Result	RL
75-01-4	Vinyl Chloride	<1.0	1.0
136777-61-2	Xylene, Meta + Para	<2.0	2.0
95-47-6	Xylene, Ortho	<1.0	1.0

Surrogates:	*% Recovery*	*Control Limits*
Dibromofluoromethane	100	*88-115*
1,2-Dichloroethane-d4	102	*81-116*
Toluene-d8	99	*87-113*
4-Bromofluorobenzene	98	*78-116*

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ANALYTICAL REPORT

Client:	**RMT, Inc. - Ann Arbor Office**	Work Order:	**0903247**
Project:	Tecumseh Products	Description:	Laboratory Services
Client Sample ID:	**MW-1s**	Sampled:	03/13/09 14:58
Lab Sample ID:	**0903247-07**	Sampled By:	S. Middlebrook
Matrix:	Water	Received:	03/13/09 20:50
Unit:	ug/L	Prepared:	03/16/09 By: JDM
Dilution Factor:	20	Analyzed:	03/16/09 By: JDM
QC Batch:	0903090	Analytical Batch:	9031647

Volatile Organic Compounds by EPA Method 8260B

CAS Number	Analyte	Analytical Result	RL
67-64-1	Acetone	<400	400
107-13-1	Acrylonitrile	<40	40
71-43-2	Benzene	<20	20
108-86-1	Bromobenzene	<20	20
74-97-5	Bromochloromethane	<20	20
75-27-4	Bromodichloromethane	<20	20
75-25-2	Bromoform	<20	20
74-83-9	Bromomethane	<100	100
104-51-8	n-Butylbenzene	<20	20
135-98-8	sec-Butylbenzene	<20	20
98-06-6	tert-Butylbenzene	<20	20
75-15-0	Carbon Disulfide	<20	20
56-23-5	Carbon Tetrachloride	<20	20
108-90-7	Chlorobenzene	<20	20
75-00-3	Chloroethane	<100	100
67-66-3	Chloroform	<20	20
74-87-3	Chloromethane	<100	100
96-12-8	1,2-Dibromo-3-chloropropane	<100	100
124-48-1	Dibromochloromethane	<20	20
106-93-4	1,2-Dibromoethane	<20	20
74-95-3	Dibromomethane	<20	20
110-57-6	trans-1,4-Dichloro-2-butene	<20	20
95-50-1	1,2-Dichlorobenzene	<20	20
541-73-1	1,3-Dichlorobenzene	<20	20
106-46-7	1,4-Dichlorobenzene	<20	20
75-71-8	Dichlorodifluoromethane	<100	100
75-34-3	1,1-Dichloroethane	<20	20
107-06-2	1,2-Dichloroethane	<20	20
75-35-4	1,1-Dichloroethene	<20	20
156-59-2	cis-1,2-Dichloroethene	<20	20
156-60-5	trans-1,2-Dichloroethene	<20	20

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ANALYTICAL REPORT

Client:	**RMT, Inc. - Ann Arbor Office**	Work Order:	**0903247**
Project:	Tecumseh Products	Description:	Laboratory Services
Client Sample ID:	**MW-1s**	Sampled:	03/13/09 14:58
Lab Sample ID:	**0903247-07**	Sampled By:	S. Middlebrook
Matrix:	Water	Received:	03/13/09 20:50
Unit:	ug/L	Prepared:	03/16/09 By: JDM
Dilution Factor:	20	Analyzed:	03/16/09 By: JDM
QC Batch:	0903090	Analytical Batch:	9031647

Volatile Organic Compounds by EPA Method 8260B (Continued)

CAS Number	Analyte	Analytical Result	RL
78-87-5	1,2-Dichloropropane	<20	20
10061-01-5	cis-1,3-Dichloropropene	<20	20
10061-02-6	trans-1,3-Dichloropropene	<20	20
100-41-4	Ethylbenzene	<20	20
60-29-7	Ethyl Ether	<100	100
591-78-6	2-Hexanone	<100	100
74-88-4	Iodomethane	<20	20
98-82-8	Isopropylbenzene	<20	20
99-87-6	4-Isopropyltoluene	<100	100
1634-04-4	Methyl tert-Butyl Ether	<100	100
75-09-2	Methylene Chloride	<100	100
78-93-3	2-Butanone (MEK)	<100	100
91-57-6	2-Methylnaphthalene	<100	100
108-10-1	4-Methyl-2-pentanone (MIBK)	<100	100
91-20-3	Naphthalene	<100	100
103-65-1	n-Propylbenzene	<20	20
100-42-5	Styrene	<20	20
630-20-6	1,1,1,2-Tetrachloroethane	<20	20
79-34-5	1,1,2,2-Tetrachloroethane	<20	20
127-18-4	Tetrachloroethene	<20	20
109-99-9	Tetrahydrofuran	<100	100
108-88-3	Toluene	<20	20
87-61-6	1,2,3-Trichlorobenzene	<100	100
120-82-1	1,2,4-Trichlorobenzene	<100	100
71-55-6	1,1,1-Trichloroethane	**750**	20
79-00-5	1,1,2-Trichloroethane	<20	20
79-01-6	Trichloroethene	**2700**	20
75-69-4	Trichlorofluoromethane	<20	20
96-18-4	1,2,3-Trichloropropane	<20	20
95-63-6	1,2,4-Trimethylbenzene	<20	20
108-67-8	1,3,5-Trimethylbenzene	<20	20

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ANALYTICAL REPORT

Client:	**RMT, Inc. - Ann Arbor Office**	Work Order:	**0903247**
Project:	Tecumseh Products	Description:	Laboratory Services
Client Sample ID:	**MW-1s**	Sampled:	03/13/09 14:58
Lab Sample ID:	**0903247-07**	Sampled By:	S. Middlebrook
Matrix:	Water	Received:	03/13/09 20:50
Unit:	ug/L	Prepared:	03/16/09 By: JDM
Dilution Factor:	20	Analyzed:	03/16/09 By: JDM
QC Batch:	0903090	Analytical Batch:	9031647

Volatile Organic Compounds by EPA Method 8260B (Continued)

CAS Number	Analyte	Analytical Result	RL
75-01-4	Vinyl Chloride	<20	20
136777-61-2	Xylene, Meta + Para	<40	40
95-47-6	Xylene, Ortho	<20	20

Surrogates:	*% Recovery*	*Control Limits*
Dibromofluoromethane	104	*88-115*
1,2-Dichloroethane-d4	103	*81-116*
Toluene-d8	99	*87-113*
4-Bromofluorobenzene	100	*78-116*

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ANALYTICAL REPORT

Client:	**RMT, Inc. - Ann Arbor Office**	Work Order:	**0903247**
Project:	Tecumseh Products	Description:	Laboratory Services
Client Sample ID:	**B-8 (44'-48')**	Sampled:	03/13/09 16:16
Lab Sample ID:	**0903247-08**	Sampled By:	S. Middlebrook
Matrix:	Water	Received:	03/13/09 20:50
Unit:	ug/L	Prepared:	03/16/09 By: JDM
Dilution Factor:	1	Analyzed:	03/16/09 By: JDM
QC Batch:	0903090	Analytical Batch:	9031647

Volatile Organic Compounds by EPA Method 8260B

CAS Number	Analyte	Analytical Result	RL
67-64-1	Acetone	<20	20
107-13-1	Acrylonitrile	<2.0	2.0
71-43-2	Benzene	<1.0	1.0
108-86-1	Bromobenzene	<1.0	1.0
74-97-5	Bromochloromethane	<1.0	1.0
75-27-4	Bromodichloromethane	<1.0	1.0
75-25-2	Bromoform	<1.0	1.0
74-83-9	Bromomethane	<5.0	5.0
104-51-8	n-Butylbenzene	<1.0	1.0
135-98-8	sec-Butylbenzene	<1.0	1.0
98-06-6	tert-Butylbenzene	<1.0	1.0
75-15-0	Carbon Disulfide	<1.0	1.0
56-23-5	Carbon Tetrachloride	<1.0	1.0
108-90-7	Chlorobenzene	<1.0	1.0
75-00-3	Chloroethane	<5.0	5.0
67-66-3	Chloroform	<1.0	1.0
74-87-3	Chloromethane	<5.0	5.0
96-12-8	1,2-Dibromo-3-chloropropane	<5.0	5.0
124-48-1	Dibromochloromethane	<1.0	1.0
106-93-4	1,2-Dibromoethane	<1.0	1.0
74-95-3	Dibromomethane	<1.0	1.0
110-57-6	trans-1,4-Dichloro-2-butene	<1.0	1.0
95-50-1	1,2-Dichlorobenzene	<1.0	1.0
541-73-1	1,3-Dichlorobenzene	<1.0	1.0
106-46-7	1,4-Dichlorobenzene	<1.0	1.0
75-71-8	Dichlorodifluoromethane	<5.0	5.0
75-34-3	1,1-Dichloroethane	<1.0	1.0
107-06-2	1,2-Dichloroethane	<1.0	1.0
75-35-4	1,1-Dichloroethene	<1.0	1.0
156-59-2	cis-1,2-Dichloroethene	<1.0	1.0
156-60-5	trans-1,2-Dichloroethene	<1.0	1.0

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ANALYTICAL REPORT

Client:	**RMT, Inc. - Ann Arbor Office**	Work Order:	**0903247**
Project:	Tecumseh Products	Description:	Laboratory Services
Client Sample ID:	**B-8 (44'-48')**	Sampled:	03/13/09 16:16
Lab Sample ID:	**0903247-08**	Sampled By:	S. Middlebrook
Matrix:	Water	Received:	03/13/09 20:50
Unit:	ug/L	Prepared:	03/16/09 By: JDM
Dilution Factor:	1	Analyzed:	03/16/09 By: JDM
QC Batch:	0903090	Analytical Batch:	9031647

Volatile Organic Compounds by EPA Method 8260B (Continued)

CAS Number	Analyte	Analytical Result	RL
78-87-5	1,2-Dichloropropane	<1.0	1.0
10061-01-5	cis-1,3-Dichloropropene	<1.0	1.0
10061-02-6	trans-1,3-Dichloropropene	<1.0	1.0
100-41-4	Ethylbenzene	<1.0	1.0
60-29-7	Ethyl Ether	<5.0	5.0
591-78-6	2-Hexanone	<5.0	5.0
74-88-4	Iodomethane	<1.0	1.0
98-82-8	Isopropylbenzene	<1.0	1.0
99-87-6	4-Isopropyltoluene	<5.0	5.0
1634-04-4	Methyl tert-Butyl Ether	<5.0	5.0
75-09-2	Methylene Chloride	<5.0	5.0
78-93-3	2-Butanone (MEK)	<5.0	5.0
91-57-6	2-Methylnaphthalene	<5.0	5.0
108-10-1	4-Methyl-2-pentanone (MIBK)	<5.0	5.0
91-20-3	Naphthalene	<5.0	5.0
103-65-1	n-Propylbenzene	<1.0	1.0
100-42-5	Styrene	<1.0	1.0
630-20-6	1,1,1,2-Tetrachloroethane	<1.0	1.0
79-34-5	1,1,2,2-Tetrachloroethane	<1.0	1.0
127-18-4	Tetrachloroethene	<1.0	1.0
109-99-9	Tetrahydrofuran	<5.0	5.0
108-88-3	Toluene	<1.0	1.0
87-61-6	1,2,3-Trichlorobenzene	<5.0	5.0
120-82-1	1,2,4-Trichlorobenzene	<5.0	5.0
71-55-6	1,1,1-Trichloroethane	<1.0	1.0
79-00-5	1,1,2-Trichloroethane	<1.0	1.0
79-01-6	Trichloroethene	<1.0	1.0
75-69-4	Trichlorofluoromethane	<1.0	1.0
96-18-4	1,2,3-Trichloropropane	<1.0	1.0
95-63-6	1,2,4-Trimethylbenzene	<1.0	1.0
108-67-8	1,3,5-Trimethylbenzene	<1.0	1.0

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ANALYTICAL REPORT

Client:	**RMT, Inc. - Ann Arbor Office**	Work Order:	**0903247**
Project:	Tecumseh Products	Description:	Laboratory Services
Client Sample ID:	**B-8 (44'-48')**	Sampled:	03/13/09 16:16
Lab Sample ID:	**0903247-08**	Sampled By:	S. Middlebrook
Matrix:	Water	Received:	03/13/09 20:50
Unit:	ug/L	Prepared:	03/16/09 By: JDM
Dilution Factor:	1	Analyzed:	03/16/09 By: JDM
QC Batch:	0903090	Analytical Batch:	9031647

Volatile Organic Compounds by EPA Method 8260B (Continued)

CAS Number	Analyte	Analytical Result	RL
75-01-4	Vinyl Chloride	<1.0	1.0
136777-61-2	Xylene, Meta + Para	<2.0	2.0
95-47-6	Xylene, Ortho	<1.0	1.0

Surrogates:	*% Recovery*	*Control Limits*
Dibromofluoromethane	102	*88-115*
1,2-Dichloroethane-d4	105	*81-116*
Toluene-d8	99	*87-113*
4-Bromofluorobenzene	99	*78-116*

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ANALYTICAL REPORT

Client:	**RMT, Inc. - Ann Arbor Office**	Work Order:	**0903247**
Project:	Tecumseh Products	Description:	Laboratory Services
Client Sample ID:	**MW-2s**	Sampled:	03/13/09 17:16
Lab Sample ID:	**0903247-09**	Sampled By:	S. Middlebrook
Matrix:	Water	Received:	03/13/09 20:50
Unit:	ug/L	Prepared:	03/16/09 By: JDM
Dilution Factor:	2	Analyzed:	03/16/09 By: JDM
QC Batch:	0903090	Analytical Batch:	9031647

Volatile Organic Compounds by EPA Method 8260B

CAS Number	Analyte	Analytical Result	RL
67-64-1	Acetone	<40	40
107-13-1	Acrylonitrile	<4.0	4.0
71-43-2	Benzene	<2.0	2.0
108-86-1	Bromobenzene	<2.0	2.0
74-97-5	Bromochloromethane	<2.0	2.0
75-27-4	Bromodichloromethane	<2.0	2.0
75-25-2	Bromoform	<2.0	2.0
74-83-9	Bromomethane	<10	10
104-51-8	n-Butylbenzene	<2.0	2.0
135-98-8	sec-Butylbenzene	<2.0	2.0
98-06-6	tert-Butylbenzene	<2.0	2.0
75-15-0	Carbon Disulfide	<2.0	2.0
56-23-5	Carbon Tetrachloride	<2.0	2.0
108-90-7	Chlorobenzene	<2.0	2.0
75-00-3	Chloroethane	<10	10
67-66-3	Chloroform	<2.0	2.0
74-87-3	Chloromethane	<10	10
96-12-8	1,2-Dibromo-3-chloropropane	<10	10
124-48-1	Dibromochloromethane	<2.0	2.0
106-93-4	1,2-Dibromoethane	<2.0	2.0
74-95-3	Dibromomethane	<2.0	2.0
110-57-6	trans-1,4-Dichloro-2-butene	<2.0	2.0
95-50-1	1,2-Dichlorobenzene	<2.0	2.0
541-73-1	1,3-Dichlorobenzene	<2.0	2.0
106-46-7	1,4-Dichlorobenzene	<2.0	2.0
75-71-8	Dichlorodifluoromethane	<10	10
75-34-3	1,1-Dichloroethane	<2.0	2.0
107-06-2	1,2-Dichloroethane	<2.0	2.0
75-35-4	1,1-Dichloroethene	<2.0	2.0
156-59-2	cis-1,2-Dichloroethene	**2.4**	2.0
156-60-5	trans-1,2-Dichloroethene	<2.0	2.0

Continued on next page

ANALYTICAL REPORT

Client:	**RMT, Inc. - Ann Arbor Office**	Work Order:	**0903247**
Project:	Tecumseh Products	Description:	Laboratory Services
Client Sample ID:	**MW-2s**	Sampled:	03/13/09 17:16
Lab Sample ID:	**0903247-09**	Sampled By:	S. Middlebrook
Matrix:	Water	Received:	03/13/09 20:50
Unit:	ug/L	Prepared:	03/16/09 By: JDM
Dilution Factor:	2	Analyzed:	03/16/09 By: JDM
QC Batch:	0903090	Analytical Batch:	9031647

Volatile Organic Compounds by EPA Method 8260B (Continued)

CAS Number	Analyte	Analytical Result	RL
78-87-5	1,2-Dichloropropane	<2.0	2.0
10061-01-5	cis-1,3-Dichloropropene	<2.0	2.0
10061-02-6	trans-1,3-Dichloropropene	<2.0	2.0
100-41-4	Ethylbenzene	<2.0	2.0
60-29-7	Ethyl Ether	<10	10
591-78-6	2-Hexanone	<10	10
74-88-4	Iodomethane	<2.0	2.0
98-82-8	Isopropylbenzene	<2.0	2.0
99-87-6	4-Isopropyltoluene	<10	10
1634-04-4	Methyl tert-Butyl Ether	<10	10
75-09-2	Methylene Chloride	<10	10
78-93-3	2-Butanone (MEK)	<10	10
91-57-6	2-Methylnaphthalene	<10	10
108-10-1	4-Methyl-2-pentanone (MIBK)	<10	10
91-20-3	Naphthalene	<10	10
103-65-1	n-Propylbenzene	<2.0	2.0
100-42-5	Styrene	<2.0	2.0
630-20-6	1,1,1,2-Tetrachloroethane	<2.0	2.0
79-34-5	1,1,2,2-Tetrachloroethane	<2.0	2.0
127-18-4	Tetrachloroethene	**2.2**	2.0
109-99-9	Tetrahydrofuran	<10	10
108-88-3	Toluene	<2.0	2.0
87-61-6	1,2,3-Trichlorobenzene	<10	10
120-82-1	1,2,4-Trichlorobenzene	<10	10
71-55-6	1,1,1-Trichloroethane	**2.5**	2.0
79-00-5	1,1,2-Trichloroethane	<2.0	2.0
79-01-6	Trichloroethene	**280**	2.0
75-69-4	Trichlorofluoromethane	<2.0	2.0
96-18-4	1,2,3-Trichloropropane	<2.0	2.0
95-63-6	1,2,4-Trimethylbenzene	<2.0	2.0
108-67-8	1,3,5-Trimethylbenzene	<2.0	2.0

Continued on next page

ANALYTICAL REPORT

Client:	**RMT, Inc. - Ann Arbor Office**	Work Order:	**0903247**
Project:	Tecumseh Products	Description:	Laboratory Services
Client Sample ID:	**MW-2s**	Sampled:	03/13/09 17:16
Lab Sample ID:	**0903247-09**	Sampled By:	S. Middlebrook
Matrix:	Water	Received:	03/13/09 20:50
Unit:	ug/L	Prepared:	03/16/09 By: JDM
Dilution Factor:	2	Analyzed:	03/16/09 By: JDM
QC Batch:	0903090	Analytical Batch:	9031647

Volatile Organic Compounds by EPA Method 8260B (Continued)

CAS Number	Analyte	Analytical Result	RL
75-01-4	Vinyl Chloride	<2.0	2.0
136777-61-2	Xylene, Meta + Para	<4.0	4.0
95-47-6	Xylene, Ortho	<2.0	2.0

Surrogates:	*% Recovery*	*Control Limits*
Dibromofluoromethane	103	*88-115*
1,2-Dichloroethane-d4	103	*81-116*
Toluene-d8	100	*87-113*
4-Bromofluorobenzene	100	*78-116*

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QUALITY CONTROL REPORT

Volatile Organic Compounds by EPA Method 8260B

Analyte	Sample Conc.	Spike Qty.	Result	Spike % Rec.	Control Limits	RPD	RPD Limits	RL

QC Batch: 0903090 5030B Aqueous Purge & Trap/USEPA-8260B

Method Blank Analyzed: 03/14/2009 By: JDM

Unit: ug/L Analytical Batch: 9031646

Acetone	<20		20
Acrylonitrile	<2.0		2.0
Benzene	<1.0		1.0
Bromobenzene	<1.0		1.0
Bromochloromethane	<1.0		1.0
Bromodichloromethane	<1.0		1.0
Bromoform	<1.0		1.0
Bromomethane	<5.0		5.0
n-Butylbenzene	<1.0		1.0
sec-Butylbenzene	<1.0		1.0
tert-Butylbenzene	<1.0		1.0
Carbon Disulfide	<1.0		1.0
Carbon Tetrachloride	<1.0		1.0
Chlorobenzene	<1.0		1.0
Chloroethane	<5.0		5.0
Chloroform	<1.0		1.0
Chloromethane	<5.0		5.0
1,2-Dibromo-3-chloropropane	<5.0		5.0
Dibromochloromethane	<1.0		1.0
1,2-Dibromoethane	<1.0		1.0
Dibromomethane	<1.0		1.0
trans-1,4-Dichloro-2-butene	<1.0		1.0
1,2-Dichlorobenzene	<1.0		1.0
1,3-Dichlorobenzene	<1.0		1.0
1,4-Dichlorobenzene	<1.0		1.0
Dichlorodifluoromethane	<5.0		5.0
1,1-Dichloroethane	<1.0		1.0
1,2-Dichloroethane	<1.0		1.0
1,1-Dichloroethene	<1.0		1.0
cis-1,2-Dichloroethene	<1.0		1.0
trans-1,2-Dichloroethene	<1.0		1.0
1,2-Dichloropropane	<1.0		1.0
cis-1,3-Dichloropropene	<1.0		1.0
trans-1,3-Dichloropropene	<1.0		1.0
Ethylbenzene	<1.0		1.0
Ethyl Ether	<5.0		5.0

Continued on next page

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QUALITY CONTROL REPORT

Volatile Organic Compounds by EPA Method 8260B (Continued)

Analyte	Sample Conc.	Spike Qty.	Result	Spike % Rec.	Control Limits	RPD	RPD Limits	RL

QC Batch: 0903090 (Continued) 5030B Aqueous Purge & Trap/USEPA-8260B

Method Blank (Continued) Analyzed: 03/14/2009 By: JDM

Unit: ug/L Analytical Batch: 9031646

2-Hexanone	<5.0						5.0	
Iodomethane	<1.0						1.0	
Isopropylbenzene	<1.0						1.0	
4-Isopropyltoluene	<5.0						5.0	
Methyl tert-Butyl Ether	<5.0						5.0	
Methylene Chloride	<5.0						5.0	
2-Butanone (MEK)	<5.0						5.0	
2-Methylnaphthalene	<5.0						5.0	
4-Methyl-2-pentanone (MIBK)	<5.0						5.0	
Naphthalene	<5.0						5.0	
n-Propylbenzene	<1.0						1.0	
Styrene	<1.0						1.0	
1,1,1,2-Tetrachloroethane	<1.0						1.0	
1,1,2,2-Tetrachloroethane	<1.0						1.0	
Tetrachloroethene	<1.0						1.0	
Tetrahydrofuran	<5.0						5.0	
Toluene	<1.0						1.0	
1,2,3-Trichlorobenzene	<5.0						5.0	
1,2,4-Trichlorobenzene	<5.0						5.0	
1,1,1-Trichloroethane	<1.0						1.0	
1,1,2-Trichloroethane	<1.0						1.0	
Trichloroethene	<1.0						1.0	
Trichlorofluoromethane	<1.0						1.0	
1,2,3-Trichloropropane	<1.0						1.0	
1,2,4-Trimethylbenzene	<1.0						1.0	
1,3,5-Trimethylbenzene	<1.0						1.0	
Vinyl Chloride	<1.0						1.0	
Xylene, Meta + Para	<2.0						2.0	
Xylene, Ortho	<1.0						1.0	
Surrogates:								
Dibromofluoromethane				*100*	*88-115*			
1,2-Dichloroethane-d4				*101*	*81-116*			
Toluene-d8				*99*	*87-113*			
4-Bromofluorobenzene				*99*	*78-116*			

Method Blank Analyzed: 03/16/2009 By: JDM

Unit: ug/L Analytical Batch: 9031647

Acetone	<20						20	

Continued on next page

QUALITY CONTROL REPORT

Volatile Organic Compounds by EPA Method 8260B (Continued)

Analyte	Sample Conc.	Spike Qty.	Result	Spike % Rec.	Control Limits	RPD	RPD Limits	RL

QC Batch: 0903090 (Continued) 5030B Aqueous Purge & Trap/USEPA-8260B

Method Blank (Continued) Analyzed: 03/16/2009 By: JDM

Unit: ug/L Analytical Batch: 9031647

Acrylonitrile	<2.0	2.0
Benzene	<1.0	1.0
Bromobenzene	<1.0	1.0
Bromochloromethane	<1.0	1.0
Bromodichloromethane	<1.0	1.0
Bromoform	<1.0	1.0
Bromomethane	<5.0	5.0
n-Butylbenzene	<1.0	1.0
sec-Butylbenzene	<1.0	1.0
tert-Butylbenzene	<1.0	1.0
Carbon Disulfide	<1.0	1.0
Carbon Tetrachloride	<1.0	1.0
Chlorobenzene	<1.0	1.0
Chloroethane	<5.0	5.0
Chloroform	<1.0	1.0
Chloromethane	<5.0	5.0
1,2-Dibromo-3-chloropropane	<5.0	5.0
Dibromochloromethane	<1.0	1.0
1,2-Dibromoethane	<1.0	1.0
Dibromomethane	<1.0	1.0
trans-1,4-Dichloro-2-butene	<1.0	1.0
1,2-Dichlorobenzene	<1.0	1.0
1,3-Dichlorobenzene	<1.0	1.0
1,4-Dichlorobenzene	<1.0	1.0
Dichlorodifluoromethane	<5.0	5.0
1,1-Dichloroethane	<1.0	1.0
1,2-Dichloroethane	<1.0	1.0
1,1-Dichloroethene	<1.0	1.0
cis-1,2-Dichloroethene	<1.0	1.0
trans-1,2-Dichloroethene	<1.0	1.0
1,2-Dichloropropane	<1.0	1.0
cis-1,3-Dichloropropene	<1.0	1.0
trans-1,3-Dichloropropene	<1.0	1.0
Ethylbenzene	<1.0	1.0
Ethyl Ether	<5.0	5.0
2-Hexanone	<5.0	5.0

Continued on next page

QUALITY CONTROL REPORT

Volatile Organic Compounds by EPA Method 8260B (Continued)

Analyte	Sample Conc.	Spike Qty.	Result	Spike % Rec.	Control Limits	RPD	RPD Limits	RL

QC Batch: 0903090 (Continued) 5030B Aqueous Purge & Trap/USEPA-8260B

Method Blank (Continued) Analyzed: 03/16/2009 By: JDM
Unit: ug/L Analytical Batch: 9031647

Iodomethane		<1.0				1.0
Isopropylbenzene		<1.0				1.0
4-Isopropyltoluene		<5.0				5.0
Methyl tert-Butyl Ether		<5.0				5.0
Methylene Chloride		<5.0				5.0
2-Butanone (MEK)		<5.0				5.0
2-Methylnaphthalene		<5.0				5.0
4-Methyl-2-pentanone (MIBK)		<5.0				5.0
Naphthalene		<5.0				5.0
n-Propylbenzene		<1.0				1.0
Styrene		<1.0				1.0
1,1,1,2-Tetrachloroethane		<1.0				1.0
1,1,2,2-Tetrachloroethane		<1.0				1.0
Tetrachloroethene		<1.0				1.0
Tetrahydrofuran		<5.0				5.0
Toluene		<1.0				1.0
1,2,3-Trichlorobenzene		<5.0				5.0
1,2,4-Trichlorobenzene		<5.0				5.0
1,1,1-Trichloroethane		<1.0				1.0
1,1,2-Trichloroethane		<1.0				1.0
Trichloroethene		<1.0				1.0
Trichlorofluoromethane		<1.0				1.0
1,2,3-Trichloropropane		<1.0				1.0
1,2,4-Trimethylbenzene		<1.0				1.0
1,3,5-Trimethylbenzene		<1.0				1.0
Vinyl Chloride		<1.0				1.0
Xylene, Meta + Para		<2.0				2.0
Xylene, Ortho		<1.0				1.0
Surrogates:						
Dibromofluoromethane				*101*	*88-115*	
1,2-Dichloroethane-d4				*102*	*81-116*	
Toluene-d8				*99*	*87-113*	
4-Bromofluorobenzene				*99*	*78-116*	

Laboratory Control Sample Analyzed: 03/14/2009 By: JDM
Unit: ug/L Analytical Batch: 9031646

Benzene	40.0	**37.2**	93	86-122		1.0

Continued on next page

QUALITY CONTROL REPORT

Volatile Organic Compounds by EPA Method 8260B (Continued)

Analyte	Sample Conc.	Spike Qty.	Result	Spike % Rec.	Control Limits	RPD	RPD Limits	RL
QC Batch: 0903090 (Continued) 5030B Aqueous Purge & Trap/USEPA-8260B								
Laboratory Control Sample (Continued)					Analyzed:	03/14/2009		By: JDM
Unit: ug/L					Analytical Batch:	9031646		
Chlorobenzene		40.0	**37.6**	94	88-114			1.0
1,1-Dichloroethene		40.0	**39.3**	98	81-125			1.0
Toluene		40.0	**36.8**	92	87-123			1.0
Trichloroethene		40.0	**37.3**	93	80-122			1.0
Surrogates:								
Dibromofluoromethane				*102*	*88-115*			
1,2-Dichloroethane-d4				*100*	*81-116*			
Toluene-d8				*99*	*87-113*			
4-Bromofluorobenzene				*100*	*78-116*			
Laboratory Control Sample					Analyzed:	03/16/2009		By: JDM
Unit: ug/L					Analytical Batch:	9031647		
Benzene		40.0	**38.8**	97	86-122			1.0
Chlorobenzene		40.0	**39.2**	98	88-114			1.0
1,1-Dichloroethene		40.0	**40.8**	102	81-125			1.0
Toluene		40.0	**38.6**	97	87-123			1.0
Trichloroethene		40.0	**38.8**	97	80-122			1.0
Surrogates:								
Dibromofluoromethane				*104*	*88-115*			
1,2-Dichloroethane-d4				*102*	*81-116*			
Toluene-d8				*101*	*87-113*			
4-Bromofluorobenzene				*101*	*78-116*			
Laboratory Control Sample Duplicate					Analyzed:	03/14/2009		By: JDM
Unit: ug/L					Analytical Batch:	9031646		
Benzene		40.0	**37.6**	94	86-122	1	20	1.0
Chlorobenzene		40.0	**37.2**	93	88-114	1	20	1.0
1,1-Dichloroethene		40.0	**40.0**	100	81-125	2	20	1.0
Toluene		40.0	**37.0**	93	87-123	0.7	20	1.0
Trichloroethene		40.0	**37.4**	94	80-122	0.3	20	1.0
Surrogates:								
Dibromofluoromethane				*102*	*88-115*			
1,2-Dichloroethane-d4				*100*	*81-116*			
Toluene-d8				*99*	*87-113*			
4-Bromofluorobenzene				*100*	*78-116*			

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STATEMENT OF DATA QUALIFICATIONS

Volatile Organic Compounds by EPA Method 8260B

Qualification: Sample integrity for the parameter was suspect upon receipt; container had headspace. All reported values, including non-detectable results, are considered estimated.

Analysis: USEPA-8260B

Sample/Analyte: 0903247-02 MW-4s

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TriMatrix Laboratories, Inc.
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Phone (616) 975-4500 Fax (616) 942-7463
www.trimatrixlabs.com

Chain of Custody Record

COC No. 128050

Page ____ of ____

For Lab Use Only

Cart: na
VOA Rack/Tray: L72 W
Receipt Log No.: 14-27
Project Chemist: JLR
Laboratory Project No.: R090247

Client Name: RMT, Inc
Address: Ranchero Dr
Ann Arbor, MI
Phone: 734-971-7080
Fax: 734 971-9022

Project Name: Tecumseh Products
Client Project No./P.O. No.: 8070.02
Invoice No. ☐ Client ☐ Other (comments)
Contact/Report To: John Bacon

Analyses Requested: D, VOC's

Container Type (corresponds to Container Packing List)

PRESERVATIVES
A NONE pH~7
B HNO_3 pH<2
C H_2SO_4 pH<2
D 1+1 HCl pH<2
E NaOH pH>12
F ZnAc/NaOH pH>9
G MeOH
H Other (note below)

Test Group	Matrix Code	Laboratory Sample Number		Sample ID	Cooler ID	Sample Date	Sample Time	COMP	GRAB	Matrix	Number of Containers Submitted	Total	Sample Comments
		-01	1	Dup-02		3-13-09	—		x	GW	2	2	
		-02	2	MW-4s		3-13-09	0704		x	GW	2	2	
		-03	3	MW-3s		3-13-09	0800		x	GW	2	2	
		-04	4	B-6 (44'-48')		3-13-09	1050		x	GW	2	2	
		-05	5	MW-5S		3-13-09	1322		x	GW	2	2	
		-06	6	TB-03		no date on bottle	no time on bottle				1	1	
		-07	7	MW-1s		3-13-09	1458		x	GW	2	2	
		-08	8	B-8 (44'-48')		3-13-09	1616		x	GW	2	2	
		-09	9	MW-~~4s~~ 2s (JZ)		3-13-09	1716		x	GW	2	2	
			10										

Sampled By (print): Scot Middlebrook
Sampler's Signature:
Company: RMT, Inc

How Shipped? Hand Carrier
Tracking No.

Comments: VOC's by 8260B
24 hr. turnaround

1. Relinquished By	Date	Time	2. Relinquished By	Date	Time	3. Relinquished By	Date	Time
	3-13-09	2050						
1. Received By	**Date**	**Time**	**2. Received By**	**Date**	**Time**	**3. Received For Lab By**	**Date**	**Time**
							3.13.09	20:50

WHITE COPY - REPORT YELLOW COPY - LABORATORY PINK COPY - FIELD

March 18, 2009

RMT, Inc. - Ann Arbor Office
Attn: John Bacon
3754 Ranchero Drive
Ann Arbor, MI 48108-2771

Project: Tecumseh Products

Dear John Bacon,

Enclosed is a copy of the laboratory report, comprised of the following work order(s), for test samples received by TriMatrix Laboratories:

Work Order	Received	Description
0903257	03/17/2009	Laboratory Services

This report relates only to the sample(s), as received. Test results are in compliance with the requirements of the National Environmental Laboratory Accreditation Conference (NELAC). Any qualifications of results, including sample acceptance requirements, are explained in the Statement of Data Qualifications.

Estimates of analytical uncertainties for the test results contained within this report are available upon request.

If you have any questions or require further information, please do not hesitate to contact me.

Sincerely,

Jennifer L. Rice
Project Chemist

Enclosures(s)

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ANALYTICAL REPORT

Client:	**RMT, Inc. - Ann Arbor Office**	Work Order:	**0903257**
Project:	Tecumseh Products	Description:	Laboratory Services
Client Sample ID:	**B-7 (44'-48')**	Sampled:	03/16/09 11:02
Lab Sample ID:	**0903257-01**	Sampled By:	S. Middlebrook
Matrix:	Water	Received:	03/17/09 08:39
Unit:	ug/L	Prepared:	03/17/09 By: JDM
Dilution Factor:	1	Analyzed:	03/17/09 By: JDM
QC Batch:	0903090	Analytical Batch:	9031730

Volatile Organic Compounds by EPA Method 8260B

CAS Number	Analyte	Analytical Result	RL
67-64-1	Acetone	<20	20
107-13-1	Acrylonitrile	<2.0	2.0
71-43-2	Benzene	<1.0	1.0
108-86-1	Bromobenzene	<1.0	1.0
74-97-5	Bromochloromethane	<1.0	1.0
75-27-4	Bromodichloromethane	<1.0	1.0
75-25-2	Bromoform	<1.0	1.0
74-83-9	Bromomethane	<5.0	5.0
104-51-8	n-Butylbenzene	<1.0	1.0
135-98-8	sec-Butylbenzene	<1.0	1.0
98-06-6	tert-Butylbenzene	<1.0	1.0
75-15-0	Carbon Disulfide	**3.5**	1.0
56-23-5	Carbon Tetrachloride	<1.0	1.0
108-90-7	Chlorobenzene	<1.0	1.0
75-00-3	Chloroethane	<5.0	5.0
67-66-3	Chloroform	<1.0	1.0
74-87-3	Chloromethane	<5.0	5.0
96-12-8	1,2-Dibromo-3-chloropropane	<5.0	5.0
124-48-1	Dibromochloromethane	<1.0	1.0
106-93-4	1,2-Dibromoethane	<1.0	1.0
74-95-3	Dibromomethane	<1.0	1.0
110-57-6	trans-1,4-Dichloro-2-butene	<1.0	1.0
95-50-1	1,2-Dichlorobenzene	<1.0	1.0
541-73-1	1,3-Dichlorobenzene	<1.0	1.0
106-46-7	1,4-Dichlorobenzene	<1.0	1.0
75-71-8	Dichlorodifluoromethane	<5.0	5.0
75-34-3	1,1-Dichloroethane	<1.0	1.0
107-06-2	1,2-Dichloroethane	<1.0	1.0
75-35-4	1,1-Dichloroethene	<1.0	1.0
156-59-2	cis-1,2-Dichloroethene	<1.0	1.0
156-60-5	trans-1,2-Dichloroethene	<1.0	1.0

Continued on next page

ANALYTICAL REPORT

Client:	**RMT, Inc. - Ann Arbor Office**	Work Order:	**0903257**
Project:	Tecumseh Products	Description:	Laboratory Services
Client Sample ID:	**B-7 (44'-48')**	Sampled:	03/16/09 11:02
Lab Sample ID:	**0903257-01**	Sampled By:	S. Middlebrook
Matrix:	Water	Received:	03/17/09 08:39
Unit:	ug/L	Prepared:	03/17/09 By: JDM
Dilution Factor:	1	Analyzed:	03/17/09 By: JDM
QC Batch:	0903090	Analytical Batch:	9031730

Volatile Organic Compounds by EPA Method 8260B (Continued)

CAS Number	Analyte	Analytical Result	RL
78-87-5	1,2-Dichloropropane	<1.0	1.0
10061-01-5	cis-1,3-Dichloropropene	<1.0	1.0
10061-02-6	trans-1,3-Dichloropropene	<1.0	1.0
100-41-4	Ethylbenzene	<1.0	1.0
60-29-7	Ethyl Ether	<5.0	5.0
591-78-6	2-Hexanone	<5.0	5.0
74-88-4	Iodomethane	<1.0	1.0
98-82-8	Isopropylbenzene	<1.0	1.0
99-87-6	4-Isopropyltoluene	<5.0	5.0
1634-04-4	Methyl tert-Butyl Ether	<5.0	5.0
75-09-2	Methylene Chloride	<5.0	5.0
78-93-3	2-Butanone (MEK)	<5.0	5.0
91-57-6	2-Methylnaphthalene	<5.0	5.0
108-10-1	4-Methyl-2-pentanone (MIBK)	<5.0	5.0
91-20-3	Naphthalene	<5.0	5.0
103-65-1	n-Propylbenzene	<1.0	1.0
100-42-5	Styrene	<1.0	1.0
630-20-6	1,1,1,2-Tetrachloroethane	<1.0	1.0
79-34-5	1,1,2,2-Tetrachloroethane	<1.0	1.0
127-18-4	Tetrachloroethene	<1.0	1.0
109-99-9	Tetrahydrofuran	<5.0	5.0
108-88-3	Toluene	<1.0	1.0
87-61-6	1,2,3-Trichlorobenzene	<5.0	5.0
120-82-1	1,2,4-Trichlorobenzene	<5.0	5.0
71-55-6	1,1,1-Trichloroethane	<1.0	1.0
79-00-5	1,1,2-Trichloroethane	<1.0	1.0
79-01-6	Trichloroethene	<1.0	1.0
75-69-4	Trichlorofluoromethane	<1.0	1.0
96-18-4	1,2,3-Trichloropropane	<1.0	1.0
95-63-6	1,2,4-Trimethylbenzene	<1.0	1.0
108-67-8	1,3,5-Trimethylbenzene	<1.0	1.0

Continued on next page

ANALYTICAL REPORT

Client:	**RMT, Inc. - Ann Arbor Office**	Work Order:	**0903257**
Project:	Tecumseh Products	Description:	Laboratory Services
Client Sample ID:	**B-7 (44'-48')**	Sampled:	03/16/09 11:02
Lab Sample ID:	**0903257-01**	Sampled By:	S. Middlebrook
Matrix:	Water	Received:	03/17/09 08:39
Unit:	ug/L	Prepared:	03/17/09 By: JDM
Dilution Factor:	1	Analyzed:	03/17/09 By: JDM
QC Batch:	0903090	Analytical Batch:	9031730

Volatile Organic Compounds by EPA Method 8260B (Continued)

CAS Number	Analyte	Analytical Result	RL
75-01-4	Vinyl Chloride	<1.0	1.0
136777-61-2	Xylene, Meta + Para	<2.0	2.0
95-47-6	Xylene, Ortho	<1.0	1.0

Surrogates:	*% Recovery*	*Control Limits*
Dibromofluoromethane	105	*88-115*
1,2-Dichloroethane-d4	109	*81-116*
Toluene-d8	101	*87-113*
4-Bromofluorobenzene	101	*78-116*

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ANALYTICAL REPORT

Client:	**RMT, Inc. - Ann Arbor Office**	Work Order:	**0903257**
Project:	Tecumseh Products	Description:	Laboratory Services
Client Sample ID:	**MW-7s**	Sampled:	03/16/09 17:58
Lab Sample ID:	**0903257-02**	Sampled By:	S. Middlebrook
Matrix:	Water	Received:	03/17/09 08:39
Unit:	ug/L	Prepared:	03/17/09 By: JDM
Dilution Factor:	1	Analyzed:	03/17/09 By: JDM
QC Batch:	0903090	Analytical Batch:	9031730

Volatile Organic Compounds by EPA Method 8260B

CAS Number	Analyte	Analytical Result	RL
67-64-1	Acetone	<20	20
107-13-1	Acrylonitrile	<2.0	2.0
71-43-2	Benzene	<1.0	1.0
108-86-1	Bromobenzene	<1.0	1.0
74-97-5	Bromochloromethane	<1.0	1.0
75-27-4	Bromodichloromethane	<1.0	1.0
75-25-2	Bromoform	<1.0	1.0
74-83-9	Bromomethane	<5.0	5.0
104-51-8	n-Butylbenzene	<1.0	1.0
135-98-8	sec-Butylbenzene	<1.0	1.0
98-06-6	tert-Butylbenzene	<1.0	1.0
75-15-0	Carbon Disulfide	<1.0	1.0
56-23-5	Carbon Tetrachloride	<1.0	1.0
108-90-7	Chlorobenzene	<1.0	1.0
75-00-3	Chloroethane	<5.0	5.0
67-66-3	Chloroform	<1.0	1.0
74-87-3	Chloromethane	<5.0	5.0
96-12-8	1,2-Dibromo-3-chloropropane	<5.0	5.0
124-48-1	Dibromochloromethane	<1.0	1.0
106-93-4	1,2-Dibromoethane	<1.0	1.0
74-95-3	Dibromomethane	<1.0	1.0
110-57-6	trans-1,4-Dichloro-2-butene	<1.0	1.0
95-50-1	1,2-Dichlorobenzene	<1.0	1.0
541-73-1	1,3-Dichlorobenzene	<1.0	1.0
106-46-7	1,4-Dichlorobenzene	<1.0	1.0
75-71-8	Dichlorodifluoromethane	<5.0	5.0
75-34-3	1,1-Dichloroethane	<1.0	1.0
107-06-2	1,2-Dichloroethane	<1.0	1.0
75-35-4	1,1-Dichloroethene	<1.0	1.0
156-59-2	cis-1,2-Dichloroethene	<1.0	1.0
156-60-5	trans-1,2-Dichloroethene	<1.0	1.0

Continued on next page

ANALYTICAL REPORT

Client:	**RMT, Inc. - Ann Arbor Office**	Work Order:	**0903257**
Project:	Tecumseh Products	Description:	Laboratory Services
Client Sample ID:	**MW-7s**	Sampled:	03/16/09 17:58
Lab Sample ID:	**0903257-02**	Sampled By:	S. Middlebrook
Matrix:	Water	Received:	03/17/09 08:39
Unit:	ug/L	Prepared:	03/17/09 By: JDM
Dilution Factor:	1	Analyzed:	03/17/09 By: JDM
QC Batch:	0903090	Analytical Batch:	9031730

Volatile Organic Compounds by EPA Method 8260B (Continued)

CAS Number	Analyte	Analytical Result	RL
78-87-5	1,2-Dichloropropane	<1.0	1.0
10061-01-5	cis-1,3-Dichloropropene	<1.0	1.0
10061-02-6	trans-1,3-Dichloropropene	<1.0	1.0
100-41-4	Ethylbenzene	<1.0	1.0
60-29-7	Ethyl Ether	<5.0	5.0
591-78-6	2-Hexanone	<5.0	5.0
74-88-4	Iodomethane	<1.0	1.0
98-82-8	Isopropylbenzene	<1.0	1.0
99-87-6	4-Isopropyltoluene	<5.0	5.0
1634-04-4	Methyl tert-Butyl Ether	<5.0	5.0
75-09-2	Methylene Chloride	<5.0	5.0
78-93-3	2-Butanone (MEK)	<5.0	5.0
91-57-6	2-Methylnaphthalene	<5.0	5.0
108-10-1	4-Methyl-2-pentanone (MIBK)	<5.0	5.0
91-20-3	Naphthalene	<5.0	5.0
103-65-1	n-Propylbenzene	<1.0	1.0
100-42-5	Styrene	<1.0	1.0
630-20-6	1,1,1,2-Tetrachloroethane	<1.0	1.0
79-34-5	1,1,2,2-Tetrachloroethane	<1.0	1.0
127-18-4	Tetrachloroethene	<1.0	1.0
109-99-9	Tetrahydrofuran	<5.0	5.0
108-88-3	Toluene	<1.0	1.0
87-61-6	1,2,3-Trichlorobenzene	<5.0	5.0
120-82-1	1,2,4-Trichlorobenzene	<5.0	5.0
71-55-6	1,1,1-Trichloroethane	**2.1**	1.0
79-00-5	1,1,2-Trichloroethane	<1.0	1.0
79-01-6	Trichloroethene	**10**	1.0
75-69-4	Trichlorofluoromethane	<1.0	1.0
96-18-4	1,2,3-Trichloropropane	<1.0	1.0
95-63-6	1,2,4-Trimethylbenzene	<1.0	1.0
108-67-8	1,3,5-Trimethylbenzene	<1.0	1.0

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ANALYTICAL REPORT

Client:	**RMT, Inc. - Ann Arbor Office**	Work Order:	**0903257**
Project:	Tecumseh Products	Description:	Laboratory Services
Client Sample ID:	**MW-7s**	Sampled:	03/16/09 17:58
Lab Sample ID:	**0903257-02**	Sampled By:	S. Middlebrook
Matrix:	Water	Received:	03/17/09 08:39
Unit:	ug/L	Prepared:	03/17/09 By: JDM
Dilution Factor:	1	Analyzed:	03/17/09 By: JDM
QC Batch:	0903090	Analytical Batch:	9031730

Volatile Organic Compounds by EPA Method 8260B (Continued)

CAS Number	Analyte	Analytical Result	RL
75-01-4	Vinyl Chloride	<1.0	1.0
136777-61-2	Xylene, Meta + Para	<2.0	2.0
95-47-6	Xylene, Ortho	<1.0	1.0

Surrogates:	*% Recovery*	*Control Limits*
Dibromofluoromethane	104	*88-115*
1,2-Dichloroethane-d4	109	*81-116*
Toluene-d8	102	*87-113*
4-Bromofluorobenzene	102	*78-116*

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ANALYTICAL REPORT

Client:	**RMT, Inc. - Ann Arbor Office**	Work Order:	**0903257**
Project:	Tecumseh Products	Description:	Laboratory Services
Client Sample ID:	**MW-8s**	Sampled:	03/16/09 18:24
Lab Sample ID:	**0903257-03**	Sampled By:	S. Middlebrook
Matrix:	Water	Received:	03/17/09 08:39
Unit:	ug/L	Prepared:	03/17/09 By: JDM
Dilution Factor:	1	Analyzed:	03/17/09 By: JDM
QC Batch:	0903090	Analytical Batch:	9031730

Volatile Organic Compounds by EPA Method 8260B

CAS Number	Analyte	Analytical Result	RL
67-64-1	Acetone	<20	20
107-13-1	Acrylonitrile	<2.0	2.0
71-43-2	Benzene	<1.0	1.0
108-86-1	Bromobenzene	<1.0	1.0
74-97-5	Bromochloromethane	<1.0	1.0
75-27-4	Bromodichloromethane	<1.0	1.0
75-25-2	Bromoform	<1.0	1.0
74-83-9	Bromomethane	<5.0	5.0
104-51-8	n-Butylbenzene	<1.0	1.0
135-98-8	sec-Butylbenzene	<1.0	1.0
98-06-6	tert-Butylbenzene	<1.0	1.0
75-15-0	Carbon Disulfide	<1.0	1.0
56-23-5	Carbon Tetrachloride	<1.0	1.0
108-90-7	Chlorobenzene	<1.0	1.0
75-00-3	Chloroethane	<5.0	5.0
67-66-3	Chloroform	<1.0	1.0
74-87-3	Chloromethane	<5.0	5.0
96-12-8	1,2-Dibromo-3-chloropropane	<5.0	5.0
124-48-1	Dibromochloromethane	<1.0	1.0
106-93-4	1,2-Dibromoethane	<1.0	1.0
74-95-3	Dibromomethane	<1.0	1.0
110-57-6	trans-1,4-Dichloro-2-butene	<1.0	1.0
95-50-1	1,2-Dichlorobenzene	<1.0	1.0
541-73-1	1,3-Dichlorobenzene	<1.0	1.0
106-46-7	1,4-Dichlorobenzene	<1.0	1.0
75-71-8	Dichlorodifluoromethane	<5.0	5.0
75-34-3	1,1-Dichloroethane	<1.0	1.0
107-06-2	1,2-Dichloroethane	<1.0	1.0
75-35-4	1,1-Dichloroethene	<1.0	1.0
156-59-2	cis-1,2-Dichloroethene	<1.0	1.0
156-60-5	trans-1,2-Dichloroethene	<1.0	1.0

Continued on next page

ANALYTICAL REPORT

Client:	**RMT, Inc. - Ann Arbor Office**	Work Order:	**0903257**
Project:	Tecumseh Products	Description:	Laboratory Services
Client Sample ID:	**MW-8s**	Sampled:	03/16/09 18:24
Lab Sample ID:	**0903257-03**	Sampled By:	S. Middlebrook
Matrix:	Water	Received:	03/17/09 08:39
Unit:	ug/L	Prepared:	03/17/09 By: JDM
Dilution Factor:	1	Analyzed:	03/17/09 By: JDM
QC Batch:	0903090	Analytical Batch:	9031730

Volatile Organic Compounds by EPA Method 8260B (Continued)

CAS Number	Analyte	Analytical Result	RL
78-87-5	1,2-Dichloropropane	<1.0	1.0
10061-01-5	cis-1,3-Dichloropropene	<1.0	1.0
10061-02-6	trans-1,3-Dichloropropene	<1.0	1.0
100-41-4	Ethylbenzene	<1.0	1.0
60-29-7	Ethyl Ether	<5.0	5.0
591-78-6	2-Hexanone	<5.0	5.0
74-88-4	Iodomethane	<1.0	1.0
98-82-8	Isopropylbenzene	<1.0	1.0
99-87-6	4-Isopropyltoluene	<5.0	5.0
1634-04-4	Methyl tert-Butyl Ether	<5.0	5.0
75-09-2	Methylene Chloride	<5.0	5.0
78-93-3	2-Butanone (MEK)	<5.0	5.0
91-57-6	2-Methylnaphthalene	<5.0	5.0
108-10-1	4-Methyl-2-pentanone (MIBK)	<5.0	5.0
91-20-3	Naphthalene	<5.0	5.0
103-65-1	n-Propylbenzene	<1.0	1.0
100-42-5	Styrene	<1.0	1.0
630-20-6	1,1,1,2-Tetrachloroethane	<1.0	1.0
79-34-5	1,1,2,2-Tetrachloroethane	<1.0	1.0
127-18-4	Tetrachloroethene	<1.0	1.0
109-99-9	Tetrahydrofuran	<5.0	5.0
108-88-3	Toluene	<1.0	1.0
87-61-6	1,2,3-Trichlorobenzene	<5.0	5.0
120-82-1	1,2,4-Trichlorobenzene	<5.0	5.0
71-55-6	1,1,1-Trichloroethane	<1.0	1.0
79-00-5	1,1,2-Trichloroethane	<1.0	1.0
79-01-6	Trichloroethene	**11**	1.0
75-69-4	Trichlorofluoromethane	<1.0	1.0
96-18-4	1,2,3-Trichloropropane	<1.0	1.0
95-63-6	1,2,4-Trimethylbenzene	<1.0	1.0
108-67-8	1,3,5-Trimethylbenzene	<1.0	1.0

Continued on next page

ANALYTICAL REPORT

Client:	**RMT, Inc. - Ann Arbor Office**	Work Order:	**0903257**
Project:	Tecumseh Products	Description:	Laboratory Services
Client Sample ID:	**MW-8s**	Sampled:	03/16/09 18:24
Lab Sample ID:	**0903257-03**	Sampled By:	S. Middlebrook
Matrix:	Water	Received:	03/17/09 08:39
Unit:	ug/L	Prepared:	03/17/09 By: JDM
Dilution Factor:	1	Analyzed:	03/17/09 By: JDM
QC Batch:	0903090	Analytical Batch:	9031730

Volatile Organic Compounds by EPA Method 8260B (Continued)

CAS Number	Analyte	Analytical Result	RL
75-01-4	Vinyl Chloride	<1.0	1.0
136777-61-2	Xylene, Meta + Para	<2.0	2.0
95-47-6	Xylene, Ortho	<1.0	1.0

Surrogates:	*% Recovery*	*Control Limits*
Dibromofluoromethane	104	*88-115*
1,2-Dichloroethane-d4	106	*81-116*
Toluene-d8	101	*87-113*
4-Bromofluorobenzene	102	*78-116*

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ANALYTICAL REPORT

Client:	**RMT, Inc. - Ann Arbor Office**	Work Order:	**0903257**
Project:	Tecumseh Products	Description:	Laboratory Services
Client Sample ID:	**MW-9s**	Sampled:	03/16/09 19:14
Lab Sample ID:	**0903257-04**	Sampled By:	S. Middlebrook
Matrix:	Water	Received:	03/17/09 08:39
Unit:	ug/L	Prepared:	03/17/09 By: JDM
Dilution Factor:	20	Analyzed:	03/17/09 By: JDM
QC Batch:	0903090	Analytical Batch:	9031730

Volatile Organic Compounds by EPA Method 8260B

CAS Number	Analyte	Analytical Result	RL
67-64-1	Acetone	<400	400
107-13-1	Acrylonitrile	<40	40
71-43-2	Benzene	<20	20
108-86-1	Bromobenzene	<20	20
74-97-5	Bromochloromethane	<20	20
75-27-4	Bromodichloromethane	<20	20
75-25-2	Bromoform	<20	20
74-83-9	Bromomethane	<100	100
104-51-8	n-Butylbenzene	<20	20
135-98-8	sec-Butylbenzene	<20	20
98-06-6	tert-Butylbenzene	<20	20
75-15-0	Carbon Disulfide	<20	20
56-23-5	Carbon Tetrachloride	<20	20
108-90-7	Chlorobenzene	<20	20
75-00-3	Chloroethane	<100	100
67-66-3	Chloroform	<20	20
74-87-3	Chloromethane	<100	100
96-12-8	1,2-Dibromo-3-chloropropane	<100	100
124-48-1	Dibromochloromethane	<20	20
106-93-4	1,2-Dibromoethane	<20	20
74-95-3	Dibromomethane	<20	20
110-57-6	trans-1,4-Dichloro-2-butene	<20	20
95-50-1	1,2-Dichlorobenzene	<20	20
541-73-1	1,3-Dichlorobenzene	<20	20
106-46-7	1,4-Dichlorobenzene	<20	20
75-71-8	Dichlorodifluoromethane	<100	100
75-34-3	1,1-Dichloroethane	<20	20
107-06-2	1,2-Dichloroethane	<20	20
75-35-4	1,1-Dichloroethene	<20	20
156-59-2	cis-1,2-Dichloroethene	<20	20
156-60-5	trans-1,2-Dichloroethene	<20	20

Continued on next page

ANALYTICAL REPORT

Client:	**RMT, Inc. - Ann Arbor Office**	Work Order:	**0903257**
Project:	Tecumseh Products	Description:	Laboratory Services
Client Sample ID:	**MW-9s**	Sampled:	03/16/09 19:14
Lab Sample ID:	**0903257-04**	Sampled By:	S. Middlebrook
Matrix:	Water	Received:	03/17/09 08:39
Unit:	ug/L	Prepared:	03/17/09 By: JDM
Dilution Factor:	20	Analyzed:	03/17/09 By: JDM
QC Batch:	0903090	Analytical Batch:	9031730

Volatile Organic Compounds by EPA Method 8260B (Continued)

CAS Number	Analyte	Analytical Result	RL
78-87-5	1,2-Dichloropropane	<20	20
10061-01-5	cis-1,3-Dichloropropene	<20	20
10061-02-6	trans-1,3-Dichloropropene	<20	20
100-41-4	Ethylbenzene	<20	20
60-29-7	Ethyl Ether	<100	100
591-78-6	2-Hexanone	<100	100
74-88-4	Iodomethane	<20	20
98-82-8	Isopropylbenzene	<20	20
99-87-6	4-Isopropyltoluene	<100	100
1634-04-4	Methyl tert-Butyl Ether	<100	100
75-09-2	Methylene Chloride	<100	100
78-93-3	2-Butanone (MEK)	<100	100
91-57-6	2-Methylnaphthalene	<100	100
108-10-1	4-Methyl-2-pentanone (MIBK)	<100	100
91-20-3	Naphthalene	<100	100
103-65-1	n-Propylbenzene	<20	20
100-42-5	Styrene	<20	20
630-20-6	1,1,1,2-Tetrachloroethane	<20	20
79-34-5	1,1,2,2-Tetrachloroethane	<20	20
127-18-4	Tetrachloroethene	<20	20
109-99-9	Tetrahydrofuran	<100	100
108-88-3	Toluene	<20	20
87-61-6	1,2,3-Trichlorobenzene	<100	100
120-82-1	1,2,4-Trichlorobenzene	<100	100
71-55-6	1,1,1-Trichloroethane	**160**	20
79-00-5	1,1,2-Trichloroethane	<20	20
79-01-6	Trichloroethene	**1700**	20
75-69-4	Trichlorofluoromethane	<20	20
96-18-4	1,2,3-Trichloropropane	<20	20
95-63-6	1,2,4-Trimethylbenzene	<20	20
108-67-8	1,3,5-Trimethylbenzene	<20	20

Continued on next page

ANALYTICAL REPORT

Client:	**RMT, Inc. - Ann Arbor Office**	Work Order:	**0903257**
Project:	Tecumseh Products	Description:	Laboratory Services
Client Sample ID:	**MW-9s**	Sampled:	03/16/09 19:14
Lab Sample ID:	**0903257-04**	Sampled By:	S. Middlebrook
Matrix:	Water	Received:	03/17/09 08:39
Unit:	ug/L	Prepared:	03/17/09 By: JDM
Dilution Factor:	20	Analyzed:	03/17/09 By: JDM
QC Batch:	0903090	Analytical Batch:	9031730

Volatile Organic Compounds by EPA Method 8260B (Continued)

CAS Number	Analyte	Analytical Result	RL
75-01-4	Vinyl Chloride	<20	20
136777-61-2	Xylene, Meta + Para	<40	40
95-47-6	Xylene, Ortho	<20	20

Surrogates:	*% Recovery*	*Control Limits*
Dibromofluoromethane	105	*88-115*
1,2-Dichloroethane-d4	107	*81-116*
Toluene-d8	101	*87-113*
4-Bromofluorobenzene	103	*78-116*

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ANALYTICAL REPORT

Client:	**RMT, Inc. - Ann Arbor Office**	Work Order:	**0903257**
Project:	Tecumseh Products	Description:	Laboratory Services
Client Sample ID:	**MW-6s**	Sampled:	03/16/09 19:43
Lab Sample ID:	**0903257-05**	Sampled By:	S. Middlebrook
Matrix:	Water	Received:	03/17/09 08:39
Unit:	ug/L	Prepared:	03/17/09 By: JDM
Dilution Factor:	1	Analyzed:	03/17/09 By: JDM
QC Batch:	0903090	Analytical Batch:	9031730

Volatile Organic Compounds by EPA Method 8260B

CAS Number	Analyte	Analytical Result	RL
67-64-1	Acetone	<20	20
107-13-1	Acrylonitrile	<2.0	2.0
71-43-2	Benzene	<1.0	1.0
108-86-1	Bromobenzene	<1.0	1.0
74-97-5	Bromochloromethane	<1.0	1.0
75-27-4	Bromodichloromethane	<1.0	1.0
75-25-2	Bromoform	<1.0	1.0
74-83-9	Bromomethane	<5.0	5.0
104-51-8	n-Butylbenzene	<1.0	1.0
135-98-8	sec-Butylbenzene	<1.0	1.0
98-06-6	tert-Butylbenzene	<1.0	1.0
75-15-0	Carbon Disulfide	<1.0	1.0
56-23-5	Carbon Tetrachloride	<1.0	1.0
108-90-7	Chlorobenzene	<1.0	1.0
75-00-3	Chloroethane	<5.0	5.0
67-66-3	Chloroform	<1.0	1.0
74-87-3	Chloromethane	<5.0	5.0
96-12-8	1,2-Dibromo-3-chloropropane	<5.0	5.0
124-48-1	Dibromochloromethane	<1.0	1.0
106-93-4	1,2-Dibromoethane	<1.0	1.0
74-95-3	Dibromomethane	<1.0	1.0
110-57-6	trans-1,4-Dichloro-2-butene	<1.0	1.0
95-50-1	1,2-Dichlorobenzene	<1.0	1.0
541-73-1	1,3-Dichlorobenzene	<1.0	1.0
106-46-7	1,4-Dichlorobenzene	<1.0	1.0
75-71-8	Dichlorodifluoromethane	<5.0	5.0
75-34-3	1,1-Dichloroethane	<1.0	1.0
107-06-2	1,2-Dichloroethane	<1.0	1.0
75-35-4	1,1-Dichloroethene	<1.0	1.0
156-59-2	cis-1,2-Dichloroethene	<1.0	1.0
156-60-5	trans-1,2-Dichloroethene	<1.0	1.0

Continued on next page

ANALYTICAL REPORT

Client:	**RMT, Inc. - Ann Arbor Office**	Work Order:	**0903257**
Project:	Tecumseh Products	Description:	Laboratory Services
Client Sample ID:	**MW-6s**	Sampled:	03/16/09 19:43
Lab Sample ID:	**0903257-05**	Sampled By:	S. Middlebrook
Matrix:	Water	Received:	03/17/09 08:39
Unit:	ug/L	Prepared:	03/17/09 By: JDM
Dilution Factor:	1	Analyzed:	03/17/09 By: JDM
QC Batch:	0903090	Analytical Batch:	9031730

Volatile Organic Compounds by EPA Method 8260B (Continued)

CAS Number	Analyte	Analytical Result	RL
78-87-5	1,2-Dichloropropane	<1.0	1.0
10061-01-5	cis-1,3-Dichloropropene	<1.0	1.0
10061-02-6	trans-1,3-Dichloropropene	<1.0	1.0
100-41-4	Ethylbenzene	<1.0	1.0
60-29-7	Ethyl Ether	<5.0	5.0
591-78-6	2-Hexanone	<5.0	5.0
74-88-4	Iodomethane	<1.0	1.0
98-82-8	Isopropylbenzene	<1.0	1.0
99-87-6	4-Isopropyltoluene	<5.0	5.0
1634-04-4	Methyl tert-Butyl Ether	<5.0	5.0
75-09-2	Methylene Chloride	<5.0	5.0
78-93-3	2-Butanone (MEK)	<5.0	5.0
91-57-6	2-Methylnaphthalene	<5.0	5.0
108-10-1	4-Methyl-2-pentanone (MIBK)	<5.0	5.0
91-20-3	Naphthalene	<5.0	5.0
103-65-1	n-Propylbenzene	<1.0	1.0
100-42-5	Styrene	<1.0	1.0
630-20-6	1,1,1,2-Tetrachloroethane	<1.0	1.0
79-34-5	1,1,2,2-Tetrachloroethane	<1.0	1.0
127-18-4	Tetrachloroethene	<1.0	1.0
109-99-9	Tetrahydrofuran	<5.0	5.0
108-88-3	Toluene	<1.0	1.0
87-61-6	1,2,3-Trichlorobenzene	<5.0	5.0
120-82-1	1,2,4-Trichlorobenzene	<5.0	5.0
71-55-6	1,1,1-Trichloroethane	<1.0	1.0
79-00-5	1,1,2-Trichloroethane	<1.0	1.0
79-01-6	Trichloroethene	**21**	1.0
75-69-4	Trichlorofluoromethane	<1.0	1.0
96-18-4	1,2,3-Trichloropropane	<1.0	1.0
95-63-6	1,2,4-Trimethylbenzene	<1.0	1.0
108-67-8	1,3,5-Trimethylbenzene	<1.0	1.0

Continued on next page

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ANALYTICAL REPORT

Client:	**RMT, Inc. - Ann Arbor Office**	Work Order:	**0903257**
Project:	Tecumseh Products	Description:	Laboratory Services
Client Sample ID:	**MW-6s**	Sampled:	03/16/09 19:43
Lab Sample ID:	**0903257-05**	Sampled By:	S. Middlebrook
Matrix:	Water	Received:	03/17/09 08:39
Unit:	ug/L	Prepared:	03/17/09 By: JDM
Dilution Factor:	1	Analyzed:	03/17/09 By: JDM
QC Batch:	0903090	Analytical Batch:	9031730

Volatile Organic Compounds by EPA Method 8260B (Continued)

CAS Number	Analyte	Analytical Result	RL
75-01-4	Vinyl Chloride	<1.0	1.0
136777-61-2	Xylene, Meta + Para	<2.0	2.0
95-47-6	Xylene, Ortho	<1.0	1.0

Surrogates:	*% Recovery*	*Control Limits*
Dibromofluoromethane	103	*88-115*
1,2-Dichloroethane-d4	107	*81-116*
Toluene-d8	101	*87-113*
4-Bromofluorobenzene	101	*78-116*

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ANALYTICAL REPORT

Client:	**RMT, Inc. - Ann Arbor Office**	Work Order:	**0903257**
Project:	Tecumseh Products	Description:	Laboratory Services
Client Sample ID:	**TB-04**	Sampled:	03/16/09 09:25
Lab Sample ID:	**0903257-06**	Sampled By:	S. Middlebrook
Matrix:	Water	Received:	03/17/09 08:39
Unit:	ug/L	Prepared:	03/17/09 By: JDM
Dilution Factor:	1	Analyzed:	03/17/09 By: JDM
QC Batch:	0903090	Analytical Batch:	9031730

Volatile Organic Compounds by EPA Method 8260B

CAS Number	Analyte	Analytical Result	RL
67-64-1	Acetone	<20	20
107-13-1	Acrylonitrile	<2.0	2.0
71-43-2	Benzene	<1.0	1.0
108-86-1	Bromobenzene	<1.0	1.0
74-97-5	Bromochloromethane	<1.0	1.0
75-27-4	Bromodichloromethane	<1.0	1.0
75-25-2	Bromoform	<1.0	1.0
74-83-9	Bromomethane	<5.0	5.0
104-51-8	n-Butylbenzene	<1.0	1.0
135-98-8	sec-Butylbenzene	<1.0	1.0
98-06-6	tert-Butylbenzene	<1.0	1.0
75-15-0	Carbon Disulfide	<1.0	1.0
56-23-5	Carbon Tetrachloride	<1.0	1.0
108-90-7	Chlorobenzene	<1.0	1.0
75-00-3	Chloroethane	<5.0	5.0
67-66-3	Chloroform	<1.0	1.0
74-87-3	Chloromethane	<5.0	5.0
96-12-8	1,2-Dibromo-3-chloropropane	<5.0	5.0
124-48-1	Dibromochloromethane	<1.0	1.0
106-93-4	1,2-Dibromoethane	<1.0	1.0
74-95-3	Dibromomethane	<1.0	1.0
110-57-6	trans-1,4-Dichloro-2-butene	<1.0	1.0
95-50-1	1,2-Dichlorobenzene	<1.0	1.0
541-73-1	1,3-Dichlorobenzene	<1.0	1.0
106-46-7	1,4-Dichlorobenzene	<1.0	1.0
75-71-8	Dichlorodifluoromethane	<5.0	5.0
75-34-3	1,1-Dichloroethane	<1.0	1.0
107-06-2	1,2-Dichloroethane	<1.0	1.0
75-35-4	1,1-Dichloroethene	<1.0	1.0
156-59-2	cis-1,2-Dichloroethene	<1.0	1.0
156-60-5	trans-1,2-Dichloroethene	<1.0	1.0

Continued on next page

ANALYTICAL REPORT

Client:	**RMT, Inc. - Ann Arbor Office**	Work Order:	**0903257**
Project:	Tecumseh Products	Description:	Laboratory Services
Client Sample ID:	**TB-04**	Sampled:	03/16/09 09:25
Lab Sample ID:	**0903257-06**	Sampled By:	S. Middlebrook
Matrix:	Water	Received:	03/17/09 08:39
Unit:	ug/L	Prepared:	03/17/09 By: JDM
Dilution Factor:	1	Analyzed:	03/17/09 By: JDM
QC Batch:	0903090	Analytical Batch:	9031730

Volatile Organic Compounds by EPA Method 8260B (Continued)

CAS Number	Analyte	Analytical Result	RL
78-87-5	1,2-Dichloropropane	<1.0	1.0
10061-01-5	cis-1,3-Dichloropropene	<1.0	1.0
10061-02-6	trans-1,3-Dichloropropene	<1.0	1.0
100-41-4	Ethylbenzene	<1.0	1.0
60-29-7	Ethyl Ether	<5.0	5.0
591-78-6	2-Hexanone	<5.0	5.0
74-88-4	Iodomethane	<1.0	1.0
98-82-8	Isopropylbenzene	<1.0	1.0
99-87-6	4-Isopropyltoluene	<5.0	5.0
1634-04-4	Methyl tert-Butyl Ether	<5.0	5.0
75-09-2	Methylene Chloride	<5.0	5.0
78-93-3	2-Butanone (MEK)	<5.0	5.0
91-57-6	2-Methylnaphthalene	<5.0	5.0
108-10-1	4-Methyl-2-pentanone (MIBK)	<5.0	5.0
91-20-3	Naphthalene	<5.0	5.0
103-65-1	n-Propylbenzene	<1.0	1.0
100-42-5	Styrene	<1.0	1.0
630-20-6	1,1,1,2-Tetrachloroethane	<1.0	1.0
79-34-5	1,1,2,2-Tetrachloroethane	<1.0	1.0
127-18-4	Tetrachloroethene	<1.0	1.0
109-99-9	Tetrahydrofuran	<5.0	5.0
108-88-3	Toluene	<1.0	1.0
87-61-6	1,2,3-Trichlorobenzene	<5.0	5.0
120-82-1	1,2,4-Trichlorobenzene	<5.0	5.0
71-55-6	1,1,1-Trichloroethane	<1.0	1.0
79-00-5	1,1,2-Trichloroethane	<1.0	1.0
79-01-6	Trichloroethene	<1.0	1.0
75-69-4	Trichlorofluoromethane	<1.0	1.0
96-18-4	1,2,3-Trichloropropane	<1.0	1.0
95-63-6	1,2,4-Trimethylbenzene	<1.0	1.0
108-67-8	1,3,5-Trimethylbenzene	<1.0	1.0

Continued on next page

ANALYTICAL REPORT

Client:	**RMT, Inc. - Ann Arbor Office**	Work Order:	**0903257**
Project:	Tecumseh Products	Description:	Laboratory Services
Client Sample ID:	**TB-04**	Sampled:	03/16/09 09:25
Lab Sample ID:	**0903257-06**	Sampled By:	S. Middlebrook
Matrix:	Water	Received:	03/17/09 08:39
Unit:	ug/L	Prepared:	03/17/09 By: JDM
Dilution Factor:	1	Analyzed:	03/17/09 By: JDM
QC Batch:	0903090	Analytical Batch:	9031730

Volatile Organic Compounds by EPA Method 8260B (Continued)

CAS Number	Analyte	Analytical Result	RL
75-01-4	Vinyl Chloride	<1.0	1.0
136777-61-2	Xylene, Meta + Para	<2.0	2.0
95-47-6	Xylene, Ortho	<1.0	1.0

Surrogates:	*% Recovery*	*Control Limits*
Dibromofluoromethane	104	*88-115*
1,2-Dichloroethane-d4	110	*81-116*
Toluene-d8	101	*87-113*
4-Bromofluorobenzene	103	*78-116*

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QUALITY CONTROL REPORT

Volatile Organic Compounds by EPA Method 8260B

Analyte	Sample Conc.	Spike Qty.	Result	Spike % Rec.	Control Limits	RPD	RPD Limits	RL

QC Batch: 0903090 5030B Aqueous Purge & Trap/USEPA-8260B

Method Blank Analyzed: 03/17/2009 By: JDM

Unit: ug/L Analytical Batch: 9031730

Acetone			<20					20
Acrylonitrile			<2.0					2.0
Benzene			<1.0					1.0
Bromobenzene			<1.0					1.0
Bromochloromethane			<1.0					1.0
Bromodichloromethane			<1.0					1.0
Bromoform			<1.0					1.0
Bromomethane			<5.0					5.0
n-Butylbenzene			<1.0					1.0
sec-Butylbenzene			<1.0					1.0
tert-Butylbenzene			<1.0					1.0
Carbon Disulfide			<1.0					1.0
Carbon Tetrachloride			<1.0					1.0
Chlorobenzene			<1.0					1.0
Chloroethane			<5.0					5.0
Chloroform			<1.0					1.0
Chloromethane			<5.0					5.0
1,2-Dibromo-3-chloropropane			<5.0					5.0
Dibromochloromethane			<1.0					1.0
1,2-Dibromoethane			<1.0					1.0
Dibromomethane			<1.0					1.0
trans-1,4-Dichloro-2-butene			<1.0					1.0
1,2-Dichlorobenzene			<1.0					1.0
1,3-Dichlorobenzene			<1.0					1.0
1,4-Dichlorobenzene			<1.0					1.0
Dichlorodifluoromethane			<5.0					5.0
1,1-Dichloroethane			<1.0					1.0
1,2-Dichloroethane			<1.0					1.0
1,1-Dichloroethene			<1.0					1.0
cis-1,2-Dichloroethene			<1.0					1.0
trans-1,2-Dichloroethene			<1.0					1.0
1,2-Dichloropropane			<1.0					1.0
cis-1,3-Dichloropropene			<1.0					1.0
trans-1,3-Dichloropropene			<1.0					1.0
Ethylbenzene			<1.0					1.0
Ethyl Ether			<5.0					5.0

Continued on next page

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QUALITY CONTROL REPORT

Volatile Organic Compounds by EPA Method 8260B (Continued)

Analyte	Sample Conc.	Spike Qty.	Result	Spike % Rec.	Control Limits	RPD	RPD Limits	RL

QC Batch: 0903090 (Continued) 5030B Aqueous Purge & Trap/USEPA-8260B

Method Blank (Continued) Analyzed: 03/17/2009 By: JDM
Unit: ug/L Analytical Batch: 9031730

2-Hexanone		<5.0				5.0
Iodomethane		<1.0				1.0
Isopropylbenzene		<1.0				1.0
4-Isopropyltoluene		<5.0				5.0
Methyl tert-Butyl Ether		<5.0				5.0
Methylene Chloride		<5.0				5.0
2-Butanone (MEK)		<5.0				5.0
2-Methylnaphthalene		<5.0				5.0
4-Methyl-2-pentanone (MIBK)		<5.0				5.0
Naphthalene		<5.0				5.0
n-Propylbenzene		<1.0				1.0
Styrene		<1.0				1.0
1,1,1,2-Tetrachloroethane		<1.0				1.0
1,1,2,2-Tetrachloroethane		<1.0				1.0
Tetrachloroethene		<1.0				1.0
Tetrahydrofuran		<5.0				5.0
Toluene		<1.0				1.0
1,2,3-Trichlorobenzene		<5.0				5.0
1,2,4-Trichlorobenzene		<5.0				5.0
1,1,1-Trichloroethane		<1.0				1.0
1,1,2-Trichloroethane		<1.0				1.0
Trichloroethene		<1.0				1.0
Trichlorofluoromethane		<1.0				1.0
1,2,3-Trichloropropane		<1.0				1.0
1,2,4-Trimethylbenzene		<1.0				1.0
1,3,5-Trimethylbenzene		<1.0				1.0
Vinyl Chloride		<1.0				1.0
Xylene (Total)		<3.0				3.0
Surrogates:						
Dibromofluoromethane				*102*	*88-115*	
1,2-Dichloroethane-d4				*103*	*81-116*	
Toluene-d8				*99*	*87-113*	
4-Bromofluorobenzene				*99*	*78-116*	

Laboratory Control Sample Analyzed: 03/17/2009 By: JDM
Unit: ug/L Analytical Batch: 9031730

Benzene	40.0	**37.7**	94	86-122		1.0

Continued on next page

QUALITY CONTROL REPORT

Volatile Organic Compounds by EPA Method 8260B (Continued)

Analyte	Sample Conc.	Spike Qty.	Result	Spike % Rec.	Control Limits	RPD	RPD Limits	RL

QC Batch: 0903090 (Continued) 5030B Aqueous Purge & Trap/USEPA-8260B

Laboratory Control Sample (Continued) Analyzed: 03/17/2009 By: JDM

Unit: ug/L Analytical Batch: 9031730

Chlorobenzene	40.0	**37.9**	95	88-114		1.0
1,1-Dichloroethene	40.0	**38.4**	96	81-125		1.0
Toluene	40.0	**37.7**	94	87-123		1.0
Trichloroethene	40.0	**37.3**	93	80-122		1.0
Surrogates:						
Dibromofluoromethane			*103*	*88-115*		
1,2-Dichloroethane-d4			*102*	*81-116*		
Toluene-d8			*100*	*87-113*		
4-Bromofluorobenzene			*101*	*78-116*		

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STATEMENT OF DATA QUALIFICATIONS

All analyses have been validated and comply with our Quality Control Program.
No Qualifications required.

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TriMatrix Laboratories, Inc.
5560 Corporate Exchange Court SE Grand Rapids, MI 49512
Phone (616) 975-4500 Fax (616) 942-7463
www.trimatrixlabs.com

Chain of Custody Record

COC No. 128128

Page ____ of ____

For Lab Use Only

Cart: —

VOA Rack/Tray: 405 Red

Receipt Log No.: 19-2

Project Chemist: M

Laboratory Project No.: 0903257

Client Name: RMT, Inc

Address: Ranchero Dr
Ann Arbor, MI

Phone: 734-971-7080

Fax: 734-971-9022

Project Name: Tecumseh Products

Client Project No./P.O. No.: 8070.02

Invoice No. ☐ Client ☐ Other (comments)

Contact/Report To: John Bacon

Analyses Requested

D

VOCs

Container Type (corresponds to Container Packing List)

P

Number of Containers Submitted

PRESERVATIVES
A NONE pH~7
B HNO_3 pH<2
C H_2SO_4 pH<2
D 1+1 HCl pH<2
E NaOH pH>12
F ZnAc/NaOH pH>9
G MeOH
H Other (note below)

Test Group	Matrix Code	Laboratory Sample Number		Sample ID	Cooler ID	Sample Date	Sample Time	COMP	GRAB	Matrix	P	Total	Sample Comments
01		01	1	B-7 (44'-48')	1539	3-16-09	1102		X	GW	2	2	
		02	2	MW-7S	1539	3-16-09	1758		X	GW	2	2	
		03	3	MW-8S	1539	3-16-09	1824		X	GW	2	2	
		04	4	MW-9S	1539	3-16-09	1914		X	GW	2	2	
		05	5	MW-6S	1539	3-16-09	1943		X	GW	2	2	
03		06	6	TB-04	1539	3-16-09	0925				1	1	
			7										
			8										
			9										
			10										

Sampled By (print): Scot Middlebrook

Sampler's Signature: Scot Middlebrook

Company: RMT, Inc

How Shipped? (Hand) Carrier: _____

Tracking No.:

Comments: VOC's by 8260B

24hr. turnaround

1. Relinquished By	Date	Time
Scot Middlebrook	3-17-09	0839

1. Received By	Date	Time

2. Relinquished By	Date	Time

2. Received By	Date	Time

3. Relinquished By	Date	Time

3. Received For Lab By	Date	Time
	3-17-09	0839

Drop

ECCS Onsite Laboratory Case Narrative

Report Date	May 4, 2009
Client	RMT – Ann Arbor Office
Site/ Project Name	Tecumseh Products Company
Location	Tecumseh, MI
Dates of Service	April 13 through April 21, 2009
Test Method Reference	EPA SW846 8260
ECCS Project Number	2477
Client Project or PO Number	8070.02

1. Introduction

ECCS was on-site at the referenced site to provide analytical chemistry support during site investigation activities. The target analytes for the project included the attached list, with all but 1,4 dioxane analyzed for all samples. The laboratory analyzed 29 soil samples and 95 water samples while on site. Of these, 17 soils and 44 water samples were analyzed for 1,4-dioxane. Since all samples were prepared / analyzed upon receipt by the laboratory, all method holding times were met. The ECCS Lead Chemist was Eric Moen and the ECCS project manager was Nick Nigro.

2. ECCS Method Summary

- ECCS used its Standard Operating Procedures (SOP) ECCS LAM-004 8260PT for the volatile organic compounds (VOCs) and LAM-010 8260 DI SIM for 1,4-dioxane.
- Soil samples were each collected by RMT using Lock-N-Load syringes and a specimen cup (total solids analysis). Water samples were collected by RMT in unpreserved 40-milliliter (mL) VOC vials.
- ECCS received all soil samples in the field lab and prepared/analyzed them within 48 hours of receipt.
- Soil samples were extruded from the Lock-n-Load syringe into tarred scintillation vials and the soil sample weights recorded. Ten milliliters of methanol was added to the soil sample. The soil sample was then vortexed to break up any clumps and sonicated for 20 minutes. After time for settling, 1 milliliter of soil extract was transferred to a GC vial for the purpose of screening for high levels of volatiles and quantitatively determining 1,4-dioxane, if requested. Water samples were also screened and analyzed for 1,4-dioxane if requested. Screening of waters and soil extracts were carried out using a HP 5890/5972 GC/MS system equipped with a CTC autosampler.

- Quantitative analysis of water and soil was accomplished with a HP 5890/5971 GC/MS system coupled to two Tekmar LSC-2000 purge and trap concentrators. Water samples were prepared for purge and trap GC/MS analysis by measuring a portion of the sample into a 10 mL syringe, spiking with an internal surrogate standard solution, and loading it onto the Tekmar purge and trap for analysis. Soils were analyzed by diluting a portion of the soil extract with lab pure water in the 10 mL syringe.
- Soil samples are reported to 25 µg/kg (on a wet weight basis) for most of the constituents of concern. Note that sample weight, dilution, and percent moisture effect reporting limits when reported on a dry weight basis. Water samples are reported to 1 µg/L for most analytes of concern. For both matrices, elevated report limits are used for chloroethane and naphthalene because of poor instrument response. Note that individual sample report limits also may vary due to dilutions required to bring analytes within the calibration range of the system.
- Standard QC samples were analyzed in accordance with the referenced SOP and as described in Section 4 of this narrative."

3. Quality Control Summary

Instrument Tuning	Instrument tuning was verified every twelve hours using 4-bromofluoro benzene. All acceptance criteria were met.
Initial Calibration	An initial calibration using 7 points was performed on 04/09/09 for the VOCs and 7 points for 1,4-dioxane. The calibration was verified using a single point second source standard. All method calibration criteria were acceptable.
Continuing Calibration	The instrument calibration was verified every 12 hours using a single point calibration standard. The method criteria was acceptable for all of the constituents of concern at the site, except for vinyl chloride, which were noted (and flagged)
Method Blanks	The method blanks that were analyzed each day were free of contamination.
Blank Spikes	The recoveries for the constituents of concern were acceptable.
MS/MSD	The recoveries for the constituents of concern were acceptable.

4. Analytical Reports

Several sample results are reported from a dilution, and are subsequently flagged as such in the attached reports. A small number of samples exhibited QC performance issues and are also subsequently flagged with the appropriate qualifiers.

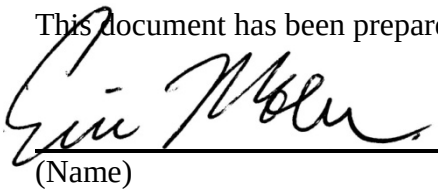
The analytical results are presented in summary format in the attachments that follow:

- Attachment A – STW Sample Report
- Attachment B – MW Sample Report
- Attachment C – NS/SS Sample Report
- Attachment D – B Sample Report

Attachment E contains Chain of Custody Documentation.

5. Signature Approval

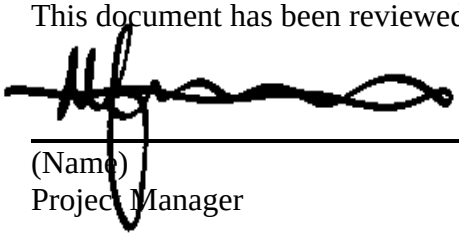
This document has been prepared by the under-signed:



5-04-2009

(Name) Date
Lead Chemist

This document has been reviewed by the under-signed:



5-04-2009

(Name) Date
Project Manager

Attachment A
STW Sample Report

Environmental Chemistry Consulting Services, Inc.

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SUMMARY REPORT

RMT, Inc
3754 Ranchero Drive
Ann Arbor, MI 48108

SAMPLED: 04/13/2009
RECEIVED: 04/13/2009

Project: Tecumseh Products Company
Project Number: [none]
Project Manager: Stacy Metz
REPORTED: 05/01/2009 10:50

LAB #		T091601-04	T091601-05	T091601-06	T091601-07	T091601-08	T091601-09
MATRIX	Minimum	Water	Water	Water	Water	Water	Water
SAMPLE ID	Reporting Limit	STW #1	STW #2	STW #3	STW #4	STW #5	STW #6
Volatile Organic Compounds by EPA Method 8260B (Water)							
Benzene	1.0 ug/L	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
n-Butyl Benzene	1.0 ug/L	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Chloroethane	5.0 ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Chloroform	1.0 ug/L	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1-Dichloroethane	1.0 ug/L	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2-Dichloroethane	1.0 ug/L	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
trans-1,2-Dichloroethene	1.0 ug/L	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
cis-1,2-Dichloroethene	1.0 ug/L	<1.0	<1.0	<1.0	<1.0	1.6	<1.0
1,1-Dichloroethene	1.0 ug/L	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Ethylbenzene	1.0 ug/L	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Naphthalene	5.0 ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
n-Propyl Benzene	1.0 ug/L	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Tetrachloroethene	1.0 ug/L	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Toluene	1.0 ug/L	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1,1-Trichloroethane	1.0 ug/L	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1,2-Trichloroethane	1.0 ug/L	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Trichloroethene	1.0 ug/L	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,3,5-Trimethylbenzene	1.0 ug/L	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2,4-Trimethylbenzene	1.0 ug/L	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Vinyl chloride	1.0 ug/L	<1.0 [1]	23 [1]	<1.0	<1.0	<1.0	<1.0
m,p-Xylene	1.0 ug/L	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
o-Xylene	1.0 ug/L	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Dibromofluoromethane	140 [surr]	109%	99.9%	112%	107%	113%	102%
Toluene-d8	140 [surr]	102%	94.4%	104%	95.3%	101%	94.6%

ECCS

Nick Nigro For Eric Moen
Chemist

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

2525 Advance Road
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SUMMARY REPORT

RMT, Inc		Project:	Tecumseh Products Company
3754 Ranchero Drive		Project Number:	[none]
Ann Arbor, MI 48108		Project Manager:	Stacy Metz
SAMPLED:	04/13/2009	**REPORTED:**	05/01/2009 10:50
RECEIVED:	04/13/2009		

LAB #		T091601-04	T091601-05	T091601-06	T091601-07	T091601-08	T091601-09
MATRIX	Minimum	Water	Water	Water	Water	Water	Water
SAMPLE ID	Reporting Limit	STW #1	STW #2	STW #3	STW #4	STW #5	STW #6
Volatile Organic Compounds by EPA Method 8260B (continued)							
4-Bromofluorobenzene	140 [surr]	103%	92.5%	101%	93.9%	102%	91.8%

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Chemist

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SUMMARY REPORT

RMT, Inc
3754 Ranchero Drive
Ann Arbor, MI 48108

SAMPLED: 04/13/2009
RECEIVED: 04/13/2009

Project: Tecumseh Products Company
Project Number: [none]
Project Manager: Stacy Metz
REPORTED: 05/01/2009 10:50

LAB #		T091601-10	T091601-13	-	-	-	-
MATRIX	Minimum	Water	Water	-	-	-	-
SAMPLE ID	Reporting Limit	STW #7	STW 8	-	-	-	-
Volatile Organic Compounds by EPA Method 8260B (Water)							
1,4-Dioxane	25 ug/L	<25 [2]	<25 [2]	-	-	-	-
Benzene	1.0 ug/L	<1.0	<1.0	-	-	-	-
n-Butyl Benzene	1.0 ug/L	<1.0	<1.0	-	-	-	-
Chloroethane	5.0 ug/L	<5.0	<5.0	-	-	-	-
Chloroform	1.0 ug/L	<1.0	<1.0	-	-	-	-
1,1-Dichloroethane	1.0 ug/L	<1.0	<1.0	-	-	-	-
1,2-Dichloroethane	1.0 ug/L	<1.0	<1.0	-	-	-	-
trans-1,2-Dichloroethene	1.0 ug/L	<1.0	<1.0	-	-	-	-
cis-1,2-Dichloroethene	1.0 ug/L	<1.0	<1.0	-	-	-	-
1,1-Dichloroethene	1.0 ug/L	<1.0	<1.0	-	-	-	-
Ethylbenzene	1.0 ug/L	<1.0	<1.0	-	-	-	-
Naphthalene	5.0 ug/L	<5.0	<5.0	-	-	-	-
n-Propyl Benzene	1.0 ug/L	<1.0	<1.0	-	-	-	-
Tetrachloroethene	1.0 ug/L	<1.0	<1.0	-	-	-	-
Toluene	1.0 ug/L	<1.0	<1.0	-	-	-	-
1,1,1-Trichloroethane	1.0 ug/L	<1.0	<1.0	-	-	-	-
1,1,2-Trichloroethane	1.0 ug/L	<1.0	<1.0	-	-	-	-
Trichloroethene	1.0 ug/L	2.7	<1.0	-	-	-	-
1,3,5-Trimethylbenzene	1.0 ug/L	<1.0	<1.0	-	-	-	-
1,2,4-Trimethylbenzene	1.0 ug/L	<1.0	<1.0	-	-	-	-
Vinyl chloride	1.0 ug/L	<1.0	<1.0	-	-	-	-
m,p-Xylene	1.0 ug/L	<1.0	<1.0	-	-	-	-
o-Xylene	1.0 ug/L	<1.0	<1.0	-	-	-	-
Dibromofluoromethane	140 [surr]	114%	102%	-	-	-	-

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Nick Nigro For Eric Moen
Chemist

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SUMMARY REPORT

RMT, Inc		Project:	Tecumseh Products Company
3754 Ranchero Drive		Project Number:	[none]
Ann Arbor, MI 48108		Project Manager:	Stacy Metz
SAMPLED:	04/13/2009	**REPORTED:**	05/01/2009 10:50
RECEIVED:	04/13/2009		

LAB #		T091601-10	T091601-13	-	-	-	-
MATRIX	Minimum	Water	Water	-	-	-	-
SAMPLE ID	Reporting Limit	STW #7	STW 8	-	-	-	-
Volatile Organic Compounds by EPA Method 8260B (continued)							
Toluene-d8	140 [surr]	102%	92.4%	-	-	-	-
4-Bromofluorobenzene	140 [surr]	103%	93.0%	-	-	-	-

Special Notes

1 = Results may be biased high because of high continuing calibration verification (CCV).

2 = Analyte included in the analysis, but not detected

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Nick Nigro For Eric Moen
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Attachment B
MW Sample Report

Environmental Chemistry Consulting Services, Inc.

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SUMMARY REPORT

RMT, Inc
3754 Ranchero Drive
Ann Arbor, MI 48108

SAMPLED: 04/20/2009
RECEIVED: 04/20/2009

Project: Tecumseh Products Company
Project Number: [none]
Project Manager: Stacy Metz
REPORTED: 04/30/2009 23:39

LAB #		T091701-09	T091701-10	T091701-11	T091701-12	T091701-13	T091701-14
MATRIX	Minimum	Water	Water	Water	Water	Water	Water
SAMPLE ID	Reporting Limit	MW-1S	MW-3S	MW-4S	MW-5S	MW-8S	MW-9S
Volatile Organic Compounds by EPA Method 8260B (Water)							
1,4-Dioxane	25 ug/L	<25 [2]	-	-	<25 [2]	-	<25 [2]
Benzene	1.0 ug/L	<100	<10	<100	<5.0	<1.0	<100
n-Butyl Benzene	1.0 ug/L	<100	<10	<100	<5.0	<1.0	<100
Chloroethane	5.0 ug/L	<500	<50	<500	<25	<5.0	<500
Chloroform	1.0 ug/L	<100	<10	<100	<5.0	<1.0	<100
1,1-Dichloroethane	1.0 ug/L	<100	18 [1]	<100	<5.0	<1.0	<100
1,2-Dichloroethane	1.0 ug/L	<100	<10	<100	<5.0	<1.0	<100
trans-1,2-Dichloroethene	1.0 ug/L	<100	18 [1]	<100	<5.0	<1.0	<100
cis-1,2-Dichloroethene	1.0 ug/L	<100	490 [1]	1700 [1]	<5.0	<1.0	<100
1,1-Dichloroethene	1.0 ug/L	<100	<10	<100	<5.0	<1.0	<100
Ethylbenzene	1.0 ug/L	<100	<10	<100	<5.0	<1.0	<100
Naphthalene	5.0 ug/L	<500	<50	<500	<25	<5.0	<500
n-Propyl Benzene	1.0 ug/L	<100	<10	<100	<5.0	<1.0	<100
Tetrachloroethene	1.0 ug/L	<100	<10	<100	<5.0	<1.0	<100
Toluene	1.0 ug/L	<100	<10	<100	<5.0	<1.0	<100
1,1,1-Trichloroethane	1.0 ug/L	1100 [1]	<10	<100	<5.0	<1.0	220 [1]
1,1,2-Trichloroethane	1.0 ug/L	<100	<10	<100	<5.0	<1.0	<100
Trichloroethene	1.0 ug/L	2200 [1]	<10	4000 [1]	140 [1]	10	2100 [1]
1,3,5-Trimethylbenzene	1.0 ug/L	<100	<10	<100	<5.0	<1.0	<100
1,2,4-Trimethylbenzene	1.0 ug/L	<100	<10	<100	<5.0	<1.0	<100
Vinyl chloride	1.0 ug/L	<100	210 [1]	520 [1]	<5.0	<1.0	<100
m,p-Xylene	1.0 ug/L	<100	<10	<100	<5.0	<1.0	<100
o-Xylene	1.0 ug/L	<100	<10	<100	<5.0	<1.0	<100
Dibromofluoromethane	140 [surr]	120%	123%	119%	117%	126%	125%

ECCS

Nick Nigro For Eric Moen
Chemist

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SUMMARY REPORT

RMT, Inc		Project:	Tecumseh Products Company
3754 Ranchero Drive		Project Number:	[none]
Ann Arbor, MI 48108		Project Manager:	Stacy Metz
SAMPLED:	04/20/2009	**REPORTED:**	04/30/2009 23:39
RECEIVED:	04/20/2009		

LAB #		T091701-09	T091701-10	T091701-11	T091701-12	T091701-13	T091701-14
MATRIX	Minimum	Water	Water	Water	Water	Water	Water
SAMPLE ID	Reporting Limit	MW-1S	MW-3S	MW-4S	MW-5S	MW-8S	MW-9S
Volatile Organic Compounds by EPA Method 8260B (continued)							
Toluene-d8	140 [surr]	90.0%	98.6%	91.1%	90.0%	100%	98.7%
4-Bromofluorobenzene	140 [surr]	88.2%	97.0%	88.5%	89.1%	97.9%	96.9%

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Nick Nigro For Eric Moen
Chemist

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Madison, WI 53718
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SUMMARY REPORT

RMT, Inc
3754 Ranchero Drive
Ann Arbor, MI 48108

SAMPLED: 04/20/2009
RECEIVED: 04/20/2009

Project: Tecumseh Products Company
Project Number: [none]
Project Manager: Stacy Metz
REPORTED: 04/30/2009 23:39

LAB #		T091701-15	T091701-21	T091701-22	T091701-23	-	-
MATRIX	Minimum	Water	Water	Water	Water	-	-
SAMPLE ID	Reporting Limit	Dup-08	MW-02S	MW-06S	MW-07S	-	-
Volatile Organic Compounds by EPA Method 8260B (Water)							
Benzene	1.0 ug/L	<1.0	<10	<1.0	<1.0	-	-
n-Butyl Benzene	1.0 ug/L	<1.0	<10	<1.0	<1.0	-	-
Chloroethane	5.0 ug/L	<5.0	<50	<5.0	<5.0	-	-
Chloroform	1.0 ug/L	<1.0	<10	<1.0	<1.0	-	-
1,1-Dichloroethane	1.0 ug/L	<1.0	<10	<1.0	<1.0	-	-
1,2-Dichloroethane	1.0 ug/L	<1.0	<10	<1.0	<1.0	-	-
trans-1,2-Dichloroethene	1.0 ug/L	<1.0	<10	<1.0	<1.0	-	-
cis-1,2-Dichloroethene	1.0 ug/L	<1.0	<10	<1.0	<1.0	-	-
1,1-Dichloroethene	1.0 ug/L	<1.0	<10	<1.0	<1.0	-	-
Ethylbenzene	1.0 ug/L	<1.0	<10	<1.0	<1.0	-	-
Naphthalene	5.0 ug/L	<5.0	<50	<5.0	<5.0	-	-
n-Propyl Benzene	1.0 ug/L	<1.0	<10	<1.0	<1.0	-	-
Tetrachloroethene	1.0 ug/L	<1.0	<10	<1.0	<1.0	-	-
Toluene	1.0 ug/L	<1.0	<10	<1.0	<1.0	-	-
1,1,1-Trichloroethane	1.0 ug/L	<1.0	<10	<1.0	1.6	-	-
1,1,2-Trichloroethane	1.0 ug/L	<1.0	<10	<1.0	<1.0	-	-
Trichloroethene	1.0 ug/L	10	130 [1]	23	11	-	-
1,3,5-Trimethylbenzene	1.0 ug/L	<1.0	<10	<1.0	<1.0	-	-
1,2,4-Trimethylbenzene	1.0 ug/L	<1.0	<10	<1.0	<1.0	-	-
Vinyl chloride	1.0 ug/L	<1.0	<10	<1.0	<1.0	-	-
m,p-Xylene	1.0 ug/L	<1.0	<10	<1.0	<1.0	-	-
o-Xylene	1.0 ug/L	<1.0	<10	<1.0	<1.0	-	-
Dibromofluoromethane	140 [surr]	115%	117%	107%	116%	-	-
Toluene-d8	140 [surr]	91.7%	101%	94.6%	104%	-	-

ECCS

Nick Nigro For Eric Moen
Chemist

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SUMMARY REPORT

RMT, Inc		Project:	Tecumseh Products Company
3754 Ranchero Drive		Project Number:	[none]
Ann Arbor, MI 48108		Project Manager:	Stacy Metz
SAMPLED:	04/20/2009	**REPORTED:**	04/30/2009 23:39
RECEIVED:	04/20/2009		

LAB #		T091701-15	T091701-21	T091701-22	T091701-23	-	-
MATRIX	Minimum	Water	Water	Water	Water	-	-
SAMPLE ID	Reporting Limit	Dup-08	MW-02S	MW-06S	MW-07S	-	-
Volatile Organic Compounds by EPA Method 8260B (continued)							
4-Bromofluorobenzene	140 [surr]	91.1%	98.2%	90.6%	97.7%	-	-

Special Notes

1 = Data reported from a dilution

2 = Analyte included in the analysis, but not detected

ECCS

Nick Nigro For Eric Moen
Chemist

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Attachment C
NS/SS Sample Report

Environmental Chemistry Consulting Services, Inc.

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SUMMARY REPORT

RMT, Inc		Project:	Tecumseh Products Company
3754 Ranchero Drive		Project Number:	[none]
Ann Arbor, MI 48108		Project Manager:	Stacy Metz
SAMPLED:	04/15/2009 to 04/21/2009	**REPORTED:**	04/30/2009 23:51
RECEIVED:	04/15/2009 to 04/21/2009		

LAB #			T091603-13	T091603-14	T091603-15	T091603-16	T091603-17	T091604-01
MATRIX		Minimum	Water	Water	Water	Soil	Water	Soil
SAMPLE ID		Reporting Limit	NS-3 (37-41')	SS-1 (45-49')	SS-1 (24-28')	SS-1	NS-3 (16-20')	NS-4 (8-12')
Volatile Organic Compounds by EPA Method 8260B (Soil)								
1,4-Dioxane	250	ug/kg dry	-	-	-	<320 [5]	-	-
Benzene	25	ug/kg dry	-	-	-	<32	-	<29
n-Butyl Benzene	25	ug/kg dry	-	-	-	<32	-	<29
Chloroethane	500	ug/kg dry	-	-	-	<640 [3] [6]	-	<570
Chloroform	25	ug/kg dry	-	-	-	<32	-	<29
1,1-Dichloroethane	25	ug/kg dry	-	-	-	<32	-	<29
1,2-Dichloroethane	25	ug/kg dry	-	-	-	<32	-	<29
trans-1,2-Dichloroethene	25	ug/kg dry	-	-	-	<32	-	<29
cis-1,2-Dichloroethene	25	ug/kg dry	-	-	-	<32	-	<29
1,1-Dichloroethene	25	ug/kg dry	-	-	-	<32	-	<29
Ethylbenzene	25	ug/kg dry	-	-	-	<32	-	<29
Naphthalene	250	ug/kg dry	-	-	-	<320	-	<290
n-Propyl Benzene	25	ug/kg dry	-	-	-	<32	-	<29
Tetrachloroethene	25	ug/kg dry	-	-	-	<32	-	<29
Toluene	25	ug/kg dry	-	-	-	<32	-	<29
1,1,1-Trichloroethane	25	ug/kg dry	-	-	-	840	-	<29
1,1,2-Trichloroethane	25	ug/kg dry	-	-	-	<32	-	<29
Trichloroethene	25	ug/kg dry	-	-	-	1900	-	<29
1,3,5-Trimethylbenzene	25	ug/kg dry	-	-	-	<32	-	<29
1,2,4-Trimethylbenzene	25	ug/kg dry	-	-	-	<32	-	<29
Vinyl chloride	25	ug/kg dry	-	-	-	<32	-	<29
m,p-Xylene	50	ug/kg dry	-	-	-	<64	-	<57
o-Xylene	25	ug/kg dry	-	-	-	<32	-	<29
Dibromofluoromethane	140	[surr]	-	-	-	113%	-	114%

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Chemist

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SUMMARY REPORT

RMT, Inc		Project:	Tecumseh Products Company
3754 Ranchero Drive		Project Number:	[none]
Ann Arbor, MI 48108		Project Manager:	Stacy Metz
SAMPLED:	04/15/2009 to 04/21/2009	**REPORTED:**	04/30/2009 23:51
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LAB #		T091603-13	T091603-14	T091603-15	T091603-16	T091603-17	T091604-01
MATRIX	Minimum	Water	Water	Water	Soil	Water	Soil
SAMPLE ID	Reporting Limit	NS-3 (37-41')	SS-1 (45-49')	SS-1 (24-28')	SS-1	NS-3 (16-20')	NS-4 (8-12')
Volatile Organic Compounds by EPA Method 8260B (continued)							
Toluene-d8	140 [surr]	-	-	-	103%	-	103%
4-Bromofluorobenzene	140 [surr]	-	-	-	99.5%	-	103%
Volatile Organic Compounds by EPA Method 8260B (Water)							
1,4-Dioxane	25 ug/L	-	<25 [5]	<25 [5]	-	-	-
Benzene	1.0 ug/L	<1.0	<1.0	<200	-	<4.0	-
n-Butyl Benzene	1.0 ug/L	<1.0	<1.0	<200	-	<4.0	-
Chloroethane	5.0 ug/L	<5.0	<5.0	<1000	-	<20	-
Chloroform	1.0 ug/L	<1.0	<1.0	<200	-	<4.0	-
1,1-Dichloroethane	1.0 ug/L	<1.0	2.5	<200	-	<4.0	-
1,2-Dichloroethane	1.0 ug/L	<1.0	<1.0	<200	-	<4.0	-
trans-1,2-Dichloroethene	1.0 ug/L	<1.0	<1.0	<200	-	<4.0	-
cis-1,2-Dichloroethene	1.0 ug/L	9.8	9.9	<200	-	23 [1]	-
1,1-Dichloroethene	1.0 ug/L	<1.0	<1.0	<200	-	<4.0	-
Ethylbenzene	1.0 ug/L	<1.0	<1.0	<200	-	<4.0	-
Naphthalene	5.0 ug/L	<5.0	<5.0	<1000	-	<20	-
n-Propyl Benzene	1.0 ug/L	<1.0	<1.0	<200	-	<4.0	-
Tetrachloroethene	1.0 ug/L	<1.0	<1.0	<200	-	<4.0	-
Toluene	1.0 ug/L	<1.0	<1.0	<200	-	<4.0	-
1,1,1-Trichloroethane	1.0 ug/L	<1.0	2.7	1500 [1]	-	<4.0	-
1,1,2-Trichloroethane	1.0 ug/L	<1.0	<1.0	<200	-	<4.0	-
Trichloroethene	1.0 ug/L	19	5.8	1500 [1]	-	45 [1]	-
1,3,5-Trimethylbenzene	1.0 ug/L	<1.0	<1.0	<200	-	<4.0	-
1,2,4-Trimethylbenzene	1.0 ug/L	<1.0	<1.0	<200	-	<4.0	-
Vinyl chloride	1.0 ug/L	480 [1] [2]	<1.0	<200	-	41 [1] [2]	-

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SUMMARY REPORT

RMT, Inc
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SAMPLED: 04/15/2009 to 04/21/2009
RECEIVED: 04/15/2009 to 04/21/2009

Project: Tecumseh Products Company
Project Number: [none]
Project Manager: Stacy Metz
REPORTED: 04/30/2009 23:51

LAB #		T091603-13	T091603-14	T091603-15	T091603-16	T091603-17	T091604-01
MATRIX	Minimum	Water	Water	Water	Soil	Water	Soil
SAMPLE ID	Reporting Limit	NS-3 (37-41')	SS-1 (45-49')	SS-1 (24-28')	SS-1	NS-3 (16-20')	NS-4 (8-12')
Volatile Organic Compounds by EPA Method 8260B (continued)							
m,p-Xylene	1.0 ug/L	<1.0	<1.0	<200	-	<4.0	-
o-Xylene	1.0 ug/L	<1.0	<1.0	<200	-	<4.0	-
Dibromofluoromethane	140 [surr]	113%	106%	111%	-	101%	-
Toluene-d8	140 [surr]	103%	93.8%	101%	-	94.6%	-
4-Bromofluorobenzene	140 [surr]	98.8%	92.0%	100%	-	90.5%	-
Classical Chemistry Parameters (Soil)							
% Solids	0.00 % by Weight	-	-	-	95.5	-	93.5

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RMT, Inc		Project:	Tecumseh Products Company
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SAMPLED:	04/15/2009 to 04/21/2009	**REPORTED:**	04/30/2009 23:51
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LAB #		T091604-02	T091604-03	T091604-09	T091604-10	T091604-11	T091604-12
MATRIX	Minimum	Water	Water	Soil	Soil	Soil	Water
SAMPLE ID	Reporting Limit	NS-4 (32-36')	NS-4 (14-18')	SS-2 (8-12')	SS-2 (16-20')	Dup-01	SS-2 (42-46')
Volatile Organic Compounds by EPA Method 8260B (Soil)							
1,4-Dioxane	250 ug/kg dry	-	-	<290 [5]	<290 [5]	<320 [5]	-
Benzene	25 ug/kg dry	-	-	<29	<29	<32	-
n-Butyl Benzene	25 ug/kg dry	-	-	<29	<29	<32	-
Chloroethane	500 ug/kg dry	-	-	<580	<590	<640	-
Chloroform	25 ug/kg dry	-	-	<29	<29	<32	-
1,1-Dichloroethane	25 ug/kg dry	-	-	<29	<29	<32	-
1,2-Dichloroethane	25 ug/kg dry	-	-	<29	<29	<32	-
trans-1,2-Dichloroethene	25 ug/kg dry	-	-	<29	<29	<32	-
cis-1,2-Dichloroethene	25 ug/kg dry	-	-	<29	<29	<32	-
1,1-Dichloroethene	25 ug/kg dry	-	-	<29	<29	<32	-
Ethylbenzene	25 ug/kg dry	-	-	<29	<29	<32	-
Naphthalene	250 ug/kg dry	-	-	<290	<290	<320	-
n-Propyl Benzene	25 ug/kg dry	-	-	<29	<29	<32	-
Tetrachloroethene	25 ug/kg dry	-	-	69	110	160	-
Toluene	25 ug/kg dry	-	-	<29	<29	<32	-
1,1,1-Trichloroethane	25 ug/kg dry	-	-	810	1300	1900	-
1,1,2-Trichloroethane	25 ug/kg dry	-	-	<29	<29	<32	-
Trichloroethene	25 ug/kg dry	-	-	970	1500	2300	-
1,3,5-Trimethylbenzene	25 ug/kg dry	-	-	<29	<29	<32	-
1,2,4-Trimethylbenzene	25 ug/kg dry	-	-	<29	<29	<32	-
Vinyl chloride	25 ug/kg dry	-	-	<29	<29	<32	-
m,p-Xylene	50 ug/kg dry	-	-	<58	<59	<64	-
o-Xylene	25 ug/kg dry	-	-	<29	<29	<32	-
Dibromofluoromethane	140 [surr]	-	-	105%	114%	103%	-

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SUMMARY REPORT

RMT, Inc		Project:	Tecumseh Products Company
3754 Ranchero Drive		Project Number:	[none]
Ann Arbor, MI 48108		Project Manager:	Stacy Metz
SAMPLED:	04/15/2009 to 04/21/2009	**REPORTED:**	04/30/2009 23:51
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LAB #		T091604-02	T091604-03	T091604-09	T091604-10	T091604-11	T091604-12
MATRIX	Minimum	Water	Water	Soil	Soil	Soil	Water
SAMPLE ID	Reporting Limit	NS-4 (32-36')	NS-4 (14-18')	SS-2 (8-12')	SS-2 (16-20')	Dup-01	SS-2 (42-46')
Volatile Organic Compounds by EPA Method 8260B (continued)							
Toluene-d8	140 [surr]	-	-	95.5%	103%	93.6%	-
4-Bromofluorobenzene	140 [surr]	-	-	90.8%	100%	89.4%	-
Volatile Organic Compounds by EPA Method 8260B (Water)							
1,4-Dioxane	25 ug/L	-	-	-	-	-	<25 [5]
Benzene	1.0 ug/L	<1.0	<1.0	-	-	-	<1.0
n-Butyl Benzene	1.0 ug/L	<1.0	<1.0	-	-	-	<1.0
Chloroethane	5.0 ug/L	<5.0	<5.0	-	-	-	<5.0
Chloroform	1.0 ug/L	<1.0	<1.0	-	-	-	<1.0
1,1-Dichloroethane	1.0 ug/L	<1.0	1.4	-	-	-	<1.0
1,2-Dichloroethane	1.0 ug/L	<1.0	<1.0	-	-	-	<1.0
trans-1,2-Dichloroethene	1.0 ug/L	<1.0	1.0	-	-	-	<1.0
cis-1,2-Dichloroethene	1.0 ug/L	5.9	11	-	-	-	<1.0
1,1-Dichloroethene	1.0 ug/L	<1.0	<1.0	-	-	-	<1.0
Ethylbenzene	1.0 ug/L	<1.0	<1.0	-	-	-	<1.0
Naphthalene	5.0 ug/L	<5.0	<5.0	-	-	-	<5.0
n-Propyl Benzene	1.0 ug/L	<1.0	<1.0	-	-	-	<1.0
Tetrachloroethene	1.0 ug/L	<1.0	<1.0	-	-	-	<1.0
Toluene	1.0 ug/L	<1.0	<1.0	-	-	-	<1.0
1,1,1-Trichloroethane	1.0 ug/L	<1.0	<1.0	-	-	-	4.5
1,1,2-Trichloroethane	1.0 ug/L	<1.0	<1.0	-	-	-	<1.0
Trichloroethene	1.0 ug/L	<1.0	<1.0	-	-	-	5.3
1,3,5-Trimethylbenzene	1.0 ug/L	<1.0	<1.0	-	-	-	<1.0
1,2,4-Trimethylbenzene	1.0 ug/L	<1.0	<1.0	-	-	-	<1.0
Vinyl chloride	1.0 ug/L	<1.0	<1.0	-	-	-	<1.0

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Project: Tecumseh Products Company
Project Number: [none]
Project Manager: Stacy Metz
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LAB #		T091604-02	T091604-03	T091604-09	T091604-10	T091604-11	T091604-12
MATRIX	Minimum	Water	Water	Soil	Soil	Soil	Water
SAMPLE ID	Reporting Limit	NS-4 (32-36')	NS-4 (14-18')	SS-2 (8-12')	SS-2 (16-20')	Dup-01	SS-2 (42-46')
Volatile Organic Compounds by EPA Method 8260B (continued)							
m,p-Xylene	1.0 ug/L	<1.0	<1.0	-	-	-	<1.0
o-Xylene	1.0 ug/L	<1.0	<1.0	-	-	-	<1.0
Dibromofluoromethane	140 [surr]	105%	115%	-	-	-	105%
Toluene-d8	140 [surr]	98.5%	104%	-	-	-	94.7%
4-Bromofluorobenzene	140 [surr]	92.7%	102%	-	-	-	91.4%
Classical Chemistry Parameters (Soil)							
% Solids	0.00 % by Weight	-	-	98.6	98.1	98.3	-

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Project: Tecumseh Products Company
Project Number: [none]
Project Manager: Stacy Metz

SAMPLED: 04/15/2009 to 04/21/2009
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LAB #		T091604-13	T091604-16	T091604-17	T091604-18	T091604-20	T091604-21
MATRIX	Minimum	Water	Soil	Soil	Water	Soil	Soil
SAMPLE ID	Reporting Limit	SS-2 (20-24')	SS-3 (8-12')	SS-3 (16-20')	SS-3 (20-24')	NS-2 (0-4')	NS-2 (8-12')
Volatile Organic Compounds by EPA Method 8260B (Soil)							
1,4-Dioxane	250 ug/kg dry	-	<300 [5]	<350 [5]	-	-	-
Benzene	25 ug/kg dry	-	<30	<35	-	<27	<27
n-Butyl Benzene	25 ug/kg dry	-	<30	<35	-	<27	<27
Chloroethane	500 ug/kg dry	-	<610	<700	-	<530	<540
Chloroform	25 ug/kg dry	-	<30	<35	-	<27	<27
1,1-Dichloroethane	25 ug/kg dry	-	<30	<35	-	<27	<27
1,2-Dichloroethane	25 ug/kg dry	-	<30	<35	-	<27	<27
trans-1,2-Dichloroethene	25 ug/kg dry	-	<30	<35	-	<27	<27
cis-1,2-Dichloroethene	25 ug/kg dry	-	<30	<35	-	<27	<27
1,1-Dichloroethene	25 ug/kg dry	-	<30	<35	-	<27	<27
Ethylbenzene	25 ug/kg dry	-	<30	<35	-	<27	<27
Naphthalene	250 ug/kg dry	-	<300	<350	-	<270	<270
n-Propyl Benzene	25 ug/kg dry	-	<30	<35	-	<27	<27
Tetrachloroethene	25 ug/kg dry	-	1100	3900 [1]	-	<27	<27
Toluene	25 ug/kg dry	-	<30	<35	-	<27	<27
1,1,1-Trichloroethane	25 ug/kg dry	-	1200	3500 [1]	-	<27	<27
1,1,2-Trichloroethane	25 ug/kg dry	-	<30	<35	-	<27	<27
Trichloroethene	25 ug/kg dry	-	900	2800	-	350	750
1,3,5-Trimethylbenzene	25 ug/kg dry	-	<30	<35	-	<27	<27
1,2,4-Trimethylbenzene	25 ug/kg dry	-	<30	<35	-	<27	<27
Vinyl chloride	25 ug/kg dry	-	<30	<35	-	<27	<27
m,p-Xylene	50 ug/kg dry	-	<61	<70	-	<53	<54
o-Xylene	25 ug/kg dry	-	<30	<35	-	<27	<27
Dibromofluoromethane	140 [surr]	-	107%	116%	-	112%	106%

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SUMMARY REPORT

RMT, Inc
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SAMPLED: 04/15/2009 to 04/21/2009
RECEIVED: 04/15/2009 to 04/21/2009

Project: Tecumseh Products Company
Project Number: [none]
Project Manager: Stacy Metz
REPORTED: 04/30/2009 23:51

LAB #		T091604-13	T091604-16	T091604-17	T091604-18	T091604-20	T091604-21
MATRIX	Minimum	Water	Soil	Soil	Water	Soil	Soil
SAMPLE ID	Reporting Limit	SS-2 (20-24')	SS-3 (8-12')	SS-3 (16-20')	SS-3 (20-24')	NS-2 (0-4')	NS-2 (8-12')
Volatile Organic Compounds by EPA Method 8260B (continued)							
Toluene-d8	140 [surr]	-	94.0%	104%	-	105%	96.2%
4-Bromofluorobenzene	140 [surr]	-	88.6%	101%	-	101%	93.1%
Volatile Organic Compounds by EPA Method 8260B (Water)							
1,4-Dioxane	25 ug/L	<25 [5]	-	-	<25 [5]	-	-
Benzene	1.0 ug/L	<100	-	-	<50	-	-
n-Butyl Benzene	1.0 ug/L	<100	-	-	<50	-	-
Chloroethane	5.0 ug/L	<500	-	-	<250	-	-
Chloroform	1.0 ug/L	<100	-	-	<50	-	-
1,1-Dichloroethane	1.0 ug/L	<100	-	-	<50	-	-
1,2-Dichloroethane	1.0 ug/L	<100	-	-	<50	-	-
trans-1,2-Dichloroethene	1.0 ug/L	<100	-	-	<50	-	-
cis-1,2-Dichloroethene	1.0 ug/L	<100	-	-	<50	-	-
1,1-Dichloroethene	1.0 ug/L	<100	-	-	<50	-	-
Ethylbenzene	1.0 ug/L	<100	-	-	<50	-	-
Naphthalene	5.0 ug/L	<500	-	-	<250	-	-
n-Propyl Benzene	1.0 ug/L	<100	-	-	<50	-	-
Tetrachloroethene	1.0 ug/L	<100	-	-	120 [1]	-	-
Toluene	1.0 ug/L	<100	-	-	<50	-	-
1,1,1-Trichloroethane	1.0 ug/L	2200 [1]	-	-	600 [1]	-	-
1,1,2-Trichloroethane	1.0 ug/L	<100	-	-	<50	-	-
Trichloroethene	1.0 ug/L	1000 [1]	-	-	430 [1]	-	-
1,3,5-Trimethylbenzene	1.0 ug/L	<100	-	-	<50	-	-
1,2,4-Trimethylbenzene	1.0 ug/L	<100	-	-	<50	-	-
Vinyl chloride	1.0 ug/L	<100	-	-	<50	-	-

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SAMPLED: 04/15/2009 to 04/21/2009
RECEIVED: 04/15/2009 to 04/21/2009

Project: Tecumseh Products Company
Project Number: [none]
Project Manager: Stacy Metz
REPORTED: 04/30/2009 23:51

LAB #		T091604-13	T091604-16	T091604-17	T091604-18	T091604-20	T091604-21
MATRIX	Minimum	Water	Soil	Soil	Water	Soil	Soil
SAMPLE ID	Reporting Limit	SS-2 (20-24')	SS-3 (8-12')	SS-3 (16-20')	SS-3 (20-24')	NS-2 (0-4')	NS-2 (8-12')
Volatile Organic Compounds by EPA Method 8260B (continued)							
m,p-Xylene	1.0 ug/L	<100	-	-	<50	-	-
o-Xylene	1.0 ug/L	<100	-	-	<50	-	-
Dibromofluoromethane	140 [surr]	106%	-	-	117%	-	-
Toluene-d8	140 [surr]	94.8%	-	-	102%	-	-
4-Bromofluorobenzene	140 [surr]	89.7%	-	-	98.3%	-	-
Classical Chemistry Parameters (Soil)							
% Solids	0.00 % by Weight	-	97.4	97.6	-	97.7	96.9

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SUMMARY REPORT

RMT, Inc		Project:	Tecumseh Products Company
3754 Ranchero Drive		Project Number:	[none]
Ann Arbor, MI 48108		Project Manager:	Stacy Metz
SAMPLED:	04/15/2009 to 04/21/2009	**REPORTED:**	04/30/2009 23:51
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LAB #			T091605-01	T091605-03	T091605-04	T091605-05	T091605-09	T091605-10
MATRIX		Minimum	Water	Water	Soil	Soil	Water	Soil
SAMPLE ID		Reporting Limit	NS-2 (20-24')	NS-1 (20-24')	NS-1 (0-4')	NS-1 (16-20')	SS-4 (22-24')	SS-4 (12-16')
Volatile Organic Compounds by EPA Method 8260B (Soil)								
1,4-Dioxane	250	ug/kg dry	-	-	<390 [5]	<250 [5]	-	<300 [5]
Benzene	25	ug/kg dry	-	-	<39	<25	-	<30
n-Butyl Benzene	25	ug/kg dry	-	-	<39	<25	-	<30
Chloroethane	500	ug/kg dry	-	-	<780	<500	-	<600
Chloroform	25	ug/kg dry	-	-	<39	<25	-	<30
1,1-Dichloroethane	25	ug/kg dry	-	-	<39	<25	-	<30
1,2-Dichloroethane	25	ug/kg dry	-	-	<39	<25	-	<30
trans-1,2-Dichloroethene	25	ug/kg dry	-	-	<39	<25	-	<30
cis-1,2-Dichloroethene	25	ug/kg dry	-	-	<39	<25	-	<30
1,1-Dichloroethene	25	ug/kg dry	-	-	<39	<25	-	<30
Ethylbenzene	25	ug/kg dry	-	-	<39	<25	-	<30
Naphthalene	250	ug/kg dry	-	-	480	<250	-	<300
n-Propyl Benzene	25	ug/kg dry	-	-	<39	<25	-	<30
Tetrachloroethene	25	ug/kg dry	-	-	<39	<25	-	230
Toluene	25	ug/kg dry	-	-	<39	<25	-	<30
1,1,1-Trichloroethane	25	ug/kg dry	-	-	<39	<25	-	3500 [1]
1,1,2-Trichloroethane	25	ug/kg dry	-	-	<39	<25	-	<30
Trichloroethene	25	ug/kg dry	-	-	1900	510	-	1800
1,3,5-Trimethylbenzene	25	ug/kg dry	-	-	<39	<25	-	<30
1,2,4-Trimethylbenzene	25	ug/kg dry	-	-	<39	<25	-	<30
Vinyl chloride	25	ug/kg dry	-	-	<39	<25	-	<30
m,p-Xylene	50	ug/kg dry	-	-	<78	<50	-	<60
o-Xylene	25	ug/kg dry	-	-	<39	<25	-	<30
Dibromofluoromethane	140	[surr]	-	-	112%	105%	-	105%

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SUMMARY REPORT

RMT, Inc		Project:	Tecumseh Products Company
3754 Ranchero Drive		Project Number:	[none]
Ann Arbor, MI 48108		Project Manager:	Stacy Metz
SAMPLED:	04/15/2009 to 04/21/2009	**REPORTED:**	04/30/2009 23:51
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LAB #		T091605-01	T091605-03	T091605-04	T091605-05	T091605-09	T091605-10
MATRIX	Minimum	Water	Water	Soil	Soil	Water	Soil
SAMPLE ID	Reporting Limit	NS-2 (20-24')	NS-1 (20-24')	NS-1 (0-4')	NS-1 (16-20')	SS-4 (22-24')	SS-4 (12-16')
Volatile Organic Compounds by EPA Method 8260B (continued)							
Toluene-d8	140 [surr]	-	-	104%	96.4%	-	97.0%
4-Bromofluorobenzene	140 [surr]	-	-	100%	94.0%	-	91.8%
Volatile Organic Compounds by EPA Method 8260B (Water)							
1,4-Dioxane	25 ug/L	-	-	-	-	<25 [5]	-
Benzene	1.0 ug/L	<50	<20	-	-	<100	-
n-Butyl Benzene	1.0 ug/L	<50	<20	-	-	<100	-
Chloroethane	5.0 ug/L	<250	<100	-	-	<500	-
Chloroform	1.0 ug/L	<50	<20	-	-	<100	-
1,1-Dichloroethane	1.0 ug/L	<50	<20	-	-	<100	-
1,2-Dichloroethane	1.0 ug/L	<50	<20	-	-	<100	-
trans-1,2-Dichloroethene	1.0 ug/L	<50	<20	-	-	<100	-
cis-1,2-Dichloroethene	1.0 ug/L	590 [1]	260 [1]	-	-	<100	-
1,1-Dichloroethene	1.0 ug/L	<50	<20	-	-	<100	-
Ethylbenzene	1.0 ug/L	<50	<20	-	-	<100	-
Naphthalene	5.0 ug/L	<250	<100	-	-	<500	-
n-Propyl Benzene	1.0 ug/L	<50	<20	-	-	<100	-
Tetrachloroethene	1.0 ug/L	<50	<20	-	-	<100	-
Toluene	1.0 ug/L	<50	<20	-	-	<100	-
1,1,1-Trichloroethane	1.0 ug/L	<50	<20	-	-	2500 [1]	-
1,1,2-Trichloroethane	1.0 ug/L	<50	<20	-	-	<100	-
Trichloroethene	1.0 ug/L	1700 [1]	830 [1]	-	-	1100 [1]	-
1,3,5-Trimethylbenzene	1.0 ug/L	<50	<20	-	-	<100	-
1,2,4-Trimethylbenzene	1.0 ug/L	<50	<20	-	-	<100	-
Vinyl chloride	1.0 ug/L	430 [1] [2]	<20	-	-	<100	-

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SUMMARY REPORT

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Ann Arbor, MI 48108		Project Manager:	Stacy Metz
SAMPLED:	04/15/2009 to 04/21/2009	**REPORTED:**	04/30/2009 23:51
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LAB #			T091605-01	T091605-03	T091605-04	T091605-05	T091605-09	T091605-10
MATRIX	Minimum		Water	Water	Soil	Soil	Water	Soil
SAMPLE ID	Reporting Limit		NS-2 (20-24')	NS-1 (20-24')	NS-1 (0-4')	NS-1 (16-20')	SS-4 (22-24')	SS-4 (12-16')
Volatile Organic Compounds by EPA Method 8260B (continued)								
m,p-Xylene	1.0	ug/L	<50	<20	-	-	<100	-
o-Xylene	1.0	ug/L	<50	<20	-	-	<100	-
Dibromofluoromethane	140	[surr]	113%	107%	-	-	117%	-
Toluene-d8	140	[surr]	93.5%	96.3%	-	-	94.1%	-
4-Bromofluorobenzene	140	[surr]	92.8%	92.4%	-	-	88.3%	-
Classical Chemistry Parameters (Soil)								
% Solids	0.00	% by Weight	-	-	87.5	95.2	-	97.6

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RMT, Inc		Project:	Tecumseh Products Company
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LAB #		T091605-11	T091605-12	T091605-13	T091605-14	T091605-15	T091605-16
MATRIX	Minimum	Soil	Soil	Soil	Soil	Soil	Water
SAMPLE ID	Reporting Limit	SS-4 (8-12')	SS-5 (3-4')	SS-5 (12-13')	SS-6 (5-7')	Dup-02	SS-6 (23-27')
Volatile Organic Compounds by EPA Method 8260B (Soil)							
Benzene	25 ug/kg dry	<120	<130	<30	<34	<40	-
n-Butyl Benzene	25 ug/kg dry	<120	<130	<30	<34	<40	-
Chloroethane	500 ug/kg dry	<2300	<2600	<610	<670	<800	-
Chloroform	25 ug/kg dry	<120	<130	<30	<34	<40	-
1,1-Dichloroethane	25 ug/kg dry	<120	<130	<30	<34	<40	-
1,2-Dichloroethane	25 ug/kg dry	<120	<130	<30	<34	<40	-
trans-1,2-Dichloroethene	25 ug/kg dry	<120	<130	<30	<34	<40	-
cis-1,2-Dichloroethene	25 ug/kg dry	<120	<130	<30	<34	<40	-
1,1-Dichloroethene	25 ug/kg dry	<120	<130	<30	<34	<40	-
Ethylbenzene	25 ug/kg dry	<120	<130	<30	<34	<40	-
Naphthalene	250 ug/kg dry	<1200	<1300	<300	<340	<400	-
n-Propyl Benzene	25 ug/kg dry	<120	<130	<30	<34	<40	-
Tetrachloroethene	25 ug/kg dry	490 [1]	240 [1]	130	<34	<40	-
Toluene	25 ug/kg dry	<120	<130	<30	<34	<40	-
1,1,1-Trichloroethane	25 ug/kg dry	8200 [1]	13000 [1]	4400 [1]	230	320	-
1,1,2-Trichloroethane	25 ug/kg dry	<120	<130	<30	<34	<40	-
Trichloroethene	25 ug/kg dry	4400 [1]	11000 [1]	3300 [1]	120	160	-
1,3,5-Trimethylbenzene	25 ug/kg dry	<120	<130	<30	<34	<40	-
1,2,4-Trimethylbenzene	25 ug/kg dry	<120	<130	<30	<34	<40	-
Vinyl chloride	25 ug/kg dry	<120	<130	<30	<34	<40	-
m,p-Xylene	50 ug/kg dry	<230	<260	<61	<67	<80	-
o-Xylene	25 ug/kg dry	<120	<130	<30	<34	<40	-
1,4-Dioxane	250 ug/kg dry	<290 [5]	<260 [5]	<300 [5]	<340 [5]	<400 [5]	-
Dibromofluoromethane	140 [surr]	117%	118%	108%	113%	118%	-

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Ann Arbor, MI 48108		Project Manager:	Stacy Metz
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LAB #		T091605-11	T091605-12	T091605-13	T091605-14	T091605-15	T091605-16
MATRIX	Minimum	Soil	Soil	Soil	Soil	Soil	Water
SAMPLE ID	Reporting Limit	SS-4 (8-12')	SS-5 (3-4')	SS-5 (12-13')	SS-6 (5-7')	Dup-02	SS-6 (23-27')
Volatile Organic Compounds by EPA Method 8260B (continued)							
Toluene-d8	140 [surr]	92.8%	91.1%	96.2%	104%	101%	-
4-Bromofluorobenzene	140 [surr]	89.9%	89.6%	90.8%	100%	97.6%	-
Volatile Organic Compounds by EPA Method 8260B (Water)							
1,4-Dioxane	25 ug/L	-	-	-	-	-	160
Benzene	1.0 ug/L	-	-	-	-	-	<200
n-Butyl Benzene	1.0 ug/L	-	-	-	-	-	<200
Chloroethane	5.0 ug/L	-	-	-	-	-	<1000
Chloroform	1.0 ug/L	-	-	-	-	-	<200
1,1-Dichloroethane	1.0 ug/L	-	-	-	-	-	<200
1,2-Dichloroethane	1.0 ug/L	-	-	-	-	-	<200
trans-1,2-Dichloroethene	1.0 ug/L	-	-	-	-	-	<200
cis-1,2-Dichloroethene	1.0 ug/L	-	-	-	-	-	<200
1,1-Dichloroethene	1.0 ug/L	-	-	-	-	-	<200
Ethylbenzene	1.0 ug/L	-	-	-	-	-	<200
Naphthalene	5.0 ug/L	-	-	-	-	-	<1000
n-Propyl Benzene	1.0 ug/L	-	-	-	-	-	<200
Tetrachloroethene	1.0 ug/L	-	-	-	-	-	<200
Toluene	1.0 ug/L	-	-	-	-	-	<200
1,1,1-Trichloroethane	1.0 ug/L	-	-	-	-	-	2600 [1]
1,1,2-Trichloroethane	1.0 ug/L	-	-	-	-	-	<200
Trichloroethene	1.0 ug/L	-	-	-	-	-	1100 [1]
1,3,5-Trimethylbenzene	1.0 ug/L	-	-	-	-	-	<200
1,2,4-Trimethylbenzene	1.0 ug/L	-	-	-	-	-	<200
Vinyl chloride	1.0 ug/L	-	-	-	-	-	<200

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RMT, Inc
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Project: Tecumseh Products Company
Project Number: [none]
Project Manager: Stacy Metz

SAMPLED: 04/15/2009 to 04/21/2009
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LAB #		T091605-11	T091605-12	T091605-13	T091605-14	T091605-15	T091605-16
MATRIX	Minimum	Soil	Soil	Soil	Soil	Soil	Water
SAMPLE ID	Reporting Limit	SS-4 (8-12')	SS-5 (3-4')	SS-5 (12-13')	SS-6 (5-7')	Dup-02	SS-6 (23-27')
Volatile Organic Compounds by EPA Method 8260B (continued)							
m,p-Xylene	1.0 ug/L	-	-	-	-	-	<200
o-Xylene	1.0 ug/L	-	-	-	-	-	<200
Dibromofluoromethane	140 [surr]	-	-	-	-	-	114%
Toluene-d8	140 [surr]	-	-	-	-	-	93.1%
4-Bromofluorobenzene	140 [surr]	-	-	-	-	-	89.6%
Classical Chemistry Parameters (Soil)							
% Solids	0.00 % by Weight	97.1	88.0	97.3	88.2	86.8	-

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SUMMARY REPORT

RMT, Inc
3754 Ranchero Drive
Ann Arbor, MI 48108

Project: Tecumseh Products Company
Project Number: [none]
Project Manager: Stacy Metz

SAMPLED: 04/15/2009 to 04/21/2009
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LAB #		T091605-17	T091605-18	T091701-01	T091701-02	T091701-16	T091701-17
MATRIX	Minimum	Soil	Water	Soil	Water	Water	Soil
SAMPLE ID	Reporting Limit	SS-5 (20-21')	SS-5 (22-26')	SS-7 (21-22')	SS-7 (22-26')	NS-05 (20-24')	NS-05 (12-14')
Volatile Organic Compounds by EPA Method 8260B (Soil)							
Benzene	25 ug/kg dry	<26	-	<35	-	-	<33
n-Butyl Benzene	25 ug/kg dry	<26	-	<35	-	-	<33
Chloroethane	500 ug/kg dry	<520	-	<710	-	-	<660
Chloroform	25 ug/kg dry	<26	-	<35	-	-	<33
1,1-Dichloroethane	25 ug/kg dry	<26	-	<35	-	-	<33
1,2-Dichloroethane	25 ug/kg dry	<26	-	<35	-	-	<33
trans-1,2-Dichloroethene	25 ug/kg dry	<26	-	<35	-	-	<33
cis-1,2-Dichloroethene	25 ug/kg dry	<26	-	<35	-	-	58
1,1-Dichloroethene	25 ug/kg dry	<26	-	<35	-	-	<33
Ethylbenzene	25 ug/kg dry	<26	-	<35	-	-	<33
Naphthalene	250 ug/kg dry	<260	-	<350	-	-	<330
n-Propyl Benzene	25 ug/kg dry	<26	-	<35	-	-	<33
Tetrachloroethene	25 ug/kg dry	180	-	<35	-	-	40
Toluene	25 ug/kg dry	<26	-	<35	-	-	<33
1,1,1-Trichloroethane	25 ug/kg dry	7700 [1]	-	1600	-	-	33
1,1,2-Trichloroethane	25 ug/kg dry	<26	-	<35	-	-	<33
Trichloroethene	25 ug/kg dry	5500 [1]	-	5000 [1]	-	-	4500 [1]
1,3,5-Trimethylbenzene	25 ug/kg dry	<26	-	<35	-	-	<33
1,2,4-Trimethylbenzene	25 ug/kg dry	<26	-	<35	-	-	<33
Vinyl chloride	25 ug/kg dry	<26	-	<35	-	-	<33
m,p-Xylene	50 ug/kg dry	<52	-	<71	-	-	<66
o-Xylene	25 ug/kg dry	<26	-	<35	-	-	<33
1,4-Dioxane	250 ug/kg dry	<260 [4] [5]	-	<350 [5]	-	-	-
Dibromofluoromethane	140 [surr]	113%	-	121%	-	-	120%

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SUMMARY REPORT

RMT, Inc		Project:	Tecumseh Products Company
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Ann Arbor, MI 48108		Project Manager:	Stacy Metz
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LAB #		T091605-17	T091605-18	T091701-01	T091701-02	T091701-16	T091701-17
MATRIX	Minimum	Soil	Water	Soil	Water	Water	Soil
SAMPLE ID	Reporting Limit	SS-5 (20-21')	SS-5 (22-26')	SS-7 (21-22')	SS-7 (22-26')	NS-05 (20-24')	NS-05 (12-14')
Volatile Organic Compounds by EPA Method 8260B (continued)							
Toluene-d8	140 [surr]	103%	-	99.5%	-	-	100%
4-Bromofluorobenzene	140 [surr]	99.7%	-	98.7%	-	-	97.4%
Volatile Organic Compounds by EPA Method 8260B (Water)							
1,4-Dioxane	25 ug/L	-	<25 [5]	-	<25 [5]	-	-
Benzene	1.0 ug/L	-	<100	-	<100	<200	-
n-Butyl Benzene	1.0 ug/L	-	<100	-	<100	<200	-
Chloroethane	5.0 ug/L	-	<500	-	<500	<1000	-
Chloroform	1.0 ug/L	-	<100	-	<100	<200	-
1,1-Dichloroethane	1.0 ug/L	-	<100	-	<100	<200	-
1,2-Dichloroethane	1.0 ug/L	-	<100	-	<100	<200	-
trans-1,2-Dichloroethene	1.0 ug/L	-	<100	-	<100	<200	-
cis-1,2-Dichloroethene	1.0 ug/L	-	<100	-	<100	<200	-
1,1-Dichloroethene	1.0 ug/L	-	<100	-	<100	<200	-
Ethylbenzene	1.0 ug/L	-	<100	-	<100	<200	-
Naphthalene	5.0 ug/L	-	<500	-	<500	<1000	-
n-Propyl Benzene	1.0 ug/L	-	<100	-	<100	<200	-
Tetrachloroethene	1.0 ug/L	-	<100	-	<100	<200	-
Toluene	1.0 ug/L	-	<100	-	<100	<200	-
1,1,1-Trichloroethane	1.0 ug/L	-	2200 [1]	-	1300 [1]	<200	-
1,1,2-Trichloroethane	1.0 ug/L	-	<100	-	<100	<200	-
Trichloroethene	1.0 ug/L	-	1300 [1]	-	1400 [1]	2900 [1]	-
1,3,5-Trimethylbenzene	1.0 ug/L	-	<100	-	<100	<200	-
1,2,4-Trimethylbenzene	1.0 ug/L	-	<100	-	<100	<200	-
Vinyl chloride	1.0 ug/L	-	<100	-	<100	<200	-

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RMT, Inc
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Ann Arbor, MI 48108

SAMPLED: 04/15/2009 to 04/21/2009
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Project: Tecumseh Products Company
Project Number: [none]
Project Manager: Stacy Metz
REPORTED: 04/30/2009 23:51

LAB #		T091605-17	T091605-18	T091701-01	T091701-02	T091701-16	T091701-17
MATRIX	Minimum	Soil	Water	Soil	Water	Water	Soil
SAMPLE ID	Reporting Limit	SS-5 (20-21')	SS-5 (22-26')	SS-7 (21-22')	SS-7 (22-26')	NS-05 (20-24')	NS-05 (12-14')
Volatile Organic Compounds by EPA Method 8260B (continued)							
m,p-Xylene	1.0 ug/L	-	<100	-	<100	<200	-
o-Xylene	1.0 ug/L	-	<100	-	<100	<200	-
Dibromofluoromethane	140 [surr]	-	106%	-	123%	114%	-
Toluene-d8	140 [surr]	-	96.0%	-	97.6%	92.2%	-
4-Bromofluorobenzene	140 [surr]	-	90.3%	-	95.6%	89.6%	-
Classical Chemistry Parameters (Soil)							
% Solids	0.00 % by Weight	97.2	-	97.0	-	-	97.8

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SUMMARY REPORT

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Ann Arbor, MI 48108		Project Manager:	Stacy Metz
SAMPLED:	04/15/2009 to 04/21/2009	**REPORTED:**	04/30/2009 23:51
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LAB #			T091701-18	T091701-19	T091701-20	T091702-01	T091702-02	T091702-03
MATRIX	Minimum		Water	Soil	Soil	Water	Soil	Soil
SAMPLE ID	Reporting Limit		NS-06 (22-24')	NS-06 (2-3')	NS-06 (23-24')	SS-8 (23-27')	SS-8 (19-20')	NS-07 (10-11')
Volatile Organic Compounds by EPA Method 8260B (Soil)								
Benzene	25	ug/kg dry	-	<26	<30	-	<130	<29
n-Butyl Benzene	25	ug/kg dry	-	<26	<30	-	<130	<29
Chloroethane	500	ug/kg dry	-	<520	<600	-	<2600	<580
Chloroform	25	ug/kg dry	-	<26	<30	-	<130	<29
1,1-Dichloroethane	25	ug/kg dry	-	<26	<30	-	<130	<29
1,2-Dichloroethane	25	ug/kg dry	-	<26	<30	-	<130	<29
trans-1,2-Dichloroethene	25	ug/kg dry	-	230	<30	-	<130	<29
cis-1,2-Dichloroethene	25	ug/kg dry	-	9600 [1]	<30	-	<130	<29
1,1-Dichloroethene	25	ug/kg dry	-	<26	<30	-	<130	<29
Ethylbenzene	25	ug/kg dry	-	140	<30	-	<130	<29
Naphthalene	250	ug/kg dry	-	310	<300	-	<1300	<290
n-Propyl Benzene	25	ug/kg dry	-	430	<30	-	<130	<29
Tetrachloroethene	25	ug/kg dry	-	510	<30	-	250 [1]	340
Toluene	25	ug/kg dry	-	82	<30	-	<130	<29
1,1,1-Trichloroethane	25	ug/kg dry	-	<26	<30	-	7300 [1]	<29
1,1,2-Trichloroethane	25	ug/kg dry	-	<26	<30	-	<130	<29
Trichloroethene	25	ug/kg dry	-	5200 [1]	520	-	8600 [1]	1500
1,3,5-Trimethylbenzene	25	ug/kg dry	-	1400	<30	-	<130	<29
1,2,4-Trimethylbenzene	25	ug/kg dry	-	4000 [1]	<30	-	<130	<29
Vinyl chloride	25	ug/kg dry	-	140	<30	-	<130	<29
m,p-Xylene	50	ug/kg dry	-	510	<60	-	<260	<58
o-Xylene	25	ug/kg dry	-	560	<30	-	<130	<29
1,4-Dioxane	250	ug/kg dry	-	-	-	-	<330 [5]	-
Dibromofluoromethane	140	[surr]	-	115%	111%	-	114%	118%
Toluene-d8	140	[surr]	-	100%	95.6%	-	95.1%	104%
4-Bromofluorobenzene	140	[surr]	-	136%	90.0%	-	91.3%	98.1%
Volatile Organic Compounds by EPA Method 8260B (Water)								
1,4-Dioxane	25	ug/L	-	-	-	38	-	-
Benzene	1.0	ug/L	<100	-	-	<100	-	-
n-Butyl Benzene	1.0	ug/L	<100	-	-	<100	-	-

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Nick Nigro For Eric Moen
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SUMMARY REPORT

RMT, Inc		Project:	Tecumseh Products Company
3754 Ranchero Drive		Project Number:	[none]
Ann Arbor, MI 48108		Project Manager:	Stacy Metz
SAMPLED:	04/15/2009 to 04/21/2009	**REPORTED:**	04/30/2009 23:51
RECEIVED:	04/15/2009 to 04/21/2009		

LAB #			T091701-18	T091701-19	T091701-20	T091702-01	T091702-02	T091702-03
MATRIX	Minimum		Water	Soil	Soil	Water	Soil	Soil
SAMPLE ID	Reporting Limit		NS-06 (22-24')	NS-06 (2-3')	NS-06 (23-24')	SS-8 (23-27')	SS-8 (19-20')	NS-07 (10-11')
Volatile Organic Compounds by EPA Method 8260B (continued)								
Chloroethane	5.0	ug/L	<500	-	-	<500	-	-
Chloroform	1.0	ug/L	<100	-	-	<100	-	-
1,1-Dichloroethane	1.0	ug/L	<100	-	-	<100	-	-
1,2-Dichloroethane	1.0	ug/L	<100	-	-	<100	-	-
trans-1,2-Dichloroethene	1.0	ug/L	<100	-	-	<100	-	-
cis-1,2-Dichloroethene	1.0	ug/L	220 [1]	-	-	<100	-	-
1,1-Dichloroethene	1.0	ug/L	<100	-	-	<100	-	-
Ethylbenzene	1.0	ug/L	<100	-	-	<100	-	-
Naphthalene	5.0	ug/L	<500	-	-	<500	-	-
n-Propyl Benzene	1.0	ug/L	<100	-	-	<100	-	-
Tetrachloroethene	1.0	ug/L	<100	-	-	<100	-	-
Toluene	1.0	ug/L	<100	-	-	<100	-	-
1,1,1-Trichloroethane	1.0	ug/L	100 [1]	-	-	4100 [1]	-	-
1,1,2-Trichloroethane	1.0	ug/L	<100	-	-	<100	-	-
Trichloroethene	1.0	ug/L	4500 [1]	-	-	2300 [1]	-	-
1,3,5-Trimethylbenzene	1.0	ug/L	<100	-	-	<100	-	-
1,2,4-Trimethylbenzene	1.0	ug/L	<100	-	-	<100	-	-
Vinyl chloride	1.0	ug/L	<100	-	-	<100	-	-
m,p-Xylene	1.0	ug/L	<100	-	-	<100	-	-
o-Xylene	1.0	ug/L	<100	-	-	<100	-	-
Dibromofluoromethane	140	[surr]	125%	-	-	112%	-	-
Toluene-d8	140	[surr]	98.1%	-	-	92.2%	-	-
4-Bromofluorobenzene	140	[surr]	98.1%	-	-	90.4%	-	-
Classical Chemistry Parameters (Soil)								
% Solids	0.00	% by Weight	-	93.9	89.5	-	97.7	96.0

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SUMMARY REPORT

RMT, Inc		Project:	Tecumseh Products Company
3754 Ranchero Drive		Project Number:	[none]
Ann Arbor, MI 48108		Project Manager:	Stacy Metz
SAMPLED:	04/15/2009 to 04/21/2009	**REPORTED:**	04/30/2009 23:51
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LAB #		T091702-04	T091702-05	T091702-06	T091702-07	T091702-08	T091702-09
MATRIX	Minimum	Soil	Soil	Water	Water	Water	Water
SAMPLE ID	Reporting Limit	NS-08 (15-16')	Dup-03	NS-07 (20-24')	NS-08 (20-24')	Dup-09	NS-09 (20-24')
Volatile Organic Compounds by EPA Method 8260B (Soil)							
Benzene	25 ug/kg dry	<63	<24	-	-	-	-
n-Butyl Benzene	25 ug/kg dry	<63	<24	-	-	-	-
Chloroethane	500 ug/kg dry	<1300	<480	-	-	-	-
Chloroform	25 ug/kg dry	<63	<24	-	-	-	-
1,1-Dichloroethane	25 ug/kg dry	<63	<24	-	-	-	-
1,2-Dichloroethane	25 ug/kg dry	<63	<24	-	-	-	-
trans-1,2-Dichloroethene	25 ug/kg dry	<63	<24	-	-	-	-
cis-1,2-Dichloroethene	25 ug/kg dry	<63	<24	-	-	-	-
1,1-Dichloroethene	25 ug/kg dry	<63	<24	-	-	-	-
Ethylbenzene	25 ug/kg dry	<63	<24	-	-	-	-
Naphthalene	250 ug/kg dry	<630	<240	-	-	-	-
n-Propyl Benzene	25 ug/kg dry	<63	<24	-	-	-	-
Tetrachloroethene	25 ug/kg dry	830 [1]	320	-	-	-	-
Toluene	25 ug/kg dry	<63	<24	-	-	-	-
1,1,1-Trichloroethane	25 ug/kg dry	<63	<24	-	-	-	-
1,1,2-Trichloroethane	25 ug/kg dry	<63	<24	-	-	-	-
Trichloroethene	25 ug/kg dry	4300 [1]	1400	-	-	-	-
1,3,5-Trimethylbenzene	25 ug/kg dry	<63	<24	-	-	-	-
1,2,4-Trimethylbenzene	25 ug/kg dry	<63	<24	-	-	-	-
Vinyl chloride	25 ug/kg dry	<63	<24	-	-	-	-
m,p-Xylene	50 ug/kg dry	<130	<48	-	-	-	-
o-Xylene	25 ug/kg dry	<63	<24	-	-	-	-
Dibromofluoromethane	140 [surr]	113%	119%	-	-	-	-
Toluene-d8	140 [surr]	93.5%	103%	-	-	-	-

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SUMMARY REPORT

RMT, Inc		Project:	Tecumseh Products Company
3754 Ranchero Drive		Project Number:	[none]
Ann Arbor, MI 48108		Project Manager:	Stacy Metz
SAMPLED:	04/15/2009 to 04/21/2009	**REPORTED:**	04/30/2009 23:51
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LAB #		T091702-04	T091702-05	T091702-06	T091702-07	T091702-08	T091702-09
MATRIX	Minimum	Soil	Soil	Water	Water	Water	Water
SAMPLE ID	Reporting Limit	NS-08 (15-16')	Dup-03	NS-07 (20-24')	NS-08 (20-24')	Dup-09	NS-09 (20-24')
Volatile Organic Compounds by EPA Method 8260B (continued)							
4-Bromofluorobenzene	140 [surr]	89.2%	99.2%	-	-	-	-
Volatile Organic Compounds by EPA Method 8260B (Water)							
Benzene	1.0 ug/L	-	-	<20	<20	<20	<1.0
n-Butyl Benzene	1.0 ug/L	-	-	<20	<20	<20	<1.0
Chloroethane	5.0 ug/L	-	-	<100	<100	<100	5.8
Chloroform	1.0 ug/L	-	-	<20	<20	<20	1.1
1,1-Dichloroethane	1.0 ug/L	-	-	<20	21 [1]	22 [1]	46
1,2-Dichloroethane	1.0 ug/L	-	-	<20	<20	<20	<1.0
trans-1,2-Dichloroethene	1.0 ug/L	-	-	<20	<20	<20	5.0
cis-1,2-Dichloroethene	1.0 ug/L	-	-	34 [1]	100 [1]	100 [1]	110 [1]
1,1-Dichloroethene	1.0 ug/L	-	-	<20	<20	<20	<1.0
Ethylbenzene	1.0 ug/L	-	-	<20	<20	<20	<1.0
Naphthalene	5.0 ug/L	-	-	<100	<100	<100	<5.0
n-Propyl Benzene	1.0 ug/L	-	-	<20	<20	<20	<1.0
Tetrachloroethene	1.0 ug/L	-	-	30 [1]	28 [1]	29 [1]	<1.0
Toluene	1.0 ug/L	-	-	<20	<20	<20	<1.0
1,1,1-Trichloroethane	1.0 ug/L	-	-	<20	<20	<20	<1.0
1,1,2-Trichloroethane	1.0 ug/L	-	-	<20	<20	<20	<1.0
Trichloroethene	1.0 ug/L	-	-	710 [1]	960 [1]	950 [1]	16
1,3,5-Trimethylbenzene	1.0 ug/L	-	-	<20	<20	<20	<1.0
1,2,4-Trimethylbenzene	1.0 ug/L	-	-	<20	<20	<20	1.3
Vinyl chloride	1.0 ug/L	-	-	<20	27 [1]	30 [1] [2]	140 [1] [2]
m,p-Xylene	1.0 ug/L	-	-	<20	<20	<20	<1.0
o-Xylene	1.0 ug/L	-	-	<20	<20	<20	<1.0

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SUMMARY REPORT

RMT, Inc		Project:	Tecumseh Products Company
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Ann Arbor, MI 48108		Project Manager:	Stacy Metz
SAMPLED:	04/15/2009 to 04/21/2009	**REPORTED:**	04/30/2009 23:51
RECEIVED:	04/15/2009 to 04/21/2009		

LAB #			T091702-04	T091702-05	T091702-06	T091702-07	T091702-08	T091702-09
MATRIX	Minimum		Soil	Soil	Water	Water	Water	Water
SAMPLE ID	Reporting Limit		NS-08 (15-16')	Dup-03	NS-07 (20-24')	NS-08 (20-24')	Dup-09	NS-09 (20-24')
Volatile Organic Compounds by EPA Method 8260B (continued)								
Dibromofluoromethane	140	[surr]	-	-	116%	127%	117%	107%
Toluene-d8	140	[surr]	-	-	93.3%	101%	91.4%	102%
4-Bromofluorobenzene	140	[surr]	-	-	91.3%	100%	91.6%	96.2%
Classical Chemistry Parameters (Soil)								
% Solids	0.00	% by Weight	96.2	96.9	-	-	-	-

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SUMMARY REPORT

RMT, Inc		Project:	Tecumseh Products Company
3754 Ranchero Drive		Project Number:	[none]
Ann Arbor, MI 48108		Project Manager:	Stacy Metz
SAMPLED:	04/15/2009 to 04/21/2009	**REPORTED:**	04/30/2009 23:51
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LAB #		T091702-10	T091702-11	T091702-12	T091702-13	-	-
MATRIX	Minimum	Soil	Soil	Soil	Water	-	-
SAMPLE ID	Reporting Limit	NS-09 (2-3')	NS-10 (8-9')	NS-10 (10-11')	NS-10 (21-25')	-	-
Volatile Organic Compounds by EPA Method 8260B (Soil)							
Benzene	25 ug/kg dry	<30	<430	<27	-	-	-
n-Butyl Benzene	25 ug/kg dry	1200	9100 [1]	910	-	-	-
Chloroethane	500 ug/kg dry	<600	<8500	<540	-	-	-
Chloroform	25 ug/kg dry	<30	<430	<27	-	-	-
1,1-Dichloroethane	25 ug/kg dry	<30	<430	<27	-	-	-
1,2-Dichloroethane	25 ug/kg dry	<30	<430	<27	-	-	-
trans-1,2-Dichloroethene	25 ug/kg dry	77	<430	<27	-	-	-
cis-1,2-Dichloroethene	25 ug/kg dry	4900 [1]	880 [1]	340	-	-	-
1,1-Dichloroethene	25 ug/kg dry	<30	<430	<27	-	-	-
Ethylbenzene	25 ug/kg dry	88	1200 [1]	110	-	-	-
Naphthalene	250 ug/kg dry	1200	14000 [1]	1500	-	-	-
n-Propyl Benzene	25 ug/kg dry	370	4000 [1]	360	-	-	-
Tetrachloroethene	25 ug/kg dry	<30	450 [1]	28	-	-	-
Toluene	25 ug/kg dry	86	920 [1]	90	-	-	-
1,1,1-Trichloroethane	25 ug/kg dry	<30	<430	<27	-	-	-
1,1,2-Trichloroethane	25 ug/kg dry	<30	<430	<27	-	-	-
Trichloroethene	25 ug/kg dry	310	<430	61	-	-	-
1,3,5-Trimethylbenzene	25 ug/kg dry	1900	9700 [1]	980	-	-	-
1,2,4-Trimethylbenzene	25 ug/kg dry	5400 [1]	34000 [1]	3100 [1]	-	-	-
Vinyl chloride	25 ug/kg dry	480	<430	72	-	-	-
m,p-Xylene	50 ug/kg dry	390	3600 [1]	360	-	-	-
o-Xylene	25 ug/kg dry	330	3100 [1]	300	-	-	-
Dibromofluoromethane	140 [surr]	109%	121%	112%	-	-	-
Toluene-d8	140 [surr]	95.5%	104%	96.9%	-	-	-

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SUMMARY REPORT

RMT, Inc		Project:	Tecumseh Products Company
3754 Ranchero Drive		Project Number:	[none]
Ann Arbor, MI 48108		Project Manager:	Stacy Metz
SAMPLED:	04/15/2009 to 04/21/2009	**REPORTED:**	04/30/2009 23:51
RECEIVED:	04/15/2009 to 04/21/2009		

LAB #		T091702-10	T091702-11	T091702-12	T091702-13	-	-
MATRIX	Minimum	Soil	Soil	Soil	Water	-	-
SAMPLE ID	Reporting Limit	NS-09 (2-3')	NS-10 (8-9')	NS-10 (10-11')	NS-10 (21-25')	-	-
Volatile Organic Compounds by EPA Method 8260B (continued)							
4-Bromofluorobenzene	140 [surr]	104%	105%	103%	-	-	-
Volatile Organic Compounds by EPA Method 8260B (Water)							
Benzene	1.0 ug/L	-	-	-	<10	-	-
n-Butyl Benzene	1.0 ug/L	-	-	-	<10	-	-
Chloroethane	5.0 ug/L	-	-	-	<50	-	-
Chloroform	1.0 ug/L	-	-	-	<10	-	-
1,1-Dichloroethane	1.0 ug/L	-	-	-	26 [1]	-	-
1,2-Dichloroethane	1.0 ug/L	-	-	-	<10	-	-
trans-1,2-Dichloroethene	1.0 ug/L	-	-	-	13 [1]	-	-
cis-1,2-Dichloroethene	1.0 ug/L	-	-	-	380 [1]	-	-
1,1-Dichloroethene	1.0 ug/L	-	-	-	<10	-	-
Ethylbenzene	1.0 ug/L	-	-	-	<10	-	-
Naphthalene	5.0 ug/L	-	-	-	<50	-	-
n-Propyl Benzene	1.0 ug/L	-	-	-	<10	-	-
Tetrachloroethene	1.0 ug/L	-	-	-	<10	-	-
Toluene	1.0 ug/L	-	-	-	<10	-	-
1,1,1-Trichloroethane	1.0 ug/L	-	-	-	<10	-	-
1,1,2-Trichloroethane	1.0 ug/L	-	-	-	<10	-	-
Trichloroethene	1.0 ug/L	-	-	-	<10	-	-
1,3,5-Trimethylbenzene	1.0 ug/L	-	-	-	<10	-	-
1,2,4-Trimethylbenzene	1.0 ug/L	-	-	-	17 [1]	-	-
Vinyl chloride	1.0 ug/L	-	-	-	45 [1]	-	-
m,p-Xylene	1.0 ug/L	-	-	-	<10	-	-
o-Xylene	1.0 ug/L	-	-	-	<10	-	-

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SUMMARY REPORT

RMT, Inc		Project:	Tecumseh Products Company
3754 Ranchero Drive		Project Number:	[none]
Ann Arbor, MI 48108		Project Manager:	Stacy Metz
SAMPLED:	04/15/2009 to 04/21/2009	**REPORTED:**	04/30/2009 23:51
RECEIVED:	04/15/2009 to 04/21/2009		

LAB #			T091702-10	T091702-11	T091702-12	T091702-13	-	-
MATRIX	Minimum		Soil	Soil	Soil	Water	-	-
SAMPLE ID	Reporting Limit		NS-09 (2-3')	NS-10 (8-9')	NS-10 (10-11')	NS-10 (21-25')	-	-
Volatile Organic Compounds by EPA Method 8260B (continued)								
Dibromofluoromethane	140	[surr]	-	-	-	119%	-	-
Toluene-d8	140	[surr]	-	-	-	106%	-	-
4-Bromofluorobenzene	140	[surr]	-	-	-	98.9%	-	-
Classical Chemistry Parameters (Soil)								
% Solids	0.00	% by Weight	94.1	90.3	82.0	-	-	-

Special Notes

1 = Data reported from a dilution
2 = Results may be biased high because of high continuing calibration verification (CCV).
3 = The Matrix Spike and/or Matrix Spike Duplicate recovery was outside of the laboratory control limits.
4 = Surrogate recovery was outside of laboratory control limits due to an apparent matrix effect.
5 = Analyte included in the analysis, but not detected
6 = Precision for the MS/MSD or lab duplicate was outside of control limits.

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Attachment D
B Sample Report

Environmental Chemistry Consulting Services, Inc.

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SUMMARY REPORT

RMT, Inc
3754 Ranchero Drive
Ann Arbor, MI 48108

SAMPLED: 04/13/2009 to 04/20/2009
RECEIVED: 04/13/2009 to 04/20/2009

Project: Tecumseh Products Company
Project Number: [none]
Project Manager: Stacy Metz
REPORTED: 05/01/2009 10:57

LAB #		T091601-03	T091602-04	T091603-09	T091604-05	T091604-08	T091605-08
MATRIX	Minimum	Water	Water	Water	Water	Water	Water
SAMPLE ID	Reporting Limit	DUP 01	Dup-02	Dup-03	Dup-04	Dup-05	Dup-06
Volatile Organic Compounds by EPA Method 8260B (Water)							
1,4-Dioxane	25 ug/L	-	<25 [2]	<25 [2]	<25 [2]	-	<25 [2]
Benzene	1.0 ug/L	<4.0	<1.0	<1.0	<50	<1.0	<1.0
n-Butyl Benzene	1.0 ug/L	<4.0	<1.0	<1.0	<50	<1.0	<1.0
Chloroethane	5.0 ug/L	<20	<5.0	<5.0	<250	<5.0	<5.0
Chloroform	1.0 ug/L	<4.0	<1.0	<1.0	<50	<1.0	<1.0
1,1-Dichloroethane	1.0 ug/L	<4.0	<1.0	<1.0	<50	<1.0	<1.0
1,2-Dichloroethane	1.0 ug/L	<4.0	<1.0	<1.0	<50	<1.0	<1.0
trans-1,2-Dichloroethene	1.0 ug/L	<4.0	<1.0	<1.0	<50	<1.0	<1.0
cis-1,2-Dichloroethene	1.0 ug/L	<4.0	<1.0	<1.0	<50	<1.0	<1.0
1,1-Dichloroethene	1.0 ug/L	<4.0	<1.0	<1.0	<50	<1.0	<1.0
Ethylbenzene	1.0 ug/L	<4.0	<1.0	<1.0	<50	<1.0	<1.0
Naphthalene	5.0 ug/L	<20	<5.0	<5.0	<250	<5.0	<5.0
n-Propyl Benzene	1.0 ug/L	<4.0	<1.0	<1.0	<50	<1.0	<1.0
Tetrachloroethene	1.0 ug/L	<4.0	<1.0	<1.0	<50	<1.0	<1.0
Toluene	1.0 ug/L	5.0 [1]	<1.0	<1.0	<50	<1.0	<1.0
1,1,1-Trichloroethane	1.0 ug/L	<4.0	<1.0	<1.0	<50	<1.0	<1.0
1,1,2-Trichloroethane	1.0 ug/L	<4.0	<1.0	<1.0	<50	<1.0	<1.0
Trichloroethene	1.0 ug/L	26 [1]	<1.0	<1.0	770 [1]	2.2	<1.0
1,3,5-Trimethylbenzene	1.0 ug/L	<4.0	<1.0	<1.0	<50	<1.0	<1.0
1,2,4-Trimethylbenzene	1.0 ug/L	<4.0	<1.0	<1.0	<50	<1.0	<1.0
Vinyl chloride	1.0 ug/L	<4.0	<1.0	<1.0	<50	<1.0	<1.0
m,p-Xylene	1.0 ug/L	<4.0	<1.0	<1.0	<50	<1.0	<1.0
o-Xylene	1.0 ug/L	<4.0	<1.0	<1.0	<50	<1.0	<1.0
Dibromofluoromethane	140 [surr]	116%	117%	105%	120%	115%	108%

ECCS

Nick Nigro For Eric Moen
Chemist

2525 Advance Road
Madison, WI 53718
608.221.8700 Phone
608.221.4889 Fax

SUMMARY REPORT

RMT, Inc
3754 Ranchero Drive
Ann Arbor, MI 48108

SAMPLED: 04/13/2009 to 04/20/2009
RECEIVED: 04/13/2009 to 04/20/2009

Project: Tecumseh Products Company
Project Number: [none]
Project Manager: Stacy Metz
REPORTED: 05/01/2009 10:57

LAB #		T091601-03	T091602-04	T091603-09	T091604-05	T091604-08	T091605-08
MATRIX	Minimum	Water	Water	Water	Water	Water	Water
SAMPLE ID	Reporting Limit	DUP 01	Dup-02	Dup-03	Dup-04	Dup-05	Dup-06
Volatile Organic Compounds by EPA Method 8260B (continued)							
Toluene-d8	140 [surr]	103%	99.9%	94.9%	105%	102%	93.2%
4-Bromofluorobenzene	140 [surr]	102%	99.2%	89.0%	102%	99.2%	91.6%

ECCS

Nick Nigro For Eric Moen
Chemist

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

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Madison, WI 53718
608.221.8700 Phone
608.221.4889 Fax

SUMMARY REPORT

RMT, Inc
3754 Ranchero Drive
Ann Arbor, MI 48108

SAMPLED: 04/13/2009 to 04/20/2009
RECEIVED: 04/13/2009 to 04/20/2009

Project: Tecumseh Products Company
Project Number: [none]
Project Manager: Stacy Metz
REPORTED: 05/01/2009 10:57

LAB #		T091701-05	-	-	-	-	-
MATRIX	Minimum	Water	-	-	-	-	-
SAMPLE ID	Reporting Limit	Dup-07	-	-	-	-	-
Volatile Organic Compounds by EPA Method 8260B (Water)							
1,4-Dioxane	25 ug/L	<25 [2]	-	-	-	-	-
Benzene	1.0 ug/L	<1.0	-	-	-	-	-
n-Butyl Benzene	1.0 ug/L	<1.0	-	-	-	-	-
Chloroethane	5.0 ug/L	<5.0	-	-	-	-	-
Chloroform	1.0 ug/L	<1.0	-	-	-	-	-
1,1-Dichloroethane	1.0 ug/L	<1.0	-	-	-	-	-
1,2-Dichloroethane	1.0 ug/L	<1.0	-	-	-	-	-
trans-1,2-Dichloroethene	1.0 ug/L	<1.0	-	-	-	-	-
cis-1,2-Dichloroethene	1.0 ug/L	<1.0	-	-	-	-	-
1,1-Dichloroethene	1.0 ug/L	<1.0	-	-	-	-	-
Ethylbenzene	1.0 ug/L	<1.0	-	-	-	-	-
Naphthalene	5.0 ug/L	<5.0	-	-	-	-	-
n-Propyl Benzene	1.0 ug/L	<1.0	-	-	-	-	-
Tetrachloroethene	1.0 ug/L	<1.0	-	-	-	-	-
Toluene	1.0 ug/L	<1.0	-	-	-	-	-
1,1,1-Trichloroethane	1.0 ug/L	<1.0	-	-	-	-	-
1,1,2-Trichloroethane	1.0 ug/L	<1.0	-	-	-	-	-
Trichloroethene	1.0 ug/L	<1.0	-	-	-	-	-
1,3,5-Trimethylbenzene	1.0 ug/L	<1.0	-	-	-	-	-
1,2,4-Trimethylbenzene	1.0 ug/L	<1.0	-	-	-	-	-
Vinyl chloride	1.0 ug/L	1.1	-	-	-	-	-
m,p-Xylene	1.0 ug/L	<1.0	-	-	-	-	-
o-Xylene	1.0 ug/L	<1.0	-	-	-	-	-
Dibromofluoromethane	140 [surr]	122%	-	-	-	-	-

ECCS

Nick Nigro For Eric Moen
Chemist

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

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Madison, WI 53718
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608.221.4889 Fax

SUMMARY REPORT

RMT, Inc		Project:	Tecumseh Products Company
3754 Ranchero Drive		Project Number:	[none]
Ann Arbor, MI 48108		Project Manager:	Stacy Metz
SAMPLED:	04/13/2009 to 04/20/2009	**REPORTED:**	05/01/2009 10:57
RECEIVED:	04/13/2009 to 04/20/2009		

LAB #		T091701-05	-	-	-	-	-
MATRIX	Minimum	Water	-	-	-	-	-
SAMPLE ID	Reporting Limit	Dup-07	-	-	-	-	-
Volatile Organic Compounds by EPA Method 8260B (continued)								
Toluene-d8	140 [surr]	99.2%	-	-	-	-	-
4-Bromofluorobenzene	140 [surr]	96.9%	-	-	-	-	-

Special Notes

1 = Data reported from a dilution

2 = Analyte included in the analysis, but not detected

ECCS

Nick Nigro For Eric Moen
Chemist

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Attachment E
Chain of Custody Documentation

Environmental Chemistry Consulting Services, Inc.

2525 Advance Road · Madison, WI 53718 · Phone (608) 221-8700 · FAX (608) 221-4889

Environmental Chemistry Consulting Services, Inc.
2525 Advance Road
Madison, WI 53718
608-221-8700 (phone)
608-221-4889 (fax)

CHAIN OF CUSTODY

Lab Work Order #:

Project Number: X070.02
Project Name: TPC Off-Site
Project Location: Tecumseh MI
Turn Around (circle one): Normal (Rush)
If Rush, Report Due Date:
Sampled By (Print): S. Metz, S Middlebrook, J. Bacon

Mail Report To: ~~RMT~~, S. Metz / J. Bacon
Company: RMT, Inc
Address: 3754 Ranchero Drive
E-mail Address: stacy.metz@rmtinc.com
Invoice To: RMT
Company:
Address:

Sample Description	Collection Date	Collection Time	Matrix	Total # of Containers	Analyses Requested: VOC	Analyses Requested: 1,4-Dioxane	Comments	Lab ID	Lab Receipt Time
B-24 6-10'	4/13/09	13:20 P	GW	4	X	X	TO91601-01		As sampled
B-23 14-18'	"	11:23 A	GW	2	X		-02		
[redacted] DUP 01	"	—	GW	2	X		-03		
STW #1	"	1:03P	GW	3	X		-04		
STW #2	"	10:22A	GW	2	X		-05		
STW#3	"	12:38P	GW	3	X		-06		
STW#4	"	12:58	GW	3	X		-07		
STW#5	"	13:10	GW	3	X		-08		
STW#6	"	13:21	GW	3	X		-09		
STW#7	"	13:52	GW	3	X	X	-10		

Preservation Codes
A=None B=HCL C=H_2SO_4
D=HNO_3 E=EnCore F=Methanol
G=NaOH O=Other (Indicate)

Relinquished By: [signature] Date: 4/13/09 Time: 13:55
Received By: Erin Moen Date: 4/13/9 Time: 1400
Relinquished By: Date: Time:
Received By: Date: Time:

Matrix Codes
A=Air S=Soil W=Water O=Other

Custody Seal: Present/Absent Intact/Not Intact Seal #'s
Shipped Via:
Receipt Temp:
Temp Blank Y N

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Madison, WI 53718
608-221-8700 (phone)
608-221-4889 (fax)

CHAIN OF CUSTODY

Lab Work Order #:

Project Number: 8070.02
Project Name: TPC Off-Site
Project Location: Tecumseh, MI
Turn Around (circle one): Normal (Rush)
If Rush, Report Due Date:
Sampled By (Print): Metz, Middlebrook, Bacon

Mail Report To: S. Metz / T. Bacon
Company: RMT Inc
Address: 3754 Ranchero
E-mail Address: Stacy.metz@rmtinc.com
Invoice To: RMT
Company:
Address:

Sample Description	Collection Date	Collection Time	Matrix	Total # of Containers	Analyses Requested: Preservation Codes: VOCs (A)	1,4 Dioxane (A)					Comments	Lab ID	Lab Receipt Time
B-23 (30-34')	4/13/09	1406	W	2	X						T091601 - 11	4/13/9	As sample
B-24 (28-32')	"	15:15	W	4	X	X					-12	4/13/9	
STW 8	"	15:50	W	3	X	X					-13		
B-31a (25'-29')	"	16:49	W	3	X						-14		
B-31a (10'-14')	"	1730	W	3	X						-15		
B-29A (8-12')	"	1800	W	4	X	X					-16		
B-29A (38-42')	"	1730	W	4	X	X					-17		

Preservation Codes
A=None B=HCL C=H_2SO_4
D=HNO_3 E=EnCore F=Methanol
G=NaOH O=Other (Indicate)

Relinquished By: [signature] Date: 4/13/09 Time: 18:20
Relinquished By: Date: Time:

Received By: [signature] Date: 4/13/9 Time: 18:20
Received By: Date: Time:

Matrix Codes
A=Air S=Soil W=Water O=Other

Custody Seal: Present/Absent Intact/Not Intact Seal #'s
Shipped Via:

Receipt Temp:
Temp Blank Y N

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608-221-4889 (fax)

CHAIN OF CUSTODY

Lab Work Order #:

Project Number:

Project Name:

Project Location:

Turn Around (circle one): Normal Rush

If Rush, Report Due Date:

Sampled By (Print):

Analyses Requested

Preservation Codes

Mail Report To:

Company:

Address:

E-mail Address:

Invoice To:

Company:

Address:

Sample Description	Collection Date	Collection Time	Matrix	Total # of Containers	VOC's	1,4 Dioxane					Comments	Lab ID	Lab Receipt Time
B-32a (25'-29')	4-14-09	0913	GW	3	3						T091602-01		As Sampled
B-32a (10'-14')	4-14-09	0948	GW	3	3						-02		
B-30a (30-34)	4-14-09	1015	GW	4	X	X					-03		
Dup-02	4/14/09	1015	GW	4	X	X					-04		
B30A (6-11')	4/14/09	1100	GW	4	X	X					-05		
B-18s (32'-36')	4/14/09	1219	GW	3	X3						-06		
B-18s (22'-26')	4/14/09	1257	GW	3	3						-07		
B-14s (36-40)	4/14/09	1350	GW	4	X	X					-08		
B-14s (16-20)	4/14/09	1430	GW	4	X	X					-09		
B-26 (29'-33')	4/14/09	1542	GW	3	X						-10		

Preservation Codes
A=None B=HCL C=H_2SO_4
D=HNO_3 E=EnCore F=Methanol
G=NaOH O=Other (Indicate)

Relinquished By: [signature] Date: 17:30 Time: 4/14/09

Relinquished By: Date: Time:

Received By: [signature] Date: 4/14/09 Time: 14:30

Received By: Date: Time:

Matrix Codes
A=Air S=Soil W=Water O=Other

Custody Seal: Present/Absent Intact/Not Intact Seal #'s

Shipped Via:

Receipt Temp:

Temp Blank Y N

Environmental Chemistry Consulting Services, Inc.
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608-221-4889 (fax)

CHAIN OF CUSTODY

Lab Work Order #:

Project Number:
Project Name:
Project Location:
Turn Around (circle one): Normal Rush
If Rush, Report Due Date:
Sampled By (Print):

Analyses Requested
Preservation Codes

Mail Report To:
Company:
Address:
E-mail Address:
Invoice To:
Company:
Address:

Sample Description	Collection Date	Collection Time	Matrix	Total # of Containers	VOC's	Dioxane					Comments	Lab ID	Lab Receipt Time
B-26 (16'-20')	4-14-09	1607	GW	3	X						T091602-11		As Sampled
B-22 (18-23)	4/14/09	1720	GW	4	X	X					-12		
B-22 (40-44)	4/14/09	1625	GW	4	X	X					-13		

4/14/09

Preservation Codes
A=None B=HCL C=H_2SO_4
D=HNO_3 E=EnCore F=Methanol
G=NaOH O=Other (Indicate)

Relinquished By: [signature] Date: 4/14/09 Time: 17:30
Relinquished By: Date: Time:

Received By: [signature] Date: 4/14/9 Time: 17:30
Received By: Date: Time:

Matrix Codes
A=Air S=Soil W=Water O=Other

Custody Seal: Present/Absent Intact/Not Intact Seal #'s
Shipped Via:

Receipt Temp:
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CHAIN OF CUSTODY

Lab Work Order #:

Project Number:

Project Name:

Project Location:

Turn Around (circle one): Normal Rush

If Rush, Report Due Date:

Sampled By (Print):

Analyses Requested

Preservation Codes

Mail Report To:

Company:

Address:

E-mail Address:

Invoice To:

Company:

Address:

Sample Description	Collection Date	Collection Time	Matrix	Total # of Containers	VOC's	Dioxane					Comments	Lab ID	Lab Receipt Time
B-20 (18'-22')	4-15-09	0905	GW	3	X						T091603-01	AE	Sampled
B-20 (8'-12')	4-15-09	0940	GW	3	X						-02		
B-32B (8.5-10.5)	4-15-09	0955	GW	3	X						-03		
B21 (13-17')	4/15/09	~~1026~~ 1006	GW	4	X	X					-04		
B-21 (6-10')	4/15/09	1000	GW	4	X	X					-05		
B-27B (8-10')	4/15/09	1145	GW	3	X						-06		
B-33 (4-8')	4/15	12:45	GW	4	X	X					-07		
B-33 (17-21')	4/15	12:15	GW	4	X	X					-08		
DUP-03	4/15	—	GW	4	X	X					-09		
B-19 (29-33')	4-15-09	1317	GW	3	X						-10		

Preservation Codes
A=None B=HCL C=H_2SO_4
D=HNO_3 E=EnCore F=Methanol
G=NaOH O=Other (Indicate)

Relinquished By: Amy Wirt Date: 4/15 Time: 18:00 Received By: Date: 4/15 Time: 1800

Relinquished By: Date: Time: Received By: Date: Time:

Matrix Codes
A=Air S=Soil W=Water O=Other

Custody Seal: Present/Absent Intact/Not Intact Seal #'s

Shipped Via:

Receipt Temp:

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CHAIN OF CUSTODY

Lab Work Order #:

Project Number:

Project Name:

Project Location:

Turn Around (circle one): Normal Rush

If Rush, Report Due Date:

Sampled By (Print):

Analyses Requested

Preservation Codes

Mail Report To:

Company:

Address:

E-mail Address:

Invoice To:

Company:

Address:

Sample Description	Collection Date	Collection Time	Matrix	Total # of Containers	VOC's	1,4 Dioxane					Comments	Lab ID	Lab Receipt Time
B-19 (12-16')	4-15-09	1415	GW	3	X						T091603-11		As sampled
B-23B (14-16)	4/15/09	1546	GW	3	X						-12		
NS-3 (37-41')	4/15/9	1620	GW	3	X						-13		
SS4 (45-49')	"	15:50	GW	4	X	X					-14		
SS-1 (24-28')	"	16:30	GW	4	X	X					-15		
SS-1	"	16:40	S	5	X	X					-16		
NS-3 (16'-20')	"	1655	GW	3	X						-17		

Preservation Codes
A=None B=HCL C=H_2SO_4
D=HNO_3 E=EnCore F=Methanol
G=NaOH O=Other (Indicate)

Matrix Codes
A=Air S=Soil W=Water O=Other

	Relinquished By:	Date:	Time:	Received By:	Date:	Time:
	[signature]	4/15	1730	[signature]	4/15/9	17:30
	Relinquished By:	Date:	Time:	Received By:	Date:	Time:

Custody Seal: Present/Absent Intact/Not Intact Seal #'s

Shipped Via:

Receipt Temp:

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CHAIN OF CUSTODY

Lab Work Order #:

Project Number:
Project Name:
Project Location:
Turn Around (circle one): Normal Rush
If Rush, Report Due Date:
Sampled By (Print):

Analyses Requested
Preservation Codes

Mail Report To:
Company:
Address:
E-mail Address:
Invoice To:
Company:
Address:

Sample Description	Collection Date	Collection Time	Matrix	Total # of Containers	VOC	Dioxane					Comments	Lab ID	Lab Receipt Time
NS-4 (8'-12')	4-16-09	0805	S	2	X						T091604-01		As Sampled
NS-4 (32'-36')	"	0853	GW	3	X						-02		
NS-4 (14'-18')	"	0933	GW	3	X						-03		
B-11 (29-33')	"	10:00	GW	3	X						-04		
DUP-04	"	—	GW	4	X	X					-05		
B-24B (5-7')	4/16/09	10:35	GW	4	X	X					-06		
B-12 (24-28')	4/16	11:50	GW	3	X						-07		
DUP-05	4/16	—	GW	3	X						-08		
SS-2 (8'-12')	4/16	1153	S	4	X	X					-09		
SS-2 (16'-20')	4/16	1157	S	4	X	X					-10		

Preservation Codes
A=None B=HCL C=H_2SO_4
D=HNO_3 E=EnCore F=Methanol
G=NaOH O=Other (Indicate)

Relinquished By: Mary Ann Date: 4/16 Time: 1800
Relinquished By: Date: Time:

Received By: Erin Moe Date: 4/16/09 Time: 18:05
Received By: Date: Time:

Matrix Codes
A=Air S=Soil W=Water O=Other

Custody Seal: Present/Absent Intact/Not Intact Seal #'s
Shipped Via:

Receipt Temp:
Temp Blank Y N

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Madison, WI 53718
608-221-8700 (phone)
608-221-4889 (fax)

CHAIN OF CUSTODY

Lab Work Order #:

Project Number:
Project Name:
Project Location:
Turn Around (circle one): Normal Rush
If Rush, Report Due Date:
Sampled By (Print):

Analyses Requested
Preservation Codes

Mail Report To:
Company:
Address:
E-mail Address:
Invoice To:
Company:
Address:

Sample Description	Collection Date	Collection Time	Matrix	Total # of Containers	VOC	Dioxins					Comments	Lab ID	Lab Receipt Time
Dup-01	4-16	—	S	4	X	X					T091604-11		As Sampled
SS-2 (42'-46')	4-16	1345	GW	4	X	X					-12		
SS-2 (20'-24')	4/16	1415	GW	4	X	X					-13		
B-10 (24-28')	4/16	1430	GW	3	X	X					-14		
B-28B (16-18')	4/16	1500	GW	4	X	X					-15		
SS-3 (8-12')	4/16	1533	S	4	X	X					-16		
SS-3 (16-20')	4/16	1550	S	4	X	X					-17		
SS-3 (20-24')	4/16	1620	GW	4	X	X					-18		
B13 (46-50)	4/16	1745	GW	3	X						-19		

Preservation Codes
A=None B=HCL C=H_2SO_4
D=HNO_3 E=EnCore F=Methanol
G=NaOH O=Other (Indicate)

Relinquished By: Mary Ann — Date: 4/16 — Time: 1800
Relinquished By: — Date: — Time:

Received By: — Date: 4/16/09 — Time: 18:05
Received By: — Date: — Time:

Matrix Codes
A=Air S=Soil W=Water O=Other

Custody Seal: Present/Absent Intact/Not Intact Seal #'s
Shipped Via:

Receipt Temp:
Temp Blank Y N

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608-221-4889 (fax)

CHAIN OF CUSTODY

Lab Work Order #:

Project Number:

Project Name:

Project Location:

Turn Around (circle one): Normal Rush

If Rush, Report Due Date:

Sampled By (Print):

Analyses Requested

Preservation Codes

VOC

Mail Report To:

Company:

Address:

E-mail Address:

Invoice To:

Company:

Address:

Sample Description	Collection Date	Collection Time	Matrix	Total # of Containers	VOC						Comments	Lab ID	Lab Receipt Time
NS-2 (0-4')	4-16	1753	S	~~3~~ 4	X						T091604-20		As Sampled
NS-2 (8-12')	4-16	1745	S	4	X						-21		↓

Preservation Codes
A=None B=HCL C=H_2SO_4
D=HNO_3 E=EnCore F=Methanol
G=NaOH O=Other (Indicate)

Relinquished By: Mary Lutz — Date: 4/16 — Time: 1800

Relinquished By: — Date: — Time:

Received By: — Date: 4/16/9 — Time: 18:05

Received By: — Date: — Time:

Matrix Codes
A=Air S=Soil W=Water O=Other

Custody Seal: Present/Absent Intact/Not Intact Seal #'s

Shipped Via:

Receipt Temp:

Temp Blank Y N

US EPA ARCHIVE DOCUMENT

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608-221-4889 (fax)

CHAIN OF CUSTODY

Lab Work Order #:

Project Number:
Project Name:
Project Location:
Turn Around (circle one): Normal Rush
If Rush, Report Due Date:
Sampled By (Print):

Analyses Requested
Preservation Codes

Mail Report To:
Company:
Address:
E-mail Address:
Invoice To:
Company:
Address:

Sample Description	Collection Date	Collection Time	Matrix	Total # of Containers	VOC	Dioxane					Comments	Lab ID	Lab Receipt Time
NS-2 (20-24')	4-17	0747	GW	3	X						T09605-01		Sampled
B13 (29-33)	4/17	840	GW	3	X						-02		
NS-1 (20-24')	4-17	1011	GW	3	X						-03		
NS-1 (0-4')	4-17	0920	S	4	X	X					-04		
NS-1 (16-20')	4-17	0925	S	4	X	X					-05		
B-25 (7-11)	4/17	1120	GW	3	X	X					-06		
B-25 (31-35)	4/17	1200	GW	4	X	X					-07		
DUP-026	4/17		GW	4	X	X					-08		
SS-4 (22-24)	4/17	1257	GW	4	X	X					-09		
SS-4 (12-16)	4/17	12:25	S	5	X	X					-10		

Preservation Codes
A=None B=HCL C=H_2SO_4
D=HNO_3 E=EnCore F=Methanol
G=NaOH O=Other (Indicate)

Relinquished By: [signature] Date: 4/17 Time: 13:20
Relinquished By: Date: Time:

Received By: [signature] Date: 4/17/09 Time: 13:25
Received By: Date: Time:

Matrix Codes
A=Air S=Soil W=Water O=Other

Custody Seal: Present/Absent Intact/Not Intact Seal #'s
Shipped Via:

Receipt Temp:
Temp Blank Y N

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Rev. 11/08

Environmental Chemistry Consulting Services, Inc.
2525 Advance Road
Madison, WI 53718
608-221-8700 (phone)
608-221-4889 (fax)

CHAIN OF CUSTODY

Lab Work Order #:

Project Number:
Project Name:
Project Location:
Turn Around (circle one): Normal Rush
If Rush, Report Due Date:
Sampled By (Print):

Analyses Requested
Preservation Codes

Mail Report To:
Company:
Address:
E-mail Address:
Invoice To:
Company:
Address:

Sample Description	Collection Date	Collection Time	Matrix	Total # of Containers	VOC	Dioxins					Comments	Lab ID	Lab Receipt Time
SS-4 (8-12)	4/17	1220	S	5	X	X					T091605-11	AS	sample
SS-5 (3-4)	4/17	1410	S	5	X	X					-12		
SS-5 (12-13)	4/17	1415	S	5	X	X					-13		
SS-6 (5-7)	4/17	1435	S	5	X	X					-14		
DUP-02	4/17		S	5	X	X					-15		
SS-6 (23-27)	4/17	1511	GW	4	X	X					-16		
SS-5 (20-21)	4/17	15:40	S	5	X	X					-17		
SS-5 (22-24)	4/17	1635	GW	4	X	X					-18		

Preservation Codes
A=None B=HCL C=H_2SO_4
D=HNO_3 E=EnCore F=Methanol
G=NaOH O=Other (Indicate)

Relinquished By: [signature] Date: 4/17/09 Time: 16:45
Relinquished By: Date: Time:

Received By: [signature] Date: 4/17/9 Time: 16:50
Received By: Date: Time:

Matrix Codes
A=Air S=Soil W=Water O=Other

Custody Seal: Present/Absent Intact/Not Intact Seal #'s
Shipped Via:

Receipt Temp:
Temp Blank Y N

Environmental Chemistry Consulting Services, Inc.
2525 Advance Road
Madison, WI 53718
608-221-8700 (phone)
608-221-4889 (fax)

CHAIN OF CUSTODY

Lab Work Order #:

Project Number:

Project Name:

Project Location:

Turn Around (circle one): Normal Rush

If Rush, Report Due Date:

Sampled By (Print):

Analyses Requested

Preservation Codes

Mail Report To:

Company:

Address:

E-mail Address:

Invoice To:

Company:

Address:

Sample Description	Collection Date	Collection Time	Matrix	Total # of Containers	VOC's	Dioxane					Comments	Lab ID	Lab Receipt Time
SS-7 (21'-22')	4-20	0855	S	5	X	X					T09605-01 4/20/9	A	Sample
SS-7 (22'-26')	4-20	0921	GW	4	X	X					-02		
B-35 (5-9')	4/20	10:00	GW	4	X	X					-03		
B-35 (30-34')	4/20	9:30	GW	4	X	X					-04		
DUP-07	4/20	—	GW	4	X	X					-05		
B17 (24-28')	4/20	12:05	GW	4	X	X					-06		
B-34 (41'-45')	4/20	1124	GW	3	X						-07		
B-34 (14'-18')	4-20	1213	GW	3	X						-08		
MW-1S	4/20	1155	GW	4	X	X					-09		
MW-3S	4/20	1044	GW	3	X						-10		

Preservation Codes
A=None B=HCL C=H_2SO_4
D=HNO_3 E=EnCore F=Methanol
G=NaOH O=Other (Indicate)

Relinquished By:	Date:	Time:	Received By:	Date:	Time:
	4/20/09	1335		4/20/9	13:40
Relinquished By:	Date:	Time:	Received By:	Date:	Time:

Matrix Codes
A=Air S=Soil W=Water O=Other

Custody Seal: Present/Absent Intact/Not Intact Seal #'s

Shipped Via:

Receipt Temp:

Temp Blank Y N

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2525 Advance Road
Madison, WI 53718
608-221-8700 (phone)
608-221-4889 (fax)

CHAIN OF CUSTODY

Lab Work Order #:

Project Number:

Project Name:

Project Location:

Turn Around (circle one): Normal Rush

If Rush, Report Due Date:

Sampled By (Print):

Analyses Requested

Preservation Codes

Mail Report To:

Company:

Address:

E-mail Address:

Invoice To:

Company:

Address:

Sample Description	Collection Date	Collection Time	Matrix	Total # of Containers	VOC	Dioxane					Comments	Lab ID	Lab Receipt Time
MW-4S	4/20	1008	GW	3	X						TO 91705 - 11 (701 on 4/20/19)	As Sampled	
MW-5S	4/20	1129	GW	4	X	X					-12		
MW-8S	4/20	1308	GW	3	X						-13		
MW-9S	4/20	1124	GW	4	X	X					-14		
Dup-08	4/20	—	GW	3	X						-15		
NS-05 (20-24')	4/20	1502	GW	3	X						-16		
NS-05 (12-14')	4/20	1445	S	4	X						-17		
NS-06 (22-24')	4/20	1521	GW	3	X						-18		
NS-06 (2-3')	4/20	1440	S	4	X						-19		
NS-06 (23-24')	4/20	1445	S	4	X						-20		

Preservation Codes
A=None B=HCL C=H_2SO_4
D=HNO_3 E=EnCore F=Methanol
G=NaOH O=Other (Indicate)

Relinquished By: [signature] Date: 4/20/19 Time: 1535

Relinquished By: Date: Time:

Received By: [signature] Date: 4/20/19 Time: 1540

Received By: Date: Time:

Matrix Codes
A=Air S=Soil W=Water O=Other

Custody Seal: Present/Absent Intact/Not Intact Seal #'s

Shipped Via:

Receipt Temp:

Temp Blank Y N

Environmental Chemistry Consulting Services, Inc.
2525 Advance Road
Madison, WI 53718
608-221-8700 (phone)
608-221-4889 (fax)

CHAIN OF CUSTODY

Lab Work Order #:

Project Number:
Project Name:
Project Location:
Turn Around (circle one): Normal Rush
If Rush, Report Due Date:
Sampled By (Print):

Analyses Requested
Preservation Codes

Mail Report To:
Company:
Address:
E-mail Address:
Invoice To:
Company:
Address:

Sample Description	Collection Date	Collection Time	Matrix	Total # of Containers	VOC	Dioxane					Comments	Lab ID	Lab Receipt Time
MW-02S	4/20/09	1441	GW	3	X						T091605-21	As Sampled	
MW-06S	4/20/09	1537	GW	3	X						701 -22		
MW-07S	4/20/09	1340	GW	3	X						-23		
B15 (44-48')	4/20/09	1730	GW	4	X	X					-24		
B18 (24-28')	4/20	1811	GW	4	X	X					-25		

Preservation Codes
A=None B=HCL C=H_2SO_4
D=HNO_3 E=EnCore F=Methanol
G=NaOH O=Other (Indicate)

Matrix Codes
A=Air S=Soil W=Water O=Other

Relinquished By:		Date: 4/20/09	Time: 1825	Received By:
Relinquished By:		Date:	Time:	Received By:

Custody Seal: Present/Absent Intact/Not Intact Seal #'s
Shipped Via:

Receipt Temp:
Temp Blank Y N

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2525 Advance Road
Madison, WI 53718
608-221-8700 (phone)
608-221-4889 (fax)

CHAIN OF CUSTODY

Lab Work Order #:

Project Number:
Project Name:
Project Location:
Turn Around (circle one): Normal Rush
If Rush, Report Due Date:
Sampled By (Print):

Analyses Requested
Preservation Codes

Mail Report To:
Company:
Address:
E-mail Address:
Invoice To:
Company:
Address:

Sample Description	Collection Date	Collection Time	Matrix	Total # of Containers	Diaxan	VOC					Comments	Lab ID	Lab Receipt Time
SS-8 (23'-27')	4/21	1005	GW	4	X	X					T091702-01	As Sampled	
SS-8 (19'-20')	4/21	0930	S	5	X	X					-02		
NS-07 (10-11')	4/21	1230	S	4	~~X~~	X					VOC only -03		
NS-08 (15-16')	4/21	1300	S	4		X					-04		
DUP-03	4/21	—	S	4		X					-05		
NS-07 (20-24')	4/21	1308	GW	3		X					-06		
NS-08 (20-24')	4/21	1315	GW	3		X					-07		
DUP-~~08~~ SEM 09	4/21	—	GW	3		X					-08		
NS-09 20-24	4/21	1535	GW	3		X					-09		
NS-09 (2-3)	4/21	1455	S	4		X					-10		

Preservation Codes
A=None B=HCL C=H_2SO_4
D=HNO_3 E=EnCore F=Methanol
G=NaOH O=Other (Indicate)

Relinquished By: [signature] Date: 4/21 Time: 1540
Relinquished By: [signature] Date: Time: 1540
Received By: [signature] Date: 4/21/09 Time: 15:45
Received By: Date: Time:

Matrix Codes
A=Air S=Soil W=Water O=Other

Custody Seal: Present/Absent Intact/Not Intact Seal #'s
Shipped Via:
Receipt Temp:
Temp Blank Y N

Environmental Chemistry Consulting Services, Inc.
2525 Advance Road
Madison, WI 53718
608-221-8700 (phone)
608-221-4889 (fax)

CHAIN OF CUSTODY

Lab Work Order #:

Mail Report To:
Company:
Address:
E-mail Address:

Project Number:
Project Name:
Project Location:

Analyses Requested
Preservation Codes

Turn Around (circle one): Normal Rush
If Rush, Report Due Date:
Sampled By (Print):

Invoice To:
Company:
Address:

Sample Description	Collection Date	Collection Time	Matrix	Total # of Containers	VOCs						Comments	Lab ID	Lab Receipt Time
NS-10 (8-9)	4/21	15:25	S	4	X						T091702-11	As Sampled	
NS-10 (10-11)	4/21	15:25	S	4	X						-12		
NS-10 (24-25)	4/21	1532	GW	3	X						-13		

Preservation Codes
A=None B=HCL C=H_2SO_4
D=HNO_3 E=EnCore F=Methanol
G=NaOH O=Other (Indicate)

Matrix Codes
A=Air S=Soil W=Water O=Other

Relinquished By:	Date: 4/21	Time: 1540	Received By:	Date: 4/22/09	Time: 15:40
Relinquished By:	Date:	Time:	Received By:	Date:	Time:

Custody Seal: Present/Absent Intact/Not Intact Seal #'s
Shipped Via:

Receipt Temp:
Temp Blank Y N

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May 22, 2009

RMT, Inc. - Ann Arbor Office
Attn: John Bacon
3754 Ranchero Drive
Ann Arbor, MI 48108-2771

Project: Tecumseh Products

Dear John Bacon,

Enclosed is a copy of the laboratory report, comprised of the following work order(s), for test samples received by TriMatrix Laboratories:

Work Order	Received	Description
0905290	05/18/2009	Laboratory Services

This report relates only to the sample(s), as received. Test results are in compliance with the requirements of the National Environmental Laboratory Accreditation Conference (NELAC). Any qualifications of results, including sample acceptance requirements, are explained in the Statement of Data Qualifications.

Estimates of analytical uncertainties for the test results contained within this report are available upon request.

If you have any questions or require further information, please do not hesitate to contact me.

Sincerely,

Jennifer L. Rice
Project Chemist

Enclosures(s)

5560 Corporate Exchange Court SE • Grand Rapids, MI 49512 • (616) 975-4500 • Fax (616) 942-7463

ANALYTICAL REPORT

Client:	**RMT, Inc. - Ann Arbor Office**	Work Order:	**0905290**
Project:	Tecumseh Products	Description:	Laboratory Services
Client Sample ID:	**B-37 (38.5-42.5)**	Sampled:	05/12/09 13:28
Lab Sample ID:	**0905290-01**	Sampled By:	B. Ritchie
Matrix:	Water	Received:	05/18/09 07:45
Unit:	mg/L	Prepared:	05/20/09 By: JDM
Dilution Factor:	1	Analyzed:	05/20/09 By: JDM
QC Batch:	0905713	Analytical Batch:	9E21025

Volatile Organic Compounds in Drinking Water by EPA Method 524.2

CAS Number	Analyte	Analytical Result	RL
71-43-2	Benzene	<0.0010	0.0010
108-86-1	Bromobenzene	<0.0010	0.0010
75-27-4	Bromodichloromethane	<0.0010	0.0010
75-25-2	Bromoform	<0.0010	0.0010
*74-83-9	Bromomethane	<0.0010	0.0010
56-23-5	Carbon Tetrachloride	<0.0010	0.0010
108-90-7	Chlorobenzene	<0.0010	0.0010
75-00-3	Chloroethane	<0.0010	0.0010
67-66-3	Chloroform	<0.0010	0.0010
74-87-3	Chloromethane	<0.0010	0.0010
95-49-8	2-Chlorotoluene	<0.0010	0.0010
106-43-4	4-Chlorotoluene	<0.0010	0.0010
124-48-1	Dibromochloromethane	<0.0010	0.0010
74-95-3	Dibromomethane	<0.0010	0.0010
95-50-1	1,2-Dichlorobenzene	<0.0010	0.0010
541-73-1	1,3-Dichlorobenzene	<0.0010	0.0010
106-46-7	1,4-Dichlorobenzene	<0.0010	0.0010
75-71-8	Dichlorodifluoromethane	<0.0010	0.0010
75-34-3	1,1-Dichloroethane	<0.0010	0.0010
107-06-2	1,2-Dichloroethane	<0.0010	0.0010
75-35-4	1,1-Dichloroethene	<0.0010	0.0010
156-59-2	cis-1,2-Dichloroethene	<0.0010	0.0010
156-60-5	trans-1,2-Dichloroethene	<0.0010	0.0010
78-87-5	1,2-Dichloropropane	<0.0010	0.0010
142-28-9	1,3-Dichloropropane	<0.0010	0.0010
594-20-7	2,2-Dichloropropane	<0.0010	0.0010
563-58-6	1,1-Dichloropropene	<0.0010	0.0010
10061-01-5	cis-1,3-Dichloropropene	<0.0010	0.0010
10061-02-6	trans-1,3-Dichloropropene	<0.0010	0.0010
100-41-4	Ethylbenzene	<0.0010	0.0010
75-09-2	Methylene Chloride	<0.0050	0.0050

Continued on next page

*See Statement of Data Qualifications

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ANALYTICAL REPORT

Client:	**RMT, Inc. - Ann Arbor Office**	Work Order:	**0905290**
Project:	Tecumseh Products	Description:	Laboratory Services
Client Sample ID:	**B-37 (38.5-42.5)**	Sampled:	05/12/09 13:28
Lab Sample ID:	**0905290-01**	Sampled By:	B. Ritchie
Matrix:	Water	Received:	05/18/09 07:45
Unit:	mg/L	Prepared:	05/20/09 By: JDM
Dilution Factor:	1	Analyzed:	05/20/09 By: JDM
QC Batch:	0905713	Analytical Batch:	9E21025

Volatile Organic Compounds in Drinking Water by EPA Method 524.2 (Continued)

CAS Number	Analyte	Analytical Result	RL
100-42-5	Styrene	<0.0010	0.0010
630-20-6	1,1,1,2-Tetrachloroethane	<0.0010	0.0010
79-34-5	1,1,2,2-Tetrachloroethane	<0.0010	0.0010
127-18-4	Tetrachloroethene	<0.0010	0.0010
108-88-3	Toluene	**0.0013**	0.0010
120-82-1	1,2,4-Trichlorobenzene	<0.0010	0.0010
71-55-6	1,1,1-Trichloroethane	<0.0010	0.0010
79-00-5	1,1,2-Trichloroethane	<0.0010	0.0010
79-01-6	Trichloroethene	<0.0010	0.0010
75-69-4	Trichlorofluoromethane	<0.0010	0.0010
96-18-4	1,2,3-Trichloropropane	<0.0010	0.0010
75-01-4	Vinyl Chloride	<0.0010	0.0010
1330-20-7	Xylene (Total)	<0.0030	0.0030

Surrogates:	***% Recovery***	***Control Limits***
Dibromofluoromethane	99	*82-118*
1,2-Dichloroethane-d4	96	*75-128*
Toluene-d8	99	*88-108*
4-Bromofluorobenzene	95	*82-114*

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ANALYTICAL REPORT

Client:	**RMT, Inc. - Ann Arbor Office**	Work Order:	**0905290**
Project:	Tecumseh Products	Description:	Laboratory Services
Client Sample ID:	**B-38 (15-19)**	Sampled:	05/13/09 13:03
Lab Sample ID:	**0905290-02**	Sampled By:	B. Ritchie
Matrix:	Water	Received:	05/18/09 07:45
Unit:	mg/L	Prepared:	05/20/09 By: JDM
Dilution Factor:	1	Analyzed:	05/20/09 By: JDM
QC Batch:	0905713	Analytical Batch:	9E21025

Volatile Organic Compounds in Drinking Water by EPA Method 524.2

CAS Number	Analyte	Analytical Result	RL
71-43-2	Benzene	<0.0010	0.0010
108-86-1	Bromobenzene	<0.0010	0.0010
75-27-4	Bromodichloromethane	<0.0010	0.0010
75-25-2	Bromoform	<0.0010	0.0010
*74-83-9	Bromomethane	<0.0010	0.0010
56-23-5	Carbon Tetrachloride	<0.0010	0.0010
108-90-7	Chlorobenzene	<0.0010	0.0010
75-00-3	Chloroethane	<0.0010	0.0010
67-66-3	Chloroform	<0.0010	0.0010
74-87-3	Chloromethane	<0.0010	0.0010
95-49-8	2-Chlorotoluene	<0.0010	0.0010
106-43-4	4-Chlorotoluene	<0.0010	0.0010
124-48-1	Dibromochloromethane	<0.0010	0.0010
74-95-3	Dibromomethane	<0.0010	0.0010
95-50-1	1,2-Dichlorobenzene	<0.0010	0.0010
541-73-1	1,3-Dichlorobenzene	<0.0010	0.0010
106-46-7	1,4-Dichlorobenzene	<0.0010	0.0010
75-71-8	Dichlorodifluoromethane	<0.0010	0.0010
75-34-3	1,1-Dichloroethane	<0.0010	0.0010
107-06-2	1,2-Dichloroethane	<0.0010	0.0010
75-35-4	1,1-Dichloroethene	<0.0010	0.0010
156-59-2	cis-1,2-Dichloroethene	<0.0010	0.0010
156-60-5	trans-1,2-Dichloroethene	<0.0010	0.0010
78-87-5	1,2-Dichloropropane	<0.0010	0.0010
142-28-9	1,3-Dichloropropane	<0.0010	0.0010
594-20-7	2,2-Dichloropropane	<0.0010	0.0010
563-58-6	1,1-Dichloropropene	<0.0010	0.0010
10061-01-5	cis-1,3-Dichloropropene	<0.0010	0.0010
10061-02-6	trans-1,3-Dichloropropene	<0.0010	0.0010
100-41-4	Ethylbenzene	<0.0010	0.0010
75-09-2	Methylene Chloride	<0.0050	0.0050

Continued on next page

*See Statement of Data Qualifications

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ANALYTICAL REPORT

Client:	**RMT, Inc. - Ann Arbor Office**	Work Order:	**0905290**
Project:	Tecumseh Products	Description:	Laboratory Services
Client Sample ID:	**B-38 (15-19)**	Sampled:	05/13/09 13:03
Lab Sample ID:	**0905290-02**	Sampled By:	B. Ritchie
Matrix:	Water	Received:	05/18/09 07:45
Unit:	mg/L	Prepared:	05/20/09 By: JDM
Dilution Factor:	1	Analyzed:	05/20/09 By: JDM
QC Batch:	0905713	Analytical Batch:	9E21025

Volatile Organic Compounds in Drinking Water by EPA Method 524.2 (Continued)

CAS Number	Analyte	Analytical Result	RL
100-42-5	Styrene	<0.0010	0.0010
630-20-6	1,1,1,2-Tetrachloroethane	<0.0010	0.0010
79-34-5	1,1,2,2-Tetrachloroethane	<0.0010	0.0010
127-18-4	Tetrachloroethene	<0.0010	0.0010
108-88-3	Toluene	**0.0011**	0.0010
120-82-1	1,2,4-Trichlorobenzene	<0.0010	0.0010
71-55-6	1,1,1-Trichloroethane	<0.0010	0.0010
79-00-5	1,1,2-Trichloroethane	<0.0010	0.0010
79-01-6	Trichloroethene	<0.0010	0.0010
75-69-4	Trichlorofluoromethane	<0.0010	0.0010
96-18-4	1,2,3-Trichloropropane	<0.0010	0.0010
75-01-4	Vinyl Chloride	<0.0010	0.0010
1330-20-7	Xylene (Total)	<0.0030	0.0030

Surrogates:	***% Recovery***	***Control Limits***
Dibromofluoromethane	99	*82-118*
1,2-Dichloroethane-d4	97	*75-128*
Toluene-d8	99	*88-108*
4-Bromofluorobenzene	95	*82-114*

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ANALYTICAL REPORT

Client:	**RMT, Inc. - Ann Arbor Office**	Work Order:	**0905290**
Project:	Tecumseh Products	Description:	Laboratory Services
Client Sample ID:	**B-36 (16-20)**	Sampled:	05/13/09 10:02
Lab Sample ID:	**0905290-03**	Sampled By:	B. Ritchie
Matrix:	Water	Received:	05/18/09 07:45
Unit:	mg/L	Prepared:	05/20/09 By: JDM
Dilution Factor:	1	Analyzed:	05/20/09 By: JDM
QC Batch:	0905713	Analytical Batch:	9E21025

Volatile Organic Compounds in Drinking Water by EPA Method 524.2

CAS Number	Analyte	Analytical Result	RL
71-43-2	Benzene	<0.0010	0.0010
108-86-1	Bromobenzene	<0.0010	0.0010
75-27-4	Bromodichloromethane	<0.0010	0.0010
75-25-2	Bromoform	<0.0010	0.0010
*74-83-9	Bromomethane	<0.0010	0.0010
56-23-5	Carbon Tetrachloride	<0.0010	0.0010
108-90-7	Chlorobenzene	<0.0010	0.0010
75-00-3	Chloroethane	<0.0010	0.0010
67-66-3	Chloroform	<0.0010	0.0010
74-87-3	Chloromethane	<0.0010	0.0010
95-49-8	2-Chlorotoluene	<0.0010	0.0010
106-43-4	4-Chlorotoluene	<0.0010	0.0010
124-48-1	Dibromochloromethane	<0.0010	0.0010
74-95-3	Dibromomethane	<0.0010	0.0010
95-50-1	1,2-Dichlorobenzene	<0.0010	0.0010
541-73-1	1,3-Dichlorobenzene	<0.0010	0.0010
106-46-7	1,4-Dichlorobenzene	<0.0010	0.0010
75-71-8	Dichlorodifluoromethane	**0.0010**	0.0010
75-34-3	1,1-Dichloroethane	<0.0010	0.0010
107-06-2	1,2-Dichloroethane	<0.0010	0.0010
75-35-4	1,1-Dichloroethene	<0.0010	0.0010
156-59-2	cis-1,2-Dichloroethene	<0.0010	0.0010
156-60-5	trans-1,2-Dichloroethene	<0.0010	0.0010
78-87-5	1,2-Dichloropropane	<0.0010	0.0010
142-28-9	1,3-Dichloropropane	<0.0010	0.0010
594-20-7	2,2-Dichloropropane	<0.0010	0.0010
563-58-6	1,1-Dichloropropene	<0.0010	0.0010
10061-01-5	cis-1,3-Dichloropropene	<0.0010	0.0010
10061-02-6	trans-1,3-Dichloropropene	<0.0010	0.0010
100-41-4	Ethylbenzene	<0.0010	0.0010
75-09-2	Methylene Chloride	<0.0050	0.0050

Continued on next page

*See Statement of Data Qualifications

ANALYTICAL REPORT

Client:	**RMT, Inc. - Ann Arbor Office**	Work Order:	**0905290**
Project:	Tecumseh Products	Description:	Laboratory Services
Client Sample ID:	**B-36 (16-20)**	Sampled:	05/13/09 10:02
Lab Sample ID:	**0905290-03**	Sampled By:	B. Ritchie
Matrix:	Water	Received:	05/18/09 07:45
Unit:	mg/L	Prepared:	05/20/09 By: JDM
Dilution Factor:	1	Analyzed:	05/20/09 By: JDM
QC Batch:	0905713	Analytical Batch:	9E21025

Volatile Organic Compounds in Drinking Water by EPA Method 524.2 (Continued)

CAS Number	Analyte	Analytical Result	RL
100-42-5	Styrene	<0.0010	0.0010
630-20-6	1,1,1,2-Tetrachloroethane	<0.0010	0.0010
79-34-5	1,1,2,2-Tetrachloroethane	<0.0010	0.0010
127-18-4	Tetrachloroethene	<0.0010	0.0010
108-88-3	Toluene	<0.0010	0.0010
120-82-1	1,2,4-Trichlorobenzene	<0.0010	0.0010
71-55-6	1,1,1-Trichloroethane	<0.0010	0.0010
79-00-5	1,1,2-Trichloroethane	<0.0010	0.0010
79-01-6	Trichloroethene	<0.0010	0.0010
75-69-4	Trichlorofluoromethane	<0.0010	0.0010
96-18-4	1,2,3-Trichloropropane	<0.0010	0.0010
75-01-4	Vinyl Chloride	<0.0010	0.0010
1330-20-7	Xylene (Total)	<0.0030	0.0030

Surrogates:	***% Recovery***	***Control Limits***
Dibromofluoromethane	98	*82-118*
1,2-Dichloroethane-d4	98	*75-128*
Toluene-d8	98	*88-108*
4-Bromofluorobenzene	96	*82-114*

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ANALYTICAL REPORT

Client:	**RMT, Inc. - Ann Arbor Office**	Work Order:	**0905290**
Project:	Tecumseh Products	Description:	Laboratory Services
Client Sample ID:	**B-39 (15-19)**	Sampled:	05/13/09 15:32
Lab Sample ID:	**0905290-04**	Sampled By:	B. Ritchie
Matrix:	Water	Received:	05/18/09 07:45
Unit:	mg/L	Prepared:	05/20/09 By: JDM
Dilution Factor:	1	Analyzed:	05/20/09 By: JDM
QC Batch:	0905713	Analytical Batch:	9E21025

Volatile Organic Compounds in Drinking Water by EPA Method 524.2

CAS Number	Analyte	Analytical Result	RL
71-43-2	Benzene	<0.0010	0.0010
108-86-1	Bromobenzene	<0.0010	0.0010
75-27-4	Bromodichloromethane	<0.0010	0.0010
75-25-2	Bromoform	<0.0010	0.0010
*74-83-9	Bromomethane	<0.0010	0.0010
56-23-5	Carbon Tetrachloride	<0.0010	0.0010
108-90-7	Chlorobenzene	<0.0010	0.0010
75-00-3	Chloroethane	<0.0010	0.0010
67-66-3	Chloroform	<0.0010	0.0010
74-87-3	Chloromethane	<0.0010	0.0010
95-49-8	2-Chlorotoluene	<0.0010	0.0010
106-43-4	4-Chlorotoluene	<0.0010	0.0010
124-48-1	Dibromochloromethane	<0.0010	0.0010
74-95-3	Dibromomethane	<0.0010	0.0010
95-50-1	1,2-Dichlorobenzene	<0.0010	0.0010
541-73-1	1,3-Dichlorobenzene	<0.0010	0.0010
106-46-7	1,4-Dichlorobenzene	<0.0010	0.0010
75-71-8	Dichlorodifluoromethane	<0.0010	0.0010
75-34-3	1,1-Dichloroethane	<0.0010	0.0010
107-06-2	1,2-Dichloroethane	<0.0010	0.0010
75-35-4	1,1-Dichloroethene	<0.0010	0.0010
156-59-2	cis-1,2-Dichloroethene	<0.0010	0.0010
156-60-5	trans-1,2-Dichloroethene	<0.0010	0.0010
78-87-5	1,2-Dichloropropane	<0.0010	0.0010
142-28-9	1,3-Dichloropropane	<0.0010	0.0010
594-20-7	2,2-Dichloropropane	<0.0010	0.0010
563-58-6	1,1-Dichloropropene	<0.0010	0.0010
10061-01-5	cis-1,3-Dichloropropene	<0.0010	0.0010
10061-02-6	trans-1,3-Dichloropropene	<0.0010	0.0010
100-41-4	Ethylbenzene	<0.0010	0.0010
75-09-2	Methylene Chloride	<0.0050	0.0050

Continued on next page

*See Statement of Data Qualifications

ANALYTICAL REPORT

Client:	**RMT, Inc. - Ann Arbor Office**	Work Order:	**0905290**
Project:	Tecumseh Products	Description:	Laboratory Services
Client Sample ID:	**B-39 (15-19)**	Sampled:	05/13/09 15:32
Lab Sample ID:	**0905290-04**	Sampled By:	B. Ritchie
Matrix:	Water	Received:	05/18/09 07:45
Unit:	mg/L	Prepared:	05/20/09 By: JDM
Dilution Factor:	1	Analyzed:	05/20/09 By: JDM
QC Batch:	0905713	Analytical Batch:	9E21025

Volatile Organic Compounds in Drinking Water by EPA Method 524.2 (Continued)

CAS Number	Analyte	Analytical Result	RL
100-42-5	Styrene	<0.0010	0.0010
630-20-6	1,1,1,2-Tetrachloroethane	<0.0010	0.0010
79-34-5	1,1,2,2-Tetrachloroethane	<0.0010	0.0010
127-18-4	Tetrachloroethene	<0.0010	0.0010
108-88-3	Toluene	<0.0010	0.0010
120-82-1	1,2,4-Trichlorobenzene	<0.0010	0.0010
71-55-6	1,1,1-Trichloroethane	<0.0010	0.0010
79-00-5	1,1,2-Trichloroethane	<0.0010	0.0010
79-01-6	Trichloroethene	<0.0010	0.0010
75-69-4	Trichlorofluoromethane	<0.0010	0.0010
96-18-4	1,2,3-Trichloropropane	<0.0010	0.0010
75-01-4	Vinyl Chloride	<0.0010	0.0010
1330-20-7	Xylene (Total)	<0.0030	0.0030

Surrogates:	***% Recovery***	***Control Limits***
Dibromofluoromethane	100	*82-118*
1,2-Dichloroethane-d4	98	*75-128*
Toluene-d8	99	*88-108*
4-Bromofluorobenzene	95	*82-114*

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ANALYTICAL REPORT

Client:	**RMT, Inc. - Ann Arbor Office**	Work Order:	**0905290**
Project:	Tecumseh Products	Description:	Laboratory Services
Client Sample ID:	**B-36 (12-16)**	Sampled:	05/13/09 09:20
Lab Sample ID:	**0905290-05**	Sampled By:	B. Ritchie
Matrix:	Water	Received:	05/18/09 07:45
Unit:	mg/L	Prepared:	05/20/09 By: JDM
Dilution Factor:	1	Analyzed:	05/20/09 By: JDM
QC Batch:	0905713	Analytical Batch:	9E21025

Volatile Organic Compounds in Drinking Water by EPA Method 524.2

CAS Number	Analyte	Analytical Result	RL
71-43-2	Benzene	<0.0010	0.0010
108-86-1	Bromobenzene	<0.0010	0.0010
75-27-4	Bromodichloromethane	<0.0010	0.0010
75-25-2	Bromoform	<0.0010	0.0010
*74-83-9	Bromomethane	<0.0010	0.0010
56-23-5	Carbon Tetrachloride	<0.0010	0.0010
108-90-7	Chlorobenzene	<0.0010	0.0010
75-00-3	Chloroethane	<0.0010	0.0010
67-66-3	Chloroform	<0.0010	0.0010
74-87-3	Chloromethane	<0.0010	0.0010
95-49-8	2-Chlorotoluene	<0.0010	0.0010
106-43-4	4-Chlorotoluene	<0.0010	0.0010
124-48-1	Dibromochloromethane	<0.0010	0.0010
74-95-3	Dibromomethane	<0.0010	0.0010
95-50-1	1,2-Dichlorobenzene	<0.0010	0.0010
541-73-1	1,3-Dichlorobenzene	<0.0010	0.0010
106-46-7	1,4-Dichlorobenzene	<0.0010	0.0010
75-71-8	Dichlorodifluoromethane	<0.0010	0.0010
75-34-3	1,1-Dichloroethane	<0.0010	0.0010
107-06-2	1,2-Dichloroethane	<0.0010	0.0010
75-35-4	1,1-Dichloroethene	<0.0010	0.0010
156-59-2	cis-1,2-Dichloroethene	<0.0010	0.0010
156-60-5	trans-1,2-Dichloroethene	<0.0010	0.0010
78-87-5	1,2-Dichloropropane	<0.0010	0.0010
142-28-9	1,3-Dichloropropane	<0.0010	0.0010
594-20-7	2,2-Dichloropropane	<0.0010	0.0010
563-58-6	1,1-Dichloropropene	<0.0010	0.0010
10061-01-5	cis-1,3-Dichloropropene	<0.0010	0.0010
10061-02-6	trans-1,3-Dichloropropene	<0.0010	0.0010
100-41-4	Ethylbenzene	<0.0010	0.0010
75-09-2	Methylene Chloride	<0.0050	0.0050

Continued on next page

*See Statement of Data Qualifications

ANALYTICAL REPORT

Client:	**RMT, Inc. - Ann Arbor Office**	Work Order:	**0905290**
Project:	Tecumseh Products	Description:	Laboratory Services
Client Sample ID:	**B-36 (12-16)**	Sampled:	05/13/09 09:20
Lab Sample ID:	**0905290-05**	Sampled By:	B. Ritchie
Matrix:	Water	Received:	05/18/09 07:45
Unit:	mg/L	Prepared:	05/20/09 By: JDM
Dilution Factor:	1	Analyzed:	05/20/09 By: JDM
QC Batch:	0905713	Analytical Batch:	9E21025

Volatile Organic Compounds in Drinking Water by EPA Method 524.2 (Continued)

CAS Number	Analyte	Analytical Result	RL
100-42-5	Styrene	<0.0010	0.0010
630-20-6	1,1,1,2-Tetrachloroethane	<0.0010	0.0010
79-34-5	1,1,2,2-Tetrachloroethane	<0.0010	0.0010
127-18-4	Tetrachloroethene	<0.0010	0.0010
108-88-3	Toluene	<0.0010	0.0010
120-82-1	1,2,4-Trichlorobenzene	<0.0010	0.0010
71-55-6	1,1,1-Trichloroethane	<0.0010	0.0010
79-00-5	1,1,2-Trichloroethane	<0.0010	0.0010
79-01-6	Trichloroethene	<0.0010	0.0010
75-69-4	Trichlorofluoromethane	<0.0010	0.0010
96-18-4	1,2,3-Trichloropropane	<0.0010	0.0010
75-01-4	Vinyl Chloride	<0.0010	0.0010
1330-20-7	Xylene (Total)	<0.0030	0.0030

Surrogates:	***% Recovery***	***Control Limits***
Dibromofluoromethane	99	*82-118*
1,2-Dichloroethane-d4	97	*75-128*
Toluene-d8	99	*88-108*
4-Bromofluorobenzene	94	*82-114*

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ANALYTICAL REPORT

Client:	**RMT, Inc. - Ann Arbor Office**	Work Order:	**0905290**
Project:	Tecumseh Products	Description:	Laboratory Services
Client Sample ID:	**B-38 (36-40)**	Sampled:	05/13/09 12:40
Lab Sample ID:	**0905290-06**	Sampled By:	B. Ritchie
Matrix:	Water	Received:	05/18/09 07:45
Unit:	mg/L	Prepared:	05/20/09 By: JDM
Dilution Factor:	1	Analyzed:	05/20/09 By: JDM
QC Batch:	0905713	Analytical Batch:	9E21025

Volatile Organic Compounds in Drinking Water by EPA Method 524.2

CAS Number	Analyte	Analytical Result	RL
71-43-2	Benzene	<0.0010	0.0010
108-86-1	Bromobenzene	<0.0010	0.0010
75-27-4	Bromodichloromethane	<0.0010	0.0010
75-25-2	Bromoform	<0.0010	0.0010
*74-83-9	Bromomethane	<0.0010	0.0010
56-23-5	Carbon Tetrachloride	<0.0010	0.0010
108-90-7	Chlorobenzene	<0.0010	0.0010
75-00-3	Chloroethane	<0.0010	0.0010
67-66-3	Chloroform	<0.0010	0.0010
74-87-3	Chloromethane	<0.0010	0.0010
95-49-8	2-Chlorotoluene	<0.0010	0.0010
106-43-4	4-Chlorotoluene	<0.0010	0.0010
124-48-1	Dibromochloromethane	<0.0010	0.0010
74-95-3	Dibromomethane	<0.0010	0.0010
95-50-1	1,2-Dichlorobenzene	<0.0010	0.0010
541-73-1	1,3-Dichlorobenzene	<0.0010	0.0010
106-46-7	1,4-Dichlorobenzene	<0.0010	0.0010
75-71-8	Dichlorodifluoromethane	<0.0010	0.0010
75-34-3	1,1-Dichloroethane	<0.0010	0.0010
107-06-2	1,2-Dichloroethane	<0.0010	0.0010
75-35-4	1,1-Dichloroethene	<0.0010	0.0010
156-59-2	cis-1,2-Dichloroethene	<0.0010	0.0010
156-60-5	trans-1,2-Dichloroethene	<0.0010	0.0010
78-87-5	1,2-Dichloropropane	<0.0010	0.0010
142-28-9	1,3-Dichloropropane	<0.0010	0.0010
594-20-7	2,2-Dichloropropane	<0.0010	0.0010
563-58-6	1,1-Dichloropropene	<0.0010	0.0010
10061-01-5	cis-1,3-Dichloropropene	<0.0010	0.0010
10061-02-6	trans-1,3-Dichloropropene	<0.0010	0.0010
100-41-4	Ethylbenzene	<0.0010	0.0010
75-09-2	Methylene Chloride	<0.0050	0.0050

Continued on next page

*See Statement of Data Qualifications

ANALYTICAL REPORT

Client:	**RMT, Inc. - Ann Arbor Office**	Work Order:	**0905290**
Project:	Tecumseh Products	Description:	Laboratory Services
Client Sample ID:	**B-38 (36-40)**	Sampled:	05/13/09 12:40
Lab Sample ID:	**0905290-06**	Sampled By:	B. Ritchie
Matrix:	Water	Received:	05/18/09 07:45
Unit:	mg/L	Prepared:	05/20/09 By: JDM
Dilution Factor:	1	Analyzed:	05/20/09 By: JDM
QC Batch:	0905713	Analytical Batch:	9E21025

Volatile Organic Compounds in Drinking Water by EPA Method 524.2 (Continued)

CAS Number	Analyte	Analytical Result	RL
100-42-5	Styrene	<0.0010	0.0010
630-20-6	1,1,1,2-Tetrachloroethane	<0.0010	0.0010
79-34-5	1,1,2,2-Tetrachloroethane	<0.0010	0.0010
127-18-4	Tetrachloroethene	<0.0010	0.0010
108-88-3	Toluene	<0.0010	0.0010
120-82-1	1,2,4-Trichlorobenzene	<0.0010	0.0010
71-55-6	1,1,1-Trichloroethane	<0.0010	0.0010
79-00-5	1,1,2-Trichloroethane	<0.0010	0.0010
79-01-6	Trichloroethene	<0.0010	0.0010
75-69-4	Trichlorofluoromethane	<0.0010	0.0010
96-18-4	1,2,3-Trichloropropane	<0.0010	0.0010
75-01-4	Vinyl Chloride	<0.0010	0.0010
1330-20-7	Xylene (Total)	<0.0030	0.0030

Surrogates:	***% Recovery***	***Control Limits***
Dibromofluoromethane	100	*82-118*
1,2-Dichloroethane-d4	99	*75-128*
Toluene-d8	100	*88-108*
4-Bromofluorobenzene	95	*82-114*

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ANALYTICAL REPORT

Client:	**RMT, Inc. - Ann Arbor Office**	Work Order:	**0905290**
Project:	Tecumseh Products	Description:	Laboratory Services
Client Sample ID:	**MW-14S**	Sampled:	05/14/09 10:15
Lab Sample ID:	**0905290-07**	Sampled By:	B. Ritchie
Matrix:	Water	Received:	05/18/09 07:45
Unit:	ug/L	Prepared:	05/19/09 By: DJM
Dilution Factor:	1	Analyzed:	05/20/09 By: DMC
QC Batch:	0905585	Analytical Batch:	9E20029

Semivolatile Organic Compounds by EPA Method 8270C

CAS Number	Analyte	Analytical Result	RL
123-91-1	1,4-Dioxane	<3.0	3.0

Surrogates:	*% Recovery*	*Control Limits*
Nitrobenzene-d5	83	*31-123*
2-Fluorobiphenyl	83	*25-113*
o-Terphenyl	85	*42-125*

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ANALYTICAL REPORT

Client:	**RMT, Inc. - Ann Arbor Office**	Work Order:	**0905290**
Project:	Tecumseh Products	Description:	Laboratory Services
Client Sample ID:	**MW-14S**	Sampled:	05/14/09 10:15
Lab Sample ID:	**0905290-07**	Sampled By:	B. Ritchie
Matrix:	Water	Received:	05/18/09 07:45
Unit:	mg/L	Prepared:	05/20/09 By: JDM
Dilution Factor:	1	Analyzed:	05/20/09 By: JDM
QC Batch:	0905713	Analytical Batch:	9E21025

Volatile Organic Compounds in Drinking Water by EPA Method 524.2

CAS Number	Analyte	Analytical Result	RL
71-43-2	Benzene	<0.0010	0.0010
108-86-1	Bromobenzene	<0.0010	0.0010
75-27-4	Bromodichloromethane	<0.0010	0.0010
75-25-2	Bromoform	<0.0010	0.0010
*74-83-9	Bromomethane	<0.0010	0.0010
56-23-5	Carbon Tetrachloride	<0.0010	0.0010
108-90-7	Chlorobenzene	<0.0010	0.0010
75-00-3	Chloroethane	<0.0010	0.0010
67-66-3	Chloroform	<0.0010	0.0010
74-87-3	Chloromethane	<0.0010	0.0010
95-49-8	2-Chlorotoluene	<0.0010	0.0010
106-43-4	4-Chlorotoluene	<0.0010	0.0010
124-48-1	Dibromochloromethane	<0.0010	0.0010
74-95-3	Dibromomethane	<0.0010	0.0010
95-50-1	1,2-Dichlorobenzene	<0.0010	0.0010
541-73-1	1,3-Dichlorobenzene	<0.0010	0.0010
106-46-7	1,4-Dichlorobenzene	<0.0010	0.0010
75-71-8	Dichlorodifluoromethane	<0.0010	0.0010
75-34-3	1,1-Dichloroethane	<0.0010	0.0010
107-06-2	1,2-Dichloroethane	<0.0010	0.0010
75-35-4	1,1-Dichloroethene	<0.0010	0.0010
156-59-2	cis-1,2-Dichloroethene	<0.0010	0.0010
156-60-5	trans-1,2-Dichloroethene	<0.0010	0.0010
78-87-5	1,2-Dichloropropane	<0.0010	0.0010
142-28-9	1,3-Dichloropropane	<0.0010	0.0010
594-20-7	2,2-Dichloropropane	<0.0010	0.0010
563-58-6	1,1-Dichloropropene	<0.0010	0.0010
10061-01-5	cis-1,3-Dichloropropene	<0.0010	0.0010
10061-02-6	trans-1,3-Dichloropropene	<0.0010	0.0010

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*See Statement of Data Qualifications

ANALYTICAL REPORT

Client:	**RMT, Inc. - Ann Arbor Office**	Work Order:	**0905290**
Project:	Tecumseh Products	Description:	Laboratory Services
Client Sample ID:	**MW-14S**	Sampled:	05/14/09 10:15
Lab Sample ID:	**0905290-07**	Sampled By:	B. Ritchie
Matrix:	Water	Received:	05/18/09 07:45
Unit:	mg/L	Prepared:	05/20/09 By: JDM
Dilution Factor:	1	Analyzed:	05/20/09 By: JDM
QC Batch:	0905713	Analytical Batch:	9E21025

Volatile Organic Compounds in Drinking Water by EPA Method 524.2 (Continued)

CAS Number	Analyte	Analytical Result	RL
100-41-4	Ethylbenzene	<0.0010	0.0010
75-09-2	Methylene Chloride	<0.0050	0.0050
100-42-5	Styrene	<0.0010	0.0010
630-20-6	1,1,1,2-Tetrachloroethane	<0.0010	0.0010
79-34-5	1,1,2,2-Tetrachloroethane	<0.0010	0.0010
127-18-4	Tetrachloroethene	<0.0010	0.0010
108-88-3	Toluene	<0.0010	0.0010
120-82-1	1,2,4-Trichlorobenzene	<0.0010	0.0010
71-55-6	1,1,1-Trichloroethane	<0.0010	0.0010
79-00-5	1,1,2-Trichloroethane	<0.0010	0.0010
79-01-6	Trichloroethene	<0.0010	0.0010
75-69-4	Trichlorofluoromethane	<0.0010	0.0010
96-18-4	1,2,3-Trichloropropane	<0.0010	0.0010
75-01-4	Vinyl Chloride	<0.0010	0.0010
1330-20-7	Xylene (Total)	<0.0030	0.0030

Surrogates:	***% Recovery***	***Control Limits***
Dibromofluoromethane	99	*82-118*
1,2-Dichloroethane-d4	98	*75-128*
Toluene-d8	99	*88-108*
4-Bromofluorobenzene	95	*82-114*

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ANALYTICAL REPORT

Client:	**RMT, Inc. - Ann Arbor Office**	Work Order:	**0905290**
Project:	Tecumseh Products	Description:	Laboratory Services
Client Sample ID:	**MW-11S**	Sampled:	05/14/09 16:00
Lab Sample ID:	**0905290-08**	Sampled By:	B. Ritchie
Matrix:	Water	Received:	05/18/09 07:45
Unit:	mg/L	Prepared:	05/20/09 By: JDM
Dilution Factor:	1	Analyzed:	05/20/09 By: JDM
QC Batch:	0905713	Analytical Batch:	9E21025

Volatile Organic Compounds in Drinking Water by EPA Method 524.2

CAS Number	Analyte	Analytical Result	RL
71-43-2	Benzene	<0.0010	0.0010
108-86-1	Bromobenzene	<0.0010	0.0010
75-27-4	Bromodichloromethane	<0.0010	0.0010
75-25-2	Bromoform	<0.0010	0.0010
*74-83-9	Bromomethane	<0.0010	0.0010
56-23-5	Carbon Tetrachloride	<0.0010	0.0010
108-90-7	Chlorobenzene	<0.0010	0.0010
75-00-3	Chloroethane	<0.0010	0.0010
67-66-3	Chloroform	<0.0010	0.0010
74-87-3	Chloromethane	<0.0010	0.0010
95-49-8	2-Chlorotoluene	<0.0010	0.0010
106-43-4	4-Chlorotoluene	<0.0010	0.0010
124-48-1	Dibromochloromethane	<0.0010	0.0010
74-95-3	Dibromomethane	<0.0010	0.0010
95-50-1	1,2-Dichlorobenzene	<0.0010	0.0010
541-73-1	1,3-Dichlorobenzene	<0.0010	0.0010
106-46-7	1,4-Dichlorobenzene	<0.0010	0.0010
75-71-8	Dichlorodifluoromethane	<0.0010	0.0010
75-34-3	1,1-Dichloroethane	<0.0010	0.0010
107-06-2	1,2-Dichloroethane	<0.0010	0.0010
75-35-4	1,1-Dichloroethene	<0.0010	0.0010
156-59-2	cis-1,2-Dichloroethene	<0.0010	0.0010
156-60-5	trans-1,2-Dichloroethene	<0.0010	0.0010
78-87-5	1,2-Dichloropropane	<0.0010	0.0010
142-28-9	1,3-Dichloropropane	<0.0010	0.0010
594-20-7	2,2-Dichloropropane	<0.0010	0.0010
563-58-6	1,1-Dichloropropene	<0.0010	0.0010
10061-01-5	cis-1,3-Dichloropropene	<0.0010	0.0010
10061-02-6	trans-1,3-Dichloropropene	<0.0010	0.0010
100-41-4	Ethylbenzene	<0.0010	0.0010
75-09-2	Methylene Chloride	<0.0050	0.0050

Continued on next page

*See Statement of Data Qualifications

ANALYTICAL REPORT

Client:	**RMT, Inc. - Ann Arbor Office**	Work Order:	**0905290**
Project:	Tecumseh Products	Description:	Laboratory Services
Client Sample ID:	**MW-11S**	Sampled:	05/14/09 16:00
Lab Sample ID:	**0905290-08**	Sampled By:	B. Ritchie
Matrix:	Water	Received:	05/18/09 07:45
Unit:	mg/L	Prepared:	05/20/09 By: JDM
Dilution Factor:	1	Analyzed:	05/20/09 By: JDM
QC Batch:	0905713	Analytical Batch:	9E21025

Volatile Organic Compounds in Drinking Water by EPA Method 524.2 (Continued)

CAS Number	Analyte	Analytical Result	RL
100-42-5	Styrene	<0.0010	0.0010
630-20-6	1,1,1,2-Tetrachloroethane	<0.0010	0.0010
79-34-5	1,1,2,2-Tetrachloroethane	<0.0010	0.0010
127-18-4	Tetrachloroethene	<0.0010	0.0010
108-88-3	Toluene	<0.0010	0.0010
120-82-1	1,2,4-Trichlorobenzene	<0.0010	0.0010
71-55-6	1,1,1-Trichloroethane	<0.0010	0.0010
79-00-5	1,1,2-Trichloroethane	<0.0010	0.0010
79-01-6	Trichloroethene	<0.0010	0.0010
75-69-4	Trichlorofluoromethane	<0.0010	0.0010
96-18-4	1,2,3-Trichloropropane	<0.0010	0.0010
75-01-4	Vinyl Chloride	<0.0010	0.0010
1330-20-7	Xylene (Total)	<0.0030	0.0030

Surrogates:	***% Recovery***	***Control Limits***
Dibromofluoromethane	100	*82-118*
1,2-Dichloroethane-d4	97	*75-128*
Toluene-d8	100	*88-108*
4-Bromofluorobenzene	94	*82-114*

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ANALYTICAL REPORT

Client:	**RMT, Inc. - Ann Arbor Office**	Work Order:	**0905290**
Project:	Tecumseh Products	Description:	Laboratory Services
Client Sample ID:	**DUP-01**	Sampled:	05/13/09 00:00
Lab Sample ID:	**0905290-09**	Sampled By:	B. Ritchie
Matrix:	Water	Received:	05/18/09 07:45
Unit:	mg/L	Prepared:	05/20/09 By: JDM
Dilution Factor:	1	Analyzed:	05/20/09 By: JDM
QC Batch:	0905713	Analytical Batch:	9E21025

Volatile Organic Compounds in Drinking Water by EPA Method 524.2

CAS Number	Analyte	Analytical Result	RL
71-43-2	Benzene	<0.0010	0.0010
108-86-1	Bromobenzene	<0.0010	0.0010
75-27-4	Bromodichloromethane	<0.0010	0.0010
75-25-2	Bromoform	<0.0010	0.0010
*74-83-9	Bromomethane	<0.0010	0.0010
56-23-5	Carbon Tetrachloride	<0.0010	0.0010
108-90-7	Chlorobenzene	<0.0010	0.0010
75-00-3	Chloroethane	<0.0010	0.0010
67-66-3	Chloroform	<0.0010	0.0010
74-87-3	Chloromethane	<0.0010	0.0010
95-49-8	2-Chlorotoluene	<0.0010	0.0010
106-43-4	4-Chlorotoluene	<0.0010	0.0010
124-48-1	Dibromochloromethane	<0.0010	0.0010
74-95-3	Dibromomethane	<0.0010	0.0010
95-50-1	1,2-Dichlorobenzene	<0.0010	0.0010
541-73-1	1,3-Dichlorobenzene	<0.0010	0.0010
106-46-7	1,4-Dichlorobenzene	<0.0010	0.0010
75-71-8	Dichlorodifluoromethane	**0.0011**	0.0010
75-34-3	1,1-Dichloroethane	<0.0010	0.0010
107-06-2	1,2-Dichloroethane	<0.0010	0.0010
75-35-4	1,1-Dichloroethene	<0.0010	0.0010
156-59-2	cis-1,2-Dichloroethene	<0.0010	0.0010
156-60-5	trans-1,2-Dichloroethene	<0.0010	0.0010
78-87-5	1,2-Dichloropropane	<0.0010	0.0010
142-28-9	1,3-Dichloropropane	<0.0010	0.0010
594-20-7	2,2-Dichloropropane	<0.0010	0.0010
563-58-6	1,1-Dichloropropene	<0.0010	0.0010
10061-01-5	cis-1,3-Dichloropropene	<0.0010	0.0010
10061-02-6	trans-1,3-Dichloropropene	<0.0010	0.0010
100-41-4	Ethylbenzene	<0.0010	0.0010
75-09-2	Methylene Chloride	<0.0050	0.0050

Continued on next page

*See Statement of Data Qualifications

ANALYTICAL REPORT

Client:	**RMT, Inc. - Ann Arbor Office**	Work Order:	**0905290**
Project:	Tecumseh Products	Description:	Laboratory Services
Client Sample ID:	**DUP-01**	Sampled:	05/13/09 00:00
Lab Sample ID:	**0905290-09**	Sampled By:	B. Ritchie
Matrix:	Water	Received:	05/18/09 07:45
Unit:	mg/L	Prepared:	05/20/09 By: JDM
Dilution Factor:	1	Analyzed:	05/20/09 By: JDM
QC Batch:	0905713	Analytical Batch:	9E21025

Volatile Organic Compounds in Drinking Water by EPA Method 524.2 (Continued)

CAS Number	Analyte	Analytical Result	RL
100-42-5	Styrene	<0.0010	0.0010
630-20-6	1,1,1,2-Tetrachloroethane	<0.0010	0.0010
79-34-5	1,1,2,2-Tetrachloroethane	<0.0010	0.0010
127-18-4	Tetrachloroethene	<0.0010	0.0010
108-88-3	Toluene	<0.0010	0.0010
120-82-1	1,2,4-Trichlorobenzene	<0.0010	0.0010
71-55-6	1,1,1-Trichloroethane	<0.0010	0.0010
79-00-5	1,1,2-Trichloroethane	<0.0010	0.0010
79-01-6	Trichloroethene	<0.0010	0.0010
75-69-4	Trichlorofluoromethane	<0.0010	0.0010
96-18-4	1,2,3-Trichloropropane	<0.0010	0.0010
75-01-4	Vinyl Chloride	<0.0010	0.0010
1330-20-7	Xylene (Total)	<0.0030	0.0030

Surrogates:	***% Recovery***	***Control Limits***
Dibromofluoromethane	99	*82-118*
1,2-Dichloroethane-d4	98	*75-128*
Toluene-d8	99	*88-108*
4-Bromofluorobenzene	95	*82-114*

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ANALYTICAL REPORT

Client:	**RMT, Inc. - Ann Arbor Office**	Work Order:	**0905290**
Project:	Tecumseh Products	Description:	Laboratory Services
Client Sample ID:	**TB-01**	Sampled:	05/15/09 00:00
Lab Sample ID:	**0905290-10**	Sampled By:	TML
Matrix:	Water	Received:	05/18/09 07:45
Unit:	mg/L	Prepared:	05/20/09 By: JDM
Dilution Factor:	1	Analyzed:	05/20/09 By: JDM
QC Batch:	0905713	Analytical Batch:	9E21025

Volatile Organic Compounds in Drinking Water by EPA Method 524.2

CAS Number	Analyte	Analytical Result	RL
71-43-2	Benzene	<0.0010	0.0010
108-86-1	Bromobenzene	<0.0010	0.0010
75-27-4	Bromodichloromethane	<0.0010	0.0010
75-25-2	Bromoform	<0.0010	0.0010
*74-83-9	Bromomethane	<0.0010	0.0010
56-23-5	Carbon Tetrachloride	<0.0010	0.0010
108-90-7	Chlorobenzene	<0.0010	0.0010
75-00-3	Chloroethane	<0.0010	0.0010
67-66-3	Chloroform	<0.0010	0.0010
74-87-3	Chloromethane	<0.0010	0.0010
95-49-8	2-Chlorotoluene	<0.0010	0.0010
106-43-4	4-Chlorotoluene	<0.0010	0.0010
124-48-1	Dibromochloromethane	<0.0010	0.0010
74-95-3	Dibromomethane	<0.0010	0.0010
95-50-1	1,2-Dichlorobenzene	<0.0010	0.0010
541-73-1	1,3-Dichlorobenzene	<0.0010	0.0010
106-46-7	1,4-Dichlorobenzene	<0.0010	0.0010
75-71-8	Dichlorodifluoromethane	<0.0010	0.0010
75-34-3	1,1-Dichloroethane	<0.0010	0.0010
107-06-2	1,2-Dichloroethane	<0.0010	0.0010
75-35-4	1,1-Dichloroethene	<0.0010	0.0010
156-59-2	cis-1,2-Dichloroethene	<0.0010	0.0010
156-60-5	trans-1,2-Dichloroethene	<0.0010	0.0010
78-87-5	1,2-Dichloropropane	<0.0010	0.0010
142-28-9	1,3-Dichloropropane	<0.0010	0.0010
594-20-7	2,2-Dichloropropane	<0.0010	0.0010
563-58-6	1,1-Dichloropropene	<0.0010	0.0010
10061-01-5	cis-1,3-Dichloropropene	<0.0010	0.0010
10061-02-6	trans-1,3-Dichloropropene	<0.0010	0.0010
100-41-4	Ethylbenzene	<0.0010	0.0010
75-09-2	Methylene Chloride	<0.0050	0.0050

Continued on next page

*See Statement of Data Qualifications

ANALYTICAL REPORT

Client:	**RMT, Inc. - Ann Arbor Office**	Work Order:	**0905290**
Project:	Tecumseh Products	Description:	Laboratory Services
Client Sample ID:	**TB-01**	Sampled:	05/15/09 00:00
Lab Sample ID:	**0905290-10**	Sampled By:	TML
Matrix:	Water	Received:	05/18/09 07:45
Unit:	mg/L	Prepared:	05/20/09 By: JDM
Dilution Factor:	1	Analyzed:	05/20/09 By: JDM
QC Batch:	0905713	Analytical Batch:	9E21025

Volatile Organic Compounds in Drinking Water by EPA Method 524.2 (Continued)

CAS Number	Analyte	Analytical Result	RL
100-42-5	Styrene	<0.0010	0.0010
630-20-6	1,1,1,2-Tetrachloroethane	<0.0010	0.0010
79-34-5	1,1,2,2-Tetrachloroethane	<0.0010	0.0010
127-18-4	Tetrachloroethene	<0.0010	0.0010
108-88-3	Toluene	<0.0010	0.0010
120-82-1	1,2,4-Trichlorobenzene	<0.0010	0.0010
71-55-6	1,1,1-Trichloroethane	<0.0010	0.0010
79-00-5	1,1,2-Trichloroethane	<0.0010	0.0010
79-01-6	Trichloroethene	<0.0010	0.0010
75-69-4	Trichlorofluoromethane	<0.0010	0.0010
96-18-4	1,2,3-Trichloropropane	<0.0010	0.0010
75-01-4	Vinyl Chloride	<0.0010	0.0010
1330-20-7	Xylene (Total)	<0.0030	0.0030

Surrogates:	***% Recovery***	***Control Limits***
Dibromofluoromethane	100	*82-118*
1,2-Dichloroethane-d4	99	*75-128*
Toluene-d8	99	*88-108*
4-Bromofluorobenzene	94	*82-114*

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ANALYTICAL REPORT

Client:	**RMT, Inc. - Ann Arbor Office**	Work Order:	**0905290**
Project:	Tecumseh Products	Description:	Laboratory Services
Client Sample ID:	**MW-13S**	Sampled:	05/15/09 09:27
Lab Sample ID:	**0905290-11**	Sampled By:	B. Ritchie
Matrix:	Water	Received:	05/18/09 07:45
Unit:	mg/L	Prepared:	05/20/09 By: JDM
Dilution Factor:	1	Analyzed:	05/20/09 By: JDM
QC Batch:	0905713	Analytical Batch:	9E21025

Volatile Organic Compounds in Drinking Water by EPA Method 524.2

CAS Number	Analyte	Analytical Result	RL
71-43-2	Benzene	<0.0010	0.0010
108-86-1	Bromobenzene	<0.0010	0.0010
75-27-4	Bromodichloromethane	<0.0010	0.0010
75-25-2	Bromoform	<0.0010	0.0010
*74-83-9	Bromomethane	<0.0010	0.0010
56-23-5	Carbon Tetrachloride	<0.0010	0.0010
108-90-7	Chlorobenzene	<0.0010	0.0010
75-00-3	Chloroethane	<0.0010	0.0010
67-66-3	Chloroform	<0.0010	0.0010
74-87-3	Chloromethane	<0.0010	0.0010
95-49-8	2-Chlorotoluene	<0.0010	0.0010
106-43-4	4-Chlorotoluene	<0.0010	0.0010
124-48-1	Dibromochloromethane	<0.0010	0.0010
74-95-3	Dibromomethane	<0.0010	0.0010
95-50-1	1,2-Dichlorobenzene	<0.0010	0.0010
541-73-1	1,3-Dichlorobenzene	<0.0010	0.0010
106-46-7	1,4-Dichlorobenzene	<0.0010	0.0010
75-71-8	Dichlorodifluoromethane	<0.0010	0.0010
75-34-3	1,1-Dichloroethane	<0.0010	0.0010
107-06-2	1,2-Dichloroethane	<0.0010	0.0010
75-35-4	1,1-Dichloroethene	<0.0010	0.0010
156-59-2	cis-1,2-Dichloroethene	<0.0010	0.0010
156-60-5	trans-1,2-Dichloroethene	<0.0010	0.0010
78-87-5	1,2-Dichloropropane	<0.0010	0.0010
142-28-9	1,3-Dichloropropane	<0.0010	0.0010
594-20-7	2,2-Dichloropropane	<0.0010	0.0010
563-58-6	1,1-Dichloropropene	<0.0010	0.0010
10061-01-5	cis-1,3-Dichloropropene	<0.0010	0.0010
10061-02-6	trans-1,3-Dichloropropene	<0.0010	0.0010
100-41-4	Ethylbenzene	<0.0010	0.0010
75-09-2	Methylene Chloride	<0.0050	0.0050

Continued on next page

*See Statement of Data Qualifications

ANALYTICAL REPORT

Client:	**RMT, Inc. - Ann Arbor Office**	Work Order:	**0905290**
Project:	Tecumseh Products	Description:	Laboratory Services
Client Sample ID:	**MW-13S**	Sampled:	05/15/09 09:27
Lab Sample ID:	**0905290-11**	Sampled By:	B. Ritchie
Matrix:	Water	Received:	05/18/09 07:45
Unit:	mg/L	Prepared:	05/20/09 By: JDM
Dilution Factor:	1	Analyzed:	05/20/09 By: JDM
QC Batch:	0905713	Analytical Batch:	9E21025

Volatile Organic Compounds in Drinking Water by EPA Method 524.2 (Continued)

CAS Number	Analyte	Analytical Result	RL
100-42-5	Styrene	<0.0010	0.0010
630-20-6	1,1,1,2-Tetrachloroethane	<0.0010	0.0010
79-34-5	1,1,2,2-Tetrachloroethane	<0.0010	0.0010
127-18-4	Tetrachloroethene	<0.0010	0.0010
108-88-3	Toluene	<0.0010	0.0010
120-82-1	1,2,4-Trichlorobenzene	<0.0010	0.0010
71-55-6	1,1,1-Trichloroethane	<0.0010	0.0010
79-00-5	1,1,2-Trichloroethane	<0.0010	0.0010
79-01-6	Trichloroethene	<0.0010	0.0010
75-69-4	Trichlorofluoromethane	<0.0010	0.0010
96-18-4	1,2,3-Trichloropropane	<0.0010	0.0010
75-01-4	Vinyl Chloride	<0.0010	0.0010
1330-20-7	Xylene (Total)	<0.0030	0.0030

Surrogates:	***% Recovery***	***Control Limits***
Dibromofluoromethane	99	*82-118*
1,2-Dichloroethane-d4	99	*75-128*
Toluene-d8	100	*88-108*
4-Bromofluorobenzene	95	*82-114*

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ANALYTICAL REPORT

Client:	**RMT, Inc. - Ann Arbor Office**	Work Order:	**0905290**
Project:	Tecumseh Products	Description:	Laboratory Services
Client Sample ID:	**MW-12S**	Sampled:	05/15/09 09:50
Lab Sample ID:	**0905290-12**	Sampled By:	B. Ritchie
Matrix:	Water	Received:	05/18/09 07:45
Unit:	mg/L	Prepared:	05/20/09 By: JDM
Dilution Factor:	1	Analyzed:	05/20/09 By: JDM
QC Batch:	0905713	Analytical Batch:	9E21025

Volatile Organic Compounds in Drinking Water by EPA Method 524.2

CAS Number	Analyte	Analytical Result	RL
71-43-2	Benzene	<0.0010	0.0010
108-86-1	Bromobenzene	<0.0010	0.0010
75-27-4	Bromodichloromethane	<0.0010	0.0010
75-25-2	Bromoform	<0.0010	0.0010
*74-83-9	Bromomethane	<0.0010	0.0010
56-23-5	Carbon Tetrachloride	<0.0010	0.0010
108-90-7	Chlorobenzene	<0.0010	0.0010
75-00-3	Chloroethane	<0.0010	0.0010
67-66-3	Chloroform	<0.0010	0.0010
74-87-3	Chloromethane	<0.0010	0.0010
95-49-8	2-Chlorotoluene	<0.0010	0.0010
106-43-4	4-Chlorotoluene	<0.0010	0.0010
124-48-1	Dibromochloromethane	<0.0010	0.0010
74-95-3	Dibromomethane	<0.0010	0.0010
95-50-1	1,2-Dichlorobenzene	<0.0010	0.0010
541-73-1	1,3-Dichlorobenzene	<0.0010	0.0010
106-46-7	1,4-Dichlorobenzene	<0.0010	0.0010
75-71-8	Dichlorodifluoromethane	<0.0010	0.0010
75-34-3	1,1-Dichloroethane	<0.0010	0.0010
107-06-2	1,2-Dichloroethane	<0.0010	0.0010
75-35-4	1,1-Dichloroethene	<0.0010	0.0010
156-59-2	cis-1,2-Dichloroethene	<0.0010	0.0010
156-60-5	trans-1,2-Dichloroethene	<0.0010	0.0010
78-87-5	1,2-Dichloropropane	<0.0010	0.0010
142-28-9	1,3-Dichloropropane	<0.0010	0.0010
594-20-7	2,2-Dichloropropane	<0.0010	0.0010
563-58-6	1,1-Dichloropropene	<0.0010	0.0010
10061-01-5	cis-1,3-Dichloropropene	<0.0010	0.0010
10061-02-6	trans-1,3-Dichloropropene	<0.0010	0.0010
100-41-4	Ethylbenzene	<0.0010	0.0010
75-09-2	Methylene Chloride	<0.0050	0.0050

Continued on next page

*See Statement of Data Qualifications

ANALYTICAL REPORT

Client:	**RMT, Inc. - Ann Arbor Office**	Work Order:	**0905290**
Project:	Tecumseh Products	Description:	Laboratory Services
Client Sample ID:	**MW-12S**	Sampled:	05/15/09 09:50
Lab Sample ID:	**0905290-12**	Sampled By:	B. Ritchie
Matrix:	Water	Received:	05/18/09 07:45
Unit:	mg/L	Prepared:	05/20/09 By: JDM
Dilution Factor:	1	Analyzed:	05/20/09 By: JDM
QC Batch:	0905713	Analytical Batch:	9E21025

Volatile Organic Compounds in Drinking Water by EPA Method 524.2 (Continued)

CAS Number	Analyte	Analytical Result	RL
100-42-5	Styrene	<0.0010	0.0010
630-20-6	1,1,1,2-Tetrachloroethane	<0.0010	0.0010
79-34-5	1,1,2,2-Tetrachloroethane	<0.0010	0.0010
127-18-4	Tetrachloroethene	**0.0014**	0.0010
108-88-3	Toluene	<0.0010	0.0010
120-82-1	1,2,4-Trichlorobenzene	<0.0010	0.0010
71-55-6	1,1,1-Trichloroethane	<0.0010	0.0010
79-00-5	1,1,2-Trichloroethane	<0.0010	0.0010
79-01-6	Trichloroethene	<0.0010	0.0010
75-69-4	Trichlorofluoromethane	<0.0010	0.0010
96-18-4	1,2,3-Trichloropropane	<0.0010	0.0010
75-01-4	Vinyl Chloride	<0.0010	0.0010
1330-20-7	Xylene (Total)	<0.0030	0.0030

Surrogates:	***% Recovery***	***Control Limits***
Dibromofluoromethane	101	*82-118*
1,2-Dichloroethane-d4	96	*75-128*
Toluene-d8	99	*88-108*
4-Bromofluorobenzene	95	*82-114*

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ANALYTICAL REPORT

Client:	**RMT, Inc. - Ann Arbor Office**	Work Order:	**0905290**
Project:	Tecumseh Products	Description:	Laboratory Services
Client Sample ID:	**MW-15S**	Sampled:	05/15/09 11:31
Lab Sample ID:	**0905290-13**	Sampled By:	B. Ritchie
Matrix:	Water	Received:	05/18/09 07:45
Unit:	mg/L	Prepared:	05/20/09 By: JDM
Dilution Factor:	1	Analyzed:	05/20/09 By: JDM
QC Batch:	0905713	Analytical Batch:	9E21025

Volatile Organic Compounds in Drinking Water by EPA Method 524.2

CAS Number	Analyte	Analytical Result	RL
71-43-2	Benzene	<0.0010	0.0010
108-86-1	Bromobenzene	<0.0010	0.0010
75-27-4	Bromodichloromethane	<0.0010	0.0010
75-25-2	Bromoform	<0.0010	0.0010
*74-83-9	Bromomethane	<0.0010	0.0010
56-23-5	Carbon Tetrachloride	<0.0010	0.0010
108-90-7	Chlorobenzene	<0.0010	0.0010
75-00-3	Chloroethane	<0.0010	0.0010
67-66-3	Chloroform	<0.0010	0.0010
74-87-3	Chloromethane	<0.0010	0.0010
95-49-8	2-Chlorotoluene	<0.0010	0.0010
106-43-4	4-Chlorotoluene	<0.0010	0.0010
124-48-1	Dibromochloromethane	<0.0010	0.0010
74-95-3	Dibromomethane	<0.0010	0.0010
95-50-1	1,2-Dichlorobenzene	<0.0010	0.0010
541-73-1	1,3-Dichlorobenzene	<0.0010	0.0010
106-46-7	1,4-Dichlorobenzene	<0.0010	0.0010
75-71-8	Dichlorodifluoromethane	<0.0010	0.0010
75-34-3	1,1-Dichloroethane	<0.0010	0.0010
107-06-2	1,2-Dichloroethane	<0.0010	0.0010
75-35-4	1,1-Dichloroethene	<0.0010	0.0010
156-59-2	cis-1,2-Dichloroethene	<0.0010	0.0010
156-60-5	trans-1,2-Dichloroethene	<0.0010	0.0010
78-87-5	1,2-Dichloropropane	<0.0010	0.0010
142-28-9	1,3-Dichloropropane	<0.0010	0.0010
594-20-7	2,2-Dichloropropane	<0.0010	0.0010
563-58-6	1,1-Dichloropropene	<0.0010	0.0010
10061-01-5	cis-1,3-Dichloropropene	<0.0010	0.0010
10061-02-6	trans-1,3-Dichloropropene	<0.0010	0.0010
100-41-4	Ethylbenzene	<0.0010	0.0010
75-09-2	Methylene Chloride	<0.0050	0.0050

Continued on next page

*See Statement of Data Qualifications

ANALYTICAL REPORT

Client:	**RMT, Inc. - Ann Arbor Office**	Work Order:	**0905290**
Project:	Tecumseh Products	Description:	Laboratory Services
Client Sample ID:	**MW-15S**	Sampled:	05/15/09 11:31
Lab Sample ID:	**0905290-13**	Sampled By:	B. Ritchie
Matrix:	Water	Received:	05/18/09 07:45
Unit:	mg/L	Prepared:	05/20/09 By: JDM
Dilution Factor:	1	Analyzed:	05/20/09 By: JDM
QC Batch:	0905713	Analytical Batch:	9E21025

Volatile Organic Compounds in Drinking Water by EPA Method 524.2 (Continued)

CAS Number	Analyte	Analytical Result	RL
100-42-5	Styrene	<0.0010	0.0010
630-20-6	1,1,1,2-Tetrachloroethane	<0.0010	0.0010
79-34-5	1,1,2,2-Tetrachloroethane	<0.0010	0.0010
127-18-4	Tetrachloroethene	<0.0010	0.0010
108-88-3	Toluene	<0.0010	0.0010
120-82-1	1,2,4-Trichlorobenzene	<0.0010	0.0010
71-55-6	1,1,1-Trichloroethane	<0.0010	0.0010
79-00-5	1,1,2-Trichloroethane	<0.0010	0.0010
79-01-6	Trichloroethene	<0.0010	0.0010
75-69-4	Trichlorofluoromethane	<0.0010	0.0010
96-18-4	1,2,3-Trichloropropane	<0.0010	0.0010
75-01-4	Vinyl Chloride	<0.0010	0.0010
1330-20-7	Xylene (Total)	<0.0030	0.0030

Surrogates:	***% Recovery***	***Control Limits***
Dibromofluoromethane	100	*82-118*
1,2-Dichloroethane-d4	98	*75-128*
Toluene-d8	100	*88-108*
4-Bromofluorobenzene	95	*82-114*

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ANALYTICAL REPORT

Client:	**RMT, Inc. - Ann Arbor Office**	Work Order:	**0905290**
Project:	Tecumseh Products	Description:	Laboratory Services
Client Sample ID:	**B-40 (42-46)**	Sampled:	05/15/09 14:30
Lab Sample ID:	**0905290-14**	Sampled By:	B. Ritchie
Matrix:	Water	Received:	05/18/09 07:45
Unit:	mg/L	Prepared:	05/20/09 By: JDM
Dilution Factor:	1	Analyzed:	05/20/09 By: JDM
QC Batch:	0905713	Analytical Batch:	9E21025

Volatile Organic Compounds in Drinking Water by EPA Method 524.2

CAS Number	Analyte	Analytical Result	RL
71-43-2	Benzene	<0.0010	0.0010
108-86-1	Bromobenzene	<0.0010	0.0010
75-27-4	Bromodichloromethane	<0.0010	0.0010
75-25-2	Bromoform	<0.0010	0.0010
*74-83-9	Bromomethane	<0.0010	0.0010
56-23-5	Carbon Tetrachloride	<0.0010	0.0010
108-90-7	Chlorobenzene	<0.0010	0.0010
75-00-3	Chloroethane	<0.0010	0.0010
67-66-3	Chloroform	<0.0010	0.0010
74-87-3	Chloromethane	<0.0010	0.0010
95-49-8	2-Chlorotoluene	<0.0010	0.0010
106-43-4	4-Chlorotoluene	<0.0010	0.0010
124-48-1	Dibromochloromethane	<0.0010	0.0010
74-95-3	Dibromomethane	<0.0010	0.0010
95-50-1	1,2-Dichlorobenzene	<0.0010	0.0010
541-73-1	1,3-Dichlorobenzene	<0.0010	0.0010
106-46-7	1,4-Dichlorobenzene	<0.0010	0.0010
75-71-8	Dichlorodifluoromethane	<0.0010	0.0010
75-34-3	1,1-Dichloroethane	<0.0010	0.0010
107-06-2	1,2-Dichloroethane	<0.0010	0.0010
75-35-4	1,1-Dichloroethene	<0.0010	0.0010
156-59-2	cis-1,2-Dichloroethene	<0.0010	0.0010
156-60-5	trans-1,2-Dichloroethene	<0.0010	0.0010
78-87-5	1,2-Dichloropropane	<0.0010	0.0010
142-28-9	1,3-Dichloropropane	<0.0010	0.0010
594-20-7	2,2-Dichloropropane	<0.0010	0.0010
563-58-6	1,1-Dichloropropene	<0.0010	0.0010
10061-01-5	cis-1,3-Dichloropropene	<0.0010	0.0010
10061-02-6	trans-1,3-Dichloropropene	<0.0010	0.0010
100-41-4	Ethylbenzene	<0.0010	0.0010
75-09-2	Methylene Chloride	<0.0050	0.0050

Continued on next page

*See Statement of Data Qualifications

ANALYTICAL REPORT

Client:	**RMT, Inc. - Ann Arbor Office**	Work Order:	**0905290**
Project:	Tecumseh Products	Description:	Laboratory Services
Client Sample ID:	**B-40 (42-46)**	Sampled:	05/15/09 14:30
Lab Sample ID:	**0905290-14**	Sampled By:	B. Ritchie
Matrix:	Water	Received:	05/18/09 07:45
Unit:	mg/L	Prepared:	05/20/09 By: JDM
Dilution Factor:	1	Analyzed:	05/20/09 By: JDM
QC Batch:	0905713	Analytical Batch:	9E21025

Volatile Organic Compounds in Drinking Water by EPA Method 524.2 (Continued)

CAS Number	Analyte	Analytical Result	RL
100-42-5	Styrene	<0.0010	0.0010
630-20-6	1,1,1,2-Tetrachloroethane	<0.0010	0.0010
79-34-5	1,1,2,2-Tetrachloroethane	<0.0010	0.0010
127-18-4	Tetrachloroethene	<0.0010	0.0010
108-88-3	Toluene	<0.0010	0.0010
120-82-1	1,2,4-Trichlorobenzene	<0.0010	0.0010
71-55-6	1,1,1-Trichloroethane	<0.0010	0.0010
79-00-5	1,1,2-Trichloroethane	<0.0010	0.0010
79-01-6	Trichloroethene	<0.0010	0.0010
75-69-4	Trichlorofluoromethane	<0.0010	0.0010
96-18-4	1,2,3-Trichloropropane	<0.0010	0.0010
75-01-4	Vinyl Chloride	<0.0010	0.0010
1330-20-7	Xylene (Total)	<0.0030	0.0030

Surrogates:	***% Recovery***	***Control Limits***
Dibromofluoromethane	99	*82-118*
1,2-Dichloroethane-d4	99	*75-128*
Toluene-d8	100	*88-108*
4-Bromofluorobenzene	95	*82-114*

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ANALYTICAL REPORT

Client:	**RMT, Inc. - Ann Arbor Office**	Work Order:	**0905290**
Project:	Tecumseh Products	Description:	Laboratory Services
Client Sample ID:	**B-40 (16-20)**	Sampled:	05/15/09 14:46
Lab Sample ID:	**0905290-15**	Sampled By:	B. Ritchie
Matrix:	Water	Received:	05/18/09 07:45
Unit:	mg/L	Prepared:	05/20/09 By: JDM
Dilution Factor:	1	Analyzed:	05/20/09 By: JDM
QC Batch:	0905713	Analytical Batch:	9E21025

Volatile Organic Compounds in Drinking Water by EPA Method 524.2

CAS Number	Analyte	Analytical Result	RL
71-43-2	Benzene	<0.0010	0.0010
108-86-1	Bromobenzene	<0.0010	0.0010
75-27-4	Bromodichloromethane	<0.0010	0.0010
75-25-2	Bromoform	<0.0010	0.0010
*74-83-9	Bromomethane	<0.0010	0.0010
56-23-5	Carbon Tetrachloride	<0.0010	0.0010
108-90-7	Chlorobenzene	<0.0010	0.0010
75-00-3	Chloroethane	<0.0010	0.0010
67-66-3	Chloroform	<0.0010	0.0010
74-87-3	Chloromethane	<0.0010	0.0010
95-49-8	2-Chlorotoluene	<0.0010	0.0010
106-43-4	4-Chlorotoluene	<0.0010	0.0010
124-48-1	Dibromochloromethane	<0.0010	0.0010
74-95-3	Dibromomethane	<0.0010	0.0010
95-50-1	1,2-Dichlorobenzene	<0.0010	0.0010
541-73-1	1,3-Dichlorobenzene	<0.0010	0.0010
106-46-7	1,4-Dichlorobenzene	<0.0010	0.0010
75-71-8	Dichlorodifluoromethane	<0.0010	0.0010
75-34-3	1,1-Dichloroethane	<0.0010	0.0010
107-06-2	1,2-Dichloroethane	<0.0010	0.0010
75-35-4	1,1-Dichloroethene	<0.0010	0.0010
156-59-2	cis-1,2-Dichloroethene	<0.0010	0.0010
156-60-5	trans-1,2-Dichloroethene	<0.0010	0.0010
78-87-5	1,2-Dichloropropane	<0.0010	0.0010
142-28-9	1,3-Dichloropropane	<0.0010	0.0010
594-20-7	2,2-Dichloropropane	<0.0010	0.0010
563-58-6	1,1-Dichloropropene	<0.0010	0.0010
10061-01-5	cis-1,3-Dichloropropene	<0.0010	0.0010
10061-02-6	trans-1,3-Dichloropropene	<0.0010	0.0010
100-41-4	Ethylbenzene	<0.0010	0.0010
75-09-2	Methylene Chloride	<0.0050	0.0050

Continued on next page

*See Statement of Data Qualifications

ANALYTICAL REPORT

Client:	**RMT, Inc. - Ann Arbor Office**	Work Order:	**0905290**
Project:	Tecumseh Products	Description:	Laboratory Services
Client Sample ID:	**B-40 (16-20)**	Sampled:	05/15/09 14:46
Lab Sample ID:	**0905290-15**	Sampled By:	B. Ritchie
Matrix:	Water	Received:	05/18/09 07:45
Unit:	mg/L	Prepared:	05/20/09 By: JDM
Dilution Factor:	1	Analyzed:	05/20/09 By: JDM
QC Batch:	0905713	Analytical Batch:	9E21025

Volatile Organic Compounds in Drinking Water by EPA Method 524.2 (Continued)

CAS Number	Analyte	Analytical Result	RL
100-42-5	Styrene	<0.0010	0.0010
630-20-6	1,1,1,2-Tetrachloroethane	<0.0010	0.0010
79-34-5	1,1,2,2-Tetrachloroethane	<0.0010	0.0010
127-18-4	Tetrachloroethene	<0.0010	0.0010
108-88-3	Toluene	<0.0010	0.0010
120-82-1	1,2,4-Trichlorobenzene	<0.0010	0.0010
71-55-6	1,1,1-Trichloroethane	<0.0010	0.0010
79-00-5	1,1,2-Trichloroethane	<0.0010	0.0010
79-01-6	Trichloroethene	<0.0010	0.0010
75-69-4	Trichlorofluoromethane	<0.0010	0.0010
96-18-4	1,2,3-Trichloropropane	<0.0010	0.0010
75-01-4	Vinyl Chloride	<0.0010	0.0010
1330-20-7	Xylene (Total)	<0.0030	0.0030

Surrogates:	***% Recovery***	***Control Limits***
Dibromofluoromethane	100	*82-118*
1,2-Dichloroethane-d4	99	*75-128*
Toluene-d8	100	*88-108*
4-Bromofluorobenzene	94	*82-114*

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ANALYTICAL REPORT

Client:	**RMT, Inc. - Ann Arbor Office**	Work Order:	**0905290**
Project:	Tecumseh Products	Description:	Laboratory Services
Client Sample ID:	**MW-10S**	Sampled:	05/15/09 15:14
Lab Sample ID:	**0905290-16**	Sampled By:	B. Ritchie
Matrix:	Water	Received:	05/18/09 07:45
Unit:	mg/L	Prepared:	05/20/09 By: JDM
Dilution Factor:	1	Analyzed:	05/20/09 By: JDM
QC Batch:	0905713	Analytical Batch:	9E21025

Volatile Organic Compounds in Drinking Water by EPA Method 524.2

CAS Number	Analyte	Analytical Result	RL
71-43-2	Benzene	<0.0010	0.0010
108-86-1	Bromobenzene	<0.0010	0.0010
75-27-4	Bromodichloromethane	<0.0010	0.0010
75-25-2	Bromoform	<0.0010	0.0010
*74-83-9	Bromomethane	<0.0010	0.0010
56-23-5	Carbon Tetrachloride	<0.0010	0.0010
108-90-7	Chlorobenzene	<0.0010	0.0010
75-00-3	Chloroethane	<0.0010	0.0010
67-66-3	Chloroform	<0.0010	0.0010
74-87-3	Chloromethane	<0.0010	0.0010
95-49-8	2-Chlorotoluene	<0.0010	0.0010
106-43-4	4-Chlorotoluene	<0.0010	0.0010
124-48-1	Dibromochloromethane	<0.0010	0.0010
74-95-3	Dibromomethane	<0.0010	0.0010
95-50-1	1,2-Dichlorobenzene	<0.0010	0.0010
541-73-1	1,3-Dichlorobenzene	<0.0010	0.0010
106-46-7	1,4-Dichlorobenzene	<0.0010	0.0010
75-71-8	Dichlorodifluoromethane	<0.0010	0.0010
75-34-3	1,1-Dichloroethane	<0.0010	0.0010
107-06-2	1,2-Dichloroethane	<0.0010	0.0010
75-35-4	1,1-Dichloroethene	<0.0010	0.0010
156-59-2	cis-1,2-Dichloroethene	<0.0010	0.0010
156-60-5	trans-1,2-Dichloroethene	<0.0010	0.0010
78-87-5	1,2-Dichloropropane	<0.0010	0.0010
142-28-9	1,3-Dichloropropane	<0.0010	0.0010
594-20-7	2,2-Dichloropropane	<0.0010	0.0010
563-58-6	1,1-Dichloropropene	<0.0010	0.0010
10061-01-5	cis-1,3-Dichloropropene	<0.0010	0.0010
10061-02-6	trans-1,3-Dichloropropene	<0.0010	0.0010
100-41-4	Ethylbenzene	<0.0010	0.0010
75-09-2	Methylene Chloride	<0.0050	0.0050

Continued on next page

*See Statement of Data Qualifications

ANALYTICAL REPORT

Client:	**RMT, Inc. - Ann Arbor Office**	Work Order:	**0905290**
Project:	Tecumseh Products	Description:	Laboratory Services
Client Sample ID:	**MW-10S**	Sampled:	05/15/09 15:14
Lab Sample ID:	**0905290-16**	Sampled By:	B. Ritchie
Matrix:	Water	Received:	05/18/09 07:45
Unit:	mg/L	Prepared:	05/20/09 By: JDM
Dilution Factor:	1	Analyzed:	05/20/09 By: JDM
QC Batch:	0905713	Analytical Batch:	9E21025

Volatile Organic Compounds in Drinking Water by EPA Method 524.2 (Continued)

CAS Number	Analyte	Analytical Result	RL
100-42-5	Styrene	<0.0010	0.0010
630-20-6	1,1,1,2-Tetrachloroethane	<0.0010	0.0010
79-34-5	1,1,2,2-Tetrachloroethane	<0.0010	0.0010
127-18-4	Tetrachloroethene	<0.0010	0.0010
108-88-3	Toluene	<0.0010	0.0010
120-82-1	1,2,4-Trichlorobenzene	<0.0010	0.0010
71-55-6	1,1,1-Trichloroethane	<0.0010	0.0010
79-00-5	1,1,2-Trichloroethane	<0.0010	0.0010
79-01-6	Trichloroethene	<0.0010	0.0010
75-69-4	Trichlorofluoromethane	<0.0010	0.0010
96-18-4	1,2,3-Trichloropropane	<0.0010	0.0010
75-01-4	Vinyl Chloride	<0.0010	0.0010
1330-20-7	Xylene (Total)	<0.0030	0.0030

Surrogates:	***% Recovery***	***Control Limits***
Dibromofluoromethane	102	*82-118*
1,2-Dichloroethane-d4	100	*75-128*
Toluene-d8	100	*88-108*
4-Bromofluorobenzene	93	*82-114*

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ANALYTICAL REPORT

Client:	**RMT, Inc. - Ann Arbor Office**	Work Order:	**0905290**
Project:	Tecumseh Products	Description:	Laboratory Services
Client Sample ID:	**DUP-02**	Sampled:	05/15/09 00:00
Lab Sample ID:	**0905290-17**	Sampled By:	B. Ritchie
Matrix:	Water	Received:	05/18/09 07:45
Unit:	mg/L	Prepared:	05/20/09 By: JDM
Dilution Factor:	1	Analyzed:	05/20/09 By: JDM
QC Batch:	0905713	Analytical Batch:	9E21025

Volatile Organic Compounds in Drinking Water by EPA Method 524.2

CAS Number	Analyte	Analytical Result	RL
71-43-2	Benzene	<0.0010	0.0010
108-86-1	Bromobenzene	<0.0010	0.0010
75-27-4	Bromodichloromethane	<0.0010	0.0010
75-25-2	Bromoform	<0.0010	0.0010
*74-83-9	Bromomethane	<0.0010	0.0010
56-23-5	Carbon Tetrachloride	<0.0010	0.0010
108-90-7	Chlorobenzene	<0.0010	0.0010
75-00-3	Chloroethane	<0.0010	0.0010
67-66-3	Chloroform	<0.0010	0.0010
74-87-3	Chloromethane	<0.0010	0.0010
95-49-8	2-Chlorotoluene	<0.0010	0.0010
106-43-4	4-Chlorotoluene	<0.0010	0.0010
124-48-1	Dibromochloromethane	<0.0010	0.0010
74-95-3	Dibromomethane	<0.0010	0.0010
95-50-1	1,2-Dichlorobenzene	<0.0010	0.0010
541-73-1	1,3-Dichlorobenzene	<0.0010	0.0010
106-46-7	1,4-Dichlorobenzene	<0.0010	0.0010
75-71-8	Dichlorodifluoromethane	<0.0010	0.0010
75-34-3	1,1-Dichloroethane	<0.0010	0.0010
107-06-2	1,2-Dichloroethane	<0.0010	0.0010
75-35-4	1,1-Dichloroethene	<0.0010	0.0010
156-59-2	cis-1,2-Dichloroethene	<0.0010	0.0010
156-60-5	trans-1,2-Dichloroethene	<0.0010	0.0010
78-87-5	1,2-Dichloropropane	<0.0010	0.0010
142-28-9	1,3-Dichloropropane	<0.0010	0.0010
594-20-7	2,2-Dichloropropane	<0.0010	0.0010
563-58-6	1,1-Dichloropropene	<0.0010	0.0010
10061-01-5	cis-1,3-Dichloropropene	<0.0010	0.0010
10061-02-6	trans-1,3-Dichloropropene	<0.0010	0.0010
100-41-4	Ethylbenzene	<0.0010	0.0010
75-09-2	Methylene Chloride	<0.0050	0.0050

Continued on next page

*See Statement of Data Qualifications

ANALYTICAL REPORT

Client:	**RMT, Inc. - Ann Arbor Office**	Work Order:	**0905290**
Project:	Tecumseh Products	Description:	Laboratory Services
Client Sample ID:	**DUP-02**	Sampled:	05/15/09 00:00
Lab Sample ID:	**0905290-17**	Sampled By:	B. Ritchie
Matrix:	Water	Received:	05/18/09 07:45
Unit:	mg/L	Prepared:	05/20/09 By: JDM
Dilution Factor:	1	Analyzed:	05/20/09 By: JDM
QC Batch:	0905713	Analytical Batch:	9E21025

Volatile Organic Compounds in Drinking Water by EPA Method 524.2 (Continued)

CAS Number	Analyte	Analytical Result	RL
100-42-5	Styrene	<0.0010	0.0010
630-20-6	1,1,1,2-Tetrachloroethane	<0.0010	0.0010
79-34-5	1,1,2,2-Tetrachloroethane	<0.0010	0.0010
127-18-4	Tetrachloroethene	<0.0010	0.0010
108-88-3	Toluene	<0.0010	0.0010
120-82-1	1,2,4-Trichlorobenzene	<0.0010	0.0010
71-55-6	1,1,1-Trichloroethane	<0.0010	0.0010
79-00-5	1,1,2-Trichloroethane	<0.0010	0.0010
79-01-6	Trichloroethene	<0.0010	0.0010
75-69-4	Trichlorofluoromethane	<0.0010	0.0010
96-18-4	1,2,3-Trichloropropane	<0.0010	0.0010
75-01-4	Vinyl Chloride	<0.0010	0.0010
1330-20-7	Xylene (Total)	<0.0030	0.0030

Surrogates:	***% Recovery***	***Control Limits***
Dibromofluoromethane	100	*82-118*
1,2-Dichloroethane-d4	99	*75-128*
Toluene-d8	100	*88-108*
4-Bromofluorobenzene	94	*82-114*

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QUALITY CONTROL REPORT

Semivolatile Organic Compounds by EPA Method 8270C

Analyte	Sample Conc.	Spike Qty.	Result	Spike % Rec.	Control Limits	RPD	RPD Limits	RL
QC Batch: 0905585 3510C Liquid-Liquid Extraction/USEPA-8270C								
Method Blank					Analyzed:	05/20/2009		By: DMC
Unit: ug/L					Analytical Batch:	9E20029		
1,4-Dioxane			<3.0					3.0
Surrogates:								
Nitrobenzene-d5				*77*	*31-123*			
2-Fluorobiphenyl				*83*	*25-113*			
o-Terphenyl				*84*	*42-125*			
Laboratory Control Sample					Analyzed:	05/20/2009		By: DMC
Unit: ug/L					Analytical Batch:	9E20029		
1,4-Dioxane		10.0	**3.33**	33	21-100			3.0
Surrogates:								
Nitrobenzene-d5				*71*	*31-123*			
2-Fluorobiphenyl				*82*	*25-113*			
o-Terphenyl				*84*	*42-125*			
Laboratory Control Sample Duplicate					Analyzed:	05/20/2009		By: DMC
Unit: ug/L					Analytical Batch:	9E20029		
1,4-Dioxane		10.0	**2.74**	27	21-100	19	20	3.0
Surrogates:								
Nitrobenzene-d5				*91*	*31-123*			
2-Fluorobiphenyl				*84*	*25-113*			
o-Terphenyl				*94*	*42-125*			

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QUALITY CONTROL REPORT

Volatile Organic Compounds in Drinking Water by EPA Method 524.2

Analyte	Sample Conc.	Spike Qty.	Result	Spike % Rec.	Control Limits	RPD	RPD Limits	RL

QC Batch: 0905713 5030B Aqueous Purge & Trap/USEPA-524.2

Method Blank Analyzed: 05/20/2009 By: JDM

Unit: mg/L Analytical Batch: 9E21025

Benzene	<0.0010		0.0010
Bromobenzene	<0.0010		0.0010
Bromodichloromethane	<0.0010		0.0010
Bromoform	<0.0010		0.0010
Bromomethane	<0.0010		0.0010
Carbon Tetrachloride	<0.0010		0.0010
Chlorobenzene	<0.0010		0.0010
Chloroethane	<0.0010		0.0010
Chloroform	<0.0010		0.0010
Chloromethane	<0.0010		0.0010
2-Chlorotoluene	<0.0010		0.0010
4-Chlorotoluene	<0.0010		0.0010
Dibromochloromethane	<0.0010		0.0010
Dibromomethane	<0.0010		0.0010
1,2-Dichlorobenzene	<0.0010		0.0010
1,3-Dichlorobenzene	<0.0010		0.0010
1,4-Dichlorobenzene	<0.0010		0.0010
Dichlorodifluoromethane	<0.0010		0.0010
1,1-Dichloroethane	<0.0010		0.0010
1,2-Dichloroethane	<0.0010		0.0010
1,1-Dichloroethene	<0.0010		0.0010
cis-1,2-Dichloroethene	<0.0010		0.0010
trans-1,2-Dichloroethene	<0.0010		0.0010
1,2-Dichloropropane	<0.0010		0.0010
1,3-Dichloropropane	<0.0010		0.0010
2,2-Dichloropropane	<0.0010		0.0010
1,1-Dichloropropene	<0.0010		0.0010
cis-1,3-Dichloropropene	<0.0010		0.0010
trans-1,3-Dichloropropene	<0.0010		0.0010
Ethylbenzene	<0.0010		0.0010
Methylene Chloride	<0.0050		0.0050
Styrene	<0.0010		0.0010
1,1,1,2-Tetrachloroethane	<0.0010		0.0010
1,1,2,2-Tetrachloroethane	<0.0010		0.0010
Tetrachloroethene	<0.0010		0.0010
Toluene	<0.0010		0.0010

Continued on next page

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QUALITY CONTROL REPORT

Volatile Organic Compounds in Drinking Water by EPA Method 524.2 (Continued)

Analyte	Sample Conc.	Spike Qty.	Result	Spike % Rec.	Control Limits	RPD	RPD Limits	RL

QC Batch: 0905713 (Continued) 5030B Aqueous Purge & Trap/USEPA-524.2

Method Blank (Continued) Analyzed: 05/20/2009 By: JDM
Unit: mg/L Analytical Batch: 9E21025

1,2,4-Trichlorobenzene		<0.0010					0.0010
1,1,1-Trichloroethane		<0.0010					0.0010
1,1,2-Trichloroethane		<0.0010					0.0010
Trichloroethene		<0.0010					0.0010
Trichlorofluoromethane		<0.0010					0.0010
1,2,3-Trichloropropane		<0.0010					0.0010
Vinyl Chloride		<0.0010					0.0010
Xylene (Total)		<0.0030					0.0030

Method Blank Analyzed: 05/20/2009 By: JDM
Unit: ug/L Analytical Batch: 9E21025

Surrogates:							
Dibromofluoromethane			*100*	*82-118*			
1,2-Dichloroethane-d4			*97*	*75-128*			
Toluene-d8			*99*	*88-108*			
4-Bromofluorobenzene			*95*	*82-114*			

Laboratory Control Sample Analyzed: 05/20/2009 By: JDM
Unit: mg/L Analytical Batch: 9E21025

Benzene	0.0100	**0.00870**	87	70-130			0.0010
Bromobenzene	0.0100	**0.00898**	90	70-130			0.0010
Bromodichloromethane	0.0100	**0.00948**	95	70-130			0.0010
Bromoform	0.0100	**0.0106**	106	70-130			0.0010
Bromomethane	0.0100	**0.00624**	**62**	70-130			0.0010
Carbon Tetrachloride	0.0100	**0.00920**	92	70-130			0.0010
Chlorobenzene	0.0100	**0.00921**	92	70-130			0.0010
Chloroethane	0.0100	**0.00829**	83	70-130			0.0010
Chloroform	0.0100	**0.00858**	86	70-130			0.0010
Chloromethane	0.0100	**0.00793**	79	70-130			0.0010
2-Chlorotoluene	0.0100	**0.00924**	92	70-130			0.0010
4-Chlorotoluene	0.0100	**0.00939**	94	70-130			0.0010
Dibromochloromethane	0.0100	**0.0100**	100	70-130			0.0010
Dibromomethane	0.0100	**0.00938**	94	70-130			0.0010
1,2-Dichlorobenzene	0.0100	**0.00923**	92	70-130			0.0010
1,3-Dichlorobenzene	0.0100	**0.00948**	95	70-130			0.0010
1,4-Dichlorobenzene	0.0100	**0.00922**	92	70-130			0.0010
Dichlorodifluoromethane	0.0100	**0.00749**	75	70-130			0.0010

Continued on next page

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QUALITY CONTROL REPORT

Volatile Organic Compounds in Drinking Water by EPA Method 524.2 (Continued)

QC Batch: 0905713 (Continued) 5030B Aqueous Purge & Trap/USEPA-524.2

Laboratory Control Sample (Continued) Analyzed: 05/20/2009 By: JDM
Unit: mg/L Analytical Batch: 9E21025

Analyte	Sample Conc.	Spike Qty.	Result	Spike % Rec.	Control Limits	RPD	RPD Limits	RL
1,1-Dichloroethane		0.0100	**0.00847**	85	70-130			0.0010
1,2-Dichloroethane		0.0100	**0.00882**	88	70-130			0.0010
1,1-Dichloroethene		0.0100	**0.00854**	85	70-130			0.0010
cis-1,2-Dichloroethene		0.0100	**0.00889**	89	70-130			0.0010
trans-1,2-Dichloroethene		0.0100	**0.00899**	90	70-130			0.0010
1,2-Dichloropropane		0.0100	**0.00884**	88	70-130			0.0010
1,3-Dichloropropane		0.0100	**0.00932**	93	70-130			0.0010
2,2-Dichloropropane		0.0100	**0.0107**	107	70-130			0.0010
1,1-Dichloropropene		0.0100	**0.00844**	84	70-130			0.0010
cis-1,3-Dichloropropene		0.0100	**0.00845**	84	70-130			0.0010
trans-1,3-Dichloropropene		0.0100	**0.00899**	90	70-130			0.0010
Ethylbenzene		0.0100	**0.00936**	94	70-130			0.0010
Methylene Chloride		0.0100	**0.00861**	86	70-130			0.0050
Styrene		0.0100	**0.00974**	97	70-130			0.0010
1,1,1,2-Tetrachloroethane		0.0100	**0.0101**	101	70-130			0.0010
1,1,2,2-Tetrachloroethane		0.0100	**0.0104**	104	70-130			0.0010
Tetrachloroethene		0.0100	**0.00964**	96	70-130			0.0010
Toluene		0.0100	**0.00905**	91	70-130			0.0010
1,2,4-Trichlorobenzene		0.0100	**0.00737**	74	70-130			0.0010
1,1,1-Trichloroethane		0.0100	**0.00890**	89	70-130			0.0010
1,1,2-Trichloroethane		0.0100	**0.00941**	94	70-130			0.0010
Trichloroethene		0.0100	**0.00864**	86	70-130			0.0010
Trichlorofluoromethane		0.0100	**0.00947**	95	70-130			0.0010
1,2,3-Trichloropropane		0.0100	**0.0107**	107	70-130			0.0010
Vinyl Chloride		0.0100	**0.00820**	82	70-130			0.0010
Xylene (Total)		0.0300	**0.0290**	97	70-130			0.0030

Laboratory Control Sample Analyzed: 05/20/2009 By: JDM
Unit: ug/L Analytical Batch: 9E21025

Surrogates:		
Dibromofluoromethane	*101*	*82-118*
1,2-Dichloroethane-d4	*95*	*75-128*
Toluene-d8	*98*	*88-108*
4-Bromofluorobenzene	*99*	*82-114*

Laboratory Control Sample Duplicate Analyzed: 05/20/2009 By: JDM
Unit: mg/L Analytical Batch: 9E21025

Benzene		0.0100	**0.00885**	88	70-130	2	20	0.0010

Continued on next page

QUALITY CONTROL REPORT

Volatile Organic Compounds in Drinking Water by EPA Method 524.2 (Continued)

QC Batch: 0905713 (Continued) 5030B Aqueous Purge & Trap/USEPA-524.2

Laboratory Control Sample Duplicate (Continued) Analyzed: 05/20/2009 By: JDM

Unit: mg/L Analytical Batch: 9E21025

Analyte	Sample Conc.	Spike Qty.	Result	Spike % Rec.	Control Limits	RPD	RPD Limits	RL
Bromobenzene	0.0100	**0.00894**		89	70-130	0.4	20	0.0010
Bromodichloromethane	0.0100	**0.00937**		94	70-130	1	20	0.0010
Bromoform	0.0100	**0.0106**		106	70-130	0.2	20	0.0010
Bromomethane	0.0100	**0.00711**		71	70-130	13	20	0.0010
Carbon Tetrachloride	0.0100	**0.00947**		95	70-130	3	20	0.0010
Chlorobenzene	0.0100	**0.00912**		91	70-130	1	20	0.0010
Chloroethane	0.0100	**0.00886**		89	70-130	7	20	0.0010
Chloroform	0.0100	**0.00871**		87	70-130	2	20	0.0010
Chloromethane	0.0100	**0.00803**		80	70-130	1	20	0.0010
2-Chlorotoluene	0.0100	**0.00925**		92	70-130	0.1	20	0.0010
4-Chlorotoluene	0.0100	**0.00936**		94	70-130	0.3	20	0.0010
Dibromochloromethane	0.0100	**0.0100**		100	70-130	0	20	0.0010
Dibromomethane	0.0100	**0.00924**		92	70-130	2	20	0.0010
1,2-Dichlorobenzene	0.0100	**0.00925**		92	70-130	0.2	20	0.0010
1,3-Dichlorobenzene	0.0100	**0.00942**		94	70-130	0.6	20	0.0010
1,4-Dichlorobenzene	0.0100	**0.00921**		92	70-130	0.1	20	0.0010
Dichlorodifluoromethane	0.0100	**0.00760**		76	70-130	1	20	0.0010
1,1-Dichloroethane	0.0100	**0.00854**		85	70-130	0.8	20	0.0010
1,2-Dichloroethane	0.0100	**0.00866**		87	70-130	2	20	0.0010
1,1-Dichloroethene	0.0100	**0.00876**		88	70-130	3	20	0.0010
cis-1,2-Dichloroethene	0.0100	**0.00889**		89	70-130	0	20	0.0010
trans-1,2-Dichloroethene	0.0100	**0.00925**		92	70-130	3	20	0.0010
1,2-Dichloropropane	0.0100	**0.00885**		88	70-130	0.1	20	0.0010
1,3-Dichloropropane	0.0100	**0.00927**		93	70-130	0.5	20	0.0010
2,2-Dichloropropane	0.0100	**0.0109**		109	70-130	2	20	0.0010
1,1-Dichloropropene	0.0100	**0.00879**		88	70-130	4	20	0.0010
cis-1,3-Dichloropropene	0.0100	**0.00872**		87	70-130	3	20	0.0010
trans-1,3-Dichloropropene	0.0100	**0.00895**		90	70-130	0.4	20	0.0010
Ethylbenzene	0.0100	**0.00932**		93	70-130	0.4	20	0.0010
Methylene Chloride	0.0100	**0.00862**		86	70-130	0.1	20	0.0050
Styrene	0.0100	**0.00986**		99	70-130	1	20	0.0010
1,1,1,2-Tetrachloroethane	0.0100	**0.0101**		101	70-130	0.7	20	0.0010
1,1,2,2-Tetrachloroethane	0.0100	**0.0101**		101	70-130	3	20	0.0010
Tetrachloroethene	0.0100	**0.00967**		97	70-130	0.3	20	0.0010
Toluene	0.0100	**0.00907**		91	70-130	0.2	20	0.0010
1,2,4-Trichlorobenzene	0.0100	**0.00754**		75	70-130	2	20	0.0010

Continued on next page

QUALITY CONTROL REPORT

Volatile Organic Compounds in Drinking Water by EPA Method 524.2 (Continued)

Analyte	Sample Conc.	Spike Qty.	Result	Spike % Rec.	Control Limits	RPD	RPD Limits	RL
QC Batch: 0905713 (Continued) 5030B Aqueous Purge & Trap/USEPA-524.2								
Laboratory Control Sample Duplicate (Continued)					Analyzed:		05/20/2009	By: JDM
Unit: mg/L					Analytical Batch:		9E21025	
1,1,1-Trichloroethane	0.0100		**0.00888**	89	70-130	0.2	20	0.0010
1,1,2-Trichloroethane	0.0100		**0.00948**	95	70-130	0.7	20	0.0010
Trichloroethene	0.0100		**0.00893**	89	70-130	3	20	0.0010
Trichlorofluoromethane	0.0100		**0.00979**	98	70-130	3	20	0.0010
1,2,3-Trichloropropane	0.0100		**0.0101**	101	70-130	5	20	0.0010
Vinyl Chloride	0.0100		**0.00851**	85	70-130	4	20	0.0010
Xylene (Total)	0.0300		**0.0293**	98	70-130	0.8	20	0.0030
Laboratory Control Sample Duplicate					Analyzed:		05/20/2009	By: JDM
Unit: ug/L					Analytical Batch:		9E21025	
Surrogates:								
Dibromofluoromethane				*101*	*82-118*			
1,2-Dichloroethane-d4				*96*	*75-128*			
Toluene-d8				*99*	*88-108*			
4-Bromofluorobenzene				*98*	*82-114*			

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STATEMENT OF DATA QUALIFICATIONS

Volatile Organic Compounds in Drinking Water by EPA Method 524.2

Qualification: The LCS and/or LCSD recovery was less than the lower control limit but greater than or equal to 10%. All results for this analyte in all samples from the associated QC batch are considered estimated.

Analysis: USEPA-524.2

Sample/Analyte:		
0905290-01	B-37 (38.5-42.5)	Bromomethane
0905290-02	B-38 (15-19)	Bromomethane
0905290-03	B-36 (16-20)	Bromomethane
0905290-04	B-39 (15-19)	Bromomethane
0905290-05	B-36 (12-16)	Bromomethane
0905290-06	B-38 (36-40)	Bromomethane
0905290-07	MW-14S	Bromomethane
0905290-08	MW-11S	Bromomethane
0905290-09	DUP-01	Bromomethane
0905290-10	TB-01	Bromomethane
0905290-11	MW-13S	Bromomethane
0905290-12	MW-12S	Bromomethane
0905290-13	MW-15S	Bromomethane
0905290-14	B-40 (42-46)	Bromomethane
0905290-15	B-40 (16-20)	Bromomethane
0905290-16	MW-10S	Bromomethane
0905290-17	DUP-02	Bromomethane

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TriMatrix Laboratories, Inc.

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www.trimatrixlabs.com

Chain of Custody Record

COC No. 128647

Page 1 of 2

For Lab Use Only
Cart: 8
VOA Rack/Tray: 400R, 359 G
Receipt Log No.: 27.1
Project Chemist:
Laboratory Project No.: 0905290

Client Name: RMT
Address: 3754 Ranchero Drive
Ann Arbor, MI 48108
Phone: 734.971.7080
Fax: 734.971.9022

Project Name: Tecumseh Products
Client Project No./P.O. No.: 8070.02
Invoice No. ☐ Client ☐ Other (comments)
Contact/Report To: ~~G. Crockford~~ John Bacon

Analyses Requested

Container Type (corresponds to Container Packing List)

PRESERVATIVES
A NONE pH~7
B HNO_3 pH<2
C H_2SO_4 pH<2
D 1+1 HCl pH<2
E NaOH pH>12
F ZnAc/NaOH pH>9
G MeOH
H Other (note below)

Test Group	Matrix Code	Laboratory Sample Number		Sample ID	Cooler ID	Sample Date	Sample Time	COMP	GRAB	Matrix	D: VOC	A: 1,4 Dioxane	Total	Sample Comments
04		01	1	B-37 (38.5 - 42.5)		5/12/09	1328		X	GW	2		2	
|		02	2	B-38 (15-19)		5/13/09	1303		X		2		2	
|		03	3	B-36 (16-20)		|	1002		X		2		2	
|		04	4	B-39 (15-19)		|	1532		X		2		2	
|		05	5	B-36 (12-16)		|	0920		X		2		2	
|		06	6	B-38 (36-40)		↓	1240		X		2		2	
04		07	7	MW-14S		5/14/09	1015		X		2	2	4	
06		08	8	MW-11S		↓	1600		X		2		2	
1		09	9	DUP-01		5/13	—		X	GW	2		2	
05		10	10	TB-01		-	—		—	DI	1		1	

Sampled By (print): Brent Ritchie
Sampler's Signature:
Company: RMT

How Shipped? Hand Carrier: Fed ex
Tracking No.:

Comments:

1. Relinquished By	Date	Time	2. Relinquished By	Date	Time	3. Relinquished By	Date	Time
	5/14/09	5:00	FEDEX					

1. Received By	Date	Time	2. Received By	Date	Time	3. Received For Lab By	Date	Time
FEDEX	5/15/09	5:00					5.18.09	0745

TriMatrixCOC – COC

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Chain of Custody Record

COC No. 128633

Page 2 of 2

For Lab Use Only
Cart: 8
VOA Rack/Tray: 400R, 359 G7
Receipt Log No.: 27.1
Project Chemist: JR
Laboratory Project No.: 0905290

Client Name: RMT
Address: 3754 Ranchero Dr, Ann Arbor, MI 48108
Phone: 734.971.7080
Fax: 734.971.9022

Project Name: Tecumseh Products
Client Project No./P.O. No.: 8070.02
Invoice No.: ☐ Client ☐ Other (comments)
Contact/Report To: John Bacon

Analyses Requested

Container Type (corresponds to Container Packing List): D

VOCs

PRESERVATIVES
A NONE pH~7
B HNO_3 pH<2
C H_2SO_4 pH<2
D 1+1 HCl pH<2
E NaOH pH>12
F ZnAc/NaOH pH>9
G MeOH
H Other (note below)

Test Group	Matrix Code	Laboratory Sample Number		Sample ID	Cooler ID	Sample Date	Sample Time	COMP	GRAB	Matrix	Number of Containers Submitted: 1	Total	Sample Comments
VOC		11	1	MW-13S		5/15/09	920		X	GW	2	2	
		12	2	MW-12S			950		X	GW	2	2	
		13	3	MW-15S			1131		X	GW	2	2	
		14	4	B-40 (42-46)			1430		X	GW	2	2	
		15	5	B-40 (16-20)			1446		X	GW	2	2	
		16	6	MW-10S			1514		X	GW	2	2	
			7										
			8										
			9										
VOC		17	10	DUP-02		—	—		X	GW	2	2	

Sampled By (print): Brent Ritchie
Sampler's Signature:
Company: RMT

How Shipped? Hand Carrier: Fedex
Tracking No.:

Comments:

1. Relinquished By	Date	Time	2. Relinquished By	Date	Time	3. Relinquished By	Date	Time
	5/15/09	5:00	FEDEX					
1. Received By	Date	Time	2. Received By	Date	Time	3. Received For Lab By	Date	Time
FEDEX	5/15/09	5:00					5.18.09	0745

TriMatrixCOC -- COC WHITE COPY - REPORT YELLOW COPY - LABORATORY PINK COPY - FIELD

August 03, 2009

RMT, Inc. - Ann Arbor Office
Attn: John Bacon
3754 Ranchero Drive
Ann Arbor, MI 48108-2771

Project: Tecumseh Products

Dear John Bacon,

Enclosed is a copy of the laboratory report, comprised of the following work order(s), for test samples received by TriMatrix Laboratories:

Work Order	Received	Description
0907498	07/25/2009	Laboratory Services

This report relates only to the sample(s), as received. Test results are in compliance with the requirements of the National Environmental Laboratory Accreditation Conference (NELAC). Any qualifications of results, including sample acceptance requirements, are explained in the Statement of Data Qualifications.

Estimates of analytical uncertainties for the test results contained within this report are available upon request.

If you have any questions or require further information, please do not hesitate to contact me.

Sincerely,

Jennifer L. Rice
Project Chemist

Enclosures(s)

5560 Corporate Exchange Court SE • Grand Rapids, MI 49512 • (616) 975-4500 • Fax (616) 942-7463

ANALYTICAL REPORT

Client:	**RMT, Inc. - Ann Arbor Office**	Work Order:	**0907498**
Project:	Tecumseh Products	Description:	Laboratory Services
Client Sample ID:	**MW-17S**	Sampled:	07/23/09 16:25
Lab Sample ID:	**0907498-01**	Sampled By:	B. Ritchie
Matrix:	Water	Received:	07/25/09 08:55
Unit:	ug/L	Prepared:	07/27/09 By: DLV
Dilution Factor:	1	Analyzed:	07/27/09 By: DLV
QC Batch:	0908638	Analytical Batch:	9G28010

Volatile Organic Compounds by EPA Method 8260B

CAS Number	Analyte	Analytical Result	RL
67-64-1	Acetone	<20	20
107-13-1	Acrylonitrile	<2.0	2.0
71-43-2	Benzene	<1.0	1.0
108-86-1	Bromobenzene	<1.0	1.0
74-97-5	Bromochloromethane	<1.0	1.0
75-27-4	Bromodichloromethane	<1.0	1.0
75-25-2	Bromoform	<1.0	1.0
74-83-9	Bromomethane	<5.0	5.0
104-51-8	n-Butylbenzene	<1.0	1.0
135-98-8	sec-Butylbenzene	<1.0	1.0
98-06-6	tert-Butylbenzene	<1.0	1.0
75-15-0	Carbon Disulfide	<1.0	1.0
56-23-5	Carbon Tetrachloride	<1.0	1.0
108-90-7	Chlorobenzene	<1.0	1.0
75-00-3	Chloroethane	<5.0	5.0
67-66-3	Chloroform	<1.0	1.0
74-87-3	Chloromethane	<5.0	5.0
96-12-8	1,2-Dibromo-3-chloropropane	<5.0	5.0
124-48-1	Dibromochloromethane	<1.0	1.0
106-93-4	1,2-Dibromoethane	<1.0	1.0
74-95-3	Dibromomethane	<1.0	1.0
110-57-6	trans-1,4-Dichloro-2-butene	<1.0	1.0
95-50-1	1,2-Dichlorobenzene	<1.0	1.0
541-73-1	1,3-Dichlorobenzene	<1.0	1.0
106-46-7	1,4-Dichlorobenzene	<1.0	1.0
75-71-8	Dichlorodifluoromethane	<5.0	5.0
75-34-3	1,1-Dichloroethane	<1.0	1.0
107-06-2	1,2-Dichloroethane	<1.0	1.0
75-35-4	1,1-Dichloroethene	<1.0	1.0
156-59-2	cis-1,2-Dichloroethene	<1.0	1.0
156-60-5	trans-1,2-Dichloroethene	<1.0	1.0

Continued on next page

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ANALYTICAL REPORT

Client:	**RMT, Inc. - Ann Arbor Office**	Work Order:	**0907498**
Project:	Tecumseh Products	Description:	Laboratory Services
Client Sample ID:	**MW-17S**	Sampled:	07/23/09 16:25
Lab Sample ID:	**0907498-01**	Sampled By:	B. Ritchie
Matrix:	Water	Received:	07/25/09 08:55
Unit:	ug/L	Prepared:	07/27/09 By: DLV
Dilution Factor:	1	Analyzed:	07/27/09 By: DLV
QC Batch:	0908638	Analytical Batch:	9G28010

Volatile Organic Compounds by EPA Method 8260B (Continued)

CAS Number	Analyte	Analytical Result	RL
78-87-5	1,2-Dichloropropane	<1.0	1.0
10061-01-5	cis-1,3-Dichloropropene	<1.0	1.0
10061-02-6	trans-1,3-Dichloropropene	<1.0	1.0
100-41-4	Ethylbenzene	<1.0	1.0
60-29-7	Ethyl Ether	<5.0	5.0
591-78-6	2-Hexanone	<5.0	5.0
74-88-4	Iodomethane	<1.0	1.0
98-82-8	Isopropylbenzene	<1.0	1.0
99-87-6	4-Isopropyltoluene	<5.0	5.0
1634-04-4	Methyl tert-Butyl Ether	<5.0	5.0
75-09-2	Methylene Chloride	<5.0	5.0
78-93-3	2-Butanone (MEK)	<5.0	5.0
91-57-6	2-Methylnaphthalene	<5.0	5.0
108-10-1	4-Methyl-2-pentanone (MIBK)	<5.0	5.0
91-20-3	Naphthalene	<5.0	5.0
103-65-1	n-Propylbenzene	<1.0	1.0
100-42-5	Styrene	<1.0	1.0
630-20-6	1,1,1,2-Tetrachloroethane	<1.0	1.0
79-34-5	1,1,2,2-Tetrachloroethane	<1.0	1.0
127-18-4	Tetrachloroethene	<1.0	1.0
109-99-9	Tetrahydrofuran	<5.0	5.0
108-88-3	Toluene	<1.0	1.0
87-61-6	1,2,3-Trichlorobenzene	<5.0	5.0
120-82-1	1,2,4-Trichlorobenzene	<5.0	5.0
71-55-6	1,1,1-Trichloroethane	<1.0	1.0
79-00-5	1,1,2-Trichloroethane	<1.0	1.0
79-01-6	Trichloroethene	<1.0	1.0
75-69-4	Trichlorofluoromethane	<1.0	1.0
96-18-4	1,2,3-Trichloropropane	<1.0	1.0
95-63-6	1,2,4-Trimethylbenzene	<1.0	1.0
108-67-8	1,3,5-Trimethylbenzene	<1.0	1.0

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ANALYTICAL REPORT

Client:	**RMT, Inc. - Ann Arbor Office**	Work Order:	**0907498**
Project:	Tecumseh Products	Description:	Laboratory Services
Client Sample ID:	**MW-17S**	Sampled:	07/23/09 16:25
Lab Sample ID:	**0907498-01**	Sampled By:	B. Ritchie
Matrix:	Water	Received:	07/25/09 08:55
Unit:	ug/L	Prepared:	07/27/09 By: DLV
Dilution Factor:	1	Analyzed:	07/27/09 By: DLV
QC Batch:	0908638	Analytical Batch:	9G28010

Volatile Organic Compounds by EPA Method 8260B (Continued)

CAS Number	Analyte	Analytical Result	RL
75-01-4	Vinyl Chloride	<1.0	1.0
136777-61-2	Xylene, Meta + Para	<2.0	2.0
95-47-6	Xylene, Ortho	<1.0	1.0

Surrogates:	*% Recovery*	*Control Limits*
Dibromofluoromethane	102	*88-115*
1,2-Dichloroethane-d4	102	*81-116*
Toluene-d8	104	*87-113*
4-Bromofluorobenzene	96	*78-116*

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ANALYTICAL REPORT

Client:	**RMT, Inc. - Ann Arbor Office**	Work Order:	**0907498**
Project:	Tecumseh Products	Description:	Laboratory Services
Client Sample ID:	**MW-17S**	Sampled:	07/23/09 16:25
Lab Sample ID:	**0907498-01**	Sampled By:	B. Ritchie
Matrix:	Water	Received:	07/25/09 08:55
Unit:	ug/L	Prepared:	07/29/09 By: BJH
Dilution Factor:	1	Analyzed:	07/30/09 By: DMC
QC Batch:	0908612	Analytical Batch:	9G30043

Semivolatile Organic Compounds by EPA Method 8270C

CAS Number	Analyte	Analytical Result	RL
123-91-1	1,4-Dioxane	<3.0	3.0

Surrogates:	*% Recovery*	*Control Limits*
Nitrobenzene-d5	81	*31-123*
2-Fluorobiphenyl	73	*25-113*
o-Terphenyl	93	*42-125*

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ANALYTICAL REPORT

Client:	**RMT, Inc. - Ann Arbor Office**	Work Order:	**0907498**
Project:	Tecumseh Products	Description:	Laboratory Services
Client Sample ID:	**TB-01**	Sampled:	07/23/09 00:00
Lab Sample ID:	**0907498-02**	Sampled By:	TML
Matrix:	Water	Received:	07/25/09 08:55
Unit:	ug/L	Prepared:	07/27/09 By: DLV
Dilution Factor:	1	Analyzed:	07/27/09 By: DLV
QC Batch:	0908638	Analytical Batch:	9G28010

Volatile Organic Compounds by EPA Method 8260B

CAS Number	Analyte	Analytical Result	RL
67-64-1	Acetone	<20	20
107-13-1	Acrylonitrile	<2.0	2.0
71-43-2	Benzene	<1.0	1.0
108-86-1	Bromobenzene	<1.0	1.0
74-97-5	Bromochloromethane	<1.0	1.0
75-27-4	Bromodichloromethane	<1.0	1.0
75-25-2	Bromoform	<1.0	1.0
74-83-9	Bromomethane	<5.0	5.0
104-51-8	n-Butylbenzene	<1.0	1.0
135-98-8	sec-Butylbenzene	<1.0	1.0
98-06-6	tert-Butylbenzene	<1.0	1.0
75-15-0	Carbon Disulfide	<1.0	1.0
56-23-5	Carbon Tetrachloride	<1.0	1.0
108-90-7	Chlorobenzene	<1.0	1.0
75-00-3	Chloroethane	<5.0	5.0
67-66-3	Chloroform	<1.0	1.0
74-87-3	Chloromethane	<5.0	5.0
96-12-8	1,2-Dibromo-3-chloropropane	<5.0	5.0
124-48-1	Dibromochloromethane	<1.0	1.0
106-93-4	1,2-Dibromoethane	<1.0	1.0
74-95-3	Dibromomethane	<1.0	1.0
110-57-6	trans-1,4-Dichloro-2-butene	<1.0	1.0
95-50-1	1,2-Dichlorobenzene	<1.0	1.0
541-73-1	1,3-Dichlorobenzene	<1.0	1.0
106-46-7	1,4-Dichlorobenzene	<1.0	1.0
75-71-8	Dichlorodifluoromethane	<5.0	5.0
75-34-3	1,1-Dichloroethane	<1.0	1.0
107-06-2	1,2-Dichloroethane	<1.0	1.0
75-35-4	1,1-Dichloroethene	<1.0	1.0
156-59-2	cis-1,2-Dichloroethene	<1.0	1.0
156-60-5	trans-1,2-Dichloroethene	<1.0	1.0

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ANALYTICAL REPORT

Client:	**RMT, Inc. - Ann Arbor Office**	Work Order:	**0907498**
Project:	Tecumseh Products	Description:	Laboratory Services
Client Sample ID:	**TB-01**	Sampled:	07/23/09 00:00
Lab Sample ID:	**0907498-02**	Sampled By:	TML
Matrix:	Water	Received:	07/25/09 08:55
Unit:	ug/L	Prepared:	07/27/09 By: DLV
Dilution Factor:	1	Analyzed:	07/27/09 By: DLV
QC Batch:	0908638	Analytical Batch:	9G28010

Volatile Organic Compounds by EPA Method 8260B (Continued)

CAS Number	Analyte	Analytical Result	RL
78-87-5	1,2-Dichloropropane	<1.0	1.0
10061-01-5	cis-1,3-Dichloropropene	<1.0	1.0
10061-02-6	trans-1,3-Dichloropropene	<1.0	1.0
100-41-4	Ethylbenzene	<1.0	1.0
60-29-7	Ethyl Ether	<5.0	5.0
591-78-6	2-Hexanone	<5.0	5.0
74-88-4	Iodomethane	<1.0	1.0
98-82-8	Isopropylbenzene	<1.0	1.0
99-87-6	4-Isopropyltoluene	<5.0	5.0
1634-04-4	Methyl tert-Butyl Ether	<5.0	5.0
75-09-2	Methylene Chloride	<5.0	5.0
78-93-3	2-Butanone (MEK)	<5.0	5.0
91-57-6	2-Methylnaphthalene	<5.0	5.0
108-10-1	4-Methyl-2-pentanone (MIBK)	<5.0	5.0
91-20-3	Naphthalene	<5.0	5.0
103-65-1	n-Propylbenzene	<1.0	1.0
100-42-5	Styrene	<1.0	1.0
630-20-6	1,1,1,2-Tetrachloroethane	<1.0	1.0
79-34-5	1,1,2,2-Tetrachloroethane	<1.0	1.0
127-18-4	Tetrachloroethene	<1.0	1.0
109-99-9	Tetrahydrofuran	<5.0	5.0
108-88-3	Toluene	<1.0	1.0
87-61-6	1,2,3-Trichlorobenzene	<5.0	5.0
120-82-1	1,2,4-Trichlorobenzene	<5.0	5.0
71-55-6	1,1,1-Trichloroethane	<1.0	1.0
79-00-5	1,1,2-Trichloroethane	<1.0	1.0
79-01-6	Trichloroethene	<1.0	1.0
75-69-4	Trichlorofluoromethane	<1.0	1.0
96-18-4	1,2,3-Trichloropropane	<1.0	1.0
95-63-6	1,2,4-Trimethylbenzene	<1.0	1.0
108-67-8	1,3,5-Trimethylbenzene	<1.0	1.0

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ANALYTICAL REPORT

Client:	**RMT, Inc. - Ann Arbor Office**	Work Order:	**0907498**
Project:	Tecumseh Products	Description:	Laboratory Services
Client Sample ID:	**TB-01**	Sampled:	07/23/09 00:00
Lab Sample ID:	**0907498-02**	Sampled By:	TML
Matrix:	Water	Received:	07/25/09 08:55
Unit:	ug/L	Prepared:	07/27/09 By: DLV
Dilution Factor:	1	Analyzed:	07/27/09 By: DLV
QC Batch:	0908638	Analytical Batch:	9G28010

Volatile Organic Compounds by EPA Method 8260B (Continued)

CAS Number	Analyte	Analytical Result	RL
75-01-4	Vinyl Chloride	<1.0	1.0
136777-61-2	Xylene, Meta + Para	<2.0	2.0
95-47-6	Xylene, Ortho	<1.0	1.0

Surrogates:	*% Recovery*	*Control Limits*
Dibromofluoromethane	104	*88-115*
1,2-Dichloroethane-d4	103	*81-116*
Toluene-d8	106	*87-113*
4-Bromofluorobenzene	94	*78-116*

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QUALITY CONTROL REPORT

Volatile Organic Compounds by EPA Method 8260B

Analyte	Sample Conc.	Spike Qty.	Result	Spike % Rec.	Control Limits	RPD	RPD Limits	RL

QC Batch: 0908638 5030B Aqueous Purge & Trap/USEPA-8260B

Method Blank Analyzed: 07/27/2009 By: DLV

Unit: ug/L Analytical Batch: 9G28010

Acetone	<20	20
Acrylonitrile	<2.0	2.0
Benzene	<1.0	1.0
Bromobenzene	<1.0	1.0
Bromochloromethane	<1.0	1.0
Bromodichloromethane	<1.0	1.0
Bromoform	<1.0	1.0
Bromomethane	<5.0	5.0
n-Butylbenzene	<1.0	1.0
sec-Butylbenzene	<1.0	1.0
tert-Butylbenzene	<1.0	1.0
Carbon Disulfide	<1.0	1.0
Carbon Tetrachloride	<1.0	1.0
Chlorobenzene	<1.0	1.0
Chloroethane	<5.0	5.0
Chloroform	<1.0	1.0
Chloromethane	<5.0	5.0
1,2-Dibromo-3-chloropropane	<5.0	5.0
Dibromochloromethane	<1.0	1.0
1,2-Dibromoethane	<1.0	1.0
Dibromomethane	<1.0	1.0
trans-1,4-Dichloro-2-butene	<1.0	1.0
1,2-Dichlorobenzene	<1.0	1.0
1,3-Dichlorobenzene	<1.0	1.0
1,4-Dichlorobenzene	<1.0	1.0
Dichlorodifluoromethane	<5.0	5.0
1,1-Dichloroethane	<1.0	1.0
1,2-Dichloroethane	<1.0	1.0
1,1-Dichloroethene	<1.0	1.0
cis-1,2-Dichloroethene	<1.0	1.0
trans-1,2-Dichloroethene	<1.0	1.0
1,2-Dichloropropane	<1.0	1.0
cis-1,3-Dichloropropene	<1.0	1.0
trans-1,3-Dichloropropene	<1.0	1.0
Ethylbenzene	<1.0	1.0
Ethyl Ether	<5.0	5.0

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QUALITY CONTROL REPORT

Volatile Organic Compounds by EPA Method 8260B (Continued)

Analyte	Sample Conc.	Spike Qty.	Result	Spike % Rec.	Control Limits	RPD	RPD Limits	RL

QC Batch: 0908638 (Continued) 5030B Aqueous Purge & Trap/USEPA-8260B

Method Blank (Continued) Analyzed: 07/27/2009 By: DLV

Unit: ug/L Analytical Batch: 9G28010

2-Hexanone	<5.0			5.0
Iodomethane	<1.0			1.0
Isopropylbenzene	<1.0			1.0
4-Isopropyltoluene	<5.0			5.0
Methyl tert-Butyl Ether	<5.0			5.0
Methylene Chloride	<5.0			5.0
2-Butanone (MEK)	<5.0			5.0
2-Methylnaphthalene	<5.0			5.0
4-Methyl-2-pentanone (MIBK)	<5.0			5.0
Naphthalene	<5.0			5.0
n-Propylbenzene	<1.0			1.0
Styrene	<1.0			1.0
1,1,1,2-Tetrachloroethane	<1.0			1.0
1,1,2,2-Tetrachloroethane	<1.0			1.0
Tetrachloroethene	<1.0			1.0
Tetrahydrofuran	<5.0			5.0
Toluene	<1.0			1.0
1,2,3-Trichlorobenzene	<5.0			5.0
1,2,4-Trichlorobenzene	<5.0			5.0
1,1,1-Trichloroethane	<1.0			1.0
1,1,2-Trichloroethane	<1.0			1.0
Trichloroethene	<1.0			1.0
Trichlorofluoromethane	<1.0			1.0
1,2,3-Trichloropropane	<1.0			1.0
1,2,4-Trimethylbenzene	<1.0			1.0
1,3,5-Trimethylbenzene	<1.0			1.0
Vinyl Chloride	<1.0			1.0
Xylene, Meta + Para	<2.0			2.0
Xylene, Ortho	<1.0			1.0
Surrogates:				
Dibromofluoromethane		*104*	*88-115*	
1,2-Dichloroethane-d4		*100*	*81-116*	
Toluene-d8		*105*	*87-113*	
4-Bromofluorobenzene		*97*	*78-116*	

Laboratory Control Sample Analyzed: 07/27/2009 By: DLV

Unit: ug/L Analytical Batch: 9G28010

Benzene	40.0	**36.4**	91	86-122	1.0

Continued on next page

QUALITY CONTROL REPORT

Volatile Organic Compounds by EPA Method 8260B (Continued)

Analyte	Sample Conc.	Spike Qty.	Result	Spike % Rec.	Control Limits	RPD	RPD Limits	RL

QC Batch: 0908638 (Continued) 5030B Aqueous Purge & Trap/USEPA-8260B

Laboratory Control Sample (Continued) Analyzed: 07/27/2009 By: DLV

Unit: ug/L Analytical Batch: 9G28010

Chlorobenzene	40.0	**37.0**	92	88-114		1.0
1,1-Dichloroethene	40.0	**36.6**	91	81-125		1.0
Toluene	40.0	**35.2**	88	87-123		1.0
Trichloroethene	40.0	**36.4**	91	80-122		1.0
Surrogates:						
Dibromofluoromethane			*99*	*88-115*		
1,2-Dichloroethane-d4			*97*	*81-116*		
Toluene-d8			*97*	*87-113*		
4-Bromofluorobenzene			*100*	*78-116*		

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QUALITY CONTROL REPORT

Semivolatile Organic Compounds by EPA Method 8270C

Analyte	Sample Conc.	Spike Qty.	Result	Spike % Rec.	Control Limits	RPD	RPD Limits	RL
QC Batch: 0908612 3510C Liquid-Liquid Extraction/USEPA-8270C								
Method Blank					Analyzed:		07/30/2009	By: DMC
Unit: ug/L					Analytical Batch:		9G30043	
1,4-Dioxane			<3.0					3.0
Surrogates:								
Nitrobenzene-d5				*83*	*31-123*			
2-Fluorobiphenyl				*74*	*25-113*			
o-Terphenyl				*79*	*42-125*			
Laboratory Control Sample					Analyzed:		07/30/2009	By: DMC
Unit: ug/L					Analytical Batch:		9G30043	
1,4-Dioxane		10.0	**4.72**	47	21-100			3.0
Surrogates:								
Nitrobenzene-d5				*86*	*31-123*			
2-Fluorobiphenyl				*81*	*25-113*			
o-Terphenyl				*87*	*42-125*			
Laboratory Control Sample Duplicate					Analyzed:		07/30/2009	By: DMC
Unit: ug/L					Analytical Batch:		9G30043	
1,4-Dioxane		10.0	**4.54**	45	21-100	4	20	3.0
Surrogates:								
Nitrobenzene-d5				*88*	*31-123*			
2-Fluorobiphenyl				*85*	*25-113*			
o-Terphenyl				*88*	*42-125*			

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STATEMENT OF DATA QUALIFICATIONS

All analyses have been validated and comply with our Quality Control Program.
No Qualifications required.

5560 Corporate Exchange Court SE • Grand Rapids, MI 49512 • (616) 975-4500 • Fax (616) 942-7463

TriMatrix Laboratories, Inc.
5560 Corporate Exchange Court SE Grand Rapids, MI 49512
Phone (616) 975-4500 Fax (616) 942-7463
www.trimatrixlabs.com

Chain of Custody Record

COC No. 128849

Page 1 of 1

For Lab Use Only

Cart: 5
VOA Rack/Tray: 645 G
Receipt Log No.: 41-7
Project Chemist:
Laboratory Project No.: 0907498

Client Name: RMT
Address: 3754 Rancheso Dr
Ann Arbor, MI 48108
Phone: 734.971.7080
Fax: 734.971.9022

Project Name: Tecumseh Products
Client Project No./P.O. No.: 8070.02
Invoice No. ☐ Client ☐ Other (comments)
Contact/Report To: John Bacon

Analyses Requested

Test Group	Matrix Code	Laboratory Sample Number		Sample ID	Cooler ID	Sample Date	Sample Time	COMP	GRAB	Matrix	D VOCs	A 1,4 Dioxane	Total	Sample Comments
07		01	1	MW-17S	-	7/23/09	1625		X	GW	3 X	1 X		
03		02	2	TB-01	-	-	-		X	DI	1 X			
			3											
			4											
			5											
			6											
			7											
			8											
			9											
			10											

Container Type (corresponds to Container Packing List)
Number of Containers Submitted

PRESERVATIVES
A NONE pH~7
B HNO_3 pH<2
C H_2SO_4 pH<2
D 1+1 HCl pH<2
E NaOH pH>12
F ZnAc/NaOH pH>9
G MeOH
H Other (note below)

Sampled By (print): Brent Ritchie
Sampler's Signature:
Company: RMT

How Shipped? Hand Carrier: Fedex
Tracking No.:

Comments: * 1 week TAT requested

1. Relinquished By	Date	Time	2. Relinquished By	Date	Time	3. Relinquished By	Date	Time
	7/24/09	1100	FEDEX					
1. Received By	Date	Time	2. Received By	Date	Time	3. Received For Lab By	Date	Time
FEDEX	7/24/09	1100					7/25/09	0855

Fed EX

CATEGORY "S"
BASELINE ENVIRONMENTAL ASSESSMENT
FORMER TECUMSEH PRODUCTS PLANT
100 AND 101 EAST PATTERSON STREET
TECUMSEH, MICHIGAN
ATC PROJECT NO.: 39.02922.8N01

VOLUME 3 OF 3

APPENDIX H

LIST OF APPROVED HAZARDOUS SUBSTANCES FOR ON-SITE USE/STORAGE, LIST OF PROHIBITED HAZARDOUS SUBSTANCES AND MATERIAL SAFETY DATA SHEETS

VOLUME 3 OF 3

EXHIBIT B

APPROVED HAZARDOUS SUBSTANCES

number	Chemical or Material Identification	Supplier	vendor number	Maximum Amount in Stock	Storage Container Information
111	Xylenes	Fisher	X5-20	20 liters	metal can
122	Arsenic, 100 ppm	Conostan		100 ml	glass bottle
131	Lead, Concentrate, 10.47% Pb	Conostan		50 ml	plastic bottle
174	Industrial Enamel	Sherwin Williams	B54 T 104	1 gallon	metal can
175	Impervo Enamel #1 Base	Benjamin Moore & Co.	23591	1 gallon	metal can
176	Flash Bond 400 White Primer	X-I-M Products, Inc.		1 gallon	metal can
177	Fabulon Crystal Gloss Wood Finish	Pierce & Stevens Co.	P83-1274-1	8 X 1 gallon	metal can
182	Almond	Rust-Oleum	V2170	4 X 15 ounces	metal spray can
183	Semi-gloss Black	Rust-Oleum	V2177	3 X 15 ounces	metal spray can
184	Safety Blue	Rust-Oleum	7524	1 X 15 ounces	metal spray can
186	Gloss Black	Rust-Oleum	7579	1 X 1 quart	metal can
188	Smoke Gray, oil based enamel	Rust-Oleum	7786	1 gallon	metal can
189	Heavy Duty Epoxy, HS 9381 Gray Primer	Rust-Oleum	HS 9381	1 gallon	metal can
190	Rust-O-Thane Aliphatic Polyurethane Coating, Gray Base Component	Rust-Oleum	9483	1 gallon	metal can
195	Opti Bond	Sherwin Williams	B50 W 100	1300 ounces	metal can
196	Industrial Enamel	Sherwin Williams	B54 W 101	5 gallons	metal can

197	Tile-Clad HS Epoxy	Sherwin Williams	B62 WZ 113	2 gallons	metal can
198	Tile-Clad HS Hardener	Sherwin Williams	B60 VZ 70	1 gallon	metal can
301	Quik Spray Gloss Black Enamel	Sheffield Bronze Paint Corp., Cleveland, OH 44119	UPC: 0 88289 14233	1 X 12 ounce	metal spray can
302	Quik Spray Gloss White Enamel	Sheffield Bronze Paint Corp., Cleveland, OH 44119	UPC: 0 88289 14231	1 X 12 ounce	metal spray can
303	Spravar Spray Paint, Black - Flat	Spravar (Sherwin Williams)	No P/N or UPC	1 X 11 ounce	metal spray can
304	Blitz Black Paint	John Deere, 1-800-822-8262	MSDS Sheet No. 8503-60,105	1 X 12 ounce	metal spray can
336	Glyptal 1201 Red Enamel (Insulating Paint)	Glyptal, Inc., Chelsea, MA 02150		1 X 1 gallon	metal can
354	Sprayon S00603 Blue Layout Fluid	Sherwin Williams (Diversified Brands)	MSDS: 1-800-955-MSDS (6737)	1 X 12 ounce	metal spray can
419	Corrosion Shield, Chassis Black	Sherwin Williams	F7B155	3 X 1 gallon	metal can
421	Hi-Glo Interlock Hardener	Western Automotive Finishes, Cleveland, OH 44115	W1020, UPC is partially missing	1 X 16 ounce	metal spray can

422	Super-Flo Enamel Reducer	Sherwin Williams	R4K179	2 X 1 gallon	metal can
423	Amendment 1 Thinner, Aircraft Coating	Sherwin Williams	R91 K 20	1 X 1 gallon	metal can
424	481LT-R Thinner	Brenntag Great Lakes, Butler, WI 53007	Prod. Code 672560 No UPC ph 262-252-6444	1 X 5 gallon	metal can
426	Auto Body Master Engine Enamel, AB606 Ford Dk Blu	Aftermarket Auto Parts Alliance, San Antonio, TX 78258	UPC: 0 71915 21554 4	1 X 11 ounce	metal spray can
427	Precision Color, Masterflux Purple (Packaged for Tecumseh Products Co.)	Raabe Company, 800-966-7580	04205 66163	3 X 12 ounce	metal spray can
438	Recoatable Epoxy Primer	Sherwin Williams	B67 V 5	2 X 1 gallon	metal can
451	Rust Oleum Enamel, Gloss Black	Rust Oleum Corp.	V2179, UPC: 0 20066 00128 5	1 X 15 ounce	metal spray can
452	Ace Premium Enamel, Chrome Aluminum	Ace Hardware Corp., Oak Brook, IL 60521	17006, UPC: 0 82901 17006 8	8 X 12 ounce	metal spray can
456	Kyrlon Paint, Plum Safety Purple	Kyrlon Division, Sherwin Williams	1929, UPC: 7 24504 01929 9	5 X 12 ounce	metal spray can

457	Rust Oleum Metallic Finish, Copper	Rust Oleum Corp.	7714, UPC: 0 20066 77148 5	2 X 11 ounce	metal spray can
459	Rust Oleum Safety Orange	Rust Oleum Corp.	2155, UPC: 0 20066 21559 0	1 X 15 ounce	metal spray can
460	Valspar Gloss Enamel, Gloss Gray	Valspar, Wheeling	64010, UPC: 0 71915 23239 8	1 X 12 ounce	metal spray can
461	Ace Rust Stopper Enamel, International Blue	Ace Hardware	17140, UPC: 0 82901 17140 9	1 X 15 ounce	metal spray can
463	Kyrlon Metallic Enamel, Bright Silver	Kyrlon Division, Sherwin Williams	1401, UPC: 7 24504 01401 0	1 x 11 ounce	metal spray can
467	Startex Liquid Sander Deglosser	Startex Chemical, Inc., Cut and Shoot, TX 77303	UPC: 0 86236 70029 7	1 X 1 gallon	metal can
475	Primer/Splice Wash 9705	Triumph Roofing Products, Carmel, IN 46032 5607	W56-GAC-4955, No UPC Now Firestone 317-575-7000	2 X 1 gallon	metal can

476	Splice Adhesive 9053	Triumph Roofing Products, Carmel, IN 46032 5607	W56-GAC-4043, No UPC now Firestone 317-575-7000	2 X 1 gallon	metal can
477	Tile-Clad HS	Sherwin Williams	B60 VZ 70	1 X 1 gallon	metal can
478	Xylene	Sherwin Williams	154-8684	1 X 1 gallon	metal can
484	Opti-Bond Multi-Surface Alkyd Coating, White	Sherwin Williams	B50 W 100	6 X 5 gallon	metal can
489	Sherwin Williams Industrial Enamel, Safety Orange	Sherwin Williams	B54 E 39	1 X 1 gallon	metal can
490	Kem Kromik Universal Alkyd Metal Primer, Brown	Sherwin Williams	B50 NZ 6	1 X 1 gallon	metal can
491	AS-150 Non-Slip Safety Coating Safety Yellow	American Safety Technologies, www.astantislip.com, 800-631-7841	51113117	1 X 1 gallon	metal can
498					
526					
527					

EXHIBIT C

PROHIBITED HAZARDOUS SUBSTANCES

Any compounds or materials with chlorinated solvents, including, without limitation, the following chemicals and their associated breakdown or daughter products:

trichloroethylene (TCE)
1,1,1-trichloroethane (1,1,1-TCA)
1, 1, 2 –trichloroethane (1, 1, 2 –TCA)
1,1-dichloroethene (1,1-DCE)
1, 1 – dichloroethane (1, 1-DCA)
tetrachloroethene (PCE)
cis-1,2-dichlorethene (cis-1,2-DCE)
trans-1, 2 dichloroethene (trans-1, 2-DCE)
chloroethane
vinyl chloride (VC)

Stored/Used Materials Containing Facility Constituents

Tecumseh MSDS Number	Approximate Percent by Weight, from MSDS Sheets							Location at Tecumseh Facility
	Xylene	Ethylbenzene	1,2,4-TMB	1,3,5-TMB	Arsenic	Lead	Benzene	
111	96	4						Materials Lab (Chemistry and Metallurgy)
122					<0.1			Materials Lab (Chemistry and Metallurgy)
131						1		Materials Lab (Chemistry and Metallurgy)
174		0.1						Work Shop
175	1.5	0.2						Work Shop
176	11	1.1					<0.005	Work Shop
177			1					Work Shop
182	10	5	5					Work Shop
183	10	5	5					Work Shop
184	25	10	5					Work Shop
186	25	10	5					Work Shop
188		1						Work Shop
189	15	5						Work Shop
190	15	5						Work Shop
195		0.2						Work Shop
196		0.1						Work Shop
197	11	2	3					Work Shop
198	19	3	5	4				Work Shop
301		0.1						Work Shop
302		0.1						Work Shop
303	8	1						Work Shop
304	10 -15	1 - 5						Work Shop
336	34.5							Work Shop
354	2	0.3						Tool Room and Model Shop
419	5	0.8	4	1				Model Shop
421		0.1	4	2				Model Shop
422	46	8	5	1				Model Shop
423	6	1						Model Shop
424	9	9						Model Shop
426	5 - 10	1 - 5						Model Shop
427		<0.2						Model Shop
438	9	2						Work Shop
451	10	5	5					Work Shop
452	2	0.4						Work Shop
456	10	2						Work Shop
457		1						Work Shop
459	10	5						Work Shop
460		0.1 - 1.0						Work Shop
461	9	2						Work Shop
463	4	0.7						Work Shop
467	35 - 45	5 - 15						Work Shop
475	19	4						Work Shop
476	5							Work Shop
477	19	3	5	4				Work Shop
478	85	15						Work Shop
484		0.2						Work Shop
489		0.1						Work Shop
490	10	2	2					Work Shop
491	5 - 10	1 - 5						Work Shop
498	10	5						Work Shop
526	30 -60	10 -30						Materials Lab (Chemistry and Metallurgy)
527	<1	<1						Materials Lab (Chemistry and Metallurgy)

Material Safety Data Sheet

Xylenes, mixed isomers with ethylbenzene (Flash Point 26.1°C / 79°F; PG III)

ACC# 25150

Section 1 - Chemical Product and Company Identification

MSDS Name: Xylenes, mixed isomers with ethylbenzene (Flash Point 26.1°C / 79°F; PG III)
Catalog Numbers: 23402725, S566CA, S71233, X16-4, X3F-1GAL, X3FB50, X3P-1GAL, X3P1GALLC, X3POPB50, X3RB50, X3S-20, X3S-200, X3S-4, X3SJ4, X4-20, X4-4, X4P-1GAL, X5-1, X5-20, X5-200, X5-4, X5-500, X5FB115, X5FB19, X5FB200, X5FB50, X5J4, X5J500, X5P-1GAL, X5POP19, X5POP200, X5POP50, X5POPB19, X5POPB200, X5POPB50, X5RB115, X5RB200, X5RB50, X5RS115, X5RS19, X5RS200, X5RS28, X5RS50, X5S-4, X5SK-4, X5SS115, X5SS19, X5SS200, X5SS28, X5SS50
Synonyms: Dimethylbenzene; Methyltoluene.
Company Identification:

Fisher Scientific
1 Reagent Lane
Fair Lawn, NJ 07410

For information, call: 201-796-7100
Emergency Number: 201-796-7100
For CHEMTREC assistance, call: 800-424-9300
For International CHEMTREC assistance, call: 703-527-3887

Section 2 - Composition, Information on Ingredients

CAS#	Chemical Name	Percent	EINECS/ELINCS
1330-20-7	Xylenes (o-, m-, p- isomers)	96	215-535-7
100-41-4	Ethylbenzene	4	202-849-4

Section 3 - Hazards Identification

EMERGENCY OVERVIEW

Appearance: clear, colorless liquid.
Warning! Flammable liquid and vapor. Causes eye, skin, and respiratory tract irritation. Aspiration hazard if swallowed. Can enter lungs and cause damage. May be harmful if absorbed through skin or if inhaled. May cause central nervous system depression.
Target Organs: Central nervous system, respiratory system, eyes, skin.

Potential Health Effects

Eye: Splashes of xylene in human eyes generally cause transient superficial injury. The liquid is probably a mild irritant, based on animal information for mixed xylene isomers.
Skin: May be harmful if absorbed through the skin. Xylene contact causes defatting of the skin with irritation, dryness, and cracking. Blistering may occur, particularly if exposure to concentrated xylene is prolonged and the exposed area of skin is occluded. Xylene liquid or vapor can be absorbed through the skin, but not as readily as when inhaled or ingested. Skin absorption has been reported to be slow and significant harmful effects are not expected by this route. There is one case report of a person developing an allergic skin reaction (contact urticaria) following exposure to xylene (unspecified composition) vapor. The person subsequently tested positive in a patch test. No information was provided regarding previous history of allergies. No conclusions can be drawn regarding the potential for xylene to produce allergic skin reactions, based on this single case report.
Ingestion: Aspiration hazard. May cause irritation of the digestive tract. May cause central nervous system depression, characterized by excitement, followed by headache, dizziness, drowsiness, and nausea. Advanced stages may cause collapse, unconsciousness, coma and possible death due to

respiratory failure. Aspiration of material into the lungs may cause chemical pneumonitis, which may be fatal.
Inhalation: Causes respiratory tract irritation. Irritation may lead to chemical pneumonitis and pulmonary edema. Odor thresholds ranging from 0.07 to 40 ppm have been reported for xylenes. Inhalation overexposure may lead to central nervous system depression, producing effects such as dizziness, headache, confusion, incoordination, nausea, weakness, and loss of consciousness. Extreme exposures may cause other CNS effects including death. Reversible liver and kidney damage has been reported in cases of severe xylene exposure. Industrial fatalities due to gross inhalation exposure have been described.
Chronic: Chronic exposure to xylene may cause defatting dermatitis, reversible eye damage, dyspnea (labored breathing), confusion, dizziness, apprehension, memory loss, headache, tremors, weakness, anorexia, nausea, ringing in the ears, irritability, thirst, mild changes in liver function, kidney impairment, anemia, and hyperplasia, but not destruction, of the bone marrow.

Section 4 - First Aid Measures

Eyes: In case of contact, immediately flush eyes with plenty of water for a t least 15 minutes. Get medical aid.
Skin: In case of contact, flush skin with plenty of water. Remove contaminated clothing and shoes. Get medical aid if irritation develops and persists. Wash clothing before reuse.
Ingestion: Potential for aspiration if swallowed. Get medical aid immediately. Do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. If vomiting occurs naturally, have victim lean forward.
Inhalation: If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical aid.
Notes to Physician: Treat symptomatically and supportively.

Section 5 - Fire Fighting Measures

General Information: As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear. Use water spray to keep fire-exposed containers cool. Flammable liquid and vapor. Vapors may form an explosive mixture with air. Vapors are heavier than air and may travel to a source of ignition and flash back. Vapors can spread along the ground and collect in low or confined areas. This liquid floats on water and may travel to a source of ignition and spread fire. May accumulate static electricity.
Extinguishing Media: Water may be ineffective. This material is lighter than water and insoluble in water. The fire could easily be spread by the use of water in an area where the water cannot be contained. Use water spray, dry chemical, carbon dioxide, or appropriate foam.
Flash Point: 25.6-32.2 deg C
Autoignition Temperature: 527 deg C (980.60 deg F)
Explosion Limits, Lower:1.1%
Upper: 7.0%
NFPA Rating: (estimated) Health: 2; Flammability: 3; Instability: 0

Section 6 - Accidental Release Measures

General Information: Use proper personal protective equipment as indicated in Section 8.
Spills/Leaks: Absorb spill with inert material (e.g. vermiculite, sand or earth), then place in suitable container. Remove all sources of ignition. Use a spark-proof tool. Provide ventilation. A vapor suppressing foam may be used to reduce vapors. Water spray may reduce vapor but may not prevent ignition in closed spaces. U.S. regulations require reporting spills and releases to soil, water and air in excess of reportable quantities. This material creates a fire hazard because it floats on water. If possible, try to contain floating material.

Section 7 - Handling and Storage

Handling: Wash thoroughly after handling. Remove contaminated clothing and wash before reuse. Ground and bond containers when transferring material. Avoid contact with eyes, skin, and clothing. Empty containers retain product residue, (liquid and/or vapor), and can be dangerous. Do not pressurize, cut, weld, braze, solder, drill, grind, or expose empty containers to heat, sparks or open flames. Use only with adequate ventilation. Keep away from heat, sparks and flame. Avoid breathing vapor or mist.
Storage: Keep away from sources of ignition. Keep container closed when not in use. Keep from contact with oxidizing materials. Store in a cool, dry, well-ventilated area away from incompatible substances.

Section 8 - Exposure Controls, Personal Protection

Engineering Controls: Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower. Use adequate general or local exhaust ventilation to keep airborne concentrations below the permissible exposure limits. Ventilation fans and other electrical service must be non-sparking and have an explosion-proof design.
Exposure Limits

Chemical Name	ACGIH	NIOSH	OSHA - Final PELs
Xylenes (o-, m-, p- isomers)	100 ppm TWA; 150 ppm STEL	none listed	100 ppm TWA; 435 mg/m3 TWA
Ethylbenzene	100 ppm TWA; 125 ppm STEL	100 ppm TWA; 435 mg/m3 TWA 800 ppm IDLH (10% LEL)	100 ppm TWA; 435 mg/m3 TWA

OSHA Vacated PELs: Xylenes (o-, m-, p- isomers): 100 ppm TWA; 435 mg/m3 TWA Ethylbenzene: 100 ppm TWA; 435 mg/m3 TWA
Personal Protective Equipment
Eyes: Wear chemical splash goggles.
Skin: Wear appropriate gloves to prevent skin exposure.
Clothing: Wear appropriate protective clothing to prevent skin exposure.
Respirators: Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.

Section 9 - Physical and Chemical Properties

Physical State: Liquid
Appearance: clear, colorless
Odor: aromatic odor
pH: Not applicable.
Vapor Pressure: 8.29 mm Hg @ 25 deg C
Vapor Density: 3.66 (air=1)
Evaporation Rate:0.7 (butyl acetate=1)
Viscosity: <32.6 SUS
Boiling Point: 136 - 140 deg C
Freezing/Melting Point:-34 deg C
Decomposition Temperature: Not available.
Solubility: Insoluble.
Specific Gravity/Density:0.865 (water=1)
Molecular Formula:C8H10
Molecular Weight:106.17

Section 10 - Stability and Reactivity

Chemical Stability: Stable under normal temperatures and pressures.
Conditions to Avoid: High temperatures, ignition sources.
Incompatibilities with Other Materials: Strong oxidizing agents, nitric acid.
Hazardous Decomposition Products: Carbon monoxide, carbon dioxide.
Hazardous Polymerization: Will not occur.

Section 11 - Toxicological Information

RTECS#:
CAS# 1330-20-7: ZE2100000
CAS# 100-41-4: DA0700000
LD50/LC50:
CAS# 1330-20-7:
Draize test, rabbit, eye: 87 mg Mild;
Draize test, rabbit, eye: 5 mg/24H Severe;
Draize test, rabbit, skin: 100% Moderate;
Draize test, rabbit, skin: 500 mg/24H Moderate;
Inhalation, rat: LC50 = 5000 ppm/4H;
Oral, mouse: LD50 = 2119 mg/kg;
Oral, rat: LD50 = 4300 mg/kg;
Skin, rabbit: LD50 = >1700 mg/kg;
.

CAS# 100-41-4:
Draize test, rabbit, eye: 500 mg Severe;
Inhalation, mouse: LC50 = 35500 mg/m3/2H;
Inhalation, rat: LC50 = 55000 mg/m3/2H;
Oral, rat: LD50 = 3500 mg/kg;
Oral, rat: LD50 = 3500 mg/kg;
Skin, rabbit: LD50 = 17800 uL/kg;
.

Carcinogenicity:
CAS# 1330-20-7: Not listed by ACGIH, IARC, NTP, or CA Prop 65.
CAS# 100-41-4:

- **ACGIH:** A3 - Confirmed animal carcinogen with unknown relevance to humans
- **California:** carcinogen, initial date 6/11/04
- **NTP:** Not listed.
- **IARC:** Group 2B carcinogen

Epidemiology: 175 workers were exposed to 21 ppm of xylene for 7 years. Subjective symptoms such as anxiety, forgetfulness, inability to concentrate and dizziness were reported. Xylenes accounted for >70% of the total exposure. Liver & kidney effects were not reported
Teratogenicity: No increased incidence of birth defects was reported in a study of lab workers exposed to xylene during early pregnancy. Exposure to other solvents and chemicals also occurred. An increased incidence of spontaneous abortions was reported.Animal information suggests that xylene is not teratogenic or embryotoxic at exposure levels that are not harmful to the mother.
Reproductive Effects: An increase in menstrual disorders has been reported in women exposed to organic solvents such as benzene, toluene, and xylenes. It is not possible to attribute these effects to xylenes in particular.
Mutagenicity: Xylene does not appear to be a mutagen.
Neurotoxicity: Xylene may be ototoxic (damages hearing or enhances sensitivity to noise) in chronic occupational exposures, probably from a neurotoxic mechanism.
Other Studies:

Section 12 - Ecological Information

Ecotoxicity: Fish: Rainbow trout: LC50 = 13.5 mg/L; 96 Hr; UnspecifiedFish: Goldfish: LD50 = 13 mg/L; 24 Hr; UnspecifiedFish: Fathead Minnow: LC50 = 46 mg/L; 1 Hr; Static bioassay Acute and long-term toxicity to fish and invertebrates: LD50 for goldfish is 13 mg/L/24 Hr.Cas#1330-20-7:LC50 (96Hr.) rainbow trout = 8.05 mg/L, Static condition;LC50(96Hr.) fathead minnow = 16.1 mg/L, flow-through conditions; LC50(96Hr.) bluegill = 16.1 mg/L, flow-through;EC50 (48 Hr.) water flea = 3.82 mg/L, flow-through conditions;EC50(24 Hr.) photobacterium phosphoreum = 0.0084 mg/L, Microtox test.
Environmental: In air, xylenes degrade by reacting with photochemically produced hydroxyl radicals. In soil it will volatilize and leach into groundwater. Little bioconcentration is expected.
Physical: ATMOSPHERIC FATE: According to a model of gas/particle partitioning of semivolatile organic compounds in the atmosphere, xylene, which has an experimental vapor pressure of 7.99 mm Hg at 25 deg C, will exist solely as a vapor in the ambient atmosphere. Vapor-phase xylene is degraded in the atmosphere by reaction with photochemically-produced hydroxyl radicals; the atmospheric lifetime of xylene is about 14-26 hours. Ambient levels of xylene are detected in the atmosphere due to large emissions of this compound.
Other: No information available.

Section 13 - Disposal Considerations

Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. US EPA guidelines for the classification determination are listed in 40 CFR Parts 261.3. Additionally, waste generators must consult state and local hazardous waste regulations to ensure complete and accurate classification.
RCRA P-Series: None listed.
RCRA U-Series:
CAS# 1330-20-7: waste number U239 (Ignitable waste, Toxic waste).

Section 14 - Transport Information

	US DOT	Canada TDG
Shipping Name:	XYLENES	XYLENES
Hazard Class:	3	3
UN Number:	UN1307	UN1307
Packing Group:	II	III

Section 15 - Regulatory Information

US FEDERAL

TSCA
CAS# 1330-20-7 is listed on the TSCA inventory.
CAS# 100-41-4 is listed on the TSCA inventory.
Health & Safety Reporting List
CAS# 100-41-4: Effective 6/19/87, Sunset 6/19/97
Chemical Test Rules
None of the chemicals in this product are under a Chemical Test Rule.
Section 12b
None of the chemicals are listed under TSCA Section 12b.
TSCA Significant New Use Rule
None of the chemicals in this material have a SNUR under TSCA.
CERCLA Hazardous Substances and corresponding RQs
CAS# 1330-20-7: 100 lb final RQ; 45.4 kg final RQ CAS# 100-41-4: 1000 lb final RQ; 454 kg final RQ
SARA Section 302 Extremely Hazardous Substances

None of the chemicals in this product have a TPQ.

SARA Codes

CAS # 1330-20-7: immediate, delayed, fire.
CAS # 100-41-4: immediate, delayed, fire.

Section 313

This material contains Xylenes (o-, m-, p- isomers) (CAS# 1330-20-7, 96%),which is subject to the reporting requirements of Section 313 of SARA Title III and 40 CFR

This material contains Ethylbenzene (CAS# 100-41-4, 4%),which is subject to the reporting requirements of Section 313 of SARA Title III and 40 CFR Part 373.

Clean Air Act:

CAS# 1330-20-7 is listed as a hazardous air pollutant (HAP).
CAS# 100-41-4 is listed as a hazardous air pollutant (HAP).
This material does not contain any Class 1 Ozone depletors.
This material does not contain any Class 2 Ozone depletors.

Clean Water Act:

CAS# 1330-20-7 is listed as a Hazardous Substance under the CWA. CAS# 100-41-4 is listed as a Hazardous Substance under the CWA. CAS# 100-41-4 is listed as a Priority Pollutant under the Clean Water Act. CAS# 100-41-4 is listed as a Toxic Pollutant under the Clean Water Act.

OSHA:

None of the chemicals in this product are considered highly hazardous by OSHA.

STATE

CAS# 1330-20-7 can be found on the following state right to know lists: California, New Jersey, Pennsylvania, Minnesota, Massachusetts.

CAS# 100-41-4 can be found on the following state right to know lists: California, New Jersey, Pennsylvania, Minnesota, Massachusetts.

California Prop 65

WARNING: This product contains Ethylbenzene, a chemical known to the state of California to cause cancer.
California No Significant Risk Level: None of the chemicals in this product are listed.

European/International Regulations

European Labeling in Accordance with EC Directives

Hazard Symbols:

XN

Risk Phrases:

R 10 Flammable.
R 20/21 Harmful by inhalation and in contact with skin.
R 36/38 Irritating to eyes and skin.

Safety Phrases:

S 25 Avoid contact with eyes.

WGK (Water Danger/Protection)

CAS# 1330-20-7: 2
CAS# 100-41-4: 1

Canada - DSL/NDSL

CAS# 1330-20-7 is listed on Canada's DSL List.
CAS# 100-41-4 is listed on Canada's DSL List.

Canada - WHMIS

This product has a WHMIS classification of B2, D2B, D2A.
This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all of the information required by those regulations.

Canadian Ingredient Disclosure List

CAS# 1330-20-7 is not listed on the Canadian Ingredient Disclosure List.
CAS# 100-41-4 is listed on the Canadian Ingredient Disclosure List.

Section 16 - Additional Information

MSDS Creation Date: 6/22/1999
Revision #15 Date: 2/13/2008

The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no event shall Fisher be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, howsoever arising, even if Fisher has been advised of the possibility of such damages.

CONOSTAN® Oil Analysis Standards

MATERIAL SAFETY DATA SHEET
CONOSTAN Arsenic (As) Standards

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name: CONOSTAN Arsenic (As) Standards
Synonyms: Conoco MSDS CONC0030
Intended Use: Instrument Calibration
Chemical Family: Petroleum hydrocarbon
Responsible Party: ConocoPhillips
PO Box 2197
Houston, TX 77252
For Additional MSDSs 580-767-3078
Technical Information: 580-767-3078

The intended use of this product is indicated above. If any additional use is known, please contact us at the Technical Information number listed.

EMERGENCY OVERVIEW

24 Hour Emergency Telephone Numbers:
Spill, Leak, Fire or Accident
Call CHEMTREC
North America: (800)424-9300
Others: (703)527-3887 (collect)

California Poison Control System: (800) 356-3129

Health Hazards/Precautionary Measures: Avoid contact with eyes, skin and clothing. Wash thoroughly after handling.

Physical Hazards/Precautionary Measures: Keep away from all sources of ignition.

Appearance: Clear, light yellow
Physical form: Liquid
Odor: Hydrocarbon

NFPA Hazard Class:

```
Health:       0 (Least)
Flammability: 1 (Slight)
Reactivity:   0 (Least)
```

HMIS Hazard Class

```
Health:           1 (Slight)
Flammability:     1 (Slight)
Physical Hazard:  0 (Least)
```

2. COMPOSITION/INFORMATION ON INGREDIENTS

HAZARDOUS COMPONENTS	% WEIGHT	EXPOSURE GUIDELINE		
		Limits	Agency	Type
Arsenic Amine Sulfonate (% as As) CAS# Proprietary	<0.1	Not Established		

OTHER COMPONENTS	% WEIGHT	EXPOSURE GUIDELINE		
		Limits	Agency	Type
White Mineral Oil CAS# 8042-47-5	100	(See: Oil Mist, If Generated)		

REFERENCE	EXPOSURE GUIDELINE		
	Limits	Agency	Type
Oil Mist, If Generated CAS# None	5 mg/m3	ACGIH	TWA
	10 mg/m3	ACGIH	STEL
	5 mg/m3	OSHA	TWA
	2500 mg/m3	NIOSH	IDLH
	5 mg/m3	NOHSC	TWA

A typical concentration of the above metal compound is 100 ppm As.

Refer to container for exact concentration.

Note: State, local or other agencies or advisory groups may have established more stringent limits. Consult an industrial hygienist or similar professional, or your local agencies, for further information.

1%=10,000 PPM.

3. HAZARDS IDENTIFICATION

Potential Health Effects:

Eye: Not known to be an eye irritant.

Skin: Not known to be a skin irritant. No harmful effects from skin absorption have been reported.

Inhalation (Breathing): No harmful effects reported.

Ingestion (Swallowing): No harmful effects reported from ingestion.

Signs and Symptoms: Effects of overexposure may include irritation of the nose and throat, irritation of the digestive tract and diarrhea.

Cancer: No evidence of cancer has been demonstrated in several well conducted animal studies.

Target Organs: No data available for this material.

Developmental: No data available for this material.

Pre-Existing Medical Conditions: None Known

4. FIRST AID MEASURES

Eye: If irritation or redness develops, move victim away from exposure and into fresh air. Flush eyes with clean water. If symptoms persist, seek medical attention.

Skin: First aid is not normally required. However, it is good practice to wash any chemical from the skin.

Inhalation (Breathing): First aid is not normally required. If breathing difficulties develop, move victim away from source of exposure and into fresh air. Seek immediate medical attention.

Ingestion (Swallowing): First aid is not normally required; however, if swallowed and symptoms develop, seek medical attention.

Note To Physicians: Acute aspirations of large amounts of oil-laden material may produce a serious aspiration pneumonia. Patients who aspirate these oils should be followed for the development of long-term sequelae. Inhalation exposure to oil mists below current workplace exposure limits is unlikely to cause pulmonary abnormalities.

5. FIRE FIGHTING MEASURES

Flammable Properties:
Flash Point: >340°F/>171°C (COC)
OSHA Flammability Class: Not regulated
LEL/UEL%: No Data
Autoignition Temperature: No Data

Unusual Fire & Explosion Hazards: This material may burn, but will not ignite readily. If container is not properly cooled, it can rupture in the heat of a fire.

Extinguishing Media: Dry chemical, carbon dioxide, foam, or water spray is recommended. Water or foam may cause frothing of materials heated above 212°F. Carbon dioxide can displace oxygen. Use caution when applying carbon dioxide in confined spaces.

Fire Fighting Instructions: For fires beyond the incipient stage, emergency responders in the immediate hazard area should wear bunker gear. When the potential chemical hazard is unknown, in enclosed or confined spaces, or when explicitly required by DOT, a self contained breathing apparatus should be worn. In addition, wear other appropriate protective equipment as conditions warrant (see Section 8).

Isolate immediate hazard area, keep unauthorized personnel out. Stop spill/release if it can be done with minimal risk. Move undamaged containers from immediate hazard area if it can be done with minimal risk.

Water spray may be useful in minimizing or dispersing vapors and to protect personnel. Cool equipment exposed to fire with water, if it can be done with minimal risk. Avoid spreading burning liquid with water used for cooling purposes.

6. ACCIDENTAL RELEASE MEASURES

This material may burn, but will not ignite readily. Keep all sources of ignition away from spill/release. Stay upwind and away from spill/release. Notify persons down wind of the spill/release, isolate immediate hazard area and keep unauthorized personnel out. Stop spill/release if it can be done with minimal risk. Wear appropriate protective equipment including respiratory protection as conditions warrant (see Section 8).

Prevent spilled material from entering sewers, storm drains, other unauthorized drainage systems, and natural waterways. Dike far ahead of spill for later recovery or disposal. Spilled material may be absorbed into an appropriate absorbent material.

Notify fire authorities and appropriate federal, state, and local agencies. Immediate cleanup of any spill is recommended. If spill of any amount is made into or upon navigable waters, the contiguous zone, or adjoining shorelines, notify the National Response Center (phone number 800-424-8802).

7. HANDLING AND STORAGE

Handling: Do not wear contaminated clothing or shoes. Use good personal hygiene practices.

"Empty" containers retain residue and may be dangerous. Do not pressurize, cut, weld, braze, solder, drill, grind, or expose such containers to heat, flame, sparks, or other sources of ignition. They may explode and cause injury or death. "Empty" drums should be completely drained, properly bunged, and promptly shipped to the supplier or a drum reconditioner. All containers should be disposed of in an environmentally safe manner and in accordance with governmental regulations.

Storage: Keep container(s) tightly closed. Use and store this material in cool, dry, well-ventilated areas away from heat and all sources of ignition. Store only in approved containers. Keep away from any incompatible material (see Section 10). Protect container(s) against physical damage.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering controls: If current ventilation practices are not adequate to maintain airborne concentrations below the established exposure limits (see Section 2), additional engineering controls may be required.

Personal Protective Equipment (PPE):

Respiratory: A NIOSH certified air purifying respirator with a Type 95 (R or P) particulate filter may be used under conditions where airborne concentrations are expected to exceed exposure limits (see Section 2).

Protection provided by air purifying respirators is limited (see manufacturer's respirator selection guide). Use a NIOSH approved self-contained breathing apparatus (SCBA) or equivalent operated in a pressure demand or other positive pressure mode if there is potential for an uncontrolled release, exposure levels are not known, or any other circumstances where air purifying respirators may not provide adequate protection. A respiratory protection program that meets OSHA's 29 CFR 1910.134 and ANSI Z88.2 requirements must be followed whenever workplace conditions warrant a respirator's use.

Skin: The use of gloves impervious to the specific material handled is advised to prevent skin contact and possible irritation (see manufacturers literature for information on permeability). Examples of approved materials are nitrile, neoprene.

Eye/Face: While contact with this material is not expected to cause irritation, the use of approved eye protection to safeguard against potential eye contact is considered good practice.

Other Protective Equipment: A source of clean water should be available in the work area for flushing eyes and skin. Impervious clothing should be worn as needed. Suggestions for the use of specific protective materials are based on readily available published data. Users should check with specific manufacturers to confirm the performance of their products.

9. PHYSICAL AND CHEMICAL PROPERTIES

Note: Unless otherwise stated, values are determined at 20°C (68°F) and 760 mm Hg (1 atm).
Appearance: Clear, light yellow
Physical State: Liquid
Odor: Hydrocarbon
pH: not applicable
Vapor Pressure (mm Hg): Negligible
Vapor Density (air=1): Not applicable
Boiling Point/Range: >599°F / >315°C
Freezing/Melting Point: No Data
Solubility in Water: Negligible
Specific Gravity: 0.6-0.9
Percent Volatile: Negligible
Evaporation Rate (nBuAc=1): Negligible
Bulk Density: 7.09 lbs/gal
Flash Point: >340°F / >171°C (COC)

Flammable/Explosive Limits (%): No Data

10. STABILITY AND REACTIVITY

Stability: Stable under normal ambient and anticipated storage and handling conditions of temperature and pressure.

Conditions To Avoid: Avoid all possible sources of ignition (see Sections 5 and 7).

Materials to Avoid (Incompatible Materials): Avoid contact with strong oxidizing agents.

Hazardous Decomposition Products: Combustion can yield carbon, nitrogen and sulfur oxides and other compounds of arsenic.

Hazardous Polymerization: Will not occur.

11. TOXICOLOGICAL INFORMATION

No definitive information available on carcinogenicity, mutagenicity, target organs or developmental toxicity.

12. ECOLOGICAL INFORMATION

Not evaluated at this time

13. DISPOSAL CONSIDERATIONS

This material, if discarded as produced, is not a RCRA "listed" hazardous waste. However, it should be fully characterized for toxicity prior to disposal (40 CFR 261). Use which results in chemical or physical change or contamination may subject it to regulation as a hazardous waste. Along with properly characterizing all waste materials, consult state and local regulations regarding the proper disposal of this material.

Container contents should be completely used and containers should be emptied prior to discard. Container rinsate could be considered a RCRA hazardous waste and must be disposed of with care and in full compliance with federal, state and local regulations. Larger empty containers, such as drums, should be returned to the distributor or to a drum reconditioner. To assure proper disposal of smaller empty containers, consult with state and local regulations and disposal authorities.

14. TRANSPORT INFORMATION

DOT Shipping Description: Not regulated

Note: Material is unregulated unless in container of 3500 gal or more then provisions of 49 CFR Part 130 apply for land shipment.

IMDG: Not regulated
IATA: Not regulated

15. REGULATORY INFORMATION

EPA SARA 311/312 (Title III Hazard Categories):

Acute Health:	No
Chronic Health:	No
Fire Hazard:	No
Pressure Hazard:	No
Reactive Hazard:	No

SARA 313 and 40 CFR 372:
This material contains the following chemicals subject to the reporting requirements of SARA 313 and 40 CFR 372:

--None--

California Proposition 65:

Warning: This material contains the following chemicals which are known to the State of California to cause cancer, birth defects or other reproductive harm, and are subject to the requirements of California Proposition 65 (CA Health & Safety Code Section 25249.5):

--None Known--

Carcinogen Identification:
This material has not been identified as a carcinogen by NTP, IARC, or OSHA.

EPA (CERCLA) Reportable Quantity:

--None--

Canada - Domestic Substances List: Listed

WHMIS Class:
Not regulated
This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR.

16. OTHER INFORMATION

Issue Date: 09/18/03
Previous Issue Date: 06/06/00
Revised Sections: New Format
MSDS Number: 005207
Status: Final

Disclaimer of Expressed and Implied Warranties:

The information presented in this Material Safety Data Sheet is based on data believed to be accurate as of the date this Material Safety Data Sheet was prepared. **HOWEVER, NO WARRANTY OF MERCHANTABILITY, FITNESS FOR ANY PARTICULAR PURPOSE, OR ANY OTHER WARRANTY IS EXPRESSED OR IS TO BE IMPLIED REGARDING THE ACCURACY OR COMPLETENESS OF THE INFORMATION PROVIDED ABOVE, THE RESULTS TO BE OBTAINED FROM THE USE OF THIS INFORMATION OR THE PRODUCT, THE SAFETY OF THIS PRODUCT, OR THE HAZARDS RELATED TO ITS USE.** No responsibility is assumed for any damage or injury resulting from abnormal use or from any failure to adhere to recommended practices. The information provided above, and the product, are furnished on the condition that the person receiving them shall make their own determination as to the suitability of the product for their particular purpose and on the condition that they assume the risk of their use. In addition, no authorization is given nor implied to practice any patented invention without a license.

CONOSTAN® Oil Analysis Standards

MATERIAL SAFETY DATA SHEET
CONOSTAN® Lead (Pb) Standards

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name: CONOSTAN® Lead (Pb) Standards
Synonyms:

Intended Use: Instrument Calibration
Chemical Family: Petroleum hydrocarbon
Responsible Party: SCP SCIENCE
21800 Clark Graham
Baie D'Urfé, QC, Canada, H9X 4B6
For Additional MSDSs 514-457-0701
Technical Information: 514-457-0701

The intended use of this product is indicated above. If any additional use is known, please contact us at the Technical Information number listed.

EMERGENCY OVERVIEW

24 Hour Emergency Telephone Numbers:
Spill, Leak, Fire or Accident
Call CHEMTREC
North America: (800)424-9300
Others: (703)527-3887 (collect)

California Poison Control System: (800) 356-3129

Health Hazards/Precautionary Measures: Overexposure to a component may cause damage to the nervous system, kidneys and male reproductive system. Use ventilation adequate to keep exposure below recommended limits, if any. Avoid breathing vapor or mist. Avoid contact with eyes, skin and clothing. Do not taste or swallow. Wash thoroughly after handling.

Physical Hazards/Precautionary Measures: Keep away from all sources of ignition.

Appearance: Clear, amber
Physical form: Liquid
Odor: Hydrocarbon

NFPA Hazard Class:

```
Health:       0 (Least)
Flammability:1 (Slight)
Reactivity:   0 (Least)
```

HMIS Hazard Class

```
Health:           1*(Slight)
Flammability:     1 (Slight)
Physical Hazard:  0 (Least)
```

*Indicates possible chronic health effects.

2. COMPOSITION/INFORMATION ON INGREDIENTS

HAZARDOUS COMPONENTS	% WEIGHT	EXPOSURE GUIDELINE		
		Limits	Agency	Type
Lead Alkylaryl Sulfonate (Lead Compound) (% as Pb)	<=1	0.05 mg/m3	ACGIH	TWA
		0.05 mg/m3	OSHA	TWA

CAS# Proprietary	100 mg/m3	NIOSH	IDLH

OTHER COMPONENTS	% WEIGHT	EXPOSURE GUIDELINE		
		Limits	Agency	Type
White Mineral Oil CAS# 8042-47-5	100	(See: Oil Mist, If Generated)		

REFERENCE	EXPOSURE GUIDELINE		
	Limits	Agency	Type
Oil Mist, If Generated CAS# None	5 mg/m3	ACGIH	TWA
	10 mg/m3	ACGIH	STEL
	5 mg/m3	OSHA	TWA
	2500 mg/m3	NIOSH	IDLH
	5 mg/m3	NOHSC	TWA

A typical concentration of the above metal compound is 5000 ppm Pb.

Refer to container for exact concentration.

Note: State, local or other agencies or advisory groups may have established more stringent limits. Consult an industrial hygienist or similar professional, or your local agencies, for further information.

1%=10,000 PPM.

All components are listed on the TSCA inventory.

3. HAZARDS IDENTIFICATION

Potential Health Effects:

Eye: Not known to be an eye irritant.

Skin: Not known to be a skin irritant. No harmful effects from skin absorption have been reported.

Inhalation (Breathing): No harmful effects reported.

Ingestion (Swallowing): No harmful effects reported from ingestion.

Signs and Symptoms: Effects of overexposure may include irritation of the nose and throat, irritation of the digestive tract and diarrhea.

Cancer: A component is a probable cancer hazard (see Sections 11 and 15).

Target Organs: No data available for this material. Overexposure to a component may cause injury to the nervous system, kidney and male reproductive system (see Section 11).

Developmental: No data available for this material. A component is a potential hazard to the fetus (see Section 11).

Pre-Existing Medical Conditions: None Known

4. FIRST AID MEASURES

Eye: If irritation or redness develops, move victim away from exposure and into fresh air. Flush eyes with clean water. If symptoms persist, seek medical attention.

Skin: First aid is not normally required. However, it is good practice to wash any chemical from the skin.

Inhalation (Breathing): First aid is not normally required. If breathing difficulties develop, move victim away from source of exposure and into fresh air. Seek immediate medical attention.

Ingestion (Swallowing): First aid is not normally required; however, if swallowed and symptoms develop, seek medical attention.

Note To Physicians: Acute aspirations of large amounts of oil-laden material may produce a serious aspiration pneumonia. Patients who aspirate these oils should be followed for the development of long-term sequelae. Inhalation exposure to oil mists below current workplace exposure limits is unlikely to cause pulmonary abnormalities.

5. FIRE FIGHTING MEASURES

Flammable Properties:
Flash Point: >340°F/>171°C (COC)
OSHA Flammability Class: Not regulated
LEL/UEL%: No Data
Autoignition Temperature: No Data

Unusual Fire & Explosion Hazards: This material may burn, but will not ignite readily. If container is not properly cooled, it can rupture in the heat of a fire.

Extinguishing Media: Dry chemical, carbon dioxide, foam, or water spray is recommended. Water or foam may cause frothing of materials heated above 212°F. Carbon dioxide can displace oxygen. Use caution when applying carbon dioxide in confined spaces.

Fire Fighting Instructions: For fires beyond the incipient stage, emergency responders in the immediate hazard area should wear bunker gear. When the potential chemical hazard is unknown, in enclosed or confined spaces, or when explicitly required by DOT, a self contained breathing apparatus should be worn. In addition, wear other appropriate protective equipment as conditions warrant (see Section 8).

Isolate immediate hazard area, keep unauthorized personnel out. Stop spill/release if it can be done with minimal risk. Move undamaged containers from immediate hazard area if it can be done with minimal risk.

Water spray may be useful in minimizing or dispersing vapors and to protect personnel. Cool equipment exposed to fire with water, if it can be done with minimal risk. Avoid spreading burning liquid with water used for cooling purposes.

6. ACCIDENTAL RELEASE MEASURES

This material may burn, but will not ignite readily. Keep all sources of ignition away from spill/release. Stay upwind and away from spill/release. Notify persons down wind of the spill/release, isolate immediate hazard area and keep unauthorized personnel out. Stop spill/release if it can be done with minimal risk. Wear appropriate protective equipment including respiratory protection as conditions warrant (see Section 8).

Prevent spilled material from entering sewers, storm drains, other unauthorized drainage systems, and natural waterways. Dike far ahead of spill for later recovery or disposal. Spilled material may be absorbed into an appropriate absorbent material.

Notify fire authorities and appropriate federal, state, and local agencies. Immediate cleanup of any spill is recommended. If spill of any amount is made into or upon navigable waters, the contiguous zone, or adjoining shorelines, notify the National Response Center (phone number 800-424-8802).

7. HANDLING AND STORAGE

Handling: Do not wear contaminated clothing or shoes. Use good personal hygiene practices.

"Empty" containers retain residue and may be dangerous. Do not pressurize, cut, weld, braze, solder, drill, grind, or expose such containers to heat, flame, sparks, or other sources of ignition. They may explode and cause injury or death. "Empty" drums should be completely drained, properly bunged, and promptly shipped to the supplier or a drum reconditioner. All containers should be disposed of in an environmentally safe manner and in accordance with governmental regulations.

Storage: Keep container(s) tightly closed. Use and store this material in cool, dry, well-ventilated areas away from heat and all sources of ignition. Store only in approved containers. Keep away from any incompatible material (see Section 10). Protect container(s) against physical damage.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering controls: If current ventilation practices are not adequate to maintain airborne concentrations below the established exposure limits (see Section 2), additional engineering controls may be required.

Personal Protective Equipment (PPE):

Respiratory: A NIOSH certified air purifying respirator with a Type 95 (R or P) particulate filter may be used under conditions where airborne concentrations are expected to exceed exposure limits (see Section 2).

Protection provided by air purifying respirators is limited (see manufacturer's respirator selection guide). Use a NIOSH approved self-contained breathing apparatus (SCBA) or equivalent operated in a pressure demand or other positive pressure mode if there is potential for an uncontrolled release, exposure levels are not known, or any other circumstances where air purifying respirators may not provide adequate protection. A respiratory protection program that meets OSHA's 29 CFR 1910.134 and ANSI Z88.2 requirements must be followed whenever workplace conditions warrant a respirator's use.

Skin: The use of gloves impervious to the specific material handled is advised to prevent skin contact and possible irritation (see manufacturers literature for information on permeability). Examples of approved materials are nitrile, neoprene.

Eye/Face: While contact with this material is not expected to cause irritation, the use of approved eye protection to safeguard against potential eye contact is considered good practice.

Other Protective Equipment: A source of clean water should be available in the work area for flushing eyes and skin. Impervious clothing should be worn as needed.

Suggestions for the use of specific protective materials are based on readily available published data. Users should check with specific manufacturers to confirm the performance of their products.

9. PHYSICAL AND CHEMICAL PROPERTIES

Note: Unless otherwise stated, values are determined at 20°C (68°F) and 760 mm Hg (1 atm).
Appearance: Clear, amber
Physical State: Liquid
Odor: Hydrocarbon
pH: not applicable
Vapor Pressure (mm Hg): Negligible
Vapor Density (air=1): Not applicable
Boiling Point/Range: >599°F / >315°C
Freezing/Melting Point: No Data
Solubility in Water: Negligible

Specific Gravity: 0.6-0.9
Percent Volatile: Negligible
Evaporation Rate (nBuAc=1): Negligible
Bulk Density: 7.16 lbs/gal
Flash Point: >340°F / >171°C (COC)
Flammable/Explosive Limits (%): No Data

10. STABILITY AND REACTIVITY

Stability: Stable under normal ambient and anticipated storage and handling conditions of temperature and pressure.

Conditions To Avoid: Avoid all possible sources of ignition (see Sections 5 and 7).

Materials to Avoid (Incompatible Materials): Avoid contact with strong oxidizing agents.

Hazardous Decomposition Products: Combustion can yield carbon, nitrogen and sulfur oxides and some metallic oxides.

Hazardous Polymerization: Will not occur.

11. TOXICOLOGICAL INFORMATION

Lead Alkylaryl Sulfonate (Lead Compound) (% as Pb)(CAS# Proprietary)

Carcinogenicity: Chronic oral ingestion of various inorganic lead compounds resulted in increased renal tumors in laboratory animals. Lead and inorganic lead compounds have been identified as carcinogens by NTP, IARC and OSHA. Organic lead compounds have not been identified as a carcinogen by NTP, IARC, or OSHA.

Target Organ(s): Chronic exposure to organic lead compounds is associated with toxicity of the hematopoietic, vascular, male reproductive, and nervous systems, and of the kidney. Hematological effects include anemia, decreased hemoglobin, and increased urinary porphyrins. Vascular effects are manifested as high blood pressure. Neurotoxic effects may involve both sensory and motor neurons and may include encephalopathy and peripheral neuropathy. Kidney damage is characterized by nephropathy, interstitial fibrosis, and tubular damage. Effects on the male reproductive system may include decreased sperm count and motility, and testicular atrophy.

Developmental: Administration of certain organic lead compounds during pregnancy has caused developmental toxicity (neurobehavioral effects) in laboratory animals.

12. ECOLOGICAL INFORMATION

Not evaluated at this time

13. DISPOSAL CONSIDERATIONS

This material, if discarded as produced, is not a RCRA "listed" hazardous waste. However, it should be fully characterized for toxicity prior to disposal (40 CFR 261). Use which results in chemical or physical change or contamination may subject it to regulation as a hazardous waste. Along with properly characterizing all waste materials, consult state and local regulations regarding the proper disposal of this material.

Container contents should be completely used and containers should be emptied prior to discard. Container rinsate could be considered a RCRA hazardous waste and must be disposed of with care and in full compliance with federal, state and local regulations. Larger empty containers, such as drums, should be returned to the distributor or to a drum reconditioner. To assure proper disposal of smaller empty containers, consult with state and local regulations and disposal authorities.

14. TRANSPORT INFORMATION

DOT Shipping Description: Not regulated

Note: Material is unregulated unless in container of 3500 gal or more then provisions of 49 CFR Part 130 apply for land shipment.

IMDG: Not regulated
IATA: Not regulated

15. REGULATORY INFORMATION

EPA SARA 311/312 (Title III Hazard Categories):

Acute Health:	No
Chronic Health:	Yes
Fire Hazard:	No
Pressure Hazard:	No
Reactive Hazard:	No

SARA 313 and 40 CFR 372:
This material contains the following chemicals subject to the reporting requirements of SARA 313 and 40 CFR 372:

Component	CAS Number	Weight %
Lead Compounds	Various	<=1

California Proposition 65:

Warning: This material contains the following chemicals which are known to the State of California to cause cancer, birth defects or other reproductive harm, and are subject to the requirements of California Proposition 65 (CA Health & Safety Code Section 25249.5):

Component	Effect
Lead and Lead Compounds	Cancer

Carcinogen Identification:
This material has not been identified as a carcinogen by NTP, IARC, or OSHA. See Section 11 for carcinogenicity information of individual components, if any.

EPA (CERCLA) Reportable Quantity:
--None--

Canada - Domestic Substances List: Listed

WHMIS Class:
D2A-Materials causing other toxic effects - Very Toxic Material

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR.

16. OTHER INFORMATION

Issue Date: 05/02/08

Previous Issue Date: 10/19/07
Revised Sections: New Format
MSDS Number: 775222
Status: Final

Disclaimer of Expressed and Implied Warranties:

The information presented in this Material Safety Data Sheet is based on data believed to be accurate as of the date this Material Safety Data Sheet was prepared. **HOWEVER, NO WARRANTY OF MERCHANTABILITY, FITNESS FOR ANY PARTICULAR PURPOSE, OR ANY OTHER WARRANTY IS EXPRESSED OR IS TO BE IMPLIED REGARDING THE ACCURACY OR COMPLETENESS OF THE INFORMATION PROVIDED ABOVE, THE RESULTS TO BE OBTAINED FROM THE USE OF THIS INFORMATION OR THE PRODUCT, THE SAFETY OF THIS PRODUCT, OR THE HAZARDS RELATED TO ITS USE.** No responsibility is assumed for any damage or injury resulting from abnormal use or from any failure to adhere to recommended practices. The information provided above, and the product, are furnished on the condition that the person receiving them shall make their own determination as to the suitability of the product for their particular purpose and on the condition that they assume the risk of their use. In addition, no authorization is given nor implied to practice any patented invention without a license.

MATERIAL SAFETY DATA SHEET

B54T104
26 00

DATE OF PREPARATION
Sep 8, 2008

SECTION 1 — PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NUMBER
B54T104
PRODUCT NAME
Industrial Enamel, Ultradeep Base
MANUFACTURER'S NAME
THE SHERWIN-WILLIAMS COMPANY
101 Prospect Avenue N.W.
Cleveland, OH 44115

Telephone Numbers and Websites

Product Information	www.sherwin-williams.com
Regulatory Information	(216) 566-2902 www.paintdocs.com
Medical Emergency	(216) 566-2917
Transportation Emergency*	(800) 424-9300
**for Chemical Emergency ONLY (spill, leak, fire, exposure, or accident)*	

SECTION 2 — COMPOSITION/INFORMATION ON INGREDIENTS

% by Weight	CAS Number	Ingredient	Units	Vapor Pressure
43	**64742-88-7**	**Mineral Spirits**		
		ACGIH TLV	100 PPM	2 mm
		OSHA PEL	100 PPM	
0.1	**100-41-4**	**Ethylbenzene**		
		ACGIH TLV	100 PPM	7.1 mm
		ACGIH TLV	125 PPM STEL	
		OSHA PEL	100 PPM	
		OSHA PEL	125 PPM STEL	
15	**471-34-1**	**Calcium Carbonate**		
		ACGIH TLV	10 mg/m3 as Dust	
		OSHA PEL	15 mg/m3 Total Dust	
		OSHA PEL	5 mg/m3 Respirable Fraction	

SECTION 3 — HAZARDS IDENTIFICATION

ROUTES OF EXPOSURE
INHALATION of vapor or spray mist.
EYE or SKIN contact with the product, vapor or spray mist.

HMIS Codes

Health	2*
Flammability	2
Reactivity	0

EFFECTS OF OVEREXPOSURE
EYES: Irritation.
SKIN: Prolonged or repeated exposure may cause irritation.
INHALATION: Irritation of the upper respiratory system.

May cause nervous system depression. Extreme overexposure may result in unconsciousness and possibly death.
Prolonged overexposure to solvent ingredients in Section 2 may cause adverse effects to the liver and urinary systems.

SIGNS AND SYMPTOMS OF OVEREXPOSURE
Headache, dizziness, nausea, and loss of coordination are indications of excessive exposure to vapors or spray mists.
Redness and itching or burning sensation may indicate eye or excessive skin exposure.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE
None generally recognized.

CANCER INFORMATION
For complete discussion of toxicology data refer to Section 11.

SECTION 4 — FIRST AID MEASURES

EYES: Flush eyes with large amounts of water for 15 minutes. Get medical attention.
SKIN: Wash affected area thoroughly with soap and water.
Remove contaminated clothing and launder before re-use.
INHALATION: If affected, remove from exposure. Restore breathing. Keep warm and quiet.
INGESTION: Do not induce vomiting. Get medical attention immediately.

SECTION 5 — FIRE FIGHTING MEASURES

FLASH POINT	LEL	UEL	FLAMMABILITY CLASSIFICATION
101° F PMCC	1.0	6.0	Combustible, Flash above 99 and below 200° F

EXTINGUISHING MEDIA
Carbon Dioxide, Dry Chemical, Foam
UNUSUAL FIRE AND EXPLOSION HAZARDS
Closed containers may explode when exposed to extreme heat.
Application to hot surfaces requires special precautions.
During emergency conditions overexposure to decomposition products may cause a health hazard. Symptoms may not be immediately apparent. Obtain medical attention.
SPECIAL FIRE FIGHTING PROCEDURES
Full protective equipment including self-contained breathing apparatus should be used.
Water spray may be ineffective. If water is used, fog nozzles are preferable. Water may be used to cool closed containers to prevent pressure build-up and possible autoignition or explosion when exposed to extreme heat.

SECTION 6 — ACCIDENTAL RELEASE MEASURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED
- Remove all sources of ignition. Ventilate the area.
- Remove with inert absorbent.

SECTION 7 — HANDLING AND STORAGE

STORAGE CATEGORY
DOL Storage Class II
PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE
Contents are COMBUSTIBLE. Keep away from heat and open flame.
Consult NFPA Code. Use approved Bonding and Grounding procedures.
Keep container closed when not in use. Transfer only to approved containers with complete and appropriate labeling. Do not take internally. Keep out of the reach of children.

SECTION 8 — EXPOSURE CONTROLS/PERSONAL PROTECTION

PRECAUTIONS TO BE TAKEN IN USE
Use only with adequate ventilation.
Avoid contact with skin and eyes. Avoid breathing vapor and spray mist.
Wash hands after using.
This coating may contain materials classified as nuisance particulates (listed "as Dust" in Section 2) which may be present at hazardous levels only during sanding or abrading of the dried film. If no specific dusts are listed in Section 2, the applicable limits for nuisance dusts are ACGIH TLV 10 mg/m3 (total dust), 3 mg/m3 (respirable fraction), OSHA PEL 15 mg/m3 (total dust), 5 mg/m3 (respirable fraction).
VENTILATION
Local exhaust preferable. General exhaust acceptable if the exposure to materials in Section 2 is maintained below applicable exposure limits. Refer to OSHA Standards 1910.94, 1910.107, 1910.108.
RESPIRATORY PROTECTION
If personal exposure cannot be controlled below applicable limits by ventilation, wear a properly fitted organic vapor/particulate respirator approved by NIOSH/MSHA for protection against materials in Section 2.
When sanding or abrading the dried film, wear a dust/mist respirator approved by NIOSH/MSHA for dust which may be generated from this product, underlying paint, or the abrasive.
PROTECTIVE GLOVES
Wear gloves which are recommended by glove supplier for protection against materials in Section 2.
EYE PROTECTION
Wear safety spectacles with unperforated sideshields.
OTHER PRECAUTIONS
Intentional misuse by deliberately concentrating and inhaling the contents can be harmful or fatal.

SECTION 9 — PHYSICAL AND CHEMICAL PROPERTIES

PRODUCT WEIGHT	8.37 lb/gal	1003 g/l
SPECIFIC GRAVITY	1.01	
BOILING POINT	300 - 395° F	148 - 201° C
MELTING POINT	Not Available	
VOLATILE VOLUME	58%	
EVAPORATION RATE	Slower than ether	
VAPOR DENSITY	Heavier than air	
SOLUBILITY IN WATER	N.A.	

VOLATILE ORGANIC COMPOUNDS (VOC Theoretical - As Packaged)

3.71lb/gal	444g/l	Less Water and Federally Exempt Solvents
3.71lb/gal	444g/l	Emitted VOC

SECTION 10 — STABILITY AND REACTIVITY

STABILITY — Stable

CONDITIONS TO AVOID

None known.

INCOMPATIBILITY

None known.

HAZARDOUS DECOMPOSITION PRODUCTS

By fire: Carbon Dioxide, Carbon Monoxide

HAZARDOUS POLYMERIZATION

Will not occur

SECTION 11 — TOXICOLOGICAL INFORMATION

CHRONIC HEALTH HAZARDS

Reports have associated repeated and prolonged overexposure to solvents with permanent brain and nervous system damage.

Ethylbenzene is classified by IARC as possibly carcinogenic to humans (2B) based on inadequate evidence in humans and sufficient evidence in laboratory animals. Lifetime inhalation exposure of rats and mice to high ethylbenzene concentrations resulted in increases in certain types of cancer, including kidney tumors in rats and lung and liver tumors in mice. These effects were not observed in animals exposed to lower concentrations. There is no evidence that ethylbenzene causes cancer in humans.

TOXICOLOGY DATA

CAS No.	Ingredient Name			
64742-88-7	**Mineral Spirits**			
		LC50 RAT	4HR	Not Available
		LD50 RAT		Not Available
100-41-4	**Ethylbenzene**			
		LC50 RAT	4HR	Not Available
		LD50 RAT		3500 mg/kg
471-34-1	**Calcium Carbonate**			
		LC50 RAT	4HR	Not Available
		LD50 RAT		Not Available

SECTION 12 — ECOLOGICAL INFORMATION

ECOTOXICOLOGICAL INFORMATION

No data available.

SECTION 13 — DISPOSAL CONSIDERATIONS

WASTE DISPOSAL METHOD

Waste from this product may be hazardous as defined under the Resource Conservation and Recovery Act (RCRA) 40 CFR 261.

Waste must be tested for ignitability to determine the applicable EPA hazardous waste numbers.

Incinerate in approved facility. Do not incinerate closed container. Dispose of in accordance with Federal, State/Provincial, and Local regulations regarding pollution.

SECTION 14 — TRANSPORT INFORMATION

US Ground (DOT)

May be Classed as a Combustible Liquid for U.S. Ground.

UN1263, PAINT, 3, PG III, (ERG#128)

DOT (Dept of Transportation) Hazardous Substances & Reportable Quantities

Xylenes (isomers and mixture) 100 lb RQ

Bulk Containers may be Shipped as (check reportable quantities):
UN1263, PAINT, COMBUSTIBLE LIQUID, PG III, (ERG#128)

Canada (TDG)
May be Classed as a Combustible Liquid for Canadian Ground.
UN1263, PAINT, CLASS 3, PG III, (ERG#128)

IMO
UN1263, PAINT, CLASS 3, PG III, (38 C c.c.), EmS F-E, S-E

SECTION 15 — REGULATORY INFORMATION

SARA 313 *(40 CFR 372.65C)* SUPPLIER NOTIFICATION

CAS No.	CHEMICAL/COMPOUND	% by WT	% Element
100-41-4	Ethylbenzene	0.1	

CALIFORNIA PROPOSITION 65
WARNING: This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.

TSCA CERTIFICATION
All chemicals in this product are listed, or are exempt from listing, on the TSCA Inventory.

SECTION 16 — OTHER INFORMATION

This product has been classified in accordance with the hazard criteria of the Canadian Controlled Products Regulations (CPR) and the MSDS contains all of the information required by the CPR.

The above information pertains to this product as currently formulated, and is based on the information available at this time. Addition of reducers or other additives to this product may substantially alter the composition and hazards of the product. Since conditions of use are outside our control, we make no warranties, express or implied, and assume no liability in connection with any use of this information.

M A T E R I A L S A F E T Y D A T A S H E E T Rev. 04B

For Coating, Resins, and Related Materials NPCA 1-84

Manufacturer's Name
BENJAMIN MOORE & CO.
51 CHESTNUT RIDGE RD
MONTVALE, NJ 07645

Emergency Telephone No.
800-424-9300 (CHEMTREC)

Date Prepared	Last Rev Date	Information Telephone No.
01-19-01	12-15-97	201-573-9600

For the most up-to-date MSDS information
please visit our website www.benjaminmoore.com/msds/go.html

SECTION I - PRODUCT ID

PRODUCT*: 133, n133
CLASS: SOLVENT THINNED PAINT
NAME: IMPERVO ALKYD HIGH GLOSS METAL & WOOD ENAMEL
COLOR: ALL

** HMIS CODE **
HEALTH: 2*
FLAMMABILITY: 2
REACTIVITY: 0
PERSONAL PROT:

** SARA TITLE 312 **
ACUTE: Y CHRONIC: Y FIRE: Y PRESSURE: N REACTIVITY: N

For a complete description of HMIS and an explanation of the PERSONAL PROT: code, see Section XX.
*NOTE: In the PRODUCT code a little n can be any capital letter of the alphabet except P or Q.

SECTION II HAZARDOUS INGREDIENTS

INGREDIENT	HAZ	SARA	MAX %	CAS #	TLV	PEL	STEL	CEIL	MM Hg
Xylene	Y	Y	1.5	001330-20-7	100 ppm	100 ppm	150 ppm	N/E	21 @ 38C
Ethyl Benzene	Y	N	.2	000100-41-4	100 ppm	100 ppm	125 ppm	N/E	10 @ 20C
Bentonite Clay	Y	N	1.8	121888-66-2	.1 mg/M3	N/E	N/E	N/E	N/A
Titanium Dioxide	Y	N	24.4	013463-67-7	10 mg/M3	10 mg/M3	N/E	N/E	N/A
Hydrous Alum Silicates	Y	N	6.1	001332-58-7	10 mg/M3	10 mg/M3	N/E	N/E	N/A
Stoddard Solvent	Y	N	40.2	008052-41-3	100 ppm	100 ppm	N/E	N/E	2.0 @ 20
Methyl Ethyl Ketoxime	Y	N	.3	000096-29-7	0.1 ppm	N/E	N/E	N/E	2.0 @ 68
Zinc Oxide	Y	Y	2.3	001314-13-2	10 mg/M3	10 mg/M3	N/E	N/E	N/A
Iron Oxide	Y	N	3.6	001332-37-2	5 mg/M3	10 mg/M3	N/E	N/E	N/A

C.I. Pigment Blue 15
Y N 1.4 000147-14-8 1 mg/M3 1 mg/M3 N/E N/E N/A

C.I. Pigment Black 7
Y N 2.0 001333-86-4 3.5mg/M3 3.5mg/M3 N/E N/E N/A

C.I. Pigment Green 7
Y N 2.3 001328-53-6 1 mg/M3 1 mg/M3 N/E N/E N/A

****

This product contains one or more reported carcinogens or suspected carcinogens which are noted NTP, IARC, or OSHA-Z in the other limits recommended column.

****

Note: This product contains pigments which may become a dust nuisance when removed by abrasive blasting, sanding, or grinding.
This product may contain small amounts of materials known to the State of California to cause cancer and reproductive harm.

SECTION III PHYSICAL DATA

BOIL RANGE: 340.0 to 406.0 WT/GL: 7.6 to 9.8 %VOL/VOL: 48.1 to 49.8
EVAPORATION RATE: SLOWER THAN ETHER VAPOR DENSITY: HEAVIER THAN AIR

SECTION IV FIRE AND EXPLOSION HAZARD DATA

D.O.T. FLAMMABILITY CLASS.: COMBUSTIBLE FLASH POINT: 110 F PMCC
LEL %: 1.0
EXTINGUISHING MEDIA: FOAM CO2 DRY CHEMICAL WATER FOG
UNUSUAL FIRE AND EXPLOSION HAZARDS:
Toxic gases may form when product burns.
Closed containers may burst if exposed to extreme heat or fire.
SPECIAL FIRE FIGHTING PROCEDURES:
Cool exposed containers with water. Use self-contained breathing apparatus. Do not use water stream on burning liquid. Use self-contained breathing apparatus.

SECTION V HEALTH HAZARD DATA

EFFECTS OF OVEREXPOSURE - ACUTE:
Inhalation - Harmful if inhaled. May affect the brain or nervous system causing dizziness, headache or nausea.
Contact - Causes eye irritation.
Contact - Causes skin irritation.
Skin Absorption - Hazardous ingredients contained in this product have the capacity to be absorbed through the skin in sufficient quantities to cause systemic toxicity. See Safe Handling and Use Information (Section VIII).
Ingestion - Irritation of the digestive tract and nervous system depression (drowsiness, dizziness, loss of coordination and fatigue). Aspiration Hazard - This material can enter lungs during swallowing or vomiting and cause lung inflammation and damage.
EFFECTS OF OVEREXPOSURE - CHRONIC:
IARC has classified Carbon Black as possibly carcinogenic for humans (2B).
NOTICE: Reports have associated permanent brain and nervous system damage with repeated, prolonged overexposure to solvents among persons engaged in the painting trade. Intentional misuse by deliberately concentrating and inhaling the contents may be harmful or fatal.

IARC has classified Ethyl Benzene as possibly carcinogenic for humans (2B).
MEDICAL CONDITIONS PRONE TO AGGRAVATION BY EXPOSURE:
None expected when used in accordance with Safe Handling and Use Information (Section VIII).
Contains Methyl Ethyl Ketoxime (MEKO) which has been identified as a potential animal liver carcinogen. Currently, MEKO is not listed as a potential carcinogen by IARC, NTP or OSHA.
PRIMARY ROUTE(S) OF ENTRY: DERMAL INHALATION INGESTION
EMERGENCY AND FIRST AID PROCEDURES :
Inhalation - Remove from hazard area, maintain breathing, call physician.
Skin Contact - Remove with soap and water.
Eye Contact - Flush immediately with large amounts of water. Call physician
Ingestion - Drink 1 or 2 glasses of water to dilute.
DO NOT induce vomiting. Call physician.

SECTION VI REACTIVITY DATA

STABILITY: STABLE HAZARDOUS POLYMERIZATION WILL NOT OCCUR
HAZARDOUS DECOMPOSITION PRODUCTS:
Burning may produce carbon dioxide and carbon monoxide.
CONDITIONS TO AVOID: Elevated temperatures and build up of vapors
INCOMPATABILITY (MATERIALS TO AVOID): None reasonably foreseeable.

SECTION VII SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:
Remove all sources of ignition. Avoid breathing vapors. Use non-sparking tools to return materials to container. Absorb residue with Fullers earth.
WASTE DISPOSAL METHOD:
Conventional procedures in compliance with local, state and federal regulations. Do not incinerate sealed containers.

SECTION VIII SAFE HANDLING AND USE INFORMATION

RESPIRATORY PROTECTION:
Wear a properly fitted vapor/particulate respirator approved by NIOSH for use with paints during application or sanding and until all vapors and spray mist are exhausted. In confined spaces or in situations where continuous spray operations are typical, or if proper respirator fit is not possible, wear a positive-pressure, supplied air respirator approved by NIOSH.
VENTILATION:
Adequate to maintain working atmosphere below T.L.V. and L.E.L.
(See Sect. II for ingredient data and concentrations). Mechanical exhaust may be required in confined areas.
Discharge exhaust only in area away from ignition sources.
PROTECTIVE GLOVES: Solvent impermeable gloves are required.
EYE PROTECTION : Splash goggles or safety glasses with side shields.
OTHER PROTECTIVE EQUIPMENT: Clothing adequate to protect skin.
HYGIENIC PRACTICES:
Remove and wash clothing before reuse. Wash hands before eating, smoking or using the washroom.

SECTION IX SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE:
Combustible - Keep away from heat and flame

OTHER PRECAUTIONS :
Use only with adequate ventilation. Avoid prolonged contact with skin and breathing of vapor spray mist or sanding dust.
Close container after each use. Keep out of reach of children. Do not take internally.

SECTION XX

HMIS (Hazardous Materials Identification System)(R) NPCA

HMIS is a recognized workplace Hazard Communications System as required by OSHA (29 CFR 1910.1200). Information on establishing a compliant hazardous communication program using HMIS is available from:

American Labelmark Co., Inc., Labelmaster Division
5724 N. Pulaski Rd., Chicago, IL 60646
1-800-621-5808

The ratings assigned by Benjamin Moore & Co. are only suggested ratings; the contractor/employer has ultimate responsibility for HMIS rating where this system is used.
PERSONAL PROTECTION: This code is left blank on Benjamin Moore & Co. MSDS's as it depends on application technique and the workplace ventilation. Please read Sections II through IX of this MSDS before deciding on appropriate protective equipment and beginning work. There are codes available for this section which can be obtained from Labelmaster.
This product contains at least one toxic chemical listed in Section II that is subject to the reporting requirements of section 313 of the Emergency Planning and Community Right-To-Know Act of 1986 and 40 CFR 372.

DISCLAIMER

The information contained herein is presented in good faith and believed to be accurate as of the effective date shown above. This information is furnished without warranty of any kind. Employers should use this information only as a supplement to other information gathered by them and must make independent determination of suitability and completeness of information from all sources to assure proper use of these materials and the safety and health of employees. Any use of this data and information must be determined by the user to be in accordance with applicable federal, state and local laws and regulations.
NOTICE: Removal of old paint by sanding, scraping or other means may generate dust or fumes which contain lead. Exposure to lead dust or fumes may cause adverse health effects, especially in children or pregnant women. Controlling exposure to lead or other hazardous substances requires the use of proper protective equipment, such as a properly fitted respirator (NIOSH approved) and proper containment and cleanup. For additional information, contact the USEPA/Lead Information Hotline at 1-800-LEAD-FYI.

Material Safety Data Sheet (MSDS) XIM 400W White #1102
Fiche technique de sécurité XIM 400W Blanc #1102

Complies with OSHA's Hazard Communications Standard 29CFR 1910.1200

Quick Identifier, Common Name: (Used on Label and Data Sheet)
Identifiant rapide, appellation commune : (utilisée sur étiquette et fiche technique)

SECTION 1:

SUPPLIER INFORMATION:	INFORMATIONS DE FOURNISSEUR:
Manufacturer's Name: XIM Products, Inc.	**Nom du fabricant:** XIM Products, Inc.
Address: 1169 Bassett Road, Westlake, Ohio 44145	**Adresse:** 1169 Bassett Road, Westlake, Ohio 44145 USA
Emergency Calls: (800) 424-9300	**Appels d'urgence:** (800) 424-9300
Information Calls: (440) 871-4737	**Demandes d'informations:** (440) 871-4737

PRODUCT IDENTIFICATION	IDENTIFICATION DU PRODUIT
XIM 400W White #1102	**XIM 400W Blanc #1102**
Date Prepared: 02/09/09	**Date de préparation**: 02/09/09
Prepared By: J.E .Jarufe	**Préparé par:** J.E .Jarufe
Updated: 02/09/09	**Mise à jour:** 02/09/09
Product Class: Modified Alkyd	**Classe de produit:** Modified Alkyd

HMIS Codes

Health	2*
Flammability	3
Reactivity	0

HMIS Codes

Santé	2*
Inflammabilité	3
Réactivité	0

SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS

WT%	CAS NO.	INGREDIENT	UNITS
< 0.005	71-43-2	† Benzene	
		ACGIH TLV	0.50 ppm
		OSHA TLV	1.00 ppm
< 1.10	100-41-4	† Ethyl Benzene	
		ACGIH TLV	100 ppm
		OSHA TLV	100 ppm
< 0.003	108-88-3	†Toluene	
		ACGIH TLV	20 ppm
		OSHA TLV	200 ppm
< 11.00	1330-20-7	Xylene	
		ACGIH TLV	150 ppm
		OSHA TLV	100 ppm
< 24.00	64742-89-8	VM&P Naphtha	
		ACGIH TLV	300 ppm
		OSHA PEL	400 ppm
< 10.50	14807-96-6	Magnesium Silicate Hydrate	
		ACGIH TLV	2 mg/m^3 (respirable)
		OSHA TLV	2 mg/m^3 (Mineral Dust)

† **These chemicals are not added by XIM to its products. These chemicals are naturally occurring chemicals in the solvents, pigments and/or additives used by XIM and the paint industry.**
Ces produits chimiques ne sont pas ajoutés par XIM dans ses produits. Ils apparaissent naturellement comme dans solvants, pigments et/ou additifs utilisés par XIM et l'industrie de la peinture.

SECTION 3:

PHYSICAL AND CHEMICAL PROPERTIES	PROPRIÉTÉS PHYSIQUES ET CHIMIQUES
Physical Form: Liquid	**Forme physique**: Liquide
Appearance and Odor: White color liquid, solvent odor	**Apparence et odeur: Liquide** Blanc, odeur de solvant
Boiling Range: 245-288° F	**Limites d'ébullition:** 118-142° C
Vapor Pressure: 26 mm Hg @100°.F	**Pression de vapeur:** 26 mm Hg @ 38.8° C
Vapor Density: Heavier than air 3.8 (Air = 1)	**Densité de vapeur:** Plus lourd que l'air 3.8 (Air = 1)
Evaporation Rate: Slower than ether	**Taux d'évaporation :** Plus lent que l'éther
Weight per Gallon: 10.38 lb/gal	**Poids par gallon:** 10.38 lb/gal 1.24 kg / l
Solubility in Water: Negligible	**Solubilité dans l'eau:** Négligeable
VOC: < 450 g/l < 3.76 lb/gal	**VOC:** < 450g/l < 3.76 lb/gal 0.45 kg/l
Percent Volatile: 57.5 % by Volume	**Pourcentage volatile:** 57.5 % by Volume

FIRE AND EXPLOSION DATA	DONNÉES SUR INCENDIE ET EXPLOSION
Flash Point: 40-80° F TCC (ASTM D-56)	**Point d'éclair :** 4.4-26.7° C TCC (ASTM D-56)
Flammability Limits: LEL - 1.0 % UEL – 7.0 %	**Limites d'inflammabilité :** LEL - 1.0 % UEL – 7.0 %
Extinguishing Media: Dry Chemical, Carbon dioxide, Foam	**Matériaux d'extinction :** Poudre chimique, dioxyde de carbone, mousse
Flammability Class: **DOT**: Flammable Liquid	**Classe d'inflammabilité : DOT**: Liquide inflammable
OSHA: Class 1B	**OSHA:** Class 1B
Special Fire Fighting Procedures: Wear protective equipment including NIOSH approved self-contained breathing apparatus. Isolate from heat, sparks, electrical equipment and open flame.	**Procédures spéciales de lutte contre le feu :** Porter un équipement de protection incluant un appareil respiratoire autonome approuvé NIOSH. Garder à l'écart de chaleur, étincelles, équipement électrique et flamme nue.
Unusual Fire and Explosion Hazards: During a fire, vapors may form an explosive mixture in air. Closed containers may explode when exposed to extreme heat. Solvent vapors may be heavier than air. Vapors may build up and travel along the ground to an ignition source which may result in a flash back to the source of the vapors. Cool fire exposed containers with water. Heavy build up on filters, rags, etc. Can trap solvents and result in spontaneous combustion.	**Dangers inhabituels d'incendie et explosion :** Durant un incendie, des vapeurs peuvent former un mélange explosif dans l'air. Des conteneurs fermés peuvent exploser s'ils sont exposés à une chaleur intense. Les vapeurs de solvants peuvent être plus lourdes que l'air. Elles peuvent s'accumuler et suivre le sol jusqu'à une source d'inflammation avec un retour jusqu'à leur source. Refroidir les conteneurs exposés avec de l'eau. Des dépôts épais sur filtres, chiffons, etc., peuvent capter des solvants et entraîner une combustion spontanée.

SECTION 5:

HEALTH HAZARD DATA	DONNÉES SUR LES RISQUES POUR LA SANTÉ
Routes of Entry: Inhalation, Skin Contact, Eye Contact from Liquid and vapors, Ingestion.	**Voies d'entrée :** Inhalation, contact avec la peau, contact avec les yeux de liquide et vapeurs, ingestion
Effects of Overexposure:	**Effets d'une surexposition :**
Inhalation – ACUTE: Irritation of the nose, throat and eyes: Asthma-like breathing may be a delayed reaction. Other possible symptoms of overexposure may include headache, nausea, narcosis, fatigue and loss of appetite.	**Inhalation – AIGUË :** Irritation de nez, gorge et yeux : Une respiration de type asthmatique peut être une réaction avec retard. D'autres symptômes possibles peuvent inclure mal de tête, nausée, narcose, fatigue et perte d'appétit.
Inhalation – CHRONIC: Chronic exposure to solvents has been associated with various neurotoxic effects including permanent brain and nervous system damage. Symptoms include loss of memory, loss of intellectual ability and loss of coordination.	**Inhalation – CHRONIQUE :** Une exposition chronique aux solvants a été associée avec divers effets neurotoxiques dont des dommages permanents au cerveau et au système nerveux. Les symptômes incluent perte de mémoire, perte de capacité intellectuelle et perte de coordination.
Eye Contact: Liquid and vapors are irritating to the eyes and can cause pain, tearing, reddening and swelling. If left untreated, corneal damage can occur and injury is slow to heal. However, damage is usually reversible.	**Contact avec les yeux :** Liquides et vapeurs dont des irritants pour les yeux et peuvent causer douleur, larmoiement, rougissement et gonflement. À défaut de soins, des dommages à la cornée peuvent arriver, et la blessure est longue à cicatriser. Cependant les dommages sont généralement réversibles.
Skin Contact: Repeated or prolonged skin contact can result in dry, defatted and cracked skin causing increased susceptibility to infection.	**Contact avec la peau : Un** contact cutané répété ou prolongé peut amener assèchement, dégraissage et craquèlement de la peau, entraînant une sensibilité accrue aux infections.
Ingestion: Ingestion can result in irritation in the mouth, stomach tissue and digestive tract. Symptoms can include sore throat, abdominal pain, nausea, vomiting and diarrhea. Vomiting may cause aspiration resulting in chemical pneumonitis.	**Ingestion :** Une ingestion peut amener une irritation de bouche, tissu stomacal et voies digestives. Les symptômes peuvent inclure irritation de gorge, douleur abdominale, nausée, vomissement et diarrhée. Le vomissement peut entraîner une aspiration causant une pneumonite chimique.
MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE: Asthma, other respiratory disorders (bronchitis, etc.), skin allergies, eczema.	**ÉTATS MÉDICAUX AGGRAVÉS PAR UNE EXPOSITION :** Asthme, autres désordres respiratoires (bronchite, etc.), allergies cutanées, eczéma
EMERGENCY AND FIRST AID PROCEDURES:	**PROCÉDURES D'URGENCE ET DE PREMIERS SOINS :**
Eyes: Flush eyes with clean water for at least 15 minutes. Obtain medical attention.	**Yeux :** Rincer les yeux à l'eau propre pendant au moins 15 minutes. Obtenir une intervention médicale
Skin: Remove contaminated clothing immediately. Wash affected areas thoroughly with soap and water. Obtain medical attention if irritation develops or persists.	**Peau :** Ôter immédiatement les vêtements contaminés. Laver les zones affectées soigneusement à l'eau et au savon. Obtenir immédiatement une intervention médicale si une irritation se développe et persiste.
Inhalation: Remove from exposure. Administer oxygen or artificial respiration as needed. Obtain medical attention.	**Inhalation:** Sortir du lieu d'exposition. Administrer oxygène ou respiration artificielle selon le besoin. Obtenir une intervention médicale.
Ingestion: DO NOT INDUCE VOMITING. Give 1-2 glasses of water to dilute. Consult a physician immediately.	**Ingestion:** NE PAS PROVOQUER LE VOMISSEMENT. Faire avaler 1-2 verres d'eau pour diluer le produit. Consulter immédiatement un médecin.

SECTION 6:

REACTIVITY DATA	DONNÉES SUR LA RÉACTIVITÉ
Stability: This material is stable	**Stabilité :** Ce matériau est stable.
Materials to avoid: Strong oxidizing agents.	**Matériaux à éviter :** Agents fortement oxydants.
Hazardous Polymerization: Will not occur.	**Polymérisation dangereuse :** Ne se produira pas.
Decomposition Products: By high heat and fire: CO2, CO and other toxic vapors and mist.	**Produits de décomposition :** En cas de forte chaleur ou de feu : CO2, CO et autres vapeurs et brouillards toxiques.

ACCIDENTAL RELEASE MEASURES	MESURES EN CAS DE DÉVERSEMENT ACCIDENTEL

Precautions for handling and storage: Keep from fire, sparks and open flame. Do not smoke. Keep container tightly closed. Wash thoroughly after handling.
Other precautions: Remove sources of ignition. Provide explosion proof ventilation and/or respiratory protection. Use non-sparking tools.

Steps to take in case of spills: Pick up large spills with non-sparking tools; small spills with absorbent material. Wash down area with liquid decontaminant and flush spill area with water.

Waste Disposal Method: If discarded this material and containers should be treated as a hazardous waste, based on the Ignitability characteristics as defined under Federal RCRA Regulations (40 CFR 261). Dispose of in accordance with local, state, and federal regulations. DO NOT INCINERATE IN CLOSED CONTAINERS.

For further information, contact the United States Environmental Protection Agency RCRA hotline (800) 242-9342.

Précautions de manutention et entreposage : Garder à l'écart de feu, étincelles et flamme nue. Ne pas fumer. Garder le conteneur bien fermé. Se laver soigneusement après manutention.
Autres précautions : Écarter les sources d'inflammation. Fournir une ventilation anti-déflagration et/ou une protection respiratoire. Utiliser des outils non générateurs d'étincelles.
Actions à mener en cas de déversement : Récupérer les gros déversements avec des outils non générateurs d'étincelles, et les plus réduits avec de la matière absorbante. Laver la zone du déversement avec un décontaminant liquide, et bien la rincer à l'eau.
Méthode de mise au rebut des déchets : En cas de mise au rebut, matière et conteneurs doivent être traités comme des déchets dangereux, sur la base des caractéristiques d'inflammabilité définies par les exigences fédérales RCRA (40 CFR 261). Jeter en conformité avec les réglementations locales, provinciales et nationales. NE PAS INCINÉRER DE PRODUIT DANS DES CONTENEURS FERMÉS.
Pour plus d'informations, contacter l'agence américaine de protection de l'environnement sur la ligne d'urgence RCRA au (800) 242-9342

SECTION 8:

SPECIAL PROTECTION/SAFE HANDLING INFORMATION	INFORMATIONS SUR PROTECTION SPÉCIALE/MANUTENTION SÛRE

Special Sensitivity: Avoid exposing the container to high heat. This can cause sealed containers to pressurize and possibly rupture.

Handling and Storage: Keep away from heat, sparks and open flame. Ground the container during storage and transfer operations. When storing, tightly close containers to prevent moisture contamination. Do not reseal if contamination is suspected. Do not breathe vapors. Employee education and training in safe handling of this product are required under OSHA Hazard Communication Standard.

Respiratory Protection: Use air-purifying respirator that the respirator supplier has demonstrated to be effective for solvent vapors. Where overspray is present, or if the concentration of solvents is not known or exceeds the level at which the air purifying respirator is effective, a positive pressure air-supplied respirator (TC19C NIOSH) is recommended.
Ventilation: Design and maintain to provide volume and pattern to prevent vapor concentration in excess of TLV or PEL

Protective Gloves: Wear gloves which are recommended by glove supplier for protection against Materials in Section 2.

Eye Protection: Wear safety glasses with unperforated side shields.

Sensibilité spéciale : Éviter l'exposition du conteneur à une forte chaleur. Cela peut amener à une montée en pression des conteneurs hermétiques avec possible rupture.
Manutention et entreposage : À garder à l'écart de chaleur, étincelles et flamme nue. Mettre le conteneur à la terre durant l'entreposage et les opérations de transfert. Durant le stockage bien fermer les conteneurs pour éviter une contamination par l'humidité. Ne pas refermer si de la contamination est suspectée. Ne pas respirer les vapeurs. Une formation des employés et un apprentissage pour une manipulation de ce produit sont exigés par la norme 0SHA de communication.
Protection respiratoire : Utiliser un appareil de protection respiratoire à adduction d'air filtré dont le fabricant a démontré l'efficacité pour protéger des vapeurs de solvants. S'il y a de la surpulvérisation ou si la concentration en solvants est inconnue ou dépasse le niveau pour lequel le respirateur reste efficace, il est recommandé d'utiliser un appareil respiratoire à apport d'air en pression positive (TC19C NIOSH)
Ventilation : Concevoir et entretenir afin de fournir volume et configuration empêchant que la concentration de vapeur dépasse les seuils de VLE ou PEL.
Gants de protection : Porter des gants de type recommandé par leur fournisseur pour se protéger des matières de la section 2.
Protection des yeux : Porter des lunettes de sécurité avec des protections latérales non perforées.

SECTION 9: **XIM 400W White #1102** **XIM 400W Blanc #1102**

TOXICOLOGY INFORMATION INFORMAION TOXICOLOGIQUE	**CAS NO.**	**LD50 RAT (oral)**	**LC50 RAT (inhalation)**
Benzene	71-43-2	930 mg/kg	Not Available (**Non disponible)**
Ethyl Benzene	100-41-4	3500 mg/kg	Not Available
Toluene	108-88-3	636 mg kg^{-1}	49 gm/m^3 (4hours)
Xylene	1330-20-7	4300 mg/kg	26800 ppm/m^3/8hr
VM&P Naphtha	64742-89-8	5000 mg/kg	Not Available
Magnesium Silicate Hydrate	14807-96-6	Not Available	Not Available

Health Concerns:
(Dangers pour la santé)

Ethylbenzene is classified by IARC as possibly carcinogenic to humans (2B) based on inadequate evidence in humans and sufficient evidence in laboratory animals. Lifetime inhalation exposure of rats and mice to high ethylbenzene concentrations resulted in increases in certain types of cancer, including kidney tumors in rats, and lung and liver tumors in mice. These effects were not observed in animals exposed to lower concentrations. There is no evidence that ethylbenzene causes cancer in humans.
L'éthyle benzène est classé par l'IARC comme cancérigène possible pour les humains (2B), sur la base d'une évidence insuffisante pour les humains mais d'une évidence suffisante sur des animaux en laboratoire. Une exposition par inhalation à de fortes concentrations d'éthyle benzène durant toute la vie de rats et souris a entraînér l'augmentation de certains types de cancers, incluant des tumeurs rénales chez les rats, et des tumeurs du foie et des poumons chez les souris. Ces effets n'étaient pas observés sur des animaux exposés à de plus faibles concentrations. Il n'y a pas d'évidence que l'éthyle benzène cause le cancer chez l'homme.

California Proposition 65 (Proposition 65 de Californie)
Warning: This product contains chemicals known to the state of California to cause cancer and birth defects, or other reproductive harm.
Avertissement : Ce produit contient des produits chimiques reconnus par l'état de Californie pour causer des cancers ou anomalies congénitales, ou d'autres atteintes à la reproduction.

This product contains pigments that may be classified as nuisance particles which may present hazardous levels only during sanding or abrading. Inhaling of dust may aggravate existing respiratory disorders (i.e. asthma, emphysema, bronchitis…). Inhalation of inorganic dusts has been linked to the development of Fibrotic and Benign Pneumoconiosis
Ce produit contient des pigments pouvant être classés comme poussières nuisibles, qui peuvent présenter des niveaux dangereux uniquement lors de ponçage ou abrasion. L'inhalation de ces poussières peut aggraver des troubles respiratoires existants (comme asthme, emphysème, bronchite). L'inhalation de poussières minérales a été corrélée au développement de pneumoconiose fibreuse ou bénigne.
(www.bibalex.org/supercourse/supercoursePPT/32011-33001/32551.ppt)

This product does not contain asbestos
Ce produit ne contient pas d'amiante

IARC: Ethylbenzene: Group 2B (Groupe 2B) **NTP: Benzene: Listed** (Cotée)
Benzene: Group 1 (Groupe 1)

SECTION 10:

TRANSPORTATION INFORMATION	**INFORMATIONS SUR LE TRANSPORT**
DOT INFORMATION: Paint Consumer commodity, ORM-D **All raw materials in this product are listed on the Canadian DSL.**	**INFORMATIONS DOT:** Peinture Bien de consommation, AARD **Toutes les matières premières contenues dans ce produit font Partie de la liste Canadienne DSL sur les substances Domestiques.**

NOTE: **Read MSDS completely before use and follow all label instructions.**

REMARQUE: **Lire complètement la MSDS avant utilisation et suivre les instructions de l'étiquette**

The information contained in this MSDS is based on the present state of knowledge and is based on sources believed to be reliable. However, since the data safety standards and government regulations are subject to change and the conditions of handling and use or misuse are beyond our control, XIM Products makes no warranty, either express or implied, with respect to the information contained herein and disclaims all liability for reliance thereon.
Les informations contenues dans cette MSDS sont basées sur l'état actuel des connaissances, et sur des sources d'information réputées fiables. Cependant, comme les normes sur les données de sécurité et les réglementations gouvernementales sont sujettes à changements, et comme les conditions de manutention et d'utilisation ou de mésusage sont hors de notre contrôle, XIM Products ne donne aucune garantie, explicite ou implicite, à propos des informations contenues ici, et rejette toutes responsabilité quant à leur exactitude.

Material Safety Data Sheet (MSDS)
Fiche technique de sécurité

XIM 400W White Aerosol # 1102

XIM 400W Blanc Aérosol # 1102

Complies with OSHA's Hazard Communications Standard 29CFR 1910.1200

Quick Identifier, Common Name: (Used on Label and Data Sheet)
Identifiant rapide, appellation commune : (utilisée sur étiquette et fiche technique)

SECTION 1:

SUPPLIER INFORMATION:	INFORMATIONS DE FOURNISSEUR:
Manufacturer's Name: XIM Products, Inc.	**Nom du fabricant:** XIM Products, Inc.
Address: 1169 Bassett Road, Westlake, Ohio 44145	**Adresse:** 1169 Bassett Road, Westlake, Ohio 44145 USA
Emergency Calls: (800) 424-9300	**Appels d'urgence: (**800) 424-9300
Information Calls: (440) 871-4737	**Demandes d'informations:** (440) 871-4737
PRODUCT IDENTIFICATION	**IDENTIFICATION DU PRODUIT**
XIM 400W White Aerosol # 1102	**XIM 400W Blanc Aérosol # 1102**
Date Prepared: 02/09/09	**Date de préparation**: 02/09/09
Prepared By: J.E .Jarufe	**Préparé par:** J.E .Jarufe
Updated: 02/09/09	**Mise à jour:** 02/09/09
Product Class: Modified Alkyd	**Classe de produit:** Modified Alkyd

HMIS Codes

Health	2*
Flammability	4
Reactivity	0

HMIS Codes

Santé	2*
Inflammabilité	4
Réactivité	0

SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS

WT%	CAS NO.	INGREDIENT	UNITS
< 0.0035	71-43-2	†Benzene	
		ACGIH TLV	0.50 ppm
		OSHA TLV	1.00 ppm
< 0.70	100-41-4	†Ethyl Benzene	
		ACGIH TLV	100 ppm
		OSHA TLV	100 ppm
< 3.00	108-65-6	Propylene Glycol Monomethyl Ether Acetate	
		ACGIH TLV	Not Established
		OSHA PEL	Not Established
< 0.002	108-88-3	†Toluene	
		ACGIH TLV	20 ppm
		OSHA TLV	200 ppm
< 15.00	64742-89-8	VM&P Naphtha	
		ACGIH TLV	300 ppm
		OSHA PEL	400 ppm
< 6.85	1330-20-7	Xylene	
		ACGIH TLV	150 ppm
		OSHA TLV	100 ppm
< 11.00	67-64-1	Acetone	
		ACGIH TLV	750 ppm
		OSHA PEL	750 ppm
< 6.00	106-97-8	N-Butane	
		ACGIH TLV	800 ppm
		OSHA PEL	800 ppm
< 17.00	74-98-6	Propane	
		ACGIH TLV	1000 ppm
		OSHA PEL	Not Available
< 5.00	14807-96-6	Magnesium Silicate Hydrate	
		ACGIH TLV	2 mg/m^3 (respirable)
		OSHA TLV	2 mg/m^3 (Mineral Dust)

† **These chemicals are not added by XIM to its products. These chemicals are naturally occurring chemicals in the solvents, pigments and/or additives used by XIM and the paint industry.**
Ces produits chimiques ne sont pas ajoutés par XIM dans ses produits. Ils apparaissent naturellement comme dans solvants, pigments et/ou additifs utilisés par XIM et l'industrie de la peinture.

SECTION 3:

PHYSICAL AND CHEMICAL PROPERTIES	PROPRIÉTÉS PHYSIQUES ET CHIMIQUES
Physical Form: Aerosol	**Forme physique**: Aérosol
Appearance and Odor: White color liquid , solvent odor	**Apparence et odeur:** Liquide blanc, odeur de solvant
Boiling Range: 1 – 279 ° F	**Limites d'ébullition:** -17.2 - 137.2 ° C
Vapor Pressure: 5585.20 mm HG @ 20 °C	**Pression de vapeur:** 5585.20 mm HG @ 20 °C
Vapor Density: N/A	**Densité de vapeur:** N/A
Evaporation Rate: 7.700 (n-butyl Acetate = 1)	**Taux d'évaporation :** 7.700 (n-butyl Acetate = 1)
Weight per Gallon: 7.35 lb/gal	**Poids par gallon:** 7.35 lb/gal 0.88 kg / l
Solubility in Water: Negligible	**Solubilité dans l'eau:** Négligeable
VOC (By Weight): < 60 %	**VOC (By Weight):** < 60 %
MRI : < 1.20	**MRI:** < 1.20

FIRE AND EXPLOSION DATA	DONNÉES SUR INCENDIE ET EXPLOSION
Flash Point: < -25° F TCC (ASTM D-56)	**Point d'éclair :** < -31.7° C TCC (ASTM D-56)
Flammability Limits: LEL - 1.0 % UEL – 7.0 %	**Limites d'inflammabilité :** LEL - 1.0 % UEL – 7.0 %
Extinguishing Media: Dry Chemical, Carbon dioxide, Foam	**Matériaux d'extinction :** Poudre chimique, dioxyde de carbone, mousse
Flammability Class: DOT: Aerosol Flammable	**Classe d'inflammabilité : DOT**: Aérosol inflammable
OSHA: Class 2.1	**OSHA:** Class 2.1
Special Fire Fighting Procedures: Wear protective equipment including NIOSH approved self-contained breathing apparatus. Isolate from heat, sparks, electrical equipment and open flame.	**Procédures spéciales de lutte contre le feu :** Porter un équipement de protection incluant un appareil respiratoire autonome approuvé NIOSH. Garder à l'écart de chaleur, étincelles, équipement électrique et flamme nue.
Unusual Fire and Explosion Hazards: During a fire, vapors may form an explosive mixture in air. Closed containers may explode when exposed to extreme heat. Solvent vapors may be heavier than air. Vapors may build up and travel along the ground to an ignition source which may result in a flash back to the source of the vapors. Cool fire exposed containers with water. Heavy build up on filters, rags, etc. Can trap solvents and result in spontaneous combustion.	**Dangers inhabituels d'incendie et explosion :** Durant un incendie, des vapeurs peuvent former un mélange explosif dans l'air. Des conteneurs fermés peuvent exploser s'ils sont exposés à une chaleur intense. Les vapeurs de solvants peuvent être plus lourdes que l'air. Elles peuvent s'accumuler et suivre le sol jusqu'à une source d'inflammation avec un retour jusqu'à leur source. Refroidir les conteneurs exposés avec de l'eau. Des dépôts épais sur filtres, chiffons, etc., peuvent capter des solvants et entraîner une combustion spontanée.

SECTION 5:

HEALTH HAZARD DATA	DONNÉES SUR LES RISQUES POUR LA SANTÉ
Routes of Entry: Inhalation, Skin Contact, Eye Contact from Liquid and vapors, Ingestion.	**Voies d'entrée :** Inhalation, contact avec la peau, contact avec les yeux de liquide et vapeurs, ingestion
Effects of Overexposure:	**Effets d'une surexposition :**
Inhalation – ACUTE: Irritation of the nose, throat and eyes: Asthma-like breathing may be a delayed reaction. Other possible symptoms of overexposure may include headache, nausea, narcosis, fatigue and loss of appetite.	**Inhalation – AIGUË :** Irritation de nez, gorge et yeux : Une respiration de type asthmatique peut être une réaction avec retard. D'autres symptômes possibles peuvent inclure mal de tête, nausée, narcose, fatigue et perte d'appétit.
Inhalation – CHRONIC: Chronic exposure to solvents has been associated with various neurotoxic effects including permanent brain and nervous system damage. Symptoms include loss of memory, loss of intellectual ability and loss of coordination.	**Inhalation – CHRONIQUE :** Une exposition chronique aux solvants a été associée avec divers effets neurotoxiques dont des dommages permanents au cerveau et au système nerveux. Les symptômes incluent perte de mémoire, perte de capacité intellectuelle et perte de coordination.
Eye Contact: Liquid and vapors are irritating to the eyes and can cause pain, tearing, reddening and swelling. If left untreated, corneal damage can occur and injury is slow to heal. However, damage is usually reversible.	**Contact avec les yeux :** Liquides et vapeurs dont des irritants pour les yeux et peuvent causer douleur, larmoiement, rougissement et gonflement. À défaut de soins, des dommages à la cornée peuvent arriver, et la blessure est longue à cicatriser. Cependant les dommages sont généralement réversibles.
Skin Contact: Repeated or prolonged skin contact can result in dry, defatted and cracked skin causing increased susceptibility to infection.	**Contact avec la peau :** Un contact cutané répété ou prolongé peut amener assèchement, dégraissage et craquèlement de la peau, entraînant une sensibilité accrue aux infections.
Ingestion: Ingestion can result in irritation in the mouth, stomach tissue and digestive tract. Symptoms can include sore throat, abdominal pain, nausea, vomiting and diarrhea. Vomiting may cause aspiration resulting in chemical pneumonitis.	**Ingestion :** Une ingestion peut amener une irritation de bouche, tissu stomacal et voies digestives. Les symptômes peuvent inclure irritation de gorge, douleur abdominale, nausée, vomissement et diarrhée. Le vomissement peut entraîner une aspiration causant une pneumonite chimique.
MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE: Asthma, other respiratory disorders (bronchitis, etc.), skin allergies, eczema.	**ÉTATS MÉDICAUX AGGRAVÉS PAR UNE EXPOSITION :** Asthme, autres désordres respiratoires (bronchite, etc.), allergies cutanées, eczéma
EMERGENCY AND FIRST AID PROCEDURES:	**PROCÉDURES D'URGENCE ET DE PREMIERS SOINS :**
Eyes: Flush eyes with clean water for at least 15 minutes. Obtain medical attention.	**Yeux :** Rincer les yeux à l'eau propre pendant au moins 15 minutes. Obtenir une intervention médicale
Skin: Remove contaminated clothing immediately. Wash affected areas thoroughly with soap and water. Obtain medical attention if irritation develops or persists.	**Peau :** Ôter immédiatement les vêtements contaminés. Laver les zones affectées soigneusement à l'eau et au savon. Obtenir immédiatement une intervention médicale si une irritation se développe et persiste.
Inhalation: Remove from exposure. Administer oxygen or artificial respiration as needed. Obtain medical attention.	**Inhalation:** Sortir du lieu d'exposition. Administrer oxygène ou respiration artificielle selon le besoin. Obtenir une intervention médicale.
Ingestion: DO NOT INDUCE VOMITING. Give 1-2 glasses of water to dilute. Consult a physician immediately.	**Ingestion:** NE PAS PROVOQUER LE VOMISSEMENT. Faire avaler 1-2 verres d'eau pour diluer le produit. Consulter immédiatement un médecin.

REACTIVITY DATA	DONNÉES SUR LA RÉACTIVITÉ
Stability: This material is stable **Materials to avoid:** Strong oxidizing agents. **Hazardous Polymerization:** Will not occur. **Decomposition Products:** By high heat and fire: CO2, CO and other toxic vapors and mist.	**Stabilité :** Ce matériau est stable. **Matériaux à éviter :** Agents fortement oxydants. **Polymérisation dangereuse :** Ne se produira pas. **Produits de décomposition :** En cas de forte chaleur ou de feu : CO2, CO et autres vapeurs et brouillards toxiques.

SECTION 7:

ACCIDENTAL RELEASE MEASURES	MESURES EN CAS DE DÉVERSEMENT ACCIDENTEL
Precautions for handling and storage: Keep from fire, sparks and open flame. Do not smoke. Keep container tightly closed. Wash thoroughly after handling. **Other precautions:** Remove sources of ignition. Provide explosion proof ventilation and/or respiratory protection. Use non-sparking tools. **Steps to take in case of spills:** Pick up large spills with non-sparking tools; small spills with absorbent material. Wash down area with liquid decontaminant and flush spill area with water. **Waste Disposal Method:** If discarded this material and containers should be treated as a hazardous waste, based on the Ignitability characteristics as defined under Federal RCRA Regulations (40 CFR 261). Dispose of in accordance with local, state, and federal regulations. DO NOT INCINERATE IN CLOSED CONTAINERS. **For further information**, contact the United States Environmental Protection Agency RCRA hotline (800) 242-9342.	**Précautions de manutention et entreposage :** Garder à l'écart de feu, étincelles et flamme nue. Ne pas fumer. Garder le conteneur bien fermé. Se laver soigneusement après manutention. **Autres précautions :** Écarter les sources d'inflammation. Fournir une ventilation anti-déflagration et/ou une protection respiratoire. Utiliser des outils non générateurs d'étincelles. **Actions à mener en cas de déversement :** Récupérer les gros déversements avec des outils non générateurs d'étincelles, et les plus réduits avec de la matière absorbante. Laver la zone du déversement avec un décontaminant liquide, et bien la rincer à l'eau. **Méthode de mise au rebut des déchets :** En cas de mise au rebut, matière et conteneurs doivent être traités comme des déchets dangereux, sur la base des caractéristiques d'inflammabilité définies par les exigences fédérales RCRA (40 CFR 261). Jeter en conformité avec les réglementations locales, provinciales et nationales. NE PAS INCINÉRER DE PRODUIT DANS DES CONTENEURS FERMÉS. **Pour plus d'informations**, contacter l'agence américaine de protection de l'environnement sur la ligne d'urgence RCRA au (800) 242-9342

SECTION 8:

SPECIAL PROTECTION/SAFE HANDLING INFORMATION	INFORMATIONS SUR PROTECTION SPÉCIALE/MANUTENTION SÛRE
Special Sensitivity: Avoid exposing the container to high heat. This can cause sealed containers to pressurize and possibly rupture. **Handling and Storage:** Keep away from heat, sparks and open flame. Ground the container during storage and transfer operations. When storing, tightly close containers to prevent moisture contamination. Do not reseal if contamination is suspected. Do not breathe vapors. Employee education and training in safe handling of this product are required under OSHA Hazard Communication Standard. **Respiratory Protection:** Use air-purifying respirator that the respirator supplier has demonstrated to be effective for solvent vapors. Where overspray is present, or if the concentration of solvents is not known or exceeds the level at which the air purifying respirator is effective, a positive pressure air-supplied respirator (TC19C NIOSH) is recommended. **Ventilation:** Design and maintain to provide volume and pattern to prevent vapor concentration in excess of TLV or PEL **Protective Gloves:** Wear gloves which are recommended by glove supplier for protection against Materials in Section 2. **Eye Protection:** Wear safety glasses with unperforated side shields.	**Sensibilité spéciale :** Éviter l'exposition du conteneur à une forte chaleur. Cela peut amener à une montée en pression des conteneurs hermétiques avec possible rupture. **Manutention et entreposage :** À garder à l'écart de chaleur, étincelles et flamme nue. Mettre le conteneur à la terre durant l'entreposage et les opérations de transfert. Durant le stockage bien fermer les conteneurs pour éviter une contamination par l'humidité. Ne pas refermer si de la contamination est suspectée. Ne pas respirer les vapeurs. Une formation des employés et un apprentissage pour une manipulation de ce produit sont exigés par la norme 0SHA de communication. **Protection respiratoire :** Utiliser un appareil de protection respiratoire à adduction d'air filtré dont le fabricant a démontré l'efficacité pour protéger des vapeurs de solvants. S'il y a de la surpulvérisation ou si la concentration en solvants est inconnue ou dépasse le niveau pour lequel le respirateur reste efficace, il est recommandé d'utiliser un appareil respiratoire à apport d'air en pression positive (TC19C NIOSH) **Ventilation :** Concevoir et entretenir afin de fournir volume et configuration empêchant que la concentration de vapeur dépasse les seuils de VLE ou PEL. **Gants de protection :** Porter des gants de type recommandé par leur fournisseur pour se protéger des matières de la section 2. **Protection des yeux :** Porter des lunettes de sécurité avec des protections latérales non perforées.

TOXICOLOGY INFORMATION **INFORMAION TOXICOLOGIQUE**	**CAS NO.**	**LD50 RAT (oral)**	**LC50 RAT (inhalation)**
Benzene	71-43-2	930 mg/kg	Not Available (**Non disponible)**
Ethyl Benzene	100-41-4	3500 mg/kg	Not Available
Propylene Glycol Monomethyl Ether Acetate	108-65-6	10,000 mg/kg	4345 ppm (6 hours)
Toluene	108-88-3	636 mg kg^{-1}	49 gm/m^3 (4hours)
VM&P Naphtha	64742-89-8	5000 mg/kg	Not Available
Xylene	1330-20-7	4300 mg/kg	26800 ppm/m^3/8hr
Acetone	67-64-1	5800 mg/kg	50100 mg/m^3/8hr
N-Butane	160-97-8	Not Available	658000 mg/m^3
Propane	74-98-6	Not Available	Not Available
Magnesium Silicate Hydrate	14807-96-6	Not Available	Not Available

Health Concerns:
(Dangers pour la santé)

Ethylbenzene is classified by IARC as possibly carcinogenic to humans (2B) based on inadequate evidence in humans and sufficient evidence in laboratory animals. Lifetime inhalation exposure of rats and mice to high ethylbenzene concentrations resulted in increases in certain types of cancer, including kidney tumors in rats, and lung and liver tumors in mice. These effects were not observed in animals exposed to lower concentrations. There is no evidence that ethylbenzene causes cancer in humans.
L'éthyle benzène est classé par l'IARC comme cancérigène possible pour les humains (2B), sur la base d'une évidence insuffisante pour les humains mais d'une évidence suffisante sur des animaux en laboratoire. Une exposition par inhalation à de fortes concentrations d'éthyle benzène durant toute la vie de rats et souris a entraînér l'augmentation de certains types de cancers, incluant des tumeurs rénales chez les rats, et des tumeurs du foie et des poumons chez les souris. Ces effets n'étaient pas observés sur des animaux exposés à de plus faibles concentrations. Il n'y a pas d'évidence que l'éthyle benzène cause le cancer chez l'homme.

This product contains pigments that may be classified as nuisance particles which may present hazardous levels only during sanding or abrading. Inhaling of dust may aggravate existing respiratory disorders (i.e. asthma, emphysema, bronchitis…). Inhalation of inorganic dusts has been linked to the development of Fibrotic and Benign Pneumoconiosis
Ce produit contient des pigments pouvant être classés comme poussières nuisibles, qui peuvent présenter des niveaux dangereux uniquement lors de ponçage ou abrasion. L'inhalation de ces poussières peut aggraver des troubles respiratoires existants (comme asthme, emphysème, bronchite). L'inhalation de poussières minérales a été corrélée au développement de pneumoconiose fibreuse ou bénigne.
(www.bibalex.org/supercourse/supercoursePPT/32011-33001/32551.ppt)

This product does not contain asbestos (Ce produit ne contient pas d'amiante.)

California Proposition 65 (Proposition 65 de Californie)
Warning: This product contains chemicals known to the state of California to cause cancer and birth defects, or other reproductive harm.
Avertissement : Ce produit contient des produits chimiques reconnus par l'état de Californie pour causer des cancers ou anomalies congénitales, ou d'autres atteintes à la reproduction.

IARC: Ethylbenzene: Group 2B (Groupe 2B) **NTP: Benzene: Listed** (Cotée)
Benzene: Group 1 (Groupe 1)

SECTION 10:

TRANSPORTATION INFORMATION	**INFORMATIONS SUR LE TRANSPORT**
DOT INFORMATION: Aerosol Consumer Commodity, ORM-D, UN1950 **All raw materials in this product are listed on the Canadian DSL.**	**INFORMATIONS DOT:** Aérosol Bien de consommation, AARD, UN1950 **Toutes les matières premières contenues dans ce produit font Partie de la liste Canadienne DSL sur les substances Domestiques.**

NOTE: **Read MSDS completely before use and follow all label instructions.**

REMARQUE **: Lire complètement la MSDS avant utilisation et suivre les instructions de l'étiquette**

The information contained in this MSDS is based on the present state of knowledge and is based on sources believed to be reliable. However, since the data safety standards and government regulations are subject to change and the conditions of handling and use or misuse are beyond our control, XIM Products makes no warranty, either express or implied, with respect to the information contained herein and disclaims all liability for reliance thereon.
Les informations contenues dans cette MSDS sont basées sur l'état actuel des connaissances, et sur des sources d'information réputées fiables. Cependant, comme les normes sur les données de sécurité et les réglementations gouvernementales sont sujettes à changements, et comme les conditions de manutention et d'utilisation ou de mésusage sont hors de notre contrôle, XIM Products ne donne aucune garantie, explicite ou implicite, à propos des informations contenues ici, et rejette toutes responsabilité quant à leur exactitude.

Material Safety Data Sheet (MSDS) XIM 400W White #1102
Fiche technique de sécurité XIM 400W Blanc #1102

Complies with OSHA's Hazard Communications Standard 29CFR 1910.1200

Quick Identifier, Common Name: (Used on Label and Data Sheet)
Identifiant rapide, appellation commune : (utilisée sur étiquette et fiche technique)

SECTION 1:

SUPPLIER INFORMATION:	INFORMATIONS DE FOURNISSEUR:
Manufacturer's Name: XIM Products, Inc.	**Nom du fabricant:** XIM Products, Inc.
Address: 1169 Bassett Road, Westlake, Ohio 44145	**Adresse:** 1169 Bassett Road, Westlake, Ohio 44145 USA
Emergency Calls: (800) 424-9300	**Appels d'urgence:** (800) 424-9300
Information Calls: (440) 871-4737	**Demandes d'informations:** (440) 871-4737

PRODUCT IDENTIFICATION	IDENTIFICATION DU PRODUIT
XIM 400W White #1102	**XIM 400W Blanc #1102**
Date Prepared: 02/09/09	**Date de préparation**: 02/09/09
Prepared By: J.E .Jarufe	**Préparé par:** J.E .Jarufe
Updated: 02/09/09	**Mise à jour:** 02/09/09
Product Class: Modified Alkyd	**Classe de produit:** Modified Alkyd

HMIS Codes

Health	2*
Flammability	3
Reactivity	0

HMIS Codes

Santé	2*
Inflammabilité	3
Réactivité	0

SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS

WT%	CAS NO.	INGREDIENT	UNITS
< 0.005	71-43-2	† Benzene	
		ACGIH TLV	0.50 ppm
		OSHA TLV	1.00 ppm
< 1.10	100-41-4	† Ethyl Benzene	
		ACGIH TLV	100 ppm
		OSHA TLV	100 ppm
< 0.003	108-88-3	†Toluene	
		ACGIH TLV	20 ppm
		OSHA TLV	200 ppm
< 11.00	1330-20-7	Xylene	
		ACGIH TLV	150 ppm
		OSHA TLV	100 ppm
< 24.00	64742-89-8	VM&P Naphtha	
		ACGIH TLV	300 ppm
		OSHA PEL	400 ppm
< 10.50	14807-96-6	Magnesium Silicate Hydrate	
		ACGIH TLV	2 mg/m^3 (respirable)
		OSHA TLV	2 mg/m^3 (Mineral Dust)

† **These chemicals are not added by XIM to its products. These chemicals are naturally occurring chemicals in the solvents, pigments and/or additives used by XIM and the paint industry.**
Ces produits chimiques ne sont pas ajoutés par XIM dans ses produits. Ils apparaissent naturellement comme dans solvants, pigments et/ou additifs utilisés par XIM et l'industrie de la peinture.

SECTION 3:

PHYSICAL AND CHEMICAL PROPERTIES	PROPRIÉTÉS PHYSIQUES ET CHIMIQUES
Physical Form: Liquid	**Forme physique**: Liquide
Appearance and Odor: White color liquid, solvent odor	**Apparence et odeur: Liquide** Blanc, odeur de solvant
Boiling Range: 245-288° F	**Limites d'ébullition:** 118-142° C
Vapor Pressure: 26 mm Hg @100°.F	**Pression de vapeur:** 26 mm Hg @ 38.8° C
Vapor Density: Heavier than air 3.8 (Air = 1)	**Densité de vapeur:** Plus lourd que l'air 3.8 (Air = 1)
Evaporation Rate: Slower than ether	**Taux d'évaporation :** Plus lent que l'éther
Weight per Gallon: 10.38 lb/gal	**Poids par gallon:** 10.38 lb/gal 1.24 kg / l
Solubility in Water: Negligible	**Solubilité dans l'eau:** Négligeable
VOC: < 450 g/l < 3.76 lb/gal	**VOC:** < 450g/l < 3.76 lb/gal 0.45 kg/l
Percent Volatile: 57.5 % by Volume	**Pourcentage volatile:** 57.5 % by Volume

FIRE AND EXPLOSION DATA	DONNÉES SUR INCENDIE ET EXPLOSION
Flash Point: 40-80° F TCC (ASTM D-56)	**Point d'éclair :** 4.4-26.7° C TCC (ASTM D-56)
Flammability Limits: LEL - 1.0 % UEL – 7.0 %	**Limites d'inflammabilité :** LEL - 1.0 % UEL – 7.0 %
Extinguishing Media: Dry Chemical, Carbon dioxide, Foam	**Matériaux d'extinction :** Poudre chimique, dioxyde de carbone, mousse
Flammability Class: **DOT**: Flammable Liquid	**Classe d'inflammabilité : DOT**: Liquide inflammable
OSHA: Class 1B	**OSHA:** Class 1B
Special Fire Fighting Procedures: Wear protective equipment including NIOSH approved self-contained breathing apparatus. Isolate from heat, sparks, electrical equipment and open flame.	**Procédures spéciales de lutte contre le feu :** Porter un équipement de protection incluant un appareil respiratoire autonome approuvé NIOSH. Garder à l'écart de chaleur, étincelles, équipement électrique et flamme nue.
Unusual Fire and Explosion Hazards: During a fire, vapors may form an explosive mixture in air. Closed containers may explode when exposed to extreme heat. Solvent vapors may be heavier than air. Vapors may build up and travel along the ground to an ignition source which may result in a flash back to the source of the vapors. Cool fire exposed containers with water. Heavy build up on filters, rags, etc. Can trap solvents and result in spontaneous combustion.	**Dangers inhabituels d'incendie et explosion :** Durant un incendie, des vapeurs peuvent former un mélange explosif dans l'air. Des conteneurs fermés peuvent exploser s'ils sont exposés à une chaleur intense. Les vapeurs de solvants peuvent être plus lourdes que l'air. Elles peuvent s'accumuler et suivre le sol jusqu'à une source d'inflammation avec un retour jusqu'à leur source. Refroidir les conteneurs exposés avec de l'eau. Des dépôts épais sur filtres, chiffons, etc., peuvent capter des solvants et entraîner une combustion spontanée.

SECTION 5:

HEALTH HAZARD DATA	DONNÉES SUR LES RISQUES POUR LA SANTÉ
Routes of Entry: Inhalation, Skin Contact, Eye Contact from Liquid and vapors, Ingestion.	**Voies d'entrée :** Inhalation, contact avec la peau, contact avec les yeux de liquide et vapeurs, ingestion
Effects of Overexposure:	**Effets d'une surexposition :**
Inhalation – ACUTE: Irritation of the nose, throat and eyes: Asthma-like breathing may be a delayed reaction. Other possible symptoms of overexposure may include headache, nausea, narcosis, fatigue and loss of appetite.	**Inhalation – AIGUË :** Irritation de nez, gorge et yeux : Une respiration de type asthmatique peut être une réaction avec retard. D'autres symptômes possibles peuvent inclure mal de tête, nausée, narcose, fatigue et perte d'appétit.
Inhalation – CHRONIC: Chronic exposure to solvents has been associated with various neurotoxic effects including permanent brain and nervous system damage. Symptoms include loss of memory, loss of intellectual ability and loss of coordination.	**Inhalation – CHRONIQUE :** Une exposition chronique aux solvants a été associée avec divers effets neurotoxiques dont des dommages permanents au cerveau et au système nerveux. Les symptômes incluent perte de mémoire, perte de capacité intellectuelle et perte de coordination.
Eye Contact: Liquid and vapors are irritating to the eyes and can cause pain, tearing, reddening and swelling. If left untreated, corneal damage can occur and injury is slow to heal. However, damage is usually reversible.	**Contact avec les yeux :** Liquides et vapeurs dont des irritants pour les yeux et peuvent causer douleur, larmoiement, rougissement et gonflement. À défaut de soins, des dommages à la cornée peuvent arriver, et la blessure est longue à cicatriser. Cependant les dommages sont généralement réversibles.
Skin Contact: Repeated or prolonged skin contact can result in dry, defatted and cracked skin causing increased susceptibility to infection.	**Contact avec la peau : Un** contact cutané répété ou prolongé peut amener assèchement, dégraissage et craquèlement de la peau, entraînant une sensibilité accrue aux infections.
Ingestion: Ingestion can result in irritation in the mouth, stomach tissue and digestive tract. Symptoms can include sore throat, abdominal pain, nausea, vomiting and diarrhea. Vomiting may cause aspiration resulting in chemical pneumonitis.	**Ingestion :** Une ingestion peut amener une irritation de bouche, tissu stomacal et voies digestives. Les symptômes peuvent inclure irritation de gorge, douleur abdominale, nausée, vomissement et diarrhée. Le vomissement peut entraîner une aspiration causant une pneumonite chimique.
MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE: Asthma, other respiratory disorders (bronchitis, etc.), skin allergies, eczema.	**ÉTATS MÉDICAUX AGGRAVÉS PAR UNE EXPOSITION :** Asthme, autres désordres respiratoires (bronchite, etc.), allergies cutanées, eczéma
EMERGENCY AND FIRST AID PROCEDURES:	**PROCÉDURES D'URGENCE ET DE PREMIERS SOINS :**
Eyes: Flush eyes with clean water for at least 15 minutes. Obtain medical attention.	**Yeux :** Rincer les yeux à l'eau propre pendant au moins 15 minutes. Obtenir une intervention médicale
Skin: Remove contaminated clothing immediately. Wash affected areas thoroughly with soap and water. Obtain medical attention if irritation develops or persists.	**Peau :** Ôter immédiatement les vêtements contaminés. Laver les zones affectées soigneusement à l'eau et au savon. Obtenir immédiatement une intervention médicale si une irritation se développe et persiste.
Inhalation: Remove from exposure. Administer oxygen or artificial respiration as needed. Obtain medical attention.	**Inhalation:** Sortir du lieu d'exposition. Administrer oxygène ou respiration artificielle selon le besoin. Obtenir une intervention médicale.
Ingestion: DO NOT INDUCE VOMITING. Give 1-2 glasses of water to dilute. Consult a physician immediately.	**Ingestion:** NE PAS PROVOQUER LE VOMISSEMENT. Faire avaler 1-2 verres d'eau pour diluer le produit. Consulter immédiatement un médecin.

SECTION 6:

REACTIVITY DATA	DONNÉES SUR LA RÉACTIVITÉ
Stability: This material is stable	**Stabilité :** Ce matériau est stable.
Materials to avoid: Strong oxidizing agents.	**Matériaux à éviter :** Agents fortement oxydants.
Hazardous Polymerization: Will not occur.	**Polymérisation dangereuse :** Ne se produira pas.
Decomposition Products: By high heat and fire: CO2, CO and other toxic vapors and mist.	**Produits de décomposition :** En cas de forte chaleur ou de feu : CO2, CO et autres vapeurs et brouillards toxiques.

ACCIDENTAL RELEASE MEASURES	MESURES EN CAS DE DÉVERSEMENT ACCIDENTEL

Precautions for handling and storage: Keep from fire, sparks and open flame. Do not smoke. Keep container tightly closed. Wash thoroughly after handling.
Other precautions: Remove sources of ignition. Provide explosion proof ventilation and/or respiratory protection. Use non-sparking tools.

Steps to take in case of spills: Pick up large spills with non-sparking tools; small spills with absorbent material. Wash down area with liquid decontaminant and flush spill area with water.

Waste Disposal Method: If discarded this material and containers should be treated as a hazardous waste, based on the Ignitability characteristics as defined under Federal RCRA Regulations (40 CFR 261). Dispose of in accordance with local, state, and federal regulations. DO NOT INCINERATE IN CLOSED CONTAINERS.

For further information, contact the United States Environmental Protection Agency RCRA hotline (800) 242-9342.

Précautions de manutention et entreposage : Garder à l'écart de feu, étincelles et flamme nue. Ne pas fumer. Garder le conteneur bien fermé. Se laver soigneusement après manutention.
Autres précautions : Écarter les sources d'inflammation. Fournir une ventilation anti-déflagration et/ou une protection respiratoire. Utiliser des outils non générateurs d'étincelles.
Actions à mener en cas de déversement : Récupérer les gros déversements avec des outils non générateurs d'étincelles, et les plus réduits avec de la matière absorbante. Laver la zone du déversement avec un décontaminant liquide, et bien la rincer à l'eau.
Méthode de mise au rebut des déchets : En cas de mise au rebut, matière et conteneurs doivent être traités comme des déchets dangereux, sur la base des caractéristiques d'inflammabilité définies par les exigences fédérales RCRA (40 CFR 261). Jeter en conformité avec les réglementations locales, provinciales et nationales. NE PAS INCINÉRER DE PRODUIT DANS DES CONTENEURS FERMÉS.
Pour plus d'informations, contacter l'agence américaine de protection de l'environnement sur la ligne d'urgence RCRA au (800) 242-9342

SECTION 8:

SPECIAL PROTECTION/SAFE HANDLING INFORMATION	INFORMATIONS SUR PROTECTION SPÉCIALE/MANUTENTION SÛRE

Special Sensitivity: Avoid exposing the container to high heat. This can cause sealed containers to pressurize and possibly rupture.

Handling and Storage: Keep away from heat, sparks and open flame. Ground the container during storage and transfer operations. When storing, tightly close containers to prevent moisture contamination. Do not reseal if contamination is suspected. Do not breathe vapors. Employee education and training in safe handling of this product are required under OSHA Hazard Communication Standard.

Respiratory Protection: Use air-purifying respirator that the respirator supplier has demonstrated to be effective for solvent vapors. Where overspray is present, or if the concentration of solvents is not known or exceeds the level at which the air purifying respirator is effective, a positive pressure air-supplied respirator (TC19C NIOSH) is recommended.
Ventilation: Design and maintain to provide volume and pattern to prevent vapor concentration in excess of TLV or PEL

Protective Gloves: Wear gloves which are recommended by glove supplier for protection against Materials in Section 2.

Eye Protection: Wear safety glasses with unperforated side shields.

Sensibilité spéciale : Éviter l'exposition du conteneur à une forte chaleur. Cela peut amener à une montée en pression des conteneurs hermétiques avec possible rupture.
Manutention et entreposage : À garder à l'écart de chaleur, étincelles et flamme nue. Mettre le conteneur à la terre durant l'entreposage et les opérations de transfert. Durant le stockage bien fermer les conteneurs pour éviter une contamination par l'humidité. Ne pas refermer si de la contamination est suspectée. Ne pas respirer les vapeurs. Une formation des employés et un apprentissage pour une manipulation de ce produit sont exigés par la norme 0SHA de communication.
Protection respiratoire : Utiliser un appareil de protection respiratoire à adduction d'air filtré dont le fabricant a démontré l'efficacité pour protéger des vapeurs de solvants. S'il y a de la surpulvérisation ou si la concentration en solvants est inconnue ou dépasse le niveau pour lequel le respirateur reste efficace, il est recommandé d'utiliser un appareil respiratoire à apport d'air en pression positive (TC19C NIOSH)
Ventilation : Concevoir et entretenir afin de fournir volume et configuration empêchant que la concentration de vapeur dépasse les seuils de VLE ou PEL.
Gants de protection : Porter des gants de type recommandé par leur fournisseur pour se protéger des matières de la section 2.
Protection des yeux : Porter des lunettes de sécurité avec des protections latérales non perforées.

SECTION 9: **XIM 400W White #1102** **XIM 400W Blanc #1102**

TOXICOLOGY INFORMATION INFORMAION TOXICOLOGIQUE	**CAS NO.**	**LD50 RAT (oral)**	**LC50 RAT (inhalation)**
Benzene	71-43-2	930 mg/kg	Not Available (**Non disponible)**
Ethyl Benzene	100-41-4	3500 mg/kg	Not Available
Toluene	108-88-3	636 mg kg^{-1}	49 gm/m^3 (4hours)
Xylene	1330-20-7	4300 mg/kg	26800 ppm/m^3/8hr
VM&P Naphtha	64742-89-8	5000 mg/kg	Not Available
Magnesium Silicate Hydrate	14807-96-6	Not Available	Not Available

Health Concerns:
(Dangers pour la santé)

Ethylbenzene is classified by IARC as possibly carcinogenic to humans (2B) based on inadequate evidence in humans and sufficient evidence in laboratory animals. Lifetime inhalation exposure of rats and mice to high ethylbenzene concentrations resulted in increases in certain types of cancer, including kidney tumors in rats, and lung and liver tumors in mice. These effects were not observed in animals exposed to lower concentrations. There is no evidence that ethylbenzene causes cancer in humans.
L'éthyle benzène est classé par l'IARC comme cancérigène possible pour les humains (2B), sur la base d'une évidence insuffisante pour les humains mais d'une évidence suffisante sur des animaux en laboratoire. Une exposition par inhalation à de fortes concentrations d'éthyle benzène durant toute la vie de rats et souris a entraînér l'augmentation de certains types de cancers, incluant des tumeurs rénales chez les rats, et des tumeurs du foie et des poumons chez les souris. Ces effets n'étaient pas observés sur des animaux exposés à de plus faibles concentrations. Il n'y a pas d'évidence que l'éthyle benzène cause le cancer chez l'homme.

California Proposition 65 (Proposition 65 de Californie)
Warning: This product contains chemicals known to the state of California to cause cancer and birth defects, or other reproductive harm.
Avertissement : Ce produit contient des produits chimiques reconnus par l'état de Californie pour causer des cancers ou anomalies congénitales, ou d'autres atteintes à la reproduction.

This product contains pigments that may be classified as nuisance particles which may present hazardous levels only during sanding or abrading. Inhaling of dust may aggravate existing respiratory disorders (i.e. asthma, emphysema, bronchitis…). Inhalation of inorganic dusts has been linked to the development of Fibrotic and Benign Pneumoconiosis
Ce produit contient des pigments pouvant être classés comme poussières nuisibles, qui peuvent présenter des niveaux dangereux uniquement lors de ponçage ou abrasion. L'inhalation de ces poussières peut aggraver des troubles respiratoires existants (comme asthme, emphysème, bronchite). L'inhalation de poussières minérales a été corrélée au développement de pneumoconiose fibreuse ou bénigne.
(www.bibalex.org/supercourse/supercoursePPT/32011-33001/32551.ppt)

This product does not contain asbestos
Ce produit ne contient pas d'amiante

IARC: Ethylbenzene: Group 2B (Groupe 2B) **NTP: Benzene: Listed** (Cotée)
Benzene: Group 1 (Groupe 1)

SECTION 10:

TRANSPORTATION INFORMATION	**INFORMATIONS SUR LE TRANSPORT**
DOT INFORMATION: Paint Consumer commodity, ORM-D **All raw materials in this product are listed on the Canadian DSL.**	**INFORMATIONS DOT:** Peinture Bien de consommation, AARD **Toutes les matières premières contenues dans ce produit font Partie de la liste Canadienne DSL sur les substances Domestiques.**

NOTE: **Read MSDS completely before use and follow all label instructions.**

REMARQUE: **Lire complètement la MSDS avant utilisation et suivre les instructions de l'étiquette**

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Material Safety Data Sheet (MSDS)
Fiche technique de sécurité

XIM 400W White Aerosol # 1102

XIM 400W Blanc Aérosol # 1102

Complies with OSHA's Hazard Communications Standard 29CFR 1910.1200

Quick Identifier, Common Name: (Used on Label and Data Sheet)
Identifiant rapide, appellation commune : (utilisée sur étiquette et fiche technique)

SECTION 1:

SUPPLIER INFORMATION:	INFORMATIONS DE FOURNISSEUR:
Manufacturer's Name: XIM Products, Inc.	**Nom du fabricant:** XIM Products, Inc.
Address: 1169 Bassett Road, Westlake, Ohio 44145	**Adresse:** 1169 Bassett Road, Westlake, Ohio 44145 USA
Emergency Calls: (800) 424-9300	**Appels d'urgence: (**800) 424-9300
Information Calls: (440) 871-4737	**Demandes d'informations:** (440) 871-4737
PRODUCT IDENTIFICATION	**IDENTIFICATION DU PRODUIT**
XIM 400W White Aerosol # 1102	**XIM 400W Blanc Aérosol # 1102**
Date Prepared: 02/09/09	**Date de préparation**: 02/09/09
Prepared By: J.E .Jarufe	**Préparé par:** J.E .Jarufe
Updated: 02/09/09	**Mise à jour:** 02/09/09
Product Class: Modified Alkyd	**Classe de produit:** Modified Alkyd

HMIS Codes

Health	2*
Flammability	4
Reactivity	0

HMIS Codes

Santé	2*
Inflammabilité	4
Réactivité	0

SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS

WT%	CAS NO.	INGREDIENT	UNITS
< 0.0035	71-43-2	†Benzene	
		ACGIH TLV	0.50 ppm
		OSHA TLV	1.00 ppm
< 0.70	100-41-4	†Ethyl Benzene	
		ACGIH TLV	100 ppm
		OSHA TLV	100 ppm
< 3.00	108-65-6	Propylene Glycol Monomethyl Ether Acetate	
		ACGIH TLV	Not Established
		OSHA PEL	Not Established
< 0.002	108-88-3	†Toluene	
		ACGIH TLV	20 ppm
		OSHA TLV	200 ppm
< 15.00	64742-89-8	VM&P Naphtha	
		ACGIH TLV	300 ppm
		OSHA PEL	400 ppm
< 6.85	1330-20-7	Xylene	
		ACGIH TLV	150 ppm
		OSHA TLV	100 ppm
< 11.00	67-64-1	Acetone	
		ACGIH TLV	750 ppm
		OSHA PEL	750 ppm
< 6.00	106-97-8	N-Butane	
		ACGIH TLV	800 ppm
		OSHA PEL	800 ppm
< 17.00	74-98-6	Propane	
		ACGIH TLV	1000 ppm
		OSHA PEL	Not Available
< 5.00	14807-96-6	Magnesium Silicate Hydrate	
		ACGIH TLV	2 mg/m^3 (respirable)
		OSHA TLV	2 mg/m^3 (Mineral Dust)

† **These chemicals are not added by XIM to its products. These chemicals are naturally occurring chemicals in the solvents, pigments and/or additives used by XIM and the paint industry.**
Ces produits chimiques ne sont pas ajoutés par XIM dans ses produits. Ils apparaissent naturellement comme dans solvants, pigments et/ou additifs utilisés par XIM et l'industrie de la peinture.

SECTION 3:

PHYSICAL AND CHEMICAL PROPERTIES	PROPRIÉTÉS PHYSIQUES ET CHIMIQUES
Physical Form: Aerosol	**Forme physique**: Aérosol
Appearance and Odor: White color liquid , solvent odor	**Apparence et odeur:** Liquide blanc, odeur de solvant
Boiling Range: 1 – 279 ° F	**Limites d'ébullition:** -17.2 - 137.2 ° C
Vapor Pressure: 5585.20 mm HG @ 20 °C	**Pression de vapeur:** 5585.20 mm HG @ 20 °C
Vapor Density: N/A	**Densité de vapeur:** N/A
Evaporation Rate: 7.700 (n-butyl Acetate = 1)	**Taux d'évaporation :** 7.700 (n-butyl Acetate = 1)
Weight per Gallon: 7.35 lb/gal	**Poids par gallon:** 7.35 lb/gal 0.88 kg / l
Solubility in Water: Negligible	**Solubilité dans l'eau:** Négligeable
VOC (By Weight): < 60 %	**VOC (By Weight):** < 60 %
MRI : < 1.20	**MRI:** < 1.20

FIRE AND EXPLOSION DATA	DONNÉES SUR INCENDIE ET EXPLOSION
Flash Point: < -25° F TCC (ASTM D-56)	**Point d'éclair :** < -31.7° C TCC (ASTM D-56)
Flammability Limits: LEL - 1.0 % UEL – 7.0 %	**Limites d'inflammabilité :** LEL - 1.0 % UEL – 7.0 %
Extinguishing Media: Dry Chemical, Carbon dioxide, Foam	**Matériaux d'extinction :** Poudre chimique, dioxyde de carbone, mousse
Flammability Class: DOT: Aerosol Flammable	**Classe d'inflammabilité : DOT**: Aérosol inflammable
OSHA: Class 2.1	**OSHA:** Class 2.1
Special Fire Fighting Procedures: Wear protective equipment including NIOSH approved self-contained breathing apparatus. Isolate from heat, sparks, electrical equipment and open flame.	**Procédures spéciales de lutte contre le feu :** Porter un équipement de protection incluant un appareil respiratoire autonome approuvé NIOSH. Garder à l'écart de chaleur, étincelles, équipement électrique et flamme nue.
Unusual Fire and Explosion Hazards: During a fire, vapors may form an explosive mixture in air. Closed containers may explode when exposed to extreme heat. Solvent vapors may be heavier than air. Vapors may build up and travel along the ground to an ignition source which may result in a flash back to the source of the vapors. Cool fire exposed containers with water. Heavy build up on filters, rags, etc. Can trap solvents and result in spontaneous combustion.	**Dangers inhabituels d'incendie et explosion :** Durant un incendie, des vapeurs peuvent former un mélange explosif dans l'air. Des conteneurs fermés peuvent exploser s'ils sont exposés à une chaleur intense. Les vapeurs de solvants peuvent être plus lourdes que l'air. Elles peuvent s'accumuler et suivre le sol jusqu'à une source d'inflammation avec un retour jusqu'à leur source. Refroidir les conteneurs exposés avec de l'eau. Des dépôts épais sur filtres, chiffons, etc., peuvent capter des solvants et entraîner une combustion spontanée.

SECTION 5:

HEALTH HAZARD DATA	DONNÉES SUR LES RISQUES POUR LA SANTÉ
Routes of Entry: Inhalation, Skin Contact, Eye Contact from Liquid and vapors, Ingestion.	**Voies d'entrée :** Inhalation, contact avec la peau, contact avec les yeux de liquide et vapeurs, ingestion
Effects of Overexposure:	**Effets d'une surexposition :**
Inhalation – ACUTE: Irritation of the nose, throat and eyes: Asthma-like breathing may be a delayed reaction. Other possible symptoms of overexposure may include headache, nausea, narcosis, fatigue and loss of appetite.	**Inhalation – AIGUË :** Irritation de nez, gorge et yeux : Une respiration de type asthmatique peut être une réaction avec retard. D'autres symptômes possibles peuvent inclure mal de tête, nausée, narcose, fatigue et perte d'appétit.
Inhalation – CHRONIC: Chronic exposure to solvents has been associated with various neurotoxic effects including permanent brain and nervous system damage. Symptoms include loss of memory, loss of intellectual ability and loss of coordination.	**Inhalation – CHRONIQUE :** Une exposition chronique aux solvants a été associée avec divers effets neurotoxiques dont des dommages permanents au cerveau et au système nerveux. Les symptômes incluent perte de mémoire, perte de capacité intellectuelle et perte de coordination.
Eye Contact: Liquid and vapors are irritating to the eyes and can cause pain, tearing, reddening and swelling. If left untreated, corneal damage can occur and injury is slow to heal. However, damage is usually reversible.	**Contact avec les yeux :** Liquides et vapeurs dont des irritants pour les yeux et peuvent causer douleur, larmoiement, rougissement et gonflement. À défaut de soins, des dommages à la cornée peuvent arriver, et la blessure est longue à cicatriser. Cependant les dommages sont généralement réversibles.
Skin Contact: Repeated or prolonged skin contact can result in dry, defatted and cracked skin causing increased susceptibility to infection.	**Contact avec la peau :** Un contact cutané répété ou prolongé peut amener assèchement, dégraissage et craquèlement de la peau, entraînant une sensibilité accrue aux infections.
Ingestion: Ingestion can result in irritation in the mouth, stomach tissue and digestive tract. Symptoms can include sore throat, abdominal pain, nausea, vomiting and diarrhea. Vomiting may cause aspiration resulting in chemical pneumonitis.	**Ingestion :** Une ingestion peut amener une irritation de bouche, tissu stomacal et voies digestives. Les symptômes peuvent inclure irritation de gorge, douleur abdominale, nausée, vomissement et diarrhée. Le vomissement peut entraîner une aspiration causant une pneumonite chimique.
MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE: Asthma, other respiratory disorders (bronchitis, etc.), skin allergies, eczema.	**ÉTATS MÉDICAUX AGGRAVÉS PAR UNE EXPOSITION :** Asthme, autres désordres respiratoires (bronchite, etc.), allergies cutanées, eczéma
EMERGENCY AND FIRST AID PROCEDURES:	**PROCÉDURES D'URGENCE ET DE PREMIERS SOINS :**
Eyes: Flush eyes with clean water for at least 15 minutes. Obtain medical attention.	**Yeux :** Rincer les yeux à l'eau propre pendant au moins 15 minutes. Obtenir une intervention médicale
Skin: Remove contaminated clothing immediately. Wash affected areas thoroughly with soap and water. Obtain medical attention if irritation develops or persists.	**Peau :** Ôter immédiatement les vêtements contaminés. Laver les zones affectées soigneusement à l'eau et au savon. Obtenir immédiatement une intervention médicale si une irritation se développe et persiste.
Inhalation: Remove from exposure. Administer oxygen or artificial respiration as needed. Obtain medical attention.	**Inhalation:** Sortir du lieu d'exposition. Administrer oxygène ou respiration artificielle selon le besoin. Obtenir une intervention médicale.
Ingestion: DO NOT INDUCE VOMITING. Give 1-2 glasses of water to dilute. Consult a physician immediately.	**Ingestion:** NE PAS PROVOQUER LE VOMISSEMENT. Faire avaler 1-2 verres d'eau pour diluer le produit. Consulter immédiatement un médecin.

REACTIVITY DATA	DONNÉES SUR LA RÉACTIVITÉ
Stability: This material is stable **Materials to avoid:** Strong oxidizing agents. **Hazardous Polymerization:** Will not occur. **Decomposition Products:** By high heat and fire: CO2, CO and other toxic vapors and mist.	**Stabilité :** Ce matériau est stable. **Matériaux à éviter :** Agents fortement oxydants. **Polymérisation dangereuse :** Ne se produira pas. **Produits de décomposition :** En cas de forte chaleur ou de feu : CO2, CO et autres vapeurs et brouillards toxiques.

SECTION 7:

ACCIDENTAL RELEASE MEASURES	MESURES EN CAS DE DÉVERSEMENT ACCIDENTEL
Precautions for handling and storage: Keep from fire, sparks and open flame. Do not smoke. Keep container tightly closed. Wash thoroughly after handling. **Other precautions:** Remove sources of ignition. Provide explosion proof ventilation and/or respiratory protection. Use non-sparking tools. **Steps to take in case of spills:** Pick up large spills with non-sparking tools; small spills with absorbent material. Wash down area with liquid decontaminant and flush spill area with water. **Waste Disposal Method:** If discarded this material and containers should be treated as a hazardous waste, based on the Ignitability characteristics as defined under Federal RCRA Regulations (40 CFR 261). Dispose of in accordance with local, state, and federal regulations. DO NOT INCINERATE IN CLOSED CONTAINERS. **For further information**, contact the United States Environmental Protection Agency RCRA hotline (800) 242-9342.	**Précautions de manutention et entreposage :** Garder à l'écart de feu, étincelles et flamme nue. Ne pas fumer. Garder le conteneur bien fermé. Se laver soigneusement après manutention. **Autres précautions :** Écarter les sources d'inflammation. Fournir une ventilation anti-déflagration et/ou une protection respiratoire. Utiliser des outils non générateurs d'étincelles. **Actions à mener en cas de déversement :** Récupérer les gros déversements avec des outils non générateurs d'étincelles, et les plus réduits avec de la matière absorbante. Laver la zone du déversement avec un décontaminant liquide, et bien la rincer à l'eau. **Méthode de mise au rebut des déchets :** En cas de mise au rebut, matière et conteneurs doivent être traités comme des déchets dangereux, sur la base des caractéristiques d'inflammabilité définies par les exigences fédérales RCRA (40 CFR 261). Jeter en conformité avec les réglementations locales, provinciales et nationales. NE PAS INCINÉRER DE PRODUIT DANS DES CONTENEURS FERMÉS. **Pour plus d'informations**, contacter l'agence américaine de protection de l'environnement sur la ligne d'urgence RCRA au (800) 242-9342

SECTION 8:

SPECIAL PROTECTION/SAFE HANDLING INFORMATION	INFORMATIONS SUR PROTECTION SPÉCIALE/MANUTENTION SÛRE
Special Sensitivity: Avoid exposing the container to high heat. This can cause sealed containers to pressurize and possibly rupture. **Handling and Storage:** Keep away from heat, sparks and open flame. Ground the container during storage and transfer operations. When storing, tightly close containers to prevent moisture contamination. Do not reseal if contamination is suspected. Do not breathe vapors. Employee education and training in safe handling of this product are required under OSHA Hazard Communication Standard. **Respiratory Protection:** Use air-purifying respirator that the respirator supplier has demonstrated to be effective for solvent vapors. Where overspray is present, or if the concentration of solvents is not known or exceeds the level at which the air purifying respirator is effective, a positive pressure air-supplied respirator (TC19C NIOSH) is recommended. **Ventilation:** Design and maintain to provide volume and pattern to prevent vapor concentration in excess of TLV or PEL **Protective Gloves:** Wear gloves which are recommended by glove supplier for protection against Materials in Section 2. **Eye Protection:** Wear safety glasses with unperforated side shields.	**Sensibilité spéciale :** Éviter l'exposition du conteneur à une forte chaleur. Cela peut amener à une montée en pression des conteneurs hermétiques avec possible rupture. **Manutention et entreposage :** À garder à l'écart de chaleur, étincelles et flamme nue. Mettre le conteneur à la terre durant l'entreposage et les opérations de transfert. Durant le stockage bien fermer les conteneurs pour éviter une contamination par l'humidité. Ne pas refermer si de la contamination est suspectée. Ne pas respirer les vapeurs. Une formation des employés et un apprentissage pour une manipulation de ce produit sont exigés par la norme 0SHA de communication. **Protection respiratoire :** Utiliser un appareil de protection respiratoire à adduction d'air filtré dont le fabricant a démontré l'efficacité pour protéger des vapeurs de solvants. S'il y a de la surpulvérisation ou si la concentration en solvants est inconnue ou dépasse le niveau pour lequel le respirateur reste efficace, il est recommandé d'utiliser un appareil respiratoire à apport d'air en pression positive (TC19C NIOSH) **Ventilation :** Concevoir et entretenir afin de fournir volume et configuration empêchant que la concentration de vapeur dépasse les seuils de VLE ou PEL. **Gants de protection :** Porter des gants de type recommandé par leur fournisseur pour se protéger des matières de la section 2. **Protection des yeux :** Porter des lunettes de sécurité avec des protections latérales non perforées.

TOXICOLOGY INFORMATION **INFORMAION TOXICOLOGIQUE**	**CAS NO.**	**LD50 RAT (oral)**	**LC50 RAT (inhalation)**
Benzene	71-43-2	930 mg/kg	Not Available (**Non disponible)**
Ethyl Benzene	100-41-4	3500 mg/kg	Not Available
Propylene Glycol Monomethyl Ether Acetate	108-65-6	10,000 mg/kg	4345 ppm (6 hours)
Toluene	108-88-3	636 mg kg^{-1}	49 gm/m^3 (4hours)
VM&P Naphtha	64742-89-8	5000 mg/kg	Not Available
Xylene	1330-20-7	4300 mg/kg	26800 ppm/m^3/8hr
Acetone	67-64-1	5800 mg/kg	50100 mg/m^3/8hr
N-Butane	160-97-8	Not Available	658000 mg/m^3
Propane	74-98-6	Not Available	Not Available
Magnesium Silicate Hydrate	14807-96-6	Not Available	Not Available

Health Concerns:
(Dangers pour la santé)

Ethylbenzene is classified by IARC as possibly carcinogenic to humans (2B) based on inadequate evidence in humans and sufficient evidence in laboratory animals. Lifetime inhalation exposure of rats and mice to high ethylbenzene concentrations resulted in increases in certain types of cancer, including kidney tumors in rats, and lung and liver tumors in mice. These effects were not observed in animals exposed to lower concentrations. There is no evidence that ethylbenzene causes cancer in humans.
L'éthyle benzène est classé par l'IARC comme cancérigène possible pour les humains (2B), sur la base d'une évidence insuffisante pour les humains mais d'une évidence suffisante sur des animaux en laboratoire. Une exposition par inhalation à de fortes concentrations d'éthyle benzène durant toute la vie de rats et souris a entraînér l'augmentation de certains types de cancers, incluant des tumeurs rénales chez les rats, et des tumeurs du foie et des poumons chez les souris. Ces effets n'étaient pas observés sur des animaux exposés à de plus faibles concentrations. Il n'y a pas d'évidence que l'éthyle benzène cause le cancer chez l'homme.

This product contains pigments that may be classified as nuisance particles which may present hazardous levels only during sanding or abrading. Inhaling of dust may aggravate existing respiratory disorders (i.e. asthma, emphysema, bronchitis…). Inhalation of inorganic dusts has been linked to the development of Fibrotic and Benign Pneumoconiosis
Ce produit contient des pigments pouvant être classés comme poussières nuisibles, qui peuvent présenter des niveaux dangereux uniquement lors de ponçage ou abrasion. L'inhalation de ces poussières peut aggraver des troubles respiratoires existants (comme asthme, emphysème, bronchite). L'inhalation de poussières minérales a été corrélée au développement de pneumoconiose fibreuse ou bénigne.
(www.bibalex.org/supercourse/supercoursePPT/32011-33001/32551.ppt)

This product does not contain asbestos (Ce produit ne contient pas d'amiante.)

California Proposition 65 (Proposition 65 de Californie)
Warning: This product contains chemicals known to the state of California to cause cancer and birth defects, or other reproductive harm.
Avertissement : Ce produit contient des produits chimiques reconnus par l'état de Californie pour causer des cancers ou anomalies congénitales, ou d'autres atteintes à la reproduction.

IARC: Ethylbenzene: Group 2B (Groupe 2B) **NTP: Benzene: Listed** (Cotée)
Benzene: Group 1 (Groupe 1)

SECTION 10:

TRANSPORTATION INFORMATION	**INFORMATIONS SUR LE TRANSPORT**
DOT INFORMATION: Aerosol Consumer Commodity, ORM-D, UN1950 **All raw materials in this product are listed on the Canadian DSL.**	**INFORMATIONS DOT:** Aérosol Bien de consommation, AARD, UN1950 **Toutes les matières premières contenues dans ce produit font Partie de la liste Canadienne DSL sur les substances Domestiques.**

NOTE: **Read MSDS completely before use and follow all label instructions.**

REMARQUE **: Lire complètement la MSDS avant utilisation et suivre les instructions de l'étiquette**

The information contained in this MSDS is based on the present state of knowledge and is based on sources believed to be reliable. However, since the data safety standards and government regulations are subject to change and the conditions of handling and use or misuse are beyond our control, XIM Products makes no warranty, either express or implied, with respect to the information contained herein and disclaims all liability for reliance thereon.
Les informations contenues dans cette MSDS sont basées sur l'état actuel des connaissances, et sur des sources d'information réputées fiables. Cependant, comme les normes sur les données de sécurité et les réglementations gouvernementales sont sujettes à changements, et comme les conditions de manutention et d'utilisation ou de mésusage sont hors de notre contrôle, XIM Products ne donne aucune garantie, explicite ou implicite, à propos des informations contenues ici, et rejette toutes responsabilité quant à leur exactitude.

MATERIAL SAFETY DATA SHEET

P831274
04 00

DATE OF PREPARATION
Feb 28, 2009

SECTION 1 — PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NUMBER
P831274
PRODUCT NAME
CRYSTAL™ Clear and Natural Finish, Gloss Finish
MANUFACTURER'S NAME
FABULON PRODUCTS
101 Prospect Avenue N.W.
Cleveland, OH 44115

Telephone Numbers and Websites

Regulatory Information	(216) 566-2902 www.paintdocs.com
Medical Emergency	(216) 566-2917
Transportation Emergency*	(800) 424-9300
**for Chemical Emergency ONLY (spill, leak, fire, exposure, or accident)*	

SECTION 2 — COMPOSITION/INFORMATION ON INGREDIENTS

% by Weight	CAS Number	Ingredient	Units	Vapor Pressure
1	95-63-6	**1,2,4-Trimethylbenzene**		
		ACGIH TLV	25 PPM	2.03 mm
		OSHA PEL	25 PPM	
4	107-98-2	**1-Methoxy-2-propanol**		
		ACGIH TLV	100 PPM	10.9 mm
		ACGIH TLV	150 PPM STEL	
		OSHA PEL	100 PPM	
		OSHA PEL	150 PPM STEL	
2	34590-94-8	**2-Methoxymethylethoxypropanol**		
		ACGIH TLV	100 PPM (Skin)	0.4 mm
		ACGIH TLV	150 PPM (Skin) STEL	
		OSHA PEL	100 PPM (Skin)	
		OSHA PEL	150 PPM (Skin) STEL	
1	872-50-4	**1-Methyl-2-Pyrrolidone**		
		ACGIH TLV	Not Available	1 mm
		OSHA PEL	Not Available	

SECTION 3 — HAZARDS IDENTIFICATION

HMIS Codes

Health	2
Flammability	0
Reactivity	0

ROUTES OF EXPOSURE
INHALATION of vapor or spray mist.
EYE or SKIN contact with the product, vapor or spray mist.
EFFECTS OF OVEREXPOSURE
EYES: Irritation.
SKIN: Prolonged or repeated exposure may cause irritation.
INHALATION: Irritation of the upper respiratory system.

In a confined area vapors in high concentration may cause headache, nausea or dizziness.
Prolonged overexposure to solvent ingredients in Section 2 may cause adverse effects to the liver, urinary and reproductive systems.
SIGNS AND SYMPTOMS OF OVEREXPOSURE
Redness and itching or burning sensation may indicate eye or excessive skin exposure.
MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE
None generally recognized.
CANCER INFORMATION
For complete discussion of toxicology data refer to Section 11.

SECTION 4 — FIRST AID MEASURES

EYES: Flush eyes with large amounts of water for 15 minutes. Get medical attention.
SKIN: Wash affected area thoroughly with soap and water.
Remove contaminated clothing and launder before re-use.
INHALATION: If affected, remove from exposure. Restore breathing. Keep warm and quiet.
INGESTION: Do not induce vomiting. Get medical attention immediately.

SECTION 5 — FIRE FIGHTING MEASURES

FLASH POINT	LEL	UEL	FLAMMABILITY CLASSIFICATION
Not Applicable	N.A.	N.A.	Not Applicable

EXTINGUISHING MEDIA

Carbon Dioxide, Dry Chemical, Alcohol Foam

UNUSUAL FIRE AND EXPLOSION HAZARDS

Closed containers may explode (due to the build-up of pressure) when exposed to extreme heat.
During emergency conditions overexposure to decomposition products may cause a health hazard. Symptoms may not be immediately apparent. Obtain medical attention.

SPECIAL FIRE FIGHTING PROCEDURES

Full protective equipment including self-contained breathing apparatus should be used.
Water spray may be ineffective. If water is used, fog nozzles are preferable. Water may be used to cool closed containers to prevent pressure build-up and possible autoignition or explosion when exposed to extreme heat.

SECTION 6 — ACCIDENTAL RELEASE MEASURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED

- Remove all sources of ignition. Ventilate the area.
- Remove with inert absorbent.

SECTION 7 — HANDLING AND STORAGE

STORAGE CATEGORY

Not Applicable

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE

Keep container closed when not in use. Transfer only to approved containers with complete and appropriate labeling. Do not take internally. Keep out of the reach of children.

SECTION 8 — EXPOSURE CONTROLS/PERSONAL PROTECTION

PRECAUTIONS TO BE TAKEN IN USE

Use only with adequate ventilation.
Avoid contact with skin and eyes. Avoid breathing vapor and spray mist.
Wash hands after using.
This coating may contain materials classified as nuisance particulates (listed "as Dust" in Section 2) which may be present at hazardous levels only during sanding or abrading of the dried film. If no specific dusts are listed in Section 2, the applicable limits for nuisance dusts are ACGIH TLV 10 mg/m3 (total dust), 3 mg/m3 (respirable fraction), OSHA PEL 15 mg/m3 (total dust), 5 mg/m3 (respirable fraction).

VENTILATION

Local exhaust preferable. General exhaust acceptable if the exposure to materials in Section 2 is maintained below applicable exposure limits. Refer to OSHA Standards 1910.94, 1910.107, 1910.108.

RESPIRATORY PROTECTION

If personal exposure cannot be controlled below applicable limits by ventilation, wear a properly fitted organic vapor/particulate respirator approved by NIOSH/MSHA for protection against materials in Section 2.
When sanding or abrading the dried film, wear a dust/mist respirator approved by NIOSH/MSHA for dust which may be generated from this product, underlying paint, or the abrasive.

PROTECTIVE GLOVES

Wear gloves which are recommended by glove supplier for protection against materials in Section 2.

EYE PROTECTION

Wear safety spectacles with unperforated sideshields.

SECTION 9 — PHYSICAL AND CHEMICAL PROPERTIES

PRODUCT WEIGHT	8.52 lb/gal	1021 g/l
SPECIFIC GRAVITY	1.03	
BOILING POINT	212 - 396° F	100 - 202° C
MELTING POINT	Not Available	
VOLATILE VOLUME	73%	
EVAPORATION RATE	Slower than ether	
VAPOR DENSITY	Heavier than air	
SOLUBILITY IN WATER	N.A.	
pH	8.5	

VOLATILE ORGANIC COMPOUNDS (VOC Theoretical - As Packaged)

2.64lb/gal	316g/l	Less Water and Federally Exempt Solvents
1.06lb/gal	127g/l	Emitted VOC

SECTION 10 — STABILITY AND REACTIVITY

STABILITY — Stable

CONDITIONS TO AVOID

None known.

INCOMPATIBILITY

None known.

HAZARDOUS DECOMPOSITION PRODUCTS

By fire: Carbon Dioxide, Carbon Monoxide

HAZARDOUS POLYMERIZATION

Will not occur

SECTION 11 — TOXICOLOGICAL INFORMATION

CHRONIC HEALTH HAZARDS

No ingredient in this product is an IARC, NTP or OSHA listed carcinogen.

TOXICOLOGY DATA

CAS No.	Ingredient Name			
95-63-6	**1,2,4-Trimethylbenzene**			
		LC50 RAT	4HR	Not Available
		LD50 RAT		Not Available
107-98-2	**1-Methoxy-2-propanol**			
		LC50 RAT	4HR	Not Available
		LD50 RAT		6600. mg/kg
34590-94-8	**2-Methoxymethylethoxypropanol**			
		LC50 RAT	4HR	Not Available
		LD50 RAT		5135 mg/kg
872-50-4	**1-Methyl-2-Pyrrolidone**			
		LC50 RAT	4HR	Not Available
		LD50 RAT		4200 mg/kg

SECTION 12 — ECOLOGICAL INFORMATION

ECOTOXICOLOGICAL INFORMATION

No data available.

SECTION 13 — DISPOSAL CONSIDERATIONS

WASTE DISPOSAL METHOD

Waste from this product is not hazardous as defined under the Resource Conservation and Recovery Act (RCRA) 40 CFR 261.
Incinerate in approved facility. Do not incinerate closed container. Dispose of in accordance with Federal, State/Provincial, and Local regulations regarding pollution.

SECTION 14 — TRANSPORT INFORMATION

US Ground (DOT)

Not Regulated for Transportation.

Canada (TDG)

Not Regulated for Transportation.

IMO

Not Regulated for Transportation.

SECTION 15 — REGULATORY INFORMATION

SARA 313 *(40 CFR 372.65C)* SUPPLIER NOTIFICATION

CAS No.	CHEMICAL/COMPOUND	% by WT	% Element
95-63-6	1,2,4-Trimethylbenzene	1	
872-50-4	1-Methyl-2-Pyrrolidone	1	

CALIFORNIA PROPOSITION 65

WARNING: This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.

TSCA CERTIFICATION

All chemicals in this product are listed, or are exempt from listing, on the TSCA Inventory.

SECTION 16 — OTHER INFORMATION

This product has been classified in accordance with the hazard criteria of the Canadian Controlled Products Regulations (CPR) and the MSDS contains all of the information required by the CPR.

The above information pertains to this product as currently formulated, and is based on the information available at this time. Addition of reducers or other additives to this product may substantially alter the composition and hazards of the product. Since conditions of use are outside our control, we make no warranties, express or implied, and assume no liability in connection with any use of this information.

Material Safety Data Sheet

24 Hour Assistance:
1-847-367-7700
Rust-Oleum Corp.
www.rustoleum.com

Section 1 - Chemical Product / Company Information

Product Name:	Rust-Oleum High Performance Industrial Enamel Aerosol Topcoats (Hard Hat)	Revision Date:	04/05/2006
Identification Number:	V2123838, V2134838, V2147838, V2155838, V2156838, V2167838, V2170838, V2171838, V2174838, V2175838, V2178838, V2179838, V2183838, V2184838, V2188838, V2124838, V2125838, V2133838, V2137838, V2138838, V2143838, V2148838, V2163838, V2164838, V2177838, V2187838, V2190838, V2192838, V2196838, 209567		
Product Use/Class:	Topcoats/Aerosol		
Supplier:	Rust-Oleum Corporation 11 Hawthorn Parkway Vernon Hills, IL 60061 USA	Manufacturer:	Rust-Oleum Corporation 11 Hawthorn Parkway Vernon Hills, IL 60061 USA
Preparer:	Regulatory Department		

Section 2 - Composition / Information On Ingredients

Chemical Name	CAS Number	Weight % Less Than	ACGIH TLV-TWA	ACGIH TLV-STEL	OSHA PEL-TWA	OSHA PEL-CEILING
Acetone	67-64-1	30.0	500 PPM	750 PPM	750 PPM	N.E.
Liquefied Petroleum Gas	68476-86-8	30.0	1000 PPM	N.E.	1000 PPM	N.E.
Titanium Dioxide	13463-67-7	15.0	10 mg/m3	N.E.	10 mg/m3	N.E.
Magnesium Silicate	14807-96-6	15.0	10 mg/m3	N.E.	15 mg/m3	N.E.
N-Butyl Acetate	123-86-4	10.0	150 PPM	200 PPM	150 PPM	N.E.
Xylene	1330-20-7	10.0	100 PPM	150 PPM	100 PPM	N.E.
Methyl Ethyl Ketone	78-93-3	10.0	200 PPM	300 PPM	200 PPM	N.E.
Stoddard Solvents	8052-41-3	5.0	100 PPM	N.E.	500 PPM	N.E.
Ethylene Glycol Monobutyl Ether	111-76-2	5.0	20 PPM	N.E.	50 PPM	N.E.
Toluene	108-88-3	5.0	50 PPM	150 PPM	200 PPM	300 PPM
Ethylbenzene	100-41-4	5.0	100 PPM	125 PPM	100 PPM	N.E.
Aromatic Hydrocarbon	64742-95-6	5.0	N.E.	N.E.	N.E.	N.E.
1,2,4-Trimethylbenzene	95-63-6	5.0	25 PPM	N.E.	N.E.	N.E.
Pigment Black 7	1333-86-4	5.0	3.5 mg/m3	N.E.	3.5 mg/m3	N.E.
Pigment Yellow 17	4531-49-1	5.0	2 mg/m3	N.E.	5 mg/m3	N.E.
Pigment Violet 32	12225-08-0	1.0	N.E.	N.E.	N.E.	N.E.
Pigment Red 122	980-26-7	1.0	15mg/m3	N.E.	5mg/m3	N.E.

Section 3 - Hazards Identification

*** Emergency Overview ***: Harmful if inhaled. May affect the brain or nervous system causing dizziness, headache or nausea. Vapors may cause flash fire or explosion. Extremely flammable liquid and vapor. Contents Under Pressure. Harmful if swallowed.

Effects Of Overexposure - Eye Contact: Causes eye irritation.

Effects Of Overexposure - Skin Contact: May be harmful if absorbed through skin. Prolonged or repeated contact may cause skin irritation. Substance may cause slight skin irritation.

Effects Of Overexposure - Inhalation: High vapor concentrations are irritating to the eyes, nose, throat and lungs. Avoid breathing vapors or mists. High gas, vapor, mist or dust concentrations may be harmful if inhaled. Harmful if inhaled.

Effects Of Overexposure - Ingestion: Aspiration hazard if swallowed; can enter lungs and cause damage. Substance may be harmful if swallowed.

Effects Of Overexposure - Chronic Hazards: IARC lists Ethylbenzene as a possible human carcinogen (group 2B). May cause central nervous system disorder (e,g.,narcosis involving a loss of coordination, weakness, fatigue, mental confusion, and blurred vision) and/or damage. Reports have associated repeated and prolonged occupational overexposure to solvents with permanent brain and nervous system damage. Overexposure to xylene in laboratory animals has been associated with liver abnormalities, kidney, lung, spleen, eye and blood damage as well as reproductive disorders. Effects in humans, due to chronic overexposure, have included liver, cardiac abnormalities and nervous system damage. Overexposure to toluene in laboratory animals has been associated with liver abnormalities, kidney, lung and spleen damage. Effects in humans have included liver and cardiac abnormalities. Overexposure to methyl ethyl ketone in laboratory animals has been associated with liver abnormalities, kidney and lung damage. Fetotoxic/embryotoxic effects from inhalation have been seen in rats exposed to >1000ppm during gestation.
Contains carbon black. Chronic inflammation, lung fibrosis, and lung tumors have been observed in some rats experimentally exposed for long periods of time to excessive concentrations of carbon black and several insoluble fine dust particles. Tumors have not been observed in other animal species (i.e., mouse and hampster) under similar circumstances and study conditions. Epidemiological studies of North American workers show no evidence of clinically significant adverse health effects due to occupational exposure to carbon black.
Carbon black is listed as a Group 2B-"Possibly carcinogenic to humans" by IARC and is proposed to be listed as A4- "not classified as a human carcinogen" by the American Conference of Govermental Industrial Hygienists. Significant exposure is not anticipated during brush application or drying. Risk of overexposure depends on duration and level of exposure to dust from repeated sanding of surfaces or spray mist and the actual concentration of carbon black in the formula.

Primary Route(s) Of Entry: Skin Contact, Skin Absorption, Inhalation, Eye Contact

Section 4 - First Aid Measures

First Aid - Eye Contact: Hold eyelids apart and flush with plenty of water for at least 15 minutes. Get medical attention.

First Aid - Skin Contact: Wash with soap and water. Get medical attention if irritation develops or persists.

First Aid - Inhalation: If you experience difficulty in breathing, leave the area to obtain fresh air. If continued difficulty is experienced, get medical assistance immediately.

First Aid - Ingestion: Aspiration hazard: Do not induce vomiting or give anything by mouth because this material can enter the lungs and cause severe lung damage. Get immediate medical attention.

Section 5 - Fire Fighting Measures

Flash Point: -156 F
(Setaflash)

LOWER EXPLOSIVE LIMIT: 0.7 %
UPPER EXPLOSIVE LIMIT : 32.5 %

Extinguishing Media: Dry Chemical, Foam, Water Fog

Unusual Fire And Explosion Hazards: FLASH POINT IS LESS THAN 20 °. F. - EXTREMELY FLAMMABLE LIQUID

AND VAPOR! Water spray may be ineffective. Closed containers may explode when exposed to extreme heat. Vapors may form explosive mixtures with air. Vapors can travel to a source of ignition and flash back. Keep containers tightly closed. Isolate from heat, electrical equipment, sparks and open flame. Perforation of the pressurized container may cause bursting of the can.

Special Firefighting Procedures: Evacuate area and fight fire from a safe distance.

Section 6 - Accidental Release Measures

Steps To Be Taken If Material Is Released Or Spilled: Contain spilled liquid with sand or earth. DO NOT use combustible materials such as sawdust. Remove all sources of ignition, ventilate area and remove with inert absorbent and non-sparking tools. Dispose of according to local, state (provincial) and federal regulations. Do not incinerate closed containers.

Section 7 - Handling And Storage

Handling: Use only in a well-ventilated area. Avoid breathing vapor or mist. Follow all MSDS/label precautions even after container is emptied because it may retain product residues. Wash thoroughly after handling. Wash hands before eating.

Storage: Contents under pressure. Do not expose to heat or store above 120 ° F. Do not store above 120 ° F. Store large quantities in buildings designed and protected for storage of NFPA Class I flammable liquids. Keep containers tightly closed. Isolate from heat, electrical equipment, sparks and open flame.

Section 8 - Exposure Controls / Personal Protection

Engineering Controls: Use process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below recommended exposure limits. Prevent build-up of vapors by opening all doors and windows to achieve cross-ventilation. Use explosion-proof ventilation equipment.

Respiratory Protection: A respiratory protection program that meets OSHA 1910.134 and ANSI Z88.2 requirements must be followed whenever workplace conditions warrant a respirator's use. A NIOSH/MSHA approved air purifying respirator with an organic vapor cartridge or canister may be permissible under certain circumstances where airborne concentrations are expected to exceed exposure limits.

Protection provided by air purifying respirators is limited. Use a positive pressure air supplied respirator if there is any potential for an uncontrolled release, exposure levels are not known, or any other circumstances where air purifying respirators may not provide adequate protection.

Skin Protection: Nitrile or Neoprene gloves may afford adequate skin protection. Use impervious gloves to prevent skin contact and absorption of this material through the skin.

Eye Protection: Use safety eyewear designed to protect against splash of liquids.

Other protective equipment: Refer to safety supervisor or industrial hygienist for further information regarding personal protective equipment and its application.

Hygienic Practices: Wash thoroughly with soap and water before eating, drinking or smoking.

Section 9 - Physical And Chemical Properties

Boiling Range:	-34 - 900 F	Vapor Density:	Heavier than Air

Odor:	Solvent-like	Odor Threshold:	ND
Appearance:	Liquid	Evaporation Rate:	Faster than Ether
Solubility in H2O:	Slight		
Freeze Point:	ND	Specific Gravity:	0.8660
Vapor Pressure:	ND	PH:	ND
Physical State:	Liquid		

(See section 16 for abbreviation legend)

Section 10 - Stability And Reactivity

Conditions To Avoid: Avoid temperatures above 120 ° F. Avoid all possible sources of ignition.

Incompatibility: Incompatible with strong oxidizing agents, strong acids and strong alkalies.

Hazardous Decomposition: By open flame, carbon monoxide and carbon dioxide. When heated to decomposition, it emits acrid smoke and irritating fumes.

Hazardous Polymerization: Will not occur under normal conditions.

Stability: This product is stable under normal storage conditions.

Section 11 - Toxicological Information

Product LD50: ND

Product LC50: ND

Chemical Name	LD50	LC50
Acetone	N.D.	N.D.
Liquefied Petroleum Gas	N.D.	N.D.
Titanium Dioxide	>7500 mg/kg (ORAL, RAT)	N.D.
Magnesium Silicate	N.D.	TCLo:11mg/m3 inh.
N-Butyl Acetate	13100 mg/kg (ORAL, RAT)	2000 PPM (INH 4 Hr, RAT)
Xylene	N.D.	N.D.
Methyl Ethyl Ketone	N.D.	N.D.
Stoddard Solvents	N.D.	N.D.
Ethylene Glycol Monobutyl Ether	1519 mg/kg (ORAL, MOUSE)	700 PPM (INH 7 Hr, RAT)
Toluene	N.D.	N.D.
Ethylbenzene	3500 mg/kg (ORAL, RAT)	N.D.
Aromatic Hydrocarbon	N.D.	N.D.
1,2,4-Trimethylbenzene	N.D.	18000 mg/m3 (RAT, 4 HR)
Pigment Black 7	>8000 mg/kg (ORAL, RAT)	N.D.
Pigment Yellow 17	N.D.	N.D.
Pigment Violet 32	>10000 mg/kg (ORAL, RAT)	N.D.
Pigment Red 122	N.D.	N.D.

Section 12 - Ecological Information

Ecological Information: Product is a mixture of listed components.

Section 13 - Disposal Information

Disposal Information: Dispose of material in accordance to local, state and federal regulations and ordinances. Do

not allow to enter storm drains or sewer systems.

Section 14 - Transportation Information

DOT Proper Shipping Name:	Aerosol	Packing Group:	---
DOT Technical Name:	---	Hazard Subclass:	---
DOT Hazard Class:	2.1	Resp. Guide Page:	126
DOT UN/NA Number:	UN1950		

Section 15 - Regulatory Information

CERCLA - SARA Hazard Category

This product has been reviewed according to the EPA "Hazard Categories" promulgated under Sections 311and 312 of the Superfund Amendment and Reauthorization Act of 1986 (SARA Title III) and is considered, under applicable definitions, to meet the following categories:

IMMEDIATE HEALTH HAZARD, CHRONIC HEALTH HAZARD, FIRE HAZARD

SARA Section 313:

Listed below are the substances (if any) contained in this product that are subject to the reporting requirements of Section 313 of Title III of the Superfund Amendment and Reauthorization Act of 1986 and 40 CFR part 372:

Chemical Name	CAS Number
Xylene	1330-20-7
Methyl Ethyl Ketone	78-93-3
Ethylene Glycol Monobutyl Ether	111-76-2
Toluene	108-88-3
Ethylbenzene	100-41-4
1,2,4-Trimethylbenzene	95-63-6

Toxic Substances Control Act:

Listed below are the substances (if any) contained in this product that are subject to the reporting requirements of TSCA 12(B) if exported from the United States:

None known

U.S. State Regulations: As follows -

New Jersey Right-to-Know:

The following materials are non-hazardous, but are among the top five components in this product.

Chemical Name	CAS Number
Alkyd Resin	MIXTURE

Pennsylvania Right-to-Know:

The following non-hazardous ingredients are present in the product at greater than 3%.

Chemical Name	CAS Number
Alkyd Resin	MIXTURE
Barium Sulfate	7727-43-7
Calcium Carbonate	1317-65-3
Yellow Iron Oxide	51274-00-1

California Proposition 65:

WARNING! This product contains a chemical(s) known by the State of California to cause cancer.

WARNING! This product contains a chemical(s) known to the state of California to cause birth defects or other reproductive harm.

International Regulations: As follows -

CANADIAN WHMIS:

This MSDS has been prepared in compliance with Controlled Product Regulations except for the use of the 16 headings.

CANADIAN WHMIS CLASS: AB5, D2A, D2B

Section 16 - Other Information

HMIS Ratings:

Health: 2 Flammability: 4 Reactivity: 0 Personal Protection: X

VOLATILE ORGANIC COMPOUNDS, g/l:

REASON FOR REVISION:

Legend: N.A. - Not Applicable, N.E. - Not Established, N.D. - Not Determined

The information contained on this MSDS has been checked and should be accurate. However, it is the responsibility of the user to comply with all Federal, State, and Local laws and regulations.

Material Safety Data Sheet

24 Hour Assistance:
1-847-367-7700
Rust-Oleum Corp.
www.rustoleum.com

Section 1 - Chemical Product / Company Information

Product Name:	Rust-Oleum High Performance Industrial Enamel Aerosol Topcoats (Hard Hat)	Revision Date:	04/05/2006
Identification Number:	V2123838, V2134838, V2147838, V2155838, V2156838, V2167838, V2170838, V2171838, V2174838, V2175838, V2178838, V2179838, V2183838, V2184838, V2188838, V2124838, V2125838, V2133838, V2137838, V2138838, V2143838, V2148838, V2163838, V2164838, V2177838, V2187838, V2190838, V2192838, V2196838, 209567		
Product Use/Class:	Topcoats/Aerosol		
Supplier:	Rust-Oleum Corporation 11 Hawthorn Parkway Vernon Hills, IL 60061 USA	Manufacturer:	Rust-Oleum Corporation 11 Hawthorn Parkway Vernon Hills, IL 60061 USA
Preparer:	Regulatory Department		

Section 2 - Composition / Information On Ingredients

Chemical Name	CAS Number	Weight % Less Than	ACGIH TLV-TWA	ACGIH TLV-STEL	OSHA PEL-TWA	OSHA PEL-CEILING
Acetone	67-64-1	30.0	500 PPM	750 PPM	750 PPM	N.E.
Liquefied Petroleum Gas	68476-86-8	30.0	1000 PPM	N.E.	1000 PPM	N.E.
Titanium Dioxide	13463-67-7	15.0	10 mg/m3	N.E.	10 mg/m3	N.E.
Magnesium Silicate	14807-96-6	15.0	10 mg/m3	N.E.	15 mg/m3	N.E.
N-Butyl Acetate	123-86-4	10.0	150 PPM	200 PPM	150 PPM	N.E.
Xylene	1330-20-7	10.0	100 PPM	150 PPM	100 PPM	N.E.
Methyl Ethyl Ketone	78-93-3	10.0	200 PPM	300 PPM	200 PPM	N.E.
Stoddard Solvents	8052-41-3	5.0	100 PPM	N.E.	500 PPM	N.E.
Ethylene Glycol Monobutyl Ether	111-76-2	5.0	20 PPM	N.E.	50 PPM	N.E.
Toluene	108-88-3	5.0	50 PPM	150 PPM	200 PPM	300 PPM
Ethylbenzene	100-41-4	5.0	100 PPM	125 PPM	100 PPM	N.E.
Aromatic Hydrocarbon	64742-95-6	5.0	N.E.	N.E.	N.E.	N.E.
1,2,4-Trimethylbenzene	95-63-6	5.0	25 PPM	N.E.	N.E.	N.E.
Pigment Black 7	1333-86-4	5.0	3.5 mg/m3	N.E.	3.5 mg/m3	N.E.
Pigment Yellow 17	4531-49-1	5.0	2 mg/m3	N.E.	5 mg/m3	N.E.
Pigment Violet 32	12225-08-0	1.0	N.E.	N.E.	N.E.	N.E.
Pigment Red 122	980-26-7	1.0	15mg/m3	N.E.	5mg/m3	N.E.

Section 3 - Hazards Identification

*** Emergency Overview ***: Harmful if inhaled. May affect the brain or nervous system causing dizziness, headache or nausea. Vapors may cause flash fire or explosion. Extremely flammable liquid and vapor. Contents Under Pressure. Harmful if swallowed.

Effects Of Overexposure - Eye Contact: Causes eye irritation.

Effects Of Overexposure - Skin Contact: May be harmful if absorbed through skin. Prolonged or repeated contact may cause skin irritation. Substance may cause slight skin irritation.

Effects Of Overexposure - Inhalation: High vapor concentrations are irritating to the eyes, nose, throat and lungs. Avoid breathing vapors or mists. High gas, vapor, mist or dust concentrations may be harmful if inhaled. Harmful if inhaled.

Effects Of Overexposure - Ingestion: Aspiration hazard if swallowed; can enter lungs and cause damage. Substance may be harmful if swallowed.

Effects Of Overexposure - Chronic Hazards: IARC lists Ethylbenzene as a possible human carcinogen (group 2B). May cause central nervous system disorder (e,g.,narcosis involving a loss of coordination, weakness, fatigue, mental confusion, and blurred vision) and/or damage. Reports have associated repeated and prolonged occupational overexposure to solvents with permanent brain and nervous system damage. Overexposure to xylene in laboratory animals has been associated with liver abnormalities, kidney, lung, spleen, eye and blood damage as well as reproductive disorders. Effects in humans, due to chronic overexposure, have included liver, cardiac abnormalities and nervous system damage. Overexposure to toluene in laboratory animals has been associated with liver abnormalities, kidney, lung and spleen damage. Effects in humans have included liver and cardiac abnormalities. Overexposure to methyl ethyl ketone in laboratory animals has been associated with liver abnormalities, kidney and lung damage. Fetotoxic/embryotoxic effects from inhalation have been seen in rats exposed to >1000ppm during gestation.
Contains carbon black. Chronic inflammation, lung fibrosis, and lung tumors have been observed in some rats experimentally exposed for long periods of time to excessive concentrations of carbon black and several insoluble fine dust particles. Tumors have not been observed in other animal species (i.e., mouse and hampster) under similar circumstances and study conditions. Epidemiological studies of North American workers show no evidence of clinically significant adverse health effects due to occupational exposure to carbon black.
Carbon black is listed as a Group 2B-"Possibly carcinogenic to humans" by IARC and is proposed to be listed as A4- "not classified as a human carcinogen" by the American Conference of Govermental Industrial Hygienists. Significant exposure is not anticipated during brush application or drying. Risk of overexposure depends on duration and level of exposure to dust from repeated sanding of surfaces or spray mist and the actual concentration of carbon black in the formula.

Primary Route(s) Of Entry: Skin Contact, Skin Absorption, Inhalation, Eye Contact

Section 4 - First Aid Measures

First Aid - Eye Contact: Hold eyelids apart and flush with plenty of water for at least 15 minutes. Get medical attention.

First Aid - Skin Contact: Wash with soap and water. Get medical attention if irritation develops or persists.

First Aid - Inhalation: If you experience difficulty in breathing, leave the area to obtain fresh air. If continued difficulty is experienced, get medical assistance immediately.

First Aid - Ingestion: Aspiration hazard: Do not induce vomiting or give anything by mouth because this material can enter the lungs and cause severe lung damage. Get immediate medical attention.

Section 5 - Fire Fighting Measures

Flash Point: -156 F
(Setaflash)

LOWER EXPLOSIVE LIMIT: 0.7 %
UPPER EXPLOSIVE LIMIT : 32.5 %

Extinguishing Media: Dry Chemical, Foam, Water Fog

Unusual Fire And Explosion Hazards: FLASH POINT IS LESS THAN 20 °. F. - EXTREMELY FLAMMABLE LIQUID

AND VAPOR! Water spray may be ineffective. Closed containers may explode when exposed to extreme heat. Vapors may form explosive mixtures with air. Vapors can travel to a source of ignition and flash back. Keep containers tightly closed. Isolate from heat, electrical equipment, sparks and open flame. Perforation of the pressurized container may cause bursting of the can.

Special Firefighting Procedures: Evacuate area and fight fire from a safe distance.

Section 6 - Accidental Release Measures

Steps To Be Taken If Material Is Released Or Spilled: Contain spilled liquid with sand or earth. DO NOT use combustible materials such as sawdust. Remove all sources of ignition, ventilate area and remove with inert absorbent and non-sparking tools. Dispose of according to local, state (provincial) and federal regulations. Do not incinerate closed containers.

Section 7 - Handling And Storage

Handling: Use only in a well-ventilated area. Avoid breathing vapor or mist. Follow all MSDS/label precautions even after container is emptied because it may retain product residues. Wash thoroughly after handling. Wash hands before eating.

Storage: Contents under pressure. Do not expose to heat or store above 120 ° F. Do not store above 120 ° F. Store large quantities in buildings designed and protected for storage of NFPA Class I flammable liquids. Keep containers tightly closed. Isolate from heat, electrical equipment, sparks and open flame.

Section 8 - Exposure Controls / Personal Protection

Engineering Controls: Use process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below recommended exposure limits. Prevent build-up of vapors by opening all doors and windows to achieve cross-ventilation. Use explosion-proof ventilation equipment.

Respiratory Protection: A respiratory protection program that meets OSHA 1910.134 and ANSI Z88.2 requirements must be followed whenever workplace conditions warrant a respirator's use. A NIOSH/MSHA approved air purifying respirator with an organic vapor cartridge or canister may be permissible under certain circumstances where airborne concentrations are expected to exceed exposure limits.

Protection provided by air purifying respirators is limited. Use a positive pressure air supplied respirator if there is any potential for an uncontrolled release, exposure levels are not known, or any other circumstances where air purifying respirators may not provide adequate protection.

Skin Protection: Nitrile or Neoprene gloves may afford adequate skin protection. Use impervious gloves to prevent skin contact and absorption of this material through the skin.

Eye Protection: Use safety eyewear designed to protect against splash of liquids.

Other protective equipment: Refer to safety supervisor or industrial hygienist for further information regarding personal protective equipment and its application.

Hygienic Practices: Wash thoroughly with soap and water before eating, drinking or smoking.

Section 9 - Physical And Chemical Properties

Boiling Range:	-34 - 900 F	Vapor Density:	Heavier than Air

Odor:	Solvent-like	Odor Threshold:	ND
Appearance:	Liquid	Evaporation Rate:	Faster than Ether
Solubility in H2O:	Slight		
Freeze Point:	ND	Specific Gravity:	0.8660
Vapor Pressure:	ND	PH:	ND
Physical State:	Liquid		

(See section 16 for abbreviation legend)

Section 10 - Stability And Reactivity

Conditions To Avoid: Avoid temperatures above 120 ° F. Avoid all possible sources of ignition.

Incompatibility: Incompatible with strong oxidizing agents, strong acids and strong alkalies.

Hazardous Decomposition: By open flame, carbon monoxide and carbon dioxide. When heated to decomposition, it emits acrid smoke and irritating fumes.

Hazardous Polymerization: Will not occur under normal conditions.

Stability: This product is stable under normal storage conditions.

Section 11 - Toxicological Information

Product LD50: ND

Product LC50: ND

Chemical Name	LD50	LC50
Acetone	N.D.	N.D.
Liquefied Petroleum Gas	N.D.	N.D.
Titanium Dioxide	>7500 mg/kg (ORAL, RAT)	N.D.
Magnesium Silicate	N.D.	TCLo:11mg/m3 inh.
N-Butyl Acetate	13100 mg/kg (ORAL, RAT)	2000 PPM (INH 4 Hr, RAT)
Xylene	N.D.	N.D.
Methyl Ethyl Ketone	N.D.	N.D.
Stoddard Solvents	N.D.	N.D.
Ethylene Glycol Monobutyl Ether	1519 mg/kg (ORAL, MOUSE)	700 PPM (INH 7 Hr, RAT)
Toluene	N.D.	N.D.
Ethylbenzene	3500 mg/kg (ORAL, RAT)	N.D.
Aromatic Hydrocarbon	N.D.	N.D.
1,2,4-Trimethylbenzene	N.D.	18000 mg/m3 (RAT, 4 HR)
Pigment Black 7	>8000 mg/kg (ORAL, RAT)	N.D.
Pigment Yellow 17	N.D.	N.D.
Pigment Violet 32	>10000 mg/kg (ORAL, RAT)	N.D.
Pigment Red 122	N.D.	N.D.

Section 12 - Ecological Information

Ecological Information: Product is a mixture of listed components.

Section 13 - Disposal Information

Disposal Information: Dispose of material in accordance to local, state and federal regulations and ordinances. Do

not allow to enter storm drains or sewer systems.

Section 14 - Transportation Information

DOT Proper Shipping Name:	Aerosol	Packing Group:	---
DOT Technical Name:	---	Hazard Subclass:	---
DOT Hazard Class:	2.1	Resp. Guide Page:	126
DOT UN/NA Number:	UN1950		

Section 15 - Regulatory Information

CERCLA - SARA Hazard Category

This product has been reviewed according to the EPA "Hazard Categories" promulgated under Sections 311and 312 of the Superfund Amendment and Reauthorization Act of 1986 (SARA Title III) and is considered, under applicable definitions, to meet the following categories:

IMMEDIATE HEALTH HAZARD, CHRONIC HEALTH HAZARD, FIRE HAZARD

SARA Section 313:

Listed below are the substances (if any) contained in this product that are subject to the reporting requirements of Section 313 of Title III of the Superfund Amendment and Reauthorization Act of 1986 and 40 CFR part 372:

Chemical Name	CAS Number
Xylene	1330-20-7
Methyl Ethyl Ketone	78-93-3
Ethylene Glycol Monobutyl Ether	111-76-2
Toluene	108-88-3
Ethylbenzene	100-41-4
1,2,4-Trimethylbenzene	95-63-6

Toxic Substances Control Act:

Listed below are the substances (if any) contained in this product that are subject to the reporting requirements of TSCA 12(B) if exported from the United States:

None known

U.S. State Regulations: As follows -

New Jersey Right-to-Know:

The following materials are non-hazardous, but are among the top five components in this product.

Chemical Name	CAS Number
Alkyd Resin	MIXTURE

Pennsylvania Right-to-Know:

The following non-hazardous ingredients are present in the product at greater than 3%.

Chemical Name	CAS Number
Alkyd Resin	MIXTURE
Barium Sulfate	7727-43-7
Calcium Carbonate	1317-65-3
Yellow Iron Oxide	51274-00-1

California Proposition 65:

WARNING! This product contains a chemical(s) known by the State of California to cause cancer.

WARNING! This product contains a chemical(s) known to the state of California to cause birth defects or other reproductive harm.

International Regulations: As follows -

CANADIAN WHMIS:

This MSDS has been prepared in compliance with Controlled Product Regulations except for the use of the 16 headings.

CANADIAN WHMIS CLASS: AB5, D2A, D2B

Section 16 - Other Information

HMIS Ratings:

Health: 2 Flammability: 4 Reactivity: 0 Personal Protection: X

VOLATILE ORGANIC COMPOUNDS, g/l:

REASON FOR REVISION:

Legend: N.A. - Not Applicable, N.E. - Not Established, N.D. - Not Determined

The information contained on this MSDS has been checked and should be accurate. However, it is the responsibility of the user to comply with all Federal, State, and Local laws and regulations.

Material Safety Data Sheet

24 Hour Assistance:
1-847-367-7700
Rust-Oleum Corp.
www.rustoleum.com

Section 1 - Chemical Product / Company Information

Product Name:	Rust-Oleum Professional High Performance Enamel Aerosol	Revision Date:	06/02/2006
Identification Number:	7524838, 7527838, 7533838, 7538838, 7543838, 7548838, 7555838, 7564838, 7565838, 7570838, 7578838, 7579838, 7581838, 7587838, 7590838, 7592838, 239107, 239108, 239109, 239110, 239111, 239112		
Product Use/Class:	Topcoats/Aerosol		
Supplier:	Rust-Oleum Corporation 11 Hawthorn Parkway Vernon Hills, IL 60061 USA	Manufacturer:	Rust-Oleum Corporation 11 Hawthorn Parkway Vernon Hills, IL 60061 USA
Preparer:	Regulatory Department		

Section 2 - Composition / Information On Ingredients

Chemical Name	CAS Number	Weight % Less Than	ACGIH TLV-TWA	ACGIH TLV-STEL	OSHA PEL-TWA	OSHA PEL-CEILING
Magnesium Silicate	14807-96-6	40.0	10 mg/m3	N.E.	15 mg/m3	N.E.
Acetone	67-64-1	30.0	500 PPM	750 PPM	750 PPM	N.E.
Liquefied Petroleum Gas	68476-86-8	30.0	1000 PPM	N.E.	1000 PPM	N.E.
Xylene	1330-20-7	25.0	100 PPM	150 PPM	100 PPM	N.E.
Alkyd Resin	NOT AVAILABLE	25.0	N.E.	N.E.	N.E.	N.E.
Titanium Dioxide	13463-67-7	15.0	10 mg/m3	N.E.	10 mg/m3	N.E.
N-Butyl Acetate	123-86-4	10.0	150 PPM	200 PPM	150 PPM	N.E.
Methyl Ethyl Ketone	78-93-3	10.0	200 PPM	300 PPM	200 PPM	N.E.
Ethylbenzene	100-41-4	10.0	100 PPM	125 PPM	100 PPM	N.E.
Toluene	108-88-3	5.0	50 PPM	150 PPM	200 PPM	300 PPM
Ethylene Glycol Monobutyl Ether	111-76-2	5.0	20 PPM	N.E.	50 PPM	N.E.
Pigment Black 7	1333-86-4	5.0	3.5 mg/m3	N.E.	3.5 mg/m3	N.E.
Stoddard Solvents	8052-41-3	5.0	100 PPM	N.E.	500 PPM	N.E.
Aromatic Hydrocarbon	64742-95-6	5.0	N.E.	N.E.	N.E.	N.E.
1,2,4-Trimethylbenzene	95-63-6	5.0	25 PPM	N.E.	N.E.	N.E.
Chlorite	14998-27-7	5.0	N.E.	N.E.	N.E.	N.E.
Pigment Yellow 17	4531-49-1	5.0	2 mg/m3	N.E.	5 mg/m3	N.E.

Section 3 - Hazards Identification

*** Emergency Overview ***: Harmful if inhaled. May affect the brain or nervous system causing dizziness, headache or nausea. Vapors may cause flash fire or explosion. Extremely flammable liquid and vapor. Contents Under Pressure. Harmful if swallowed.

Effects Of Overexposure - Eye Contact: Causes eye irritation.

Effects Of Overexposure - Skin Contact: May be harmful if absorbed through skin. Prolonged or repeated contact may cause skin irritation. Substance may cause slight skin irritation.

Effects Of Overexposure - Inhalation: High vapor concentrations are irritating to the eyes, nose, throat and lungs. Avoid breathing vapors or mists. High gas, vapor, mist or dust concentrations may be harmful if inhaled. Harmful if inhaled.

Effects Of Overexposure - Ingestion: Aspiration hazard if swallowed; can enter lungs and cause damage. Substance may be harmful if swallowed.

Effects Of Overexposure - Chronic Hazards: IARC lists Ethylbenzene as a possible human carcinogen (group 2B). May cause central nervous system disorder (e,g.,narcosis involving a loss of coordination, weakness, fatigue, mental confusion, and blurred vision) and/or damage. Reports have associated repeated and prolonged occupational overexposure to solvents with permanent brain and nervous system damage. Overexposure to xylene in laboratory animals has been associated with liver abnormalities, kidney, lung, spleen, eye and blood damage as well as reproductive disorders. Effects in humans, due to chronic overexposure, have included liver, cardiac abnormalities and nervous system damage. Overexposure to toluene in laboratory animals has been associated with liver abnormalities, kidney, lung and spleen damage. Effects in humans have included liver and cardiac abnormalities. Overexposure to methyl ethyl ketone in laboratory animals has been associated with liver abnormalities, kidney and lung damage. Fetotoxic/embryotoxic effects from inhalation have been seen in rats exposed to >1000ppm during gestation.
Contains carbon black. Chronic inflammation, lung fibrosis, and lung tumors have been observed in some rats experimentally exposed for long periods of time to excessive concentrations of carbon black and several insoluble fine dust particles. Tumors have not been observed in other animal species (i.e., mouse and hampster) under similar circumstances and study conditions. Epidemiological studies of North American workers show no evidence of clinically significant adverse health effects due to occupational exposure to carbon black.
Carbon black is listed as a Group 2B-"Possibly carcinogenic to humans" by IARC and is proposed to be listed as A4- "not classified as a human carcinogen" by the American Conference of Govermental Industrial Hygienists. Significant exposure is not anticipated during brush application or drying. Risk of overexposure depends on duration and level of exposure to dust from repeated sanding of surfaces or spray mist and the actual concentration of carbon black in the formula.

Primary Route(s) Of Entry: Skin Contact, Skin Absorption, Inhalation, Eye Contact

Section 4 - First Aid Measures

First Aid - Eye Contact: Hold eyelids apart and flush with plenty of water for at least 15 minutes. Get medical attention.

First Aid - Skin Contact: Wash with soap and water. Get medical attention if irritation develops or persists.

First Aid - Inhalation: If you experience difficulty in breathing, leave the area to obtain fresh air. If continued difficulty is experienced, get medical assistance immediately.

First Aid - Ingestion: Aspiration hazard: Do not induce vomiting or give anything by mouth because this material can enter the lungs and cause severe lung damage. Get immediate medical attention.

Section 5 - Fire Fighting Measures

Flash Point: -156 F
(Setaflash)

LOWER EXPLOSIVE LIMIT: 0.7 %
UPPER EXPLOSIVE LIMIT : 32.5 %

Extinguishing Media: Dry Chemical, Foam, Water Fog

Unusual Fire And Explosion Hazards: FLASH POINT IS LESS THAN 20 °. F. - EXTREMELY FLAMMABLE LIQUID AND VAPOR! Water spray may be ineffective. Closed containers may explode when exposed to extreme heat. Vapors may form explosive mixtures with air. Vapors can travel to a source of ignition and flash back. Keep containers tightly closed. Isolate from heat, electrical equipment, sparks and open flame. Perforation of the

pressurized container may cause bursting of the can.

Special Firefighting Procedures: Evacuate area and fight fire from a safe distance.

Section 6 - Accidental Release Measures

Steps To Be Taken If Material Is Released Or Spilled: Contain spilled liquid with sand or earth. DO NOT use combustible materials such as sawdust. Remove all sources of ignition, ventilate area and remove with inert absorbent and non-sparking tools. Dispose of according to local, state (provincial) and federal regulations. Do not incinerate closed containers.

Section 7 - Handling And Storage

Handling: Use only in a well-ventilated area. Avoid breathing vapor or mist. Follow all MSDS/label precautions even after container is emptied because it may retain product residues. Wash thoroughly after handling. Wash hands before eating.

Storage: Contents under pressure. Do not expose to heat or store above 120 ° F. Do not store above 120 ° F. Store large quantities in buildings designed and protected for storage of NFPA Class I flammable liquids. Keep containers tightly closed. Isolate from heat, electrical equipment, sparks and open flame.

Section 8 - Exposure Controls / Personal Protection

Engineering Controls: Use process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below recommended exposure limits. Prevent build-up of vapors by opening all doors and windows to achieve cross-ventilation. Use explosion-proof ventilation equipment.

Respiratory Protection: A respiratory protection program that meets OSHA 1910.134 and ANSI Z88.2 requirements must be followed whenever workplace conditions warrant a respirator's use. A NIOSH/MSHA approved air purifying respirator with an organic vapor cartridge or canister may be permissible under certain circumstances where airborne concentrations are expected to exceed exposure limits.

Protection provided by air purifying respirators is limited. Use a positive pressure air supplied respirator if there is any potential for an uncontrolled release, exposure levels are not known, or any other circumstances where air purifying respirators may not provide adequate protection.

Skin Protection: Nitrile or Neoprene gloves may afford adequate skin protection. Use impervious gloves to prevent skin contact and absorption of this material through the skin.

Eye Protection: Use safety eyewear designed to protect against splash of liquids.

Other protective equipment: Refer to safety supervisor or industrial hygienist for further information regarding personal protective equipment and its application.

Hygienic Practices: Wash thoroughly with soap and water before eating, drinking or smoking.

Section 9 - Physical And Chemical Properties

Boiling Range:	-34 - 900 F	Vapor Density:	Heavier than air
Odor:	Solvent Like	Odor Threshold:	ND
Appearance:	Liquid	Evaporation Rate:	Faster than Ether
Solubility in H2O:	Slight		

Freeze Point:	ND	Specific Gravity:	
Vapor Pressure:		PH:	NE
Physical State:	Liquid		

(See section 16 for abbreviation legend)

Section 10 - Stability And Reactivity

Conditions To Avoid: Avoid temperatures above 120 ° F. Avoid all possible sources of ignition.

Incompatibility: Incompatible with strong oxidizing agents, strong acids and strong alkalies.

Hazardous Decomposition: By open flame, carbon monoxide and carbon dioxide. When heated to decomposition, it emits acrid smoke and irritating fumes.

Hazardous Polymerization: Will not occur under normal conditions.

Stability: This product is stable under normal storage conditions.

Section 11 - Toxicological Information

Product LD50: ND

Product LC50: ND

Chemical Name	LD50	LC50
Magnesium Silicate	N.D.	TCLo:11mg/m3 inh.
Acetone	N.D.	N.D.
Liquefied Petroleum Gas	N.D.	N.D.
Xylene	N.D.	N.D.
Alkyd Resin	N.D.	N.D.
Titanium Dioxide	>7500 mg/kg (ORAL, RAT)	N.D.
N-Butyl Acetate	13100 mg/kg (ORAL, RAT)	2000 PPM (INH 4 Hr, RAT)
Methyl Ethyl Ketone	N.D.	N.D.
Ethylbenzene	3500 mg/kg (ORAL, RAT)	N.D.
Toluene	N.D.	N.D.
Ethylene Glycol Monobutyl Ether	1519 mg/kg (ORAL, MOUSE)	700 PPM (INH 7 Hr, RAT)
Pigment Black 7	>8000 mg/kg (ORAL, RAT)	N.D.
Stoddard Solvents	N.D.	N.D.
Aromatic Hydrocarbon	N.D.	N.D.
1,2,4-Trimethylbenzene	N.D.	18000 mg/m3 (RAT, 4 HR)
Chlorite	N.D.	N.D.
Pigment Yellow 17	N.D.	N.D.

Section 12 - Ecological Information

Ecological Information: Product is a mixture of listed components.

Section 13 - Disposal Information

Disposal Information: Dispose of material in accordance to local, state and federal regulations and ordinances. Do not allow to enter storm drains or sewer systems.

Section 14 - Transportation Information

DOT Proper Shipping Name:	Aerosol	Packing Group:	---
DOT Technical Name:	---	Hazard Subclass:	---
DOT Hazard Class:	2.1	Resp. Guide Page:	126
DOT UN/NA Number:	UN1950		

Section 15 - Regulatory Information

CERCLA - SARA Hazard Category

This product has been reviewed according to the EPA "Hazard Categories" promulgated under Sections 311and 312 of the Superfund Amendment and Reauthorization Act of 1986 (SARA Title III) and is considered, under applicable definitions, to meet the following categories:

IMMEDIATE HEALTH HAZARD, CHRONIC HEALTH HAZARD, FIRE HAZARD

SARA Section 313:

Listed below are the substances (if any) contained in this product that are subject to the reporting requirements of Section 313 of Title III of the Superfund Amendment and Reauthorization Act of 1986 and 40 CFR part 372:

Chemical Name	CAS Number
Xylene	1330-20-7
Methyl Ethyl Ketone	78-93-3
Ethylbenzene	100-41-4
Toluene	108-88-3
Ethylene Glycol Monobutyl Ether	111-76-2
1,2,4-Trimethylbenzene	95-63-6

Toxic Substances Control Act:

Listed below are the substances (if any) contained in this product that are subject to the reporting requirements of TSCA 12(B) if exported from the United States:

None known

U.S. State Regulations: As follows -

New Jersey Right-to-Know:

The following materials are non-hazardous, but are among the top five components in this product.

none

Pennsylvania Right-to-Know:

The following non-hazardous ingredients are present in the product at greater than 3%.

Chemical Name	CAS Number
Alkyd Resin	MIXTURE

Calcium Carbonate	1317-65-3
Barium Sulfate	7727-43-7

California Proposition 65:

WARNING! This product contains a chemical(s) known by the State of California to cause cancer.

WARNING! This product contains a chemical(s) known to the state of California to cause birth defects or other reproductive harm.

International Regulations: As follows -

CANADIAN WHMIS:

This MSDS has been prepared in compliance with Controlled Product Regulations except for the use of the 16 headings.

CANADIAN WHMIS CLASS: AB5, D2A, D2B

Section 16 - Other Information

HMIS Ratings:

Health: 2* Flammability: 4 Reactivity: 0 Personal Protection: X

VOLATILE ORGANIC COMPOUNDS, g/l:

REASON FOR REVISION:

Legend: N.A. - Not Applicable, N.E. - Not Established, N.D. - Not Determined

The information contained on this MSDS has been checked and should be accurate. However, it is the responsibility of the user to comply with all Federal, State, and Local laws and regulations.

Material Safety Data Sheet

24 Hour Assistance:
1-847-367-7700
Rust-Oleum Corp.
www.rustoleum.com

Section 1 - Chemical Product / Company Information

Product Name:	Rust-Oleum Professional High Performance Enamel Aerosol	Revision Date:	02/23/2009
Identification Number:	7524838, 7527838, 7533838, 7538838, 7548838, 7555838, 7564838, 7565838, 7570838, 7578838, 7579838, 7581838, 7587838, 7592838, 239107, 239108, 239109, 239110, 239111, 239112		
Product Use/Class:	Topcoat/Aerosols		
Supplier:	Rust-Oleum Corporation 11 Hawthorn Parkway Vernon Hills, IL 60061 USA	Manufacturer:	Rust-Oleum Corporation 11 Hawthorn Parkway Vernon Hills, IL 60061 USA
Preparer:	Regulatory Department		

Section 2 - Composition / Information On Ingredients

Chemical Name	CAS Number	Weight % Less Than	ACGIH TLV-TWA	ACGIH TLV-STEL	OSHA PEL-TWA	OSHA PEL-CEILING
Magnesium Silicate	14807-96-6	40.0	10 mg/m3	N.E.	15 mg/m3	N.E.
Acetone	67-64-1	30.0	500 ppm	750 ppm	750 ppm	N.E.
Liquefied Petroleum Gas	68476-86-8	30.0	1000 ppm	N.E.	1000 ppm	N.E.
Xylene	1330-20-7	25.0	100 ppm	150 ppm	100 ppm	N.E.
Titanium Dioxide	13463-67-7	15.0	10 mg/m3	N.E.	10 mg/m3	N.E.
n-Butyl Acetate	123-86-4	10.0	150 ppm	200 ppm	150 ppm	N.E.
Methyl Ethyl Ketone	78-93-3	10.0	200 ppm	300 ppm	200 ppm	N.E.
Ethylbenzene	100-41-4	10.0	100 ppm	125 ppm	100 ppm	N.E.
Toluene	108-88-3	5.0	20 ppm	150 ppm	200 ppm	300 ppm
Ethylene Glycol Monobutyl Ether	111-76-2	5.0	20 ppm	N.E.	50 ppm	N.E.
Pigment Black 7	1333-86-4	5.0	3.5 mg/m3	N.E.	3.5 mg/m3	N.E.
Stoddard Solvents	8052-41-3	5.0	100 ppm	N.E.	500 ppm	N.E.
Aromatic Hydrocarbon	64742-95-6	5.0	N.E.	N.E.	N.E.	N.E.
1,2,4-Trimethylbenzene	95-63-6	5.0	25 ppm	N.E.	N.E.	N.E.
Chlorite	14998-27-7	5.0	N.E.	N.E.	N.E.	N.E.
Pigment Yellow 17	4531-49-1	5.0	2 mg/m3	N.E.	5 mg/m3	N.E.
Quartz (Crystalline Silica)	14808-60-7	1.0	0.025 mg/m3	N.E.	0.10 mg/m3	N.E.

Section 3 - Hazards Identification

*** Emergency Overview ***: Contains Aromatic Distillate, which may cause cancer. Contents Under Pressure. Harmful if inhaled. May affect the brain or nervous system causing dizziness, headache or nausea. Harmful if swallowed. Extremely flammable liquid and vapor. Vapors may cause flash fire or explosion.

Effects Of Overexposure - Eye Contact: Causes eye irritation.

Effects Of Overexposure - Skin Contact: May be harmful if absorbed through skin. Prolonged or repeated contact may cause skin irritation. Substance may cause slight skin irritation.

Effects Of Overexposure - Inhalation: High vapor concentrations are irritating to the eyes, nose, throat and lungs.

Harmful if inhaled. High gas, vapor, mist or dust concentrations may be harmful if inhaled. Avoid breathing vapors or mists.

Effects Of Overexposure - Ingestion: Aspiration hazard if swallowed; can enter lungs and cause damage. Substance may be harmful if swallowed.

Effects Of Overexposure - Chronic Hazards: IARC lists Ethylbenzene as a possible human carcinogen (group 2B). Contains Titanium Dioxide. Titanium Dioxide is listed as a Group 2B-"Possibly carcinogenic to humans" by IARC. Significant exposure is not anticipated during brush application or drying. Risk of overexposure depends on duration and level of exposure to dust from repeated sanding of surfaces or spray mist and the actual concentration of Titanium Dioxide in the formula.

May cause central nervous system disorder (e.g., narcosis involving a loss of coordination, weakness, fatigue, mental confusion, and blurred vision) and/or damage. Reports have associated repeated and prolonged occupational overexposure to solvents with permanent brain and nervous system damage. Overexposure to xylene in laboratory animals has been associated with liver abnormalities, kidney, lung, spleen, eye and blood damage as well as reproductive disorders. Effects in humans, due to chronic overexposure, have included liver, cardiac abnormalities and nervous system damage. Overexposure to toluene in laboratory animals has been associated with liver abnormalities, kidney, lung and spleen damage. Effects in humans have included liver and cardiac abnormalities. Overexposure to methyl ethyl ketone in laboratory animals has been associated with liver abnormalities, kidney and lung damage. Fetotoxic/embryotoxic effects from inhalation have been seen in rats exposed to >1000ppm during gestation.

Contains carbon black. Chronic inflammation, lung fibrosis, and lung tumors have been observed in some rats experimentally exposed for long periods of time to excessive concentrations of carbon black and several insoluble fine dust particles. Tumors have not been observed in other animal species (i.e., mouse and hamster) under similar circumstances and study conditions. Epidemiological studies of North American workers show no evidence of clinically significant adverse health effects due to occupational exposure to carbon black.

Carbon black is listed as a Group 2B-"Possibly carcinogenic to humans" by IARC and is proposed to be listed as A4- "not classified as a human carcinogen" by the American Conference of Governmental Industrial Hygienists. Significant exposure is not anticipated during brush application or drying. Risk of overexposure depends on duration and level of exposure to dust from repeated sanding of surfaces or spray mist and the actual concentration of carbon black in the formula. Contains crystalline silica as silicon dioxide. Excessive inhalation of respirable crystalline silica dust may cause lung disease, silicosis or lung cancer. Significant exposure is not anticipated during brush or trowel application or drying. Risk of overexposure depends on the duration and level of exposure to dust from repeated sanding of surfaces, mechanical abrasion or spray mist and actual concentration of crystalline silica in the formula. Crystalline silica is listed as Group 1 "carcinogenic to humans" by the International Agency for Research on Cancer (IARC,) and Group 2, "reasonably anticipated to be a carcinogen" by the National Toxicology Program (NTP)

Primary Route(s) Of Entry: Skin Contact, Skin Absorption, Inhalation, Eye Contact

Section 4 - First Aid Measures

First Aid - Eye Contact: Immediately flush eyes with plenty of water for at least 15 minutes holding eyelids open. Get medical attention.

First Aid - Skin Contact: Wash with soap and water. Get medical attention if irritation develops or persists.

First Aid - Inhalation: If you experience difficulty in breathing, leave the area to obtain fresh air. If continued difficulty is experienced, get medical assistance immediately.

First Aid - Ingestion: Aspiration hazard: Do not induce vomiting or give anything by mouth because this material can enter the lungs and cause severe lung damage. Get immediate medical attention.

Section 5 - Fire Fighting Measures

Flash Point: -156 F
(Setaflash)

LOWER EXPLOSIVE LIMIT: 0.7 %
UPPER EXPLOSIVE LIMIT : 32.5 %

Extinguishing Media: Dry Chemical, Foam, Water Fog

Unusual Fire And Explosion Hazards: Water spray may be ineffective. FLASH POINT IS LESS THAN 20 °. F. - EXTREMELY FLAMMABLE LIQUID AND VAPOR! Closed containers may explode when exposed to extreme heat. Vapors may form explosive mixtures with air. Vapors can travel to a source of ignition and flash back. Keep containers tightly closed. Isolate from heat, electrical equipment, sparks and open flame. Perforation of the pressurized container may cause bursting of the can.

Special Firefighting Procedures: Evacuate area and fight fire from a safe distance.

Section 6 - Accidental Release Measures

Steps To Be Taken If Material Is Released Or Spilled: Contain spilled liquid with sand or earth. DO NOT use combustible materials such as sawdust. Remove all sources of ignition, ventilate area and remove with inert absorbent and non-sparking tools. Dispose of according to local, state (provincial) and federal regulations. Do not incinerate closed containers.

Section 7 - Handling And Storage

Handling: Follow all MSDS/label precautions even after container is emptied because it may retain product residues. Avoid breathing vapor or mist. Wash thoroughly after handling. Use only in a well-ventilated area. Wash hands before eating.

Storage: Keep containers tightly closed. Isolate from heat, electrical equipment, sparks and open flame. Do not store above 120 ° F. Store large quantities in buildings designed and protected for storage of NFPA Class I flammable liquids. Contents under pressure. Do not expose to heat or store above 120 ° F.

Section 8 - Exposure Controls / Personal Protection

Engineering Controls: Prevent build-up of vapors by opening all doors and windows to achieve cross-ventilation. Use process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below recommended exposure limits. Use explosion-proof ventilation equipment.

Respiratory Protection: A respiratory protection program that meets OSHA 1910.134 and ANSI Z88.2 requirements must be followed whenever workplace conditions warrant a respirator's use. A NIOSH/MSHA approved air purifying respirator with an organic vapor cartridge or canister may be permissible under certain circumstances where airborne concentrations are expected to exceed exposure limits.

Protection provided by air purifying respirators is limited. Use a positive pressure air supplied respirator if there is any potential for an uncontrolled release, exposure levels are not known, or in any other circumstances where air purifying respirators may not provide adequate protection.

Skin Protection: Use impervious gloves to prevent skin contact and absorption of this material through the skin. Nitrile or Neoprene gloves may afford adequate skin protection.

Eye Protection: Use safety eyewear designed to protect against splash of liquids.

Other protective equipment: Refer to safety supervisor or industrial hygienist for further information regarding personal protective equipment and its application.

Hygienic Practices: Wash thoroughly with soap and water before eating, drinking or smoking.

Section 9 - Physical And Chemical Properties

Boiling Range:	-34 - 900 F	Vapor Density:	Heavier than air
Odor:	Solvent Like	Odor Threshold:	N.E.
Appearance:	Liquid	Evaporation Rate:	Faster than Ether
Solubility in H2O:	Slight		
Freeze Point:	N.D.	Specific Gravity:	N.A.
Vapor Pressure:	N.D.	PH:	N.A.
Physical State:	Liquid		

(See section 16 for abbreviation legend)

Section 10 - Stability And Reactivity

Conditions To Avoid: Avoid temperatures above 120 ° F. Avoid all possible sources of ignition.

Incompatibility: Incompatible with strong oxidizing agents, strong acids and strong alkalies.

Hazardous Decomposition: When heated to decomposition, it emits acrid smoke and irritating fumes. By open flame, carbon monoxide and carbon dioxide.

Hazardous Polymerization: Will not occur under normal conditions.

Stability: This product is stable under normal storage conditions.

Section 11 - Toxicological Information

Product LD50: N.D.

Product LC50: N.D.

Chemical Name	LD50	LC50
Magnesium Silicate	N.E.	TCLo: 11 mg/m3 (Inhalation)
Acetone	5800 mg/kg (Rat)	50100 mg/m3 (Rat, 8Hr)
Liquefied Petroleum Gas	N.E.	N.E.
Xylene	4300 mg/kg (Rat, Oral)	5000 ppm (Rat, Inhalation, 4Hr)
Titanium Dioxide	>7500 mg/kg (Rat, Oral)	N.E.
n-Butyl Acetate	13100 mg/kg (Rat, Oral)	2000 ppm (Rat, Inhalation, 4 Hr)
Methyl Ethyl Ketone	N.E.	N.E.
Ethylbenzene	3500 mg/kg (Rat, Oral)	N.E.
Toluene	636 mg/kg (Rat, Oral)	>26700 ppm (Rat, Inhalation, 1Hr)
Ethylene Glycol Monobutyl Ether	1519 mg/kg (Mouse, Oral)	700 ppm (Rat, Inhalation, 7Hr)
Pigment Black 7	>8000 mg/kg (Rat, Oral)	N.E.
Stoddard Solvents	N.E.	N.E.
Aromatic Hydrocarbon	N.E.	N.E.
1,2,4-Trimethylbenzene	N.E.	18000 mg/m3 (Rat, 4Hr)
Chlorite	N.E.	N.E.
Pigment Yellow 17	N.E.	N.E.
Quartz (Crystalline Silica)	N.E.	N.E.

Section 12 - Ecological Information

Ecological Information: Product is a mixture of listed components.

Section 13 - Disposal Information

Disposal Information: Dispose of material in accordance to local, state and federal regulations and ordinances. Do not allow to enter storm drains or sewer systems.

Section 14 - Transportation Information

DOT Proper Shipping Name:	Aerosol	Packing Group:	N.A.
DOT Technical Name:	N.A.	Hazard Subclass:	N.A.
DOT Hazard Class:	2.1	Resp. Guide Page:	126
DOT UN/NA Number:	UN1950		

Section 15 - Regulatory Information

CERCLA - SARA Hazard Category

This product has been reviewed according to the EPA "Hazard Categories" promulgated under Sections 311and 312 of the Superfund Amendment and Reauthorization Act of 1986 (SARA Title III) and is considered, under applicable definitions, to meet the following categories:

IMMEDIATE HEALTH HAZARD, CHRONIC HEALTH HAZARD, FIRE HAZARD, PRESSURIZED GAS HAZARD

SARA Section 313:

Listed below are the substances (if any) contained in this product that are subject to the reporting requirements of Section 313 of Title III of the Superfund Amendment and Reauthorization Act of 1986 and 40 CFR part 372:

Chemical Name	CAS Number
Xylene	1330-20-7
Methyl Ethyl Ketone	78-93-3
Ethylbenzene	100-41-4
Toluene	108-88-3
Ethylene Glycol Monobutyl Ether	111-76-2
1,2,4-Trimethylbenzene	95-63-6

Toxic Substances Control Act:

Listed below are the substances (if any) contained in this product that are subject to the reporting requirements of TSCA 12(B) if exported from the United States:

None known

U.S. State Regulations: As follows -

New Jersey Right-to-Know:

The following materials are non-hazardous, but are among the top five components in this product.

Chemical Name	CAS Number

Alkyd Resin	PROPRIETARY

Pennsylvania Right-to-Know:

The following non-hazardous ingredients are present in the product at greater than 3%.

Chemical Name	CAS Number
Alkyd Resin	PROPRIETARY
Alkyd Resin	PROPRIETARY
Calcium Carbonate	1317-65-3
Barium Sulfate	7727-43-7

California Proposition 65:

WARNING! This product contains a chemical(s) known by the State of California to cause cancer.

WARNING! This product contains a chemical(s) known to the State of California to cause birth defects or other reproductive harm.

International Regulations: As follows -

CANADIAN WHMIS:

This MSDS has been prepared in compliance with Controlled Product Regulations except for the use of the 16 headings.

CANADIAN WHMIS CLASS: AB5, D2A, D2B

Section 16 - Other Information

HMIS Ratings:

Health: 2* Flammability: 4 Reactivity: 0 Personal Protection: X

REASON FOR REVISION:

Legend: N.A. - Not Applicable, N.E. - Not Established, N.D. - Not Determined

The information contained on this MSDS has been checked and should be accurate. However, it is the responsibility of the user to comply with all Federal, State, and Local laws and regulations.

Material Safety Data Sheet

24 Hour Assistance:
1-847-367-7700
Rust-Oleum Corp.
www.rustoleum.com

Section 1 - Chemical Product / Company Information

Product Name:	Rust-Oleum Professional Oil Based Enamels - Topcoats	Revision Date:	11/13/2007
Identification Number:	7738402, 7765402, 7775402, 7727402, 7748402, 7770402, 7776402, 7779300, 7779402, 7781402, 7786402, 7790402, 7792300, 7792402, 7771402, 239076, 239094, 239078		
Product Use/Class:	Topcoat/Alkyd		
Supplier:	Rust-Oleum Corporation 11 Hawthorn Parkway Vernon Hills, IL 60061 USA	Manufacturer:	Rust-Oleum Corporation 11 Hawthorn Parkway Vernon Hills, IL 60061 USA
Preparer:	Regulatory Department		

Section 2 - Composition / Information On Ingredients

Chemical Name	CAS Number	Weight % Less Than	ACGIH TLV-TWA	ACGIH TLV-STEL	OSHA PEL-TWA	OSHA PEL-CEILING
Stoddard Solvents	8052-41-3	50.0	100 PPM	N.E.	500 PPM	N.E.
Titanium Dioxide	13463-67-7	25.0	10 mg/m3	N.E.	10 mg/m3	N.E.
Calcined Aluminum Silicate	1332-58-7	20.0	2 mg/m3	N.E.	5 mg/m3	N.E.
Magnesium Silicate	14807-96-6	15.0	10 mg/m3	N.E.	15 mg/m3	N.E.
Pigment Black 7	1333-86-4	5.0	3.5 mg/m3	N.E.	3.5 mg/m3	N.E.
Microcrystalline Silica	14808-60-7	1.0	0.025 mg/m3	N.E.	0.10 mg/m3	N.E.
Ethylbenzene	100-41-4	1.0	100 PPM	125 PPM	100 PPM	N.E.

Section 3 - Hazards Identification

*** Emergency Overview ***: Harmful if inhaled. May affect the brain or nervous system causing dizziness, headache or nausea. Harmful if swallowed. Causes eye irritation. Vapors irritating to eyes and respiratory tract. Combustible liquid and vapor.

Effects Of Overexposure - Eye Contact: Causes eye irritation.

Effects Of Overexposure - Skin Contact: May cause skin irritation.

Effects Of Overexposure - Inhalation: High vapor concentrations are irritating to the eyes, nose, throat and lungs. May cause headaches and dizziness. Harmful if inhaled.

Effects Of Overexposure - Ingestion: Aspiration hazard if swallowed; can enter lungs and cause damage. Substance may be harmful if swallowed.

Effects Of Overexposure - Chronic Hazards: Contains Titanium Dioxide. Titanium Dioxide is listed as a Group 2B-"Possibly carcinogenic to humans" by IARC. Significant exposure is not anticipated during brush application or drying. Risk of overexposure depends on duration and level of exposure to dust from repeated sanding of surfaces

or spray mist and the actual concentration of Titanium Dioxide in the formula.
IARC lists Ethylbenzene as a possible human carcinogen (group 2B). Reports have associated repeated and prolonged occupational overexposure to solvents with permanent brain and nervous system damage. Contains carbon black. Chronic inflammation, lung fibrosis, and lung tumors have been observed in some rats experimentally exposed for long periods of time to excessive concentrations of carbon black and several insoluble fine dust particles. Tumors have not been observed in other animal species (i.e., mouse and hampster) under similar circumstances and study conditions. Epidemiological studies of North American workers show no evidence of clinically significant adverse health effects due to occupational exposure to carbon black.
Carbon black is listed as a Group 2B-"Possibly carcinogenic to humans" by IARC and is proposed to be listed as A4- "not classified as a human carcinogen" by the American Conference of Govermental Industrial Hygienists. Significant exposure is not anticipated during brush application or drying. Risk of overexposure depends on duration and level of exposure to dust from repeated sanding of surfaces or spray mist and the actual concentration of carbon black in the formula. Contains crystalline silica as silicon dioxide. Excessive inhalation of respirable crystalline silica dust may cause lung disease, silicosis or lung cancer. Significant exposure is not anticipated during brush or trowel application or drying. Risk of overexposure depends on the duration and level of exposure to dust from repeated sanding of surfaces, mechanical abrasion or spray mist and actual concentration of crystalline silica in the formula. Crystalline silica is listed as Group 1 "carcinogenic to humans" by the International Agency for Research on Cancer (IARC,) and Group 2, "reasonably anticipated to be a carcinogen" by the National Toxicology Program (NTP)

Primary Route(s) Of Entry: Skin Contact, Skin Absorption, Inhalation, Eye Contact

Section 4 - First Aid Measures

First Aid - Eye Contact: Hold eyelids apart and flush with plenty of water for at least 15 minutes. Get medical attention.

First Aid - Skin Contact: Wash with soap and water. Get medical attention if irritation develops or persists.

First Aid - Inhalation: Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get immediate medical attention.

First Aid - Ingestion: Aspiration hazard: Do not induce vomiting or give anything by mouth because this material can enter the lungs and cause severe lung damage. Get immediate medical attention.

Section 5 - Fire Fighting Measures

Flash Point: 104 F
(Setaflash)

LOWER EXPLOSIVE LIMIT: 0.7 %
UPPER EXPLOSIVE LIMIT : 22.0 %

Extinguishing Media: Dry Chemical, Foam, Water Fog

Unusual Fire And Explosion Hazards: Keep containers tightly closed.

Special Firefighting Procedures: Water may be used to cool closed containers to prevent pressure buildup and possible autoignition or explosion. Evacuate area and fight fire from a safe distance.

Section 6 - Accidental Release Measures

Steps To Be Taken If Material Is Released Or Spilled: Contain spilled liquid with sand or earth. DO NOT use combustible materials such as sawdust. Dispose of according to local, state (provincial) and federal regulations. Do not incinerate closed containers.

Section 7 - Handling And Storage

Handling: Wash hands before eating. Wash thoroughly after handling. Avoid breathing vapor or mist. Avoid contact with eyes. Follow all MSDS/label precautions even after container is emptied because it may retain product residues.

Storage: Keep container closed when not in use. Keep away from heat, sparks, flame and sources of ignition. Keep containers tightly closed. Isolate from heat, electrical equipment, sparks and open flame.

Section 8 - Exposure Controls / Personal Protection

Engineering Controls: Prevent build-up of vapors by opening all doors and windows to achieve cross-ventilation. Use process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below recommended exposure limits.

Respiratory Protection: A respiratory protection program that meets OSHA 1910.134 and ANSI Z88.2 requirements must be followed whenever workplace conditions warrant a respirator's use. A NIOSH/MSHA approved air purifying respirator with an organic vapor cartridge or canister may be permissible under certain circumstances where airborne concentrations are expected to exceed exposure limits.

Protection provided by air purifying respirators is limited. Use a positive pressure air supplied respirator if there is any potential for an uncontrolled release, exposure levels are not known, or any other circumstances where air purifying respirators may not provide adequate protection.

Skin Protection: Nitrile or Neoprene gloves may afford adequate skin protection. Use impervious gloves to prevent skin contact and absorption of this material through the skin.

Eye Protection: Use safety eyewear designed to protect against splash of liquids.

Other protective equipment: Refer to safety supervisor or industrial hygienist for further information regarding personal protective equipment and its application.

Hygienic Practices: Wash thoroughly with soap and water before eating, drinking or smoking.

Section 9 - Physical And Chemical Properties

Boiling Range:	176 - 900 F	Vapor Density:	Heavier than air
Odor:	Solvent Like	Odor Threshold:	ND
Appearance:	Liquid	Evaporation Rate:	Slower than Ether
Solubility in H2O:	Slight		
Freeze Point:	ND	Specific Gravity:	1.2100
Vapor Pressure:	ND	PH:	NE
Physical State:	Liquid		

(See section 16 for abbreviation legend)

Section 10 - Stability And Reactivity

Conditions To Avoid: Avoid all possible sources of ignition.

Incompatibility: Incompatible with strong oxidizing agents, strong acids and strong alkalies.

Hazardous Decomposition: When heated to decomposition, it emits acrid smoke and irritating fumes. By open flame, carbon monoxide and carbon dioxide.

Hazardous Polymerization: Will not occur under normal conditions.

Stability: This product is stable under normal storage conditions.

Section 11 - Toxicological Information

Product LD50: ND

Product LC50: ND

Chemical Name	LD50	LC50
Stoddard Solvents	N.D.	N.D.
Titanium Dioxide	>7500 mg/kg (ORAL, RAT)	N.D.
Calcined Aluminum Silicate	5000 mg/kg (ORAL RAT)	N.D.
Magnesium Silicate	N.D.	TCLo:11mg/m3 inh.
Pigment Black 7	>8000 mg/kg (ORAL, RAT)	N.D.
Microcrystalline Silica	N.D.	N.D.
Ethylbenzene	3500 mg/kg (ORAL, RAT)	N.D.

Section 12 - Ecological Information

Ecological Information: Product is a mixture of listed components.

Section 13 - Disposal Information

Disposal Information: Dispose of material in accordance to local, state and federal regulations and ordinances. Do not allow to enter storm drains or sewer systems.

Section 14 - Transportation Information

DOT Proper Shipping Name:	Paint	Packing Group:	III
DOT Technical Name:	---	Hazard Subclass:	---
DOT Hazard Class:	3	Resp. Guide Page:	128
DOT UN/NA Number:	UN1263		

Section 15 - Regulatory Information

CERCLA - SARA Hazard Category

This product has been reviewed according to the EPA "Hazard Categories" promulgated under Sections 311and 312 of the Superfund Amendment and Reauthorization Act of 1986 (SARA Title III) and is considered, under applicable definitions, to meet the following categories:

IMMEDIATE HEALTH HAZARD, CHRONIC HEALTH HAZARD, FIRE HAZARD

SARA Section 313:

Listed below are the substances (if any) contained in this product that are subject to the reporting requirements of Section 313 of Title III of the Superfund Amendment and Reauthorization Act of 1986 and 40 CFR part 372:

Chemical Name	CAS Number
Ethylbenzene	100-41-4

Toxic Substances Control Act:

Listed below are the substances (if any) contained in this product that are subject to the reporting requirements of TSCA 12(B) if exported from the United States:

None known

U.S. State Regulations: As follows -

New Jersey Right-to-Know:

The following materials are non-hazardous, but are among the top five components in this product.

Chemical Name	CAS Number
Calcium Carbonate	1317-65-3
Alkyd Resin	PROPRIETARY
Alkyd Resin	PROPRIETARY

Pennsylvania Right-to-Know:

The following non-hazardous ingredients are present in the product at greater than 3%.

Chemical Name	CAS Number
Calcium Carbonate	1317-65-3
Alkyd Resin	PROPRIETARY
Alkyd Resin	PROPRIETARY
Pigment Yellow 74	6358-31-2
Yellow Iron Oxide	51274-00-1

California Proposition 65:

WARNING! This product contains a chemical(s) known by the State of California to cause cancer.

WARNING! This product contains a chemical(s) known to the state of California to cause birth defects or other reproductive harm.

International Regulations: As follows -

CANADIAN WHMIS:

This MSDS has been prepared in compliance with Controlled Product Regulations except for the use of the 16 headings.

CANADIAN WHMIS CLASS: B3 D2A D2B

Section 16 - Other Information

HMIS Ratings:

Health: 2* Flammability: 2 Reactivity: 0 Personal Protection: X

VOLATILE ORGANIC COMPOUNDS, g/l: <450

REASON FOR REVISION: Regulatory Update

Legend: N.A. - Not Applicable, N.E. - Not Established, N.D. - Not Determined

The information contained on this MSDS has been checked and should be accurate. However, it is the responsibility of the user to comply with all Federal, State, and Local laws and regulations.

Material Safety Data Sheet

24 Hour Assistance:
1-847-367-7700
Rust-Oleum Corp.
www.rustoleum.com

Section 1 - Chemical Product / Company Information

Product Name:	Rust-Oleum Industrial Epoxy Primers	Revision Date:	08/16/2006
Identification Number:	HS9369407, HS9381388, HS9381407		
Product Use/Class:	Primer/High Solids Epoxy		
Supplier:	Rust-Oleum Corporation 11 Hawthorn Parkway Vernon Hills, IL 60061 USA	Manufacturer:	Rust-Oleum Corporation 11 Hawthorn Parkway Vernon Hills, IL 60061 USA
Preparer:	Regulatory Department		

Section 2 - Composition / Information On Ingredients

Chemical Name	CAS Number	Weight % Less Than	ACGIH TLV-TWA	ACGIH TLV-STEL	OSHA PEL-TWA	OSHA PEL-CEILING
Xylene	1330-20-7	15.0	100 PPM	150 PPM	100 PPM	N.E.
Tremolite (nonasbestiform)	14567-73-8	15.0	N.E.	N.E.	N.E.	N.E.
Titanium Dioxide	13463-67-7	15.0	10 mg/m3	N.E.	10 mg/m3	N.E.
Serpentine	12135-86-3	10.0	N.E.	N.E.	N.E.	N.E.
Propylene Glycol Monomethyl Ether	107-98-2	5.0	100 PPM	150 PPM	100PPM-NIOSH	N.E.
Methyl Isobutyl Ketone	108-10-1	5.0	50 PPM	75 PPM	100 PPM	N.E.
Ethylbenzene	100-41-4	5.0	100 PPM	125 PPM	100 PPM	N.E.
Calcium Silicate	13983-17-0	5.0	10 MG/M3	N.E.	N.E.	N.E.
Anthophylite (nonasbestiform)	17068-78-9	5.0	N.E.	N.E.	N.E.	N.E.

Section 3 - Hazards Identification

*** Emergency Overview ***: High vapor concentrations can irritate eyes, nose and respiratory passages. Causes nose and throat irritation. Harmful if inhaled. May affect the brain or nervous system causing dizziness, headache or nausea. Flammable liquid and vapor. Harmful if inhaled. Harmful if swallowed. Causes eye irritation. Causes skin irritation.

Effects Of Overexposure - Eye Contact: Causes eye irritation.

Effects Of Overexposure - Skin Contact: May cause skin sensitization, an allergic reaction, which becomes evident on re-exposure to this material. Causes skin irritation. Allergic reactions are possible. Prolonged or repeated skin contact may cause irritation.

Effects Of Overexposure - Inhalation: Prolonged or excessive inhalation may cause respiratory tract irritation. High vapor concentrations are irritating to the eyes, nose, throat and lungs. May cause headaches and dizziness. Avoid breathing vapors or mists. High gas, vapor, mist or dust concentrations may be harmful if inhaled. Harmful if inhaled.

Effects Of Overexposure - Ingestion: Aspiration hazard if swallowed; can enter lungs and cause damage. Harmful if swallowed. Substance may be harmful if swallowed.

Effects Of Overexposure - Chronic Hazards: IARC lists Ethylbenzene as a possible human carcinogen (group 2B). Reports have associated repeated and prolonged occupational overexposure to solvents with permanent brain and nervous system damage. Overexposure to xylene in laboratory animals has been associated with liver abnormalities, kidney, lung, spleen, eye and blood damage as well as reproductive disorders. Effects in humans, due to chronic overexposure, have included liver, cardiac abnormalities and nervous system damage. Contains Calcium Silicate (Wollastonite), which is an IARC 3 Agent "unclassifiable as to carcinogenicity to humans" via inhalation. Inhalation exposure to Calcium Silicate is not anticipated through brush application nor normal use. Calcium Silicate is NOT classified as a carcinogen by NIOSH, ACGIH, NTP nor OSHA.

Primary Route(s) Of Entry: Skin Contact, Skin Absorption, Inhalation, Eye Contact

Section 4 - First Aid Measures

First Aid - Eye Contact: Hold eyelids apart and flush with plenty of water for at least 15 minutes. Get medical attention.

First Aid - Skin Contact: Wash with soap and water. Get medical attention if irritation develops or persists.

First Aid - Inhalation: If you experience difficulty in breathing, leave the area to obtain fresh air. If continued difficulty is experienced, get medical assistance immediately. Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get immediate medical attention.

First Aid - Ingestion: Aspiration hazard: Do not induce vomiting or give anything by mouth because this material can enter the lungs and cause severe lung damage. Get immediate medical attention. If swallowed, do not induce vomiting. Give victim a glass of water or milk. Call a physician or poison control center immediately. Never give anything by mouth to an unconscious person.

Section 5 - Fire Fighting Measures

Flash Point: 73 F
(Setaflash)

LOWER EXPLOSIVE LIMIT: 1.0 %
UPPER EXPLOSIVE LIMIT : 12.6 %

Extinguishing Media: Dry Chemical, Foam, Water Fog

Unusual Fire And Explosion Hazards: Isolate from heat, electrical equipment, sparks and open flame. Closed containers may explode when exposed to extreme heat due to buildup of steam. Vapors may form explosive mixtures with air. Vapors can travel to a source of ignition and flash back.

Special Firefighting Procedures: Evacuate area and fight fire from a safe distance. Water may be used to cool closed containers to prevent pressure buildup and possible autoignition or explosion.

Section 6 - Accidental Release Measures

Steps To Be Taken If Material Is Released Or Spilled: Eliminate all ignition sources; use explosion-proof equipment. Place material in a container and dispose of according to local, provincial, state and federal regulations. Dispose of according to local, state (provincial) and federal regulations. Do not incinerate closed containers. Contain spilled liquid with sand or earth. DO NOT use combustible materials such as sawdust.

Section 7 - Handling And Storage

Handling: Use only in a well-ventilated area. Use with adequate ventilation. Wash hands before eating. Remove contaminated clothing and launder before reuse. Wash thoroughly after handling. Follow all MSDS/label

precautions even after container is emptied because it may retain product residues. Avoid prolonged or repeated contact with skin.

Storage: Keep away from heat, sparks, flame and sources of ignition. Keep containers tightly closed. Isolate from heat, electrical equipment, sparks and open flame. Keep container closed when not in use.

Section 8 - Exposure Controls / Personal Protection

Engineering Controls: Prevent build-up of vapors by opening all doors and windows to achieve cross-ventilation. Use process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below recommended exposure limits.

Respiratory Protection: A NIOSH/MSHA approved air purifying respirator with an organic vapor cartridge or canister may be permissible under certain circumstances where airborne concentrations are expected to exceed exposure limits.

Protection provided by air purifying respirators is limited. Use a positive pressure air supplied respirator if there is any potential for an uncontrolled release, exposure levels are not known, or any other circumstances where air purifying respirators may not provide adequate protection. A respiratory protection program that meets OSHA 1910.134 and ANSI Z88.2 requirements must be followed whenever workplace conditions warrant a respirator's use.

Skin Protection: Use impervious gloves to prevent skin contact and absorption of this material through the skin. Nitrile or Neoprene gloves may afford adequate skin protection.

Eye Protection: Use safety eyewear designed to protect against splash of liquids.

Other protective equipment: Refer to safety supervisor or industrial hygienist for further guidance on types of personal protective equipment and their applications. Refer to safety supervisor or industrial hygienist for further information regarding personal protective equipment and its application.

Hygienic Practices: Wash thoroughly with soap and water before eating, drinking or smoking. Remove contaminated clothing immediately and launder before reuse.

Section 9 - Physical And Chemical Properties

Boiling Range:	212 - 999 F	Vapor Density:	Heavier than air
Odor:	Solvent Like	Odor Threshold:	ND
Appearance:	Liquid	Evaporation Rate:	Slower than Ether
Solubility in H2O:	Slight		
Freeze Point:	ND	Specific Gravity:	1.4900
Vapor Pressure:		PH:	NE
Physical State:	Liquid		

(See section 16 for abbreviation legend)

Section 10 - Stability And Reactivity

Conditions To Avoid: Avoid all possible sources of ignition. Avoid contact with strong acid and strong bases.

Incompatibility: Incompatible with strong oxidizing agents, strong acids and strong alkalies.

Hazardous Decomposition: When heated to decomposition, it emits acrid smoke and irritating fumes. Contains solvents which may form carbon monoxide, carbon dioxide, and formaldehyde By open flame, carbon monoxide and carbon dioxide.

Hazardous Polymerization: Will not occur under normal conditions.

Stability: May form peroxides of unkown stability This product is stable under normal storage conditions.

Section 11 - Toxicological Information

Product LD50: ND

Product LC50: ND

Chemical Name	LD50	LC50
Xylene	N.D.	N.D.
Tremolite (nonasbestiform)	N.D.	N.D.
Titanium Dioxide	>7500 mg/kg (ORAL, RAT)	N.D.
Serpentine	N.D.	N.D.
Propylene Glycol Monomethyl Ether	7200 mg/kg (ORAL, RAT)	N.D.
Methyl Isobutyl Ketone	N.D.	N.D.
Ethylbenzene	3500 mg/kg (ORAL, RAT)	N.D.
Calcium Silicate		
Anthophylite (nonasbestiform)	N.D.	N.D.

Section 12 - Ecological Information

Ecological Information: Product is a mixture of listed components. Product is a mixture of listed components.

Section 13 - Disposal Information

Disposal Information: Dispose of material in accordance to local, state and federal regulations and ordinances. Do not allow to enter storm drains or sewer systems.

Section 14 - Transportation Information

DOT Proper Shipping Name:	Paint	Packing Group:	III
DOT Technical Name:	---	Hazard Subclass:	---
DOT Hazard Class:	3	Resp. Guide Page:	128
DOT UN/NA Number:	UN1263		

Section 15 - Regulatory Information

CERCLA - SARA Hazard Category

This product has been reviewed according to the EPA "Hazard Categories" promulgated under Sections 311and 312 of the Superfund Amendment and Reauthorization Act of 1986 (SARA Title III) and is considered, under applicable definitions, to meet the following categories:

IMMEDIATE HEALTH HAZARD, CHRONIC HEALTH HAZARD, FIRE HAZARD

SARA Section 313:

Listed below are the substances (if any) contained in this product that are subject to the reporting requirements of Section 313 of Title III of the Superfund Amendment and Reauthorization Act of 1986 and 40 CFR part 372:

Chemical Name	CAS Number
Xylene	1330-20-7
Methyl Isobutyl Ketone	108-10-1
Ethylbenzene	100-41-4

Toxic Substances Control Act:

Listed below are the substances (if any) contained in this product that are subject to the reporting requirements of TSCA 12(B) if exported from the United States:

None known

U.S. State Regulations: As follows -

New Jersey Right-to-Know:

The following materials are non-hazardous, but are among the top five components in this product.

Chemical Name	CAS Number
Epoxy Resin	25036-25-3
Magnesium Silicate	MIXTURE

Pennsylvania Right-to-Know:

The following non-hazardous ingredients are present in the product at greater than 3%.

Chemical Name	CAS Number
Epoxy Resin	25036-25-3
Magnesium Silicate	MIXTURE
Red Iron Oxide	1332-37-2
Barium Sulfate	7727-43-7

California Proposition 65:

WARNING! This product contains a chemical(s) known by the State of California to cause cancer.

These products contain no known chemicals known by the State of California to cause birth defects or other reproductive harm.

International Regulations: As follows -

CANADIAN WHMIS:

This MSDS has been prepared in compliance with Controlled Product Regulations except for the use of the 16 headings.

CANADIAN WHMIS CLASS: B2 D2A D2B

Section 16 - Other Information

HMIS Ratings:

Health: 2* Flammability: 3 Reactivity: 0 Personal Protection: X

VOLATILE ORGANIC COMPOUNDS, g/l: ---

REASON FOR REVISION:

Legend: N.A. - Not Applicable, N.E. - Not Established, N.D. - Not Determined

The information contained on this MSDS has been checked and should be accurate. However, it is the responsibility of the user to comply with all Federal, State, and Local laws and regulations.

Material Safety Data Sheet

24 Hour Assistance:
1-847-367-7700
Rust-Oleum Corp.
www.rustoleum.com

Section 1 - Chemical Product / Company Information

Product Name:	Rust-Oleum High Performance Industrial High Gloss Urethane	Revision Date:	05/17/2006
Identification Number:	9425402, 9465402, 9479402, 9483402, 9492300, 9492402		
Product Use/Class:	Topcoat/High Gloss Polyurethane		
Supplier:	Rust-Oleum Corporation 11 Hawthorn Parkway Vernon Hills, IL 60061 USA	Manufacturer:	Rust-Oleum Corporation 11 Hawthorn Parkway Vernon Hills, IL 60061 USA
Preparer:	Regulatory Department		

Section 2 - Composition / Information On Ingredients

Chemical Name	CAS Number	Weight % Less Than	ACGIH TLV-TWA	ACGIH TLV-STEL	OSHA PEL-TWA
Titanium Dioxide	13463-67-7	40.0	10 mg/m3	N.E.	10 mg/m3
Propylene Glycol Monomethyl Ether Acetate	108-65-6	15.0	N.E.	N.E.	30 p.p.m. (Supplier recommendation
Xylene	1330-20-7	15.0	100 PPM	150 PPM	100 PPM
Methyl Ethyl Ketone	78-93-3	10.0	200 PPM	300 PPM	200 PPM
Methyl Isoamyl Ketone	110-12-3	10.0	50 PPM	N.E.	50 PPM
Pigment Black 7	1333-86-4	10.0	3.5 mg/m3	N.E.	3.5 mg/m3
Ethyl 3-Ethoxypropionate	763-69-9	5.0	N.E.	N.E.	N.E.
Ethylbenzene	100-41-4	5.0	100 PPM	125 PPM	100 PPM

Section 3 - Hazards Identification

*** Emergency Overview ***: High vapor concentrations can irritate eyes, nose and respiratory passages. Causes nose and throat irritation. Harmful if inhaled. May affect the brain or nervous system causing dizziness, headache or nausea. Flammable liquid and vapor. Harmful if swallowed. Causes eye irritation.

Effects Of Overexposure - Eye Contact: Causes eye irritation.

Effects Of Overexposure - Skin Contact: Prolonged or repeated skin contact may cause irritation.

Effects Of Overexposure - Inhalation: High vapor concentrations are irritating to the eyes, nose, throat and lungs. May cause headaches and dizziness. Avoid breathing vapors or mists. Harmful if inhaled.

Effects Of Overexposure - Ingestion: Aspiration hazard if swallowed; can enter lungs and cause damage. Harmful if swallowed.

Effects Of Overexposure - Chronic Hazards: IARC lists Ethylbenzene as a possible human carcinogen (group 2B). Reports have associated repeated and prolonged occupational overexposure to solvents with permanent brain and nervous system damage. Overexposure to xylene in laboratory animals has been associated with liver abnormalities, kidney, lung, spleen, eye and blood damage as well as reproductive disorders. Effects in humans, due to chronic overexposure, have included liver, cardiac abnormalities and nervous system damage.

Overexposure to methyl ethyl ketone in laboratory animals has been associated with liver abnormalities, kidney and lung damage. Fetotoxic/embryotoxic effects from inhalation have been seen in rats exposed to >1000ppm during gestation.
Contains carbon black. Chronic inflammation, lung fibrosis, and lung tumors have been observed in some rats experimentally exposed for long periods of time to excessive concentrations of carbon black and several insoluble fine dust particles. Tumors have not been observed in other animal species (i.e., mouse and hampster) under similar circumstances and study conditions. Epidemiological studies of North American workers show no evidence of clinically significant adverse health effects due to occupational exposure to carbon black.
Carbon black is listed as a Group 2B-"Possibly carcinogenic to humans" by IARC and is proposed to be listed as A4- "not classified as a human carcinogen" by the American Conference of Govermental Industrial Hygienists.
Significant exposure is not anticipated during brush application or drying. Risk of overexposure depends on duration and level of exposure to dust from repeated sanding of surfaces or spray mist and the actual concentration of carbon black in the formula.

Primary Route(s) Of Entry: Skin Contact, Skin Absorption, Inhalation, Eye Contact

Section 4 - First Aid Measures

First Aid - Eye Contact: Hold eyelids apart and flush with plenty of water for at least 15 minutes. Get medical attention.

First Aid - Skin Contact: Wash with soap and water. Get medical attention if irritation develops or persists.

First Aid - Inhalation: Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get immediate medical attention.

First Aid - Ingestion: Aspiration hazard: Do not induce vomiting or give anything by mouth because this material can enter the lungs and cause severe lung damage. Get immediate medical attention.

Section 5 - Fire Fighting Measures

Flash Point: 50 F
(Setaflash)

LOWER EXPLOSIVE LIMIT: 0.6 %
UPPER EXPLOSIVE LIMIT : 13.1 %

Extinguishing Media: Dry Chemical, Foam, Water Fog

Unusual Fire And Explosion Hazards: Vapors may form explosive mixtures with air. Vapors can travel to a source of ignition and flash back. Isolate from heat, electrical equipment, sparks and open flame.

Special Firefighting Procedures: Evacuate area and fight fire from a safe distance. Water may be used to cool closed containers to prevent pressure buildup and possible autoignition or explosion.

Section 6 - Accidental Release Measures

Steps To Be Taken If Material Is Released Or Spilled: Contain spilled liquid with sand or earth. DO NOT use combustible materials such as sawdust. Eliminate all ignition sources; use explosion-proof equipment. Place material in a container and dispose of according to local, provincial, state and federal regulations.

Section 7 - Handling And Storage

Handling: Use with adequate ventilation. Follow all MSDS/label precautions even after container is emptied because it may retain product residues. Wash thoroughly after handling. Wash hands before eating.

Storage: Keep container closed when not in use. Keep away from heat, sparks, flame and sources of ignition. Keep containers tightly closed. Isolate from heat, electrical equipment, sparks and open flame.

Section 8 - Exposure Controls / Personal Protection

Engineering Controls: Use process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below recommended exposure limits. Prevent build-up of vapors by opening all doors and windows to achieve cross-ventilation.

Respiratory Protection: A respiratory protection program that meets OSHA 1910.134 and ANSI Z88.2 requirements must be followed whenever workplace conditions warrant a respirator's use. A NIOSH/MSHA approved air purifying respirator with an organic vapor cartridge or canister may be permissible under certain circumstances where airborne concentrations are expected to exceed exposure limits.

Protection provided by air purifying respirators is limited. Use a positive pressure air supplied respirator if there is any potential for an uncontrolled release, exposure levels are not known, or any other circumstances where air purifying respirators may not provide adequate protection.

Skin Protection: Nitrile or Neoprene gloves may afford adequate skin protection. Use impervious gloves to prevent skin contact and absorption of this material through the skin.

Eye Protection: Use safety eyewear designed to protect against splash of liquids.

Other protective equipment: Refer to safety supervisor or industrial hygienist for further information regarding personal protective equipment and its application.

Hygienic Practices: Wash thoroughly with soap and water before eating, drinking or smoking.

Section 9 - Physical And Chemical Properties

Boiling Range:	51 - 900 F	Vapor Density:	Heavier than air
Odor:	Solvent Like	Odor Threshold:	ND
Appearance:	Liquid	Evaporation Rate:	Slower than Ether
Solubility in H2O:	Slight		
Freeze Point:	ND	Specific Gravity:	1.4500
Vapor Pressure:		PH:	NE
Physical State:	Liquid		

(See section 16 for abbreviation legend)

Section 10 - Stability And Reactivity

Conditions To Avoid: Avoid all possible sources of ignition.

Incompatibility: Incompatible with strong oxidizing agents, strong acids and strong alkalies.

Hazardous Decomposition: By open flame, carbon monoxide and carbon dioxide. When heated to decomposition, it emits acrid smoke and irritating fumes.

Hazardous Polymerization: Will not occur under normal conditions.

Stability: This product is stable under normal storage conditions.

Section 11 - Toxicological Information

Product LD50: ND

Product LC50: ND

Chemical Name	LD50	LC50
Titanium Dioxide	>7500 mg/kg (ORAL, RAT)	N.D.
Propylene Glycol Monomethyl Ether Acetate	>10000 mg/kg (ORAL, RAT)	N.D.
Xylene	N.D.	N.D.
Methyl Ethyl Ketone	N.D.	N.D.
Methyl Isoamyl Ketone	5700 mg/kg (ORAL, RAT)	3813 PPM (INH 6 Hr, RAT)
Pigment Black 7	>8000 mg/kg (ORAL, RAT)	N.D.
Ethyl 3-Ethoxypropionate	4.3 g/kg (ORAL, RAT)	>1000 PPM (6 HR INH, RAT)
Ethylbenzene	3500 mg/kg (ORAL, RAT)	N.D.

Section 12 - Ecological Information

Ecological Information: Product is a mixture of listed components.

Section 13 - Disposal Information

Disposal Information: Dispose of material in accordance to local, state and federal regulations and ordinances. Do not allow to enter storm drains or sewer systems.

Section 14 - Transportation Information

DOT Proper Shipping Name:	Paint	Packing Group:	II
DOT Technical Name:	---	Hazard Subclass:	---
DOT Hazard Class:	3	Resp. Guide Page:	128
DOT UN/NA Number:	UN1263		

Section 15 - Regulatory Information

CERCLA - SARA Hazard Category

This product has been reviewed according to the EPA "Hazard Categories" promulgated under Sections 311and 312 of the Superfund Amendment and Reauthorization Act of 1986 (SARA Title III) and is considered, under applicable definitions, to meet the following categories:

IMMEDIATE HEALTH HAZARD, CHRONIC HEALTH HAZARD, FIRE HAZARD

SARA Section 313:

Listed below are the substances (if any) contained in this product that are subject to the reporting requirements of Section 313 of Title III of the Superfund Amendment and Reauthorization Act of 1986 and 40 CFR part 372:

Chemical Name	CAS Number
Xylene	1330-20-7
Methyl Ethyl Ketone	78-93-3
Ethylbenzene	100-41-4

Toxic Substances Control Act:

Listed below are the substances (if any) contained in this product that are subject to the reporting requirements of TSCA 12(B) if exported from the United States:

None known

U.S. State Regulations: As follows -

New Jersey Right-to-Know:

The following materials are non-hazardous, but are among the top five components in this product.

Chemical Name	CAS Number
Polyester Resin Solution	PROPRIETARY

Pennsylvania Right-to-Know:

The following non-hazardous ingredients are present in the product at greater than 3%.

Chemical Name	CAS Number
Polyester Resin Solution	PROPRIETARY
Pigment Red 170	2786-76-7
Reactive Diluent	MIXTURE
Red Iron Oxide	1332-37-2

California Proposition 65:

WARNING! This product contains a chemical(s) known by the State of California to cause cancer.

These products contain no known chemicals known by the State of California to cause birth defects or other reproductive harm.

International Regulations: As follows -

CANADIAN WHMIS:

This MSDS has been prepared in compliance with Controlled Product Regulations except for the use of the 16 headings.

CANADIAN WHMIS CLASS: B2, D2B

Section 16 - Other Information

HMIS Ratings:

Health: 2* Flammability: 3 Reactivity: 0 Personal Protection: X

VOLATILE ORGANIC COMPOUNDS, g/l:

REASON FOR REVISION:

Legend: N.A. - Not Applicable, N.E. - Not Established, N.D. - Not Determined

The information contained on this MSDS has been checked and should be accurate. However, it is the responsibility of the user to comply with all Federal, State, and Local laws and regulations.

MATERIAL SAFETY DATA SHEET

B50W100
05 00

DATE OF PREPARATION
Feb 21, 2009

SECTION 1 — PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NUMBER
B50W100
PRODUCT NAME
OPTI-BOND™ Multi-Surface Coating, White
MANUFACTURER'S NAME
THE SHERWIN-WILLIAMS COMPANY
101 Prospect Avenue N.W.
Cleveland, OH 44115

Telephone Numbers and Websites

Product Information	www.sherwin-williams.com
Regulatory Information	(216) 566-2902 www.paintdocs.com
Medical Emergency	(216) 566-2917
Transportation Emergency*	(800) 424-9300
**for Chemical Emergency ONLY (spill, leak, fire, exposure, or accident)*	

SECTION 2 — COMPOSITION/INFORMATION ON INGREDIENTS

% by Weight	CAS Number	Ingredient	Units	Vapor Pressure
19	**64742-88-7**	**Mineral Spirits**		
		ACGIH TLV	100 PPM	2 mm
		OSHA PEL	100 PPM	
0.2	**100-41-4**	**Ethylbenzene**		
		ACGIH TLV	100 PPM	7.1 mm
		ACGIH TLV	125 PPM STEL	
		OSHA PEL	100 PPM	
		OSHA PEL	125 PPM STEL	
13	**14807-96-6**	**Talc**		
		ACGIH TLV	2 mg/m3 as Resp. Dust	
		OSHA PEL	2 mg/m3 as Resp. Dust	
18	**65997-15-1**	**Portland Cement**		
		ACGIH TLV	10 mg/m3 as Dust	
		OSHA PEL	10 mg/m3 Total Dust	
		OSHA PEL	5 mg/m3 Respirable Fraction	
12	**471-34-1**	**Calcium Carbonate**		
		ACGIH TLV	10 mg/m3 as Dust	
		OSHA PEL	15 mg/m3 Total Dust	
		OSHA PEL	5 mg/m3 Respirable Fraction	
17	**13463-67-7**	**Titanium Dioxide**		
		ACGIH TLV	10 mg/m3 as Dust	
		OSHA PEL	10 mg/m3 Total Dust	
		OSHA PEL	5 mg/m3 Respirable Fraction	

SECTION 3 — HAZARDS IDENTIFICATION

ROUTES OF EXPOSURE
INHALATION of vapor or spray mist.
EYE or SKIN contact with the product, vapor or spray mist.
EFFECTS OF OVEREXPOSURE
EYES: Causes burns.
SKIN: Causes burns.
INHALATION: Irritation of the upper respiratory system.

May cause nervous system depression. Extreme overexposure may result in unconsciousness and possibly death.
Prolonged overexposure to solvent ingredients in Section 2 may cause adverse effects to the liver and urinary systems.

HMIS Codes

Health	2*
Flammability	2
Reactivity	0

SIGNS AND SYMPTOMS OF OVEREXPOSURE

Headache, dizziness, nausea, and loss of coordination are indications of excessive exposure to vapors or spray mists.
Redness and itching or burning sensation may indicate eye or excessive skin exposure.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE

None generally recognized.

CANCER INFORMATION

For complete discussion of toxicology data refer to Section 11.

SECTION 4 — FIRST AID MEASURES

EYES: Flush eyes with large amounts of water for 15 minutes. Get medical attention **IMMEDIATELY**.
SKIN: Wash affected area thoroughly with soap and water.
If irritation persists or occurs later, get medical attention.
Remove contaminated clothing and launder before re-use.
INHALATION: If affected, remove from exposure. Restore breathing. Keep warm and quiet.
INGESTION: Do not induce vomiting. Get medical attention immediately.

SECTION 5 — FIRE FIGHTING MEASURES

FLASH POINT	LEL	UEL	FLAMMABILITY CLASSIFICATION
104° F PMCC	1.0	6.0	Combustible, Flash above 99 and below 200° F

EXTINGUISHING MEDIA

Carbon Dioxide, Dry Chemical, Foam

UNUSUAL FIRE AND EXPLOSION HAZARDS

Closed containers may explode when exposed to extreme heat.
Application to hot surfaces requires special precautions.
During emergency conditions overexposure to decomposition products may cause a health hazard. Symptoms may not be immediately apparent. Obtain medical attention.

SPECIAL FIRE FIGHTING PROCEDURES

Full protective equipment including self-contained breathing apparatus should be used.
Water spray may be ineffective. If water is used, fog nozzles are preferable. Water may be used to cool closed containers to prevent pressure build-up and possible autoignition or explosion when exposed to extreme heat.

SECTION 6 — ACCIDENTAL RELEASE MEASURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED

- Remove all sources of ignition. Ventilate the area.
- Remove with inert absorbent.

SECTION 7 — HANDLING AND STORAGE

STORAGE CATEGORY

DOL Storage Class II

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE

Contents are COMBUSTIBLE. Keep away from heat and open flame.
Consult NFPA Code. Use approved Bonding and Grounding procedures.
Keep container closed when not in use. Transfer only to approved containers with complete and appropriate labeling. Do not take internally. Keep out of the reach of children.

SECTION 8 — EXPOSURE CONTROLS/PERSONAL PROTECTION

PRECAUTIONS TO BE TAKEN IN USE

Use only with adequate ventilation.
Do not get in eyes or on skin. Avoid breathing vapor and spray mist.
Wash hands after using.
This coating may contain materials classified as nuisance particulates (listed "as Dust" in Section 2) which may be present at hazardous levels only during sanding or abrading of the dried film. If no specific dusts are listed in Section 2, the applicable limits for nuisance dusts are ACGIH TLV 10 mg/m3 (total dust), 3 mg/m3 (respirable fraction), OSHA PEL 15 mg/m3 (total dust), 5 mg/m3 (respirable fraction).

VENTILATION

Local exhaust preferable. General exhaust acceptable if the exposure to materials in Section 2 is maintained below applicable exposure limits. Refer to OSHA Standards 1910.94, 1910.107, 1910.108.

RESPIRATORY PROTECTION

If personal exposure cannot be controlled below applicable limits by ventilation, wear a properly fitted organic vapor/particulate respirator approved by NIOSH/MSHA for protection against materials in Section 2.
When sanding or abrading the dried film, wear a dust/mist respirator approved by NIOSH/MSHA for dust which may be generated from this product, underlying paint, or the abrasive.

PROTECTIVE GLOVES

To prevent skin contact, wear gloves which are recommended by glove supplier for protection against materials in Section 2.

EYE PROTECTION
To prevent eye contact, wear safety spectacles with unperforated sideshields.
OTHER PROTECTIVE EQUIPMENT
Use barrier cream on exposed skin.
OTHER PRECAUTIONS
Intentional misuse by deliberately concentrating and inhaling the contents can be harmful or fatal.

SECTION 9 — PHYSICAL AND CHEMICAL PROPERTIES

PRODUCT WEIGHT	13.15 lb/gal	1575 g/l
SPECIFIC GRAVITY	1.58	
BOILING POINT	300 - 395° F	148 - 201° C
MELTING POINT	Not Available	
VOLATILE VOLUME	41%	
EVAPORATION RATE	Slower than ether	
VAPOR DENSITY	Heavier than air	
SOLUBILITY IN WATER	N.A.	

VOLATILE ORGANIC COMPOUNDS (VOC Theoretical - As Packaged)

2.66lb/gal	319g/l	Less Water and Federally Exempt Solvents
2.66lb/gal	319g/l	Emitted VOC

SECTION 10 — STABILITY AND REACTIVITY

STABILITY — Stable
CONDITIONS TO AVOID
None known.
INCOMPATIBILITY
None known.
HAZARDOUS DECOMPOSITION PRODUCTS
By fire: Carbon Dioxide, Carbon Monoxide
HAZARDOUS POLYMERIZATION
Will not occur

SECTION 11 — TOXICOLOGICAL INFORMATION

CHRONIC HEALTH HAZARDS
Reports have associated repeated and prolonged overexposure to solvents with permanent brain and nervous system damage.
Ethylbenzene is classified by IARC as possibly carcinogenic to humans (2B) based on inadequate evidence in humans and sufficient evidence in laboratory animals. Lifetime inhalation exposure of rats and mice to high ethylbenzene concentrations resulted in increases in certain types of cancer, including kidney tumors in rats and lung and liver tumors in mice. These effects were not observed in animals exposed to lower concentrations. There is no evidence that ethylbenzene causes cancer in humans.
IARC's Monograph No. 93 reports there is sufficient evidence of carcinogenicity in experimental rats exposed to titanium dioxide but inadequate evidence for carcinogenicity in humans and has assigned a Group 2B rating. In addition, the IARC summary concludes, "No significant exposure to titanium dioxide is thought to occur during the use of products in which titanium is bound to other materials, such as paint."

TOXICOLOGY DATA

CAS No.	Ingredient Name			
64742-88-7	**Mineral Spirits**			
		LC50 RAT	4HR	Not Available
		LD50 RAT		Not Available
100-41-4	**Ethylbenzene**			
		LC50 RAT	4HR	Not Available
		LD50 RAT		3500 mg/kg
14807-96-6	**Talc**			
		LC50 RAT	4HR	Not Available
		LD50 RAT		Not Available
65997-15-1	**Portland Cement**			
		LC50 RAT	4HR	Not Available
		LD50 RAT		599.9 mg/kg
471-34-1	**Calcium Carbonate**			
		LC50 RAT	4HR	Not Available
		LD50 RAT		Not Available
13463-67-7	**Titanium Dioxide**			
		LC50 RAT	4HR	Not Available
		LD50 RAT		Not Available

SECTION 12 — ECOLOGICAL INFORMATION

ECOTOXICOLOGICAL INFORMATION

No data available.

SECTION 13 — DISPOSAL CONSIDERATIONS

WASTE DISPOSAL METHOD

Waste from this product may be hazardous as defined under the Resource Conservation and Recovery Act (RCRA) 40 CFR 261.
Waste must be tested for ignitability to determine the applicable EPA hazardous waste numbers.
Incinerate in approved facility. Do not incinerate closed container. Dispose of in accordance with Federal, State/Provincial, and Local regulations regarding pollution.

SECTION 14 — TRANSPORT INFORMATION

US Ground (DOT)

May be Classed as a Combustible Liquid for U.S. Ground.
UN1263, PAINT, 3, PG III, (ERG#128)

DOT (Dept of Transportation) Hazardous Substances & Reportable Quantities

Xylenes (isomers and mixture) 100 lb RQ

Bulk Containers may be Shipped as (check reportable quantities):

UN1263, PAINT, COMBUSTIBLE LIQUID, PG III, (ERG#128)

Canada (TDG)

May be Classed as a Combustible Liquid for Canadian Ground.
UN1263, PAINT, CLASS 3, PG III, (ERG#128)

IMO

UN1263, PAINT, CLASS 3, PG III, (40 C c.c.), EmS F-E, S-E

SECTION 15 — REGULATORY INFORMATION

SARA 313 *(40 CFR 372.65C)* SUPPLIER NOTIFICATION

CAS No.	CHEMICAL/COMPOUND	% by WT	% Element
100-41-4	Ethylbenzene	0.1	

CALIFORNIA PROPOSITION 65

WARNING: This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.

TSCA CERTIFICATION

All chemicals in this product are listed, or are exempt from listing, on the TSCA Inventory.

SECTION 16 — OTHER INFORMATION

This product has been classified in accordance with the hazard criteria of the Canadian Controlled Products Regulations (CPR) and the MSDS contains all of the information required by the CPR.

The above information pertains to this product as currently formulated, and is based on the information available at this time. Addition of reducers or other additives to this product may substantially alter the composition and hazards of the product. Since conditions of use are outside our control, we make no warranties, express or implied, and assume no liability in connection with any use of this information.

MATERIAL SAFETY DATA SHEET

B54W101
38 00

DATE OF PREPARATION
Feb 21, 2009

SECTION 1 — PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NUMBER
B54W101
PRODUCT NAME
Industrial Enamel, Pure White
MANUFACTURER'S NAME
THE SHERWIN-WILLIAMS COMPANY
101 Prospect Avenue N.W.
Cleveland, OH 44115

Telephone Numbers and Websites

Product Information	www.sherwin-williams.com
Regulatory Information	(216) 566-2902 www.paintdocs.com
Medical Emergency	(216) 566-2917
Transportation Emergency*	(800) 424-9300
**for Chemical Emergency ONLY (spill, leak, fire, exposure, or accident)*	

SECTION 2 — COMPOSITION/INFORMATION ON INGREDIENTS

% by Weight	CAS Number	Ingredient	Units	Vapor Pressure
39	**64742-88-7**	**Mineral Spirits**		
		ACGIH TLV	100 PPM	2 mm
		OSHA PEL	100 PPM	
0.1	**100-41-4**	**Ethylbenzene**		
		ACGIH TLV	100 PPM	7.1 mm
		ACGIH TLV	125 PPM STEL	
		OSHA PEL	100 PPM	
		OSHA PEL	125 PPM STEL	
5	**14807-96-6**	**Talc**		
		ACGIH TLV	2 mg/m3 as Resp. Dust	
		OSHA PEL	2 mg/m3 as Resp. Dust	
15	**13463-67-7**	**Titanium Dioxide**		
		ACGIH TLV	10 mg/m3 as Dust	
		OSHA PEL	10 mg/m3 Total Dust	
		OSHA PEL	5 mg/m3 Respirable Fraction	

SECTION 3 — HAZARDS IDENTIFICATION

ROUTES OF EXPOSURE
INHALATION of vapor or spray mist.
EYE or SKIN contact with the product, vapor or spray mist.

HMIS Codes

Health	2*
Flammability	2
Reactivity	0

EFFECTS OF OVEREXPOSURE
EYES: Irritation.
SKIN: Prolonged or repeated exposure may cause irritation.
INHALATION: Irritation of the upper respiratory system.

May cause nervous system depression. Extreme overexposure may result in unconsciousness and possibly death.
Prolonged overexposure to solvent ingredients in Section 2 may cause adverse effects to the liver and urinary systems.

SIGNS AND SYMPTOMS OF OVEREXPOSURE
Headache, dizziness, nausea, and loss of coordination are indications of excessive exposure to vapors or spray mists.
Redness and itching or burning sensation may indicate eye or excessive skin exposure.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE
None generally recognized.

CANCER INFORMATION
For complete discussion of toxicology data refer to Section 11.

SECTION 4 — FIRST AID MEASURES

EYES: Flush eyes with large amounts of water for 15 minutes. Get medical attention.
SKIN: Wash affected area thoroughly with soap and water.
Remove contaminated clothing and launder before re-use.
INHALATION: If affected, remove from exposure. Restore breathing. Keep warm and quiet.
INGESTION: Do not induce vomiting. Get medical attention immediately.

SECTION 5 — FIRE FIGHTING MEASURES

FLASH POINT	LEL	UEL	FLAMMABILITY CLASSIFICATION
101° F PMCC	1.0	6.0	Combustible, Flash above 99 and below 200° F

EXTINGUISHING MEDIA
Carbon Dioxide, Dry Chemical, Foam
UNUSUAL FIRE AND EXPLOSION HAZARDS
Closed containers may explode when exposed to extreme heat.
Application to hot surfaces requires special precautions.
During emergency conditions overexposure to decomposition products may cause a health hazard. Symptoms may not be immediately apparent. Obtain medical attention.
SPECIAL FIRE FIGHTING PROCEDURES
Full protective equipment including self-contained breathing apparatus should be used.
Water spray may be ineffective. If water is used, fog nozzles are preferable. Water may be used to cool closed containers to prevent pressure build-up and possible autoignition or explosion when exposed to extreme heat.

SECTION 6 — ACCIDENTAL RELEASE MEASURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED
- Remove all sources of ignition. Ventilate the area.
- Remove with inert absorbent.

SECTION 7 — HANDLING AND STORAGE

STORAGE CATEGORY
DOL Storage Class II
PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE
Contents are COMBUSTIBLE. Keep away from heat and open flame.
Consult NFPA Code. Use approved Bonding and Grounding procedures.
Keep container closed when not in use. Transfer only to approved containers with complete and appropriate labeling. Do not take internally. Keep out of the reach of children.

SECTION 8 — EXPOSURE CONTROLS/PERSONAL PROTECTION

PRECAUTIONS TO BE TAKEN IN USE
Use only with adequate ventilation.
Avoid contact with skin and eyes. Avoid breathing vapor and spray mist.
Wash hands after using.
This coating may contain materials classified as nuisance particulates (listed "as Dust" in Section 2) which may be present at hazardous levels only during sanding or abrading of the dried film. If no specific dusts are listed in Section 2, the applicable limits for nuisance dusts are ACGIH TLV 10 mg/m3 (total dust), 3 mg/m3 (respirable fraction), OSHA PEL 15 mg/m3 (total dust), 5 mg/m3 (respirable fraction).
VENTILATION
Local exhaust preferable. General exhaust acceptable if the exposure to materials in Section 2 is maintained below applicable exposure limits. Refer to OSHA Standards 1910.94, 1910.107, 1910.108.
RESPIRATORY PROTECTION
If personal exposure cannot be controlled below applicable limits by ventilation, wear a properly fitted organic vapor/particulate respirator approved by NIOSH/MSHA for protection against materials in Section 2.
When sanding or abrading the dried film, wear a dust/mist respirator approved by NIOSH/MSHA for dust which may be generated from this product, underlying paint, or the abrasive.
PROTECTIVE GLOVES
Wear gloves which are recommended by glove supplier for protection against materials in Section 2.
EYE PROTECTION
Wear safety spectacles with unperforated sideshields.
OTHER PRECAUTIONS
Intentional misuse by deliberately concentrating and inhaling the contents can be harmful or fatal.

SECTION 9 — PHYSICAL AND CHEMICAL PROPERTIES

PRODUCT WEIGHT	8.83 lb/gal	1057 g/l
SPECIFIC GRAVITY	1.06	
BOILING POINT	300 - 395° F	148 - 201° C
MELTING POINT	Not Available	
VOLATILE VOLUME	57%	
EVAPORATION RATE	Slower than ether	
VAPOR DENSITY	Heavier than air	
SOLUBILITY IN WATER	N.A.	

VOLATILE ORGANIC COMPOUNDS (VOC Theoretical - As Packaged)

3.67lb/gal	440g/l	Less Water and Federally Exempt Solvents
3.67lb/gal	440g/l	Emitted VOC

SECTION 10 — STABILITY AND REACTIVITY

STABILITY — Stable

CONDITIONS TO AVOID

None known.

INCOMPATIBILITY

None known.

HAZARDOUS DECOMPOSITION PRODUCTS

By fire: Carbon Dioxide, Carbon Monoxide

HAZARDOUS POLYMERIZATION

Will not occur

SECTION 11 — TOXICOLOGICAL INFORMATION

CHRONIC HEALTH HAZARDS

Reports have associated repeated and prolonged overexposure to solvents with permanent brain and nervous system damage.

Ethylbenzene is classified by IARC as possibly carcinogenic to humans (2B) based on inadequate evidence in humans and sufficient evidence in laboratory animals. Lifetime inhalation exposure of rats and mice to high ethylbenzene concentrations resulted in increases in certain types of cancer, including kidney tumors in rats and lung and liver tumors in mice. These effects were not observed in animals exposed to lower concentrations. There is no evidence that ethylbenzene causes cancer in humans.

IARC's Monograph No. 93 reports there is sufficient evidence of carcinogenicity in experimental rats exposed to titanium dioxide but inadequate evidence for carcinogenicity in humans and has assigned a Group 2B rating. In addition, the IARC summary concludes, "No significant exposure to titanium dioxide is thought to occur during the use of products in which titanium is bound to other materials, such as paint."

TOXICOLOGY DATA

CAS No.	Ingredient Name			
64742-88-7	**Mineral Spirits**			
		LC50 RAT	4HR	Not Available
		LD50 RAT		Not Available
100-41-4	**Ethylbenzene**			
		LC50 RAT	4HR	Not Available
		LD50 RAT		3500 mg/kg
14807-96-6	**Talc**			
		LC50 RAT	4HR	Not Available
		LD50 RAT		Not Available
13463-67-7	**Titanium Dioxide**			
		LC50 RAT	4HR	Not Available
		LD50 RAT		Not Available

SECTION 12 — ECOLOGICAL INFORMATION

ECOTOXICOLOGICAL INFORMATION

No data available.

SECTION 13 — DISPOSAL CONSIDERATIONS

WASTE DISPOSAL METHOD

Waste from this product may be hazardous as defined under the Resource Conservation and Recovery Act (RCRA) 40 CFR 261.

Waste must be tested for ignitability to determine the applicable EPA hazardous waste numbers.

Incinerate in approved facility. Do not incinerate closed container. Dispose of in accordance with Federal, State/Provincial, and Local regulations regarding pollution.

SECTION 14 — TRANSPORT INFORMATION

US Ground (DOT)
May be Classed as a Combustible Liquid for U.S. Ground.
UN1263, PAINT, 3, PG III, (ERG#128)
DOT (Dept of Transportation) Hazardous Substances & Reportable Quantities
Xylenes (isomers and mixture) 100 lb RQ
Bulk Containers may be Shipped as (check reportable quantities):
UN1263, PAINT, COMBUSTIBLE LIQUID, PG III, (ERG#128)
Canada (TDG)
May be Classed as a Combustible Liquid for Canadian Ground.
UN1263, PAINT, CLASS 3, PG III, (ERG#128)
IMO
UN1263, PAINT, CLASS 3, PG III, (38 C c.c.), EmS F-E, S-E

SECTION 15 — REGULATORY INFORMATION

SARA 313 *(40 CFR 372.65C)* SUPPLIER NOTIFICATION

CAS No.	CHEMICAL/COMPOUND	% by WT	% Element
100-41-4	Ethylbenzene	0.1	

CALIFORNIA PROPOSITION 65
WARNING: This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.
TSCA CERTIFICATION
All chemicals in this product are listed, or are exempt from listing, on the TSCA Inventory.

SECTION 16 — OTHER INFORMATION

This product has been classified in accordance with the hazard criteria of the Canadian Controlled Products Regulations (CPR) and the MSDS contains all of the information required by the CPR.

The above information pertains to this product as currently formulated, and is based on the information available at this time. Addition of reducers or other additives to this product may substantially alter the composition and hazards of the product. Since conditions of use are outside our control, we make no warranties, express or implied, and assume no liability in connection with any use of this information.

MATERIAL SAFETY DATA SHEET

B62WZ113
07 00

DATE OF PREPARATION
Mar 5, 2009

SECTION 1 — PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NUMBER
B62WZ113

PRODUCT NAME
TILE-CLAD® HS High Solids Epoxy (Part A), Deep Base

MANUFACTURER'S NAME
THE SHERWIN-WILLIAMS COMPANY
101 Prospect Avenue N.W.
Cleveland, OH 44115

Telephone Numbers and Websites

Product Information	www.sherwin-williams.com
Regulatory Information	(216) 566-2902 www.paintdocs.com
Medical Emergency	(216) 566-2917
Transportation Emergency*	(800) 424-9300
**for Chemical Emergency ONLY (spill, leak, fire, exposure, or accident)*	

SECTION 2 — COMPOSITION/INFORMATION ON INGREDIENTS

% by Weight	CAS Number	Ingredient	Units	Vapor Pressure
2	100-41-4	**Ethylbenzene**		
		ACGIH TLV	100 PPM	7.1 mm
		ACGIH TLV	125 PPM STEL	
		OSHA PEL	100 PPM	
		OSHA PEL	125 PPM STEL	
11	1330-20-7	**Xylene**		
		ACGIH TLV	100 PPM	5.9 mm
		ACGIH TLV	150 PPM STEL	
		OSHA PEL	100 PPM	
		OSHA PEL	150 PPM STEL	
2	64742-95-6	**Light Aromatic Hydrocarbons**		
		ACGIH TLV	Not Available	3.8 mm
		OSHA PEL	Not Available	
3	95-63-6	**1,2,4-Trimethylbenzene**		
		ACGIH TLV	25 PPM	2.03 mm
		OSHA PEL	25 PPM	
1	71-36-3	**1-Butanol**		
		ACGIH TLV	20 PPM	5.5 mm
		OSHA PEL	50 PPM (Skin) CEILING	
5	107-98-2	**1-Methoxy-2-propanol**		
		ACGIH TLV	100 PPM	10.9 mm
		ACGIH TLV	150 PPM STEL	
		OSHA PEL	100 PPM	
		OSHA PEL	150 PPM STEL	
3	111-76-2	**2-Butoxyethanol**		
		ACGIH TLV	20 PPM	0.88 mm
		OSHA PEL	25 PPM	
28	68410-23-1	**Polyamide**		
		ACGIH TLV	Not Available	
		OSHA PEL	Not Available	
7	14807-96-6	**Talc**		
		ACGIH TLV	2 mg/m3 as Resp. Dust	
		OSHA PEL	2 mg/m3 as Resp. Dust	
20	13463-67-7	**Titanium Dioxide**		
		ACGIH TLV	10 mg/m3 as Dust	
		OSHA PEL	10 mg/m3 Total Dust	
		OSHA PEL	5 mg/m3 Respirable Fraction	

SECTION 3 — HAZARDS IDENTIFICATION

HMIS Codes

Health	3*
Flammability	3
Reactivity	0

ROUTES OF EXPOSURE

INHALATION of vapor or spray mist.
EYE or SKIN contact with the product, vapor or spray mist.

EFFECTS OF OVEREXPOSURE

EYES: Irritation.
SKIN: Prolonged or repeated exposure may cause irritation.
INHALATION: Irritation of the upper respiratory system.

May cause nervous system depression. Extreme overexposure may result in unconsciousness and possibly death.
Prolonged overexposure to solvent ingredients in Section 2 may cause adverse effects to the liver, urinary, blood forming and reproductive systems.

SIGNS AND SYMPTOMS OF OVEREXPOSURE

Headache, dizziness, nausea, and loss of coordination are indications of excessive exposure to vapors or spray mists.
Redness and itching or burning sensation may indicate eye or excessive skin exposure.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE

May cause allergic skin reaction in susceptible persons or skin sensitization.

CANCER INFORMATION

For complete discussion of toxicology data refer to Section 11.

SECTION 4 — FIRST AID MEASURES

EYES: Flush eyes with large amounts of water for 15 minutes. Get medical attention.
SKIN: Wash affected area thoroughly with soap and water.
If irritation persists or occurs later, get medical attention.
Remove contaminated clothing and launder before re-use.
INHALATION: If affected, remove from exposure. Restore breathing. Keep warm and quiet.
INGESTION: Do not induce vomiting. Get medical attention immediately.

SECTION 5 — FIRE FIGHTING MEASURES

FLASH POINT	LEL	UEL	FLAMMABILITY CLASSIFICATION
80 °F PMCC	0.7	13.7	RED LABEL -- Flammable, Flash below 100 °F (38 °C)

EXTINGUISHING MEDIA

Carbon Dioxide, Dry Chemical, Foam

UNUSUAL FIRE AND EXPLOSION HAZARDS

Closed containers may explode when exposed to extreme heat.
Application to hot surfaces requires special precautions.
During emergency conditions overexposure to decomposition products may cause a health hazard. Symptoms may not be immediately apparent. Obtain medical attention.

SPECIAL FIRE FIGHTING PROCEDURES

Full protective equipment including self-contained breathing apparatus should be used.
Water spray may be ineffective. If water is used, fog nozzles are preferable. Water may be used to cool closed containers to prevent pressure build-up and possible autoignition or explosion when exposed to extreme heat.

SECTION 6 — ACCIDENTAL RELEASE MEASURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED

- Remove all sources of ignition. Ventilate the area.
- Remove with inert absorbent.

SECTION 7 — HANDLING AND STORAGE

STORAGE CATEGORY

DOL Storage Class IC

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE

Contents are FLAMMABLE. Keep away from heat, sparks, and open flame.
During use and until all vapors are gone: Keep area ventilated - Do not smoke - Extinguish all flames, pilot lights, and heaters - Turn off stoves, electric tools and appliances, and any other sources of ignition.
Consult NFPA Code. Use approved Bonding and Grounding procedures.
Keep container closed when not in use. Transfer only to approved containers with complete and appropriate labeling. Do not take internally. Keep out of the reach of children.

SECTION 8 — EXPOSURE CONTROLS/PERSONAL PROTECTION

PRECAUTIONS TO BE TAKEN IN USE

Use only with adequate ventilation.

Avoid contact with skin and eyes. Avoid breathing vapor and spray mist.

Wash hands after using.

This coating may contain materials classified as nuisance particulates (listed "as Dust" in Section 2) which may be present at hazardous levels only during sanding or abrading of the dried film. If no specific dusts are listed in Section 2, the applicable limits for nuisance dusts are ACGIH TLV 10 mg/m3 (total dust), 3 mg/m3 (respirable fraction), OSHA PEL 15 mg/m3 (total dust), 5 mg/m3 (respirable fraction).

VENTILATION

Local exhaust preferable. General exhaust acceptable if the exposure to materials in Section 2 is maintained below applicable exposure limits. Refer to OSHA Standards 1910.94, 1910.107, 1910.108.

RESPIRATORY PROTECTION

If personal exposure cannot be controlled below applicable limits by ventilation, wear a properly fitted organic vapor/particulate respirator approved by NIOSH/MSHA for protection against materials in Section 2.

When sanding or abrading the dried film, wear a dust/mist respirator approved by NIOSH/MSHA for dust which may be generated from this product, underlying paint, or the abrasive.

PROTECTIVE GLOVES

Wear gloves which are recommended by glove supplier for protection against materials in Section 2.

EYE PROTECTION

Wear safety spectacles with unperforated sideshields.

OTHER PROTECTIVE EQUIPMENT

Use of barrier cream on exposed skin is recommended.

OTHER PRECAUTIONS

This product must be mixed with other components before use. Before opening the packages, READ AND FOLLOW WARNING LABELS ON ALL COMPONENTS.

Intentional misuse by deliberately concentrating and inhaling the contents can be harmful or fatal.

SECTION 9 — PHYSICAL AND CHEMICAL PROPERTIES

PRODUCT WEIGHT	10.72 lb/gal	1284 g/l
SPECIFIC GRAVITY	1.29	
BOILING POINT	243 - 360 °F	117 - 182 °C
MELTING POINT	Not Available	
VOLATILE VOLUME	43%	
EVAPORATION RATE	Slower than ether	
VAPOR DENSITY	Heavier than air	
SOLUBILITY IN WATER	N.A.	

VOLATILE ORGANIC COMPOUNDS (VOC Theoretical - As Packaged)

3.14lb/gal	376g/l	Less Water and Federally Exempt Solvents
3.14lb/gal	376g/l	Emitted VOC

SECTION 10 — STABILITY AND REACTIVITY

STABILITY — Stable

CONDITIONS TO AVOID

None known.

INCOMPATIBILITY

None known.

HAZARDOUS DECOMPOSITION PRODUCTS

By fire: Carbon Dioxide, Carbon Monoxide

HAZARDOUS POLYMERIZATION

Will not occur

SECTION 11 — TOXICOLOGICAL INFORMATION

CHRONIC HEALTH HAZARDS

Reports have associated repeated and prolonged overexposure to solvents with permanent brain and nervous system damage.

Ethylbenzene is classified by IARC as possibly carcinogenic to humans (2B) based on inadequate evidence in humans and sufficient evidence in laboratory animals. Lifetime inhalation exposure of rats and mice to high ethylbenzene concentrations resulted in increases in certain types of cancer, including kidney tumors in rats and lung and liver tumors in mice. These effects were not observed in animals exposed to lower concentrations. There is no evidence that ethylbenzene causes cancer in humans.

IARC's Monograph No. 93 reports there is sufficient evidence of carcinogenicity in experimental rats exposed to titanium dioxide but inadequate evidence for carcinogenicity in humans and has assigned a Group 2B rating. In addition, the IARC summary concludes, "No significant exposure to titanium dioxide is thought to occur during the use of products in which titanium is bound to other materials, such as paint."

TOXICOLOGY DATA

CAS No.	Ingredient Name			
100-41-4	**Ethylbenzene**			
		LC50 RAT	4HR	Not Available
		LD50 RAT		3500 mg/kg
1330-20-7	**Xylene**			
		LC50 RAT	4HR	5000 ppm
		LD50 RAT		4300 mg/kg
64742-95-6	**Light Aromatic Hydrocarbons**			
		LC50 RAT	4HR	Not Available
		LD50 RAT		Not Available
95-63-6	**1,2,4-Trimethylbenzene**			
		LC50 RAT	4HR	Not Available
		LD50 RAT		Not Available
71-36-3	**1-Butanol**			
		LC50 RAT	4HR	8000 ppm
		LD50 RAT		790 mg/kg
107-98-2	**1-Methoxy-2-propanol**			
		LC50 RAT	4HR	Not Available
		LD50 RAT		6600. mg/kg
111-76-2	**2-Butoxyethanol**			
		LC50 RAT	4HR	Not Available
		LD50 RAT		470 mg/kg
68410-23-1	**Polyamide**			
		LC50 RAT	4HR	Not Available
		LD50 RAT		Not Available
14807-96-6	**Talc**			
		LC50 RAT	4HR	Not Available
		LD50 RAT		Not Available
13463-67-7	**Titanium Dioxide**			
		LC50 RAT	4HR	Not Available
		LD50 RAT		Not Available

SECTION 12 — ECOLOGICAL INFORMATION

ECOTOXICOLOGICAL INFORMATION

No data available.

SECTION 13 — DISPOSAL CONSIDERATIONS

WASTE DISPOSAL METHOD

Waste from this product may be hazardous as defined under the Resource Conservation and Recovery Act (RCRA) 40 CFR 261.
Waste must be tested for ignitability to determine the applicable EPA hazardous waste numbers.
Incinerate in approved facility. Do not incinerate closed container. Dispose of in accordance with Federal, State/Provincial, and Local regulations regarding pollution.

SECTION 14 — TRANSPORT INFORMATION

US Ground (DOT)

1 Gallon and Less may be Classed as CONSUMER COMMODITY, ORM-D
Larger Containers are Regulated as:
UN1263, PAINT, 3, PG III, (ERG#128)

DOT (Dept of Transportation) Hazardous Substances & Reportable Quantities

Xylenes (isomers and mixture) 100 lb RQ

Bulk Containers may be Shipped as (check reportable quantities):

RQ, UN1263, PAINT, 3, PG III, (XYLENES (ISOMERS AND MIXTURE)), (ERG#128)

Canada (TDG)

UN1263, PAINT, CLASS 3, PG III, LIMITED QUANTITY, (ERG#128)

IMO

UN1263, PAINT, CLASS 3, PG III, (27 C c.c.), EmS F-E, S-E

SECTION 15 — REGULATORY INFORMATION

SARA 313 *(40 CFR 372.65C)* SUPPLIER NOTIFICATION

CAS No.	CHEMICAL/COMPOUND	% by WT	% Element
100-41-4	Ethylbenzene	2	
1330-20-7	Xylene	11	
95-63-6	1,2,4-Trimethylbenzene	3	
71-36-3	1-Butanol	1	
	Glycol Ethers	3	

CALIFORNIA PROPOSITION 65

WARNING: This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.

TSCA CERTIFICATION

All chemicals in this product are listed, or are exempt from listing, on the TSCA Inventory.

SECTION 16 — OTHER INFORMATION

This product has been classified in accordance with the hazard criteria of the Canadian Controlled Products Regulations (CPR) and the MSDS contains all of the information required by the CPR.

The above information pertains to this product as currently formulated, and is based on the information available at this time. Addition of reducers or other additives to this product may substantially alter the composition and hazards of the product. Since conditions of use are outside our control, we make no warranties, express or implied, and assume no liability in connection with any use of this information.

MATERIAL SAFETY DATA SHEET

B60VZ70
02 00

DATE OF PREPARATION
Mar 2, 2009

SECTION 1 — PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NUMBER
B60VZ70
PRODUCT NAME
TILE-CLAD® High Solids Enamel (Part B), Hardener
MANUFACTURER'S NAME
THE SHERWIN-WILLIAMS COMPANY
101 Prospect Avenue N.W.
Cleveland, OH 44115

Telephone Numbers and Websites

Product Information	www.sherwin-williams.com
Regulatory Information	(216) 566-2902 www.paintdocs.com
Medical Emergency	(216) 566-2917
Transportation Emergency*	(800) 424-9300
**for Chemical Emergency ONLY (spill, leak, fire, exposure, or accident)*	

SECTION 2 — COMPOSITION/INFORMATION ON INGREDIENTS

% by Weight	CAS Number	Ingredient	Units	Vapor Pressure
3	**100-41-4**	**Ethylbenzene**		
		ACGIH TLV	100 PPM	7.1 mm
		ACGIH TLV	125 PPM STEL	
		OSHA PEL	100 PPM	
		OSHA PEL	125 PPM STEL	
19	**1330-20-7**	**Xylene**		
		ACGIH TLV	100 PPM	5.9 mm
		ACGIH TLV	150 PPM STEL	
		OSHA PEL	100 PPM	
		OSHA PEL	150 PPM STEL	
3	**64742-95-6**	**Light Aromatic Hydrocarbons**		
		ACGIH TLV	Not Available	3.8 mm
		OSHA PEL	Not Available	
4	**108-67-8**	**1,3,5-Trimethylbenzene**		
		ACGIH TLV	25 PPM	2 mm
		OSHA PEL	25 PPM	
5	**95-63-6**	**1,2,4-Trimethylbenzene**		
		ACGIH TLV	25 PPM	2.03 mm
		OSHA PEL	25 PPM	
65	**Proprietary**	**Epoxy Polymer**		
		ACGIH TLV	Not Available	
		OSHA PEL	Not Available	

SECTION 3 — HAZARDS IDENTIFICATION

ROUTES OF EXPOSURE
INHALATION of vapor or spray mist.
EYE or SKIN contact with the product, vapor or spray mist.
EFFECTS OF OVEREXPOSURE
EYES: Irritation.
SKIN: Prolonged or repeated exposure may cause irritation.
INHALATION: Irritation of the upper respiratory system.

May cause nervous system depression. Extreme overexposure may result in unconsciousness and possibly death.
Prolonged overexposure to solvent ingredients in Section 2 may cause adverse effects to the liver, urinary and reproductive systems.
SIGNS AND SYMPTOMS OF OVEREXPOSURE
Headache, dizziness, nausea, and loss of coordination are indications of excessive exposure to vapors or spray mists.

HMIS Codes

Health	2*
Flammability	3
Reactivity	0

Redness and itching or burning sensation may indicate eye or excessive skin exposure.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE

May cause allergic skin reaction in susceptible persons or skin sensitization.

CANCER INFORMATION

For complete discussion of toxicology data refer to Section 11.

SECTION 4 — FIRST AID MEASURES

EYES: Flush eyes with large amounts of water for 15 minutes. Get medical attention.
SKIN: Wash affected area thoroughly with soap and water.
If irritation persists or occurs later, get medical attention.
Remove contaminated clothing and launder before re-use.
INHALATION: If affected, remove from exposure. Restore breathing. Keep warm and quiet.
INGESTION: Do not induce vomiting. Get medical attention immediately.

SECTION 5 — FIRE FIGHTING MEASURES

FLASH POINT	LEL	UEL	FLAMMABILITY CLASSIFICATION
82° F PMCC	0.7	7.0	RED LABEL -- Flammable, Flash below 100° F (38 °C)

EXTINGUISHING MEDIA

Carbon Dioxide, Dry Chemical, Foam

UNUSUAL FIRE AND EXPLOSION HAZARDS

Closed containers may explode when exposed to extreme heat.
Application to hot surfaces requires special precautions.
During emergency conditions overexposure to decomposition products may cause a health hazard. Symptoms may not be immediately apparent. Obtain medical attention.

SPECIAL FIRE FIGHTING PROCEDURES

Full protective equipment including self-contained breathing apparatus should be used.
Water spray may be ineffective. If water is used, fog nozzles are preferable. Water may be used to cool closed containers to prevent pressure build-up and possible autoignition or explosion when exposed to extreme heat.

SECTION 6 — ACCIDENTAL RELEASE MEASURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED

- Remove all sources of ignition. Ventilate the area.
- Remove with inert absorbent.

SECTION 7 — HANDLING AND STORAGE

STORAGE CATEGORY

DOL Storage Class IC

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE

Contents are FLAMMABLE. Keep away from heat, sparks, and open flame.
During use and until all vapors are gone: Keep area ventilated - Do not smoke - Extinguish all flames, pilot lights, and heaters - Turn off stoves, electric tools and appliances, and any other sources of ignition.
Consult NFPA Code. Use approved Bonding and Grounding procedures.
Keep container closed when not in use. Transfer only to approved containers with complete and appropriate labeling. Do not take internally. Keep out of the reach of children.

SECTION 8 — EXPOSURE CONTROLS/PERSONAL PROTECTION

PRECAUTIONS TO BE TAKEN IN USE

Use only with adequate ventilation.
Avoid contact with skin and eyes. Avoid breathing vapor and spray mist.
Wash hands after using.
This coating may contain materials classified as nuisance particulates (listed "as Dust" in Section 2) which may be present at hazardous levels only during sanding or abrading of the dried film. If no specific dusts are listed in Section 2, the applicable limits for nuisance dusts are ACGIH TLV 10 mg/m3 (total dust), 3 mg/m3 (respirable fraction), OSHA PEL 15 mg/m3 (total dust), 5 mg/m3 (respirable fraction).

VENTILATION

Local exhaust preferable. General exhaust acceptable if the exposure to materials in Section 2 is maintained below applicable exposure limits. Refer to OSHA Standards 1910.94, 1910.107, 1910.108.

RESPIRATORY PROTECTION

If personal exposure cannot be controlled below applicable limits by ventilation, wear a properly fitted organic vapor/particulate respirator approved by NIOSH/MSHA for protection against materials in Section 2.
When sanding or abrading the dried film, wear a dust/mist respirator approved by NIOSH/MSHA for dust which may be generated from this product, underlying paint, or the abrasive.

PROTECTIVE GLOVES

Wear gloves which are recommended by glove supplier for protection against materials in Section 2.

EYE PROTECTION
Wear safety spectacles with unperforated sideshields.
OTHER PROTECTIVE EQUIPMENT
Use of barrier cream on exposed skin is recommended.
OTHER PRECAUTIONS
This product must be mixed with other components before use. Before opening the packages, READ AND FOLLOW WARNING LABELS ON ALL COMPONENTS.
Intentional misuse by deliberately concentrating and inhaling the contents can be harmful or fatal.

SECTION 9 — PHYSICAL AND CHEMICAL PROPERTIES

PRODUCT WEIGHT	8.75 lb/gal	1048 g/l
SPECIFIC GRAVITY	1.05	
BOILING POINT	277 - 360° F	136 - 182° C
MELTING POINT	Not Available	
VOLATILE VOLUME	42%	
EVAPORATION RATE	Slower than ether	
VAPOR DENSITY	Heavier than air	
SOLUBILITY IN WATER	N.A.	

VOLATILE ORGANIC COMPOUNDS (VOC Theoretical - As Packaged)

3.06lb/gal	366g/l	Less Water and Federally Exempt Solvents
3.06lb/gal	366g/l	Emitted VOC

SECTION 10 — STABILITY AND REACTIVITY

STABILITY — Stable
CONDITIONS TO AVOID
None known.
INCOMPATIBILITY
None known.
HAZARDOUS DECOMPOSITION PRODUCTS
By fire: Carbon Dioxide, Carbon Monoxide
HAZARDOUS POLYMERIZATION
Will not occur

SECTION 11 — TOXICOLOGICAL INFORMATION

CHRONIC HEALTH HAZARDS
Reports have associated repeated and prolonged overexposure to solvents with permanent brain and nervous system damage.
Ethylbenzene is classified by IARC as possibly carcinogenic to humans (2B) based on inadequate evidence in humans and sufficient evidence in laboratory animals. Lifetime inhalation exposure of rats and mice to high ethylbenzene concentrations resulted in increases in certain types of cancer, including kidney tumors in rats and lung and liver tumors in mice. These effects were not observed in animals exposed to lower concentrations. There is no evidence that ethylbenzene causes cancer in humans.
TOXICOLOGY DATA

CAS No.	Ingredient Name			
100-41-4	**Ethylbenzene**			
		LC50 RAT	4HR	Not Available
		LD50 RAT		3500 mg/kg
1330-20-7	**Xylene**			
		LC50 RAT	4HR	5000 ppm
		LD50 RAT		4300 mg/kg
64742-95-6	**Light Aromatic Hydrocarbons**			
		LC50 RAT	4HR	Not Available
		LD50 RAT		Not Available
108-67-8	**1,3,5-Trimethylbenzene**			
		LC50 RAT	4HR	Not Available
		LD50 RAT		Not Available
95-63-6	**1,2,4-Trimethylbenzene**			
		LC50 RAT	4HR	Not Available
		LD50 RAT		Not Available
Proprietary	**Epoxy Polymer**			
		LC50 RAT	4HR	Not Available
		LD50 RAT		Not Available

SECTION 12 — ECOLOGICAL INFORMATION

ECOTOXICOLOGICAL INFORMATION
No data available.

SECTION 13 — DISPOSAL CONSIDERATIONS

WASTE DISPOSAL METHOD

Waste from this product may be hazardous as defined under the Resource Conservation and Recovery Act (RCRA) 40 CFR 261.
Waste must be tested for ignitability to determine the applicable EPA hazardous waste numbers.
Incinerate in approved facility. Do not incinerate closed container. Dispose of in accordance with Federal, State/Provincial, and Local regulations regarding pollution.

SECTION 14 — TRANSPORT INFORMATION

US Ground (DOT)

1 Gallon and Less may be Classed as CONSUMER COMMODITY, ORM-D
Larger Containers are Regulated as:
UN1263, PAINT RELATED MATERIAL, 3, PG III, (ERG#128)

DOT (Dept of Transportation) Hazardous Substances & Reportable Quantities

Ethyl benzene 1000 lb RQ
Xylenes (isomers and mixture) 100 lb RQ

Bulk Containers may be Shipped as (check reportable quantities):

RQ, UN1263, PAINT RELATED MATERIAL, 3, PG III, (XYLENES (ISOMERS AND MIXTURE)), (ERG#128)

Canada (TDG)

UN1263, PAINT RELATED MATERIAL, CLASS 3, PG III, LIMITED QUANTITY, (ERG#128)

IMO

UN1263, PAINT RELATED MATERIAL, CLASS 3, PG III, (28 C c.c.), EmS F-E, S-E

SECTION 15 — REGULATORY INFORMATION

SARA 313 *(40 CFR 372.65C)* SUPPLIER NOTIFICATION

CAS No.	CHEMICAL/COMPOUND	% by WT	% Element
100-41-4	Ethylbenzene	3	
1330-20-7	Xylene	19	
95-63-6	1,2,4-Trimethylbenzene	5	

CALIFORNIA PROPOSITION 65

WARNING: This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.

TSCA CERTIFICATION

All chemicals in this product are listed, or are exempt from listing, on the TSCA Inventory.

SECTION 16 — OTHER INFORMATION

This product has been classified in accordance with the hazard criteria of the Canadian Controlled Products Regulations (CPR) and the MSDS contains all of the information required by the CPR.

The above information pertains to this product as currently formulated, and is based on the information available at this time. Addition of reducers or other additives to this product may substantially alter the composition and hazards of the product. Since conditions of use are outside our control, we make no warranties, express or implied, and assume no liability in connection with any use of this information.

MATERIAL SAFETY DATA SHEET

C19967
01 00

Section 1 -- PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NUMBER

C19967

HMIS CODES

Health	2*
Flammability	4
Reactivity	0

PRODUCT NAME
QS GLOSS BLACK ENAMEL

MANUFACTURER'S NAME
SHEFFIELD BRONZE PAINT CORP.
17814 South Waterloo Road
Cleveland, OH 44119

EMERGENCY TELEPHONE NO.
216-481-8330

DATE OF PREPARATION
30-AUGUST-07

INFORMATION TELEPHONE NO.
216-481-8330

Section 2 -- COMPOSITION/INFORMATION ON INGREDIENTS

% by WT	CAS No.	INGREDIENT			UNITS	VAPOR PRESSURE
14	74-98-6	Propane				
			ACGIH TLV	2500	ppm	760 mm
			OSHA PEL	1000	ppm	
13	106-97-8	Butane				
			ACGIH TLV	800	ppm	760 mm
			OSHA PEL	800	ppm	
21	108-88-3	Toluene				
			ACGIH TLV	50	ppm (skin)	22 mm
			OSHA PEL	100	ppm (skin)	
			OSHA PEL	150	ppm (skin) STEL	
0.1	100-41-4	Ethylbenzene				
			ACGIH TLV	100	ppm	7.1 mm
			ACGIH TLV	125	ppm STEL	
			OSHA PEL	100	ppm	
			OSHA PEL	125	ppm STEL	
36	67-64-1	Acetone				
			ACGIH TLV	500	ppm	180 mm
			ACGIH TLV	750	ppm STEL	
			OSHA PEL	1000	ppm	
2	763-69-9	Ethyl 3-Ethoxypropionate				
			ACGIH TLV	Not Available		1.11 mm
			OSHA PEL	Not Available		
0.7	1333-86-4	Carbon Black				
			ACGIH TLV	3.5	mg/m3	
			OSHA PEL	3.5	mg/m3	

Section 3 -- HAZARDS IDENTIFICATION

ROUTES OF EXPOSURE

Exposure may be by INHALATION and/or SKIN or EYE contact, depending on conditions of use. To minimize exposure, follow recommendations for proper use, ventilation, and personal protective equipment.

Continued on page 2

EFFECTS OF OVEREXPOSURE

Irritation of eyes, skin and upper respiratory system.

May cause nervous system depression. Extreme overexposure may result in unconsciousness and possibly death.

SIGNS AND SYMPTOMS OF OVEREXPOSURE

Headache, dizziness, nausea, and loss of coordination are indications of excessive exposure to vapors or spray mists.

Redness and itching or burning sensation may indicate eye or excessive skin exposure.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE

None generally recognized.

CANCER INFORMATION

For complete discussion of toxicology data refer to Section 11.

Section 4 -- FIRST AID MEASURES

If INHALED:	If affected, remove from exposure. Restore breathing. Keep warm and quiet.
If on SKIN:	Wash affected area thoroughly with soap and water. Remove contaminated clothing and launder before re-use.
If in EYES:	Flush eyes with large amounts of water for 15 minutes. Get medical attention.
If SWALLOWED:	Do not induce vomiting. Get medical attention immediately.

Section 5 -- FIRE FIGHTING MEASURES

FLASH POINT	LEL	UEL
Propellant < 0 F	1.0	12.8

EXTINGUISHING MEDIA

Carbon Dioxide, Dry Chemical, Foam

UNUSUAL FIRE AND EXPLOSION HAZARDS

Containers may explode when exposed to extreme heat.

Application to hot surfaces requires special precautions.

During emergency conditions overexposure to decomposition products may cause a health hazard. Symptoms may not be immediately apparent. Obtain medical attention.

SPECIAL FIRE FIGHTING PROCEDURES

Full protective equipment including self-contained breathing apparatus should be used.

Water spray may be ineffective. If water is used, fog nozzles are preferable. Water may be used to cool closed containers to prevent pressure build-up and possible autoignition or explosion when exposed to extreme heat.

Section 6 -- ACCIDENTAL RELEASE MEASURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED

Remove all sources of ignition. Ventilate the area.

Remove with inert absorbent.

Continued on page 3

Section 7 -- HANDLING AND STORAGE

STORAGE CATEGORY

NFPA 30B Level 2 Aerosol

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE

Keep away from heat, sparks, and open flame. Vapors will accumulate readily and may ignite explosively.

During use and until all vapors are gone: Keep area ventilated - Do not smoke - Extinguish all flames, pilot lights, and heaters - Turn off stoves, electric tools and appliances, and any other sources of ignition.

Consult NFPA Code. Use approved Bonding and Grounding procedures.

Contents under pressure. Do not puncture, incinerate, or expose to temperature above 120F. Heat from sunlight, radiators, stoves, hot water, and other heat sources could cause container to burst. Do not take internally. Keep out of the reach of children.

Section 8 -- EXPOSURE CONTROLS/PERSONAL PROTECTION

PRECAUTIONS TO BE TAKEN IN USE

Use only with adequate ventilation.

Avoid contact with skin and eyes. Avoid breathing vapor and spray mist.

Wash hands after using.

This coating may contain materials classified as nuisance particulates (listed "as Dust" in Section 2) which may be present at hazardous levels only during sanding or abrading of the dried film. If no specific dusts are listed in Section 2, the applicable limits for nuisance dusts are ACGIH TLV 10 mg/m3 (total dust), 3 mg/m3 (respirable fraction), OSHA PEL 15 mg/m3 (total dust), 5 mg/m3 (respirable fraction).

Removal of old paint by sanding, scraping or other means may generate dust or fumes that contain lead. Exposure to lead dust or fumes may cause brain damage or other adverse health effects, especially in children or pregnant women. Controlling exposure to lead or other hazardous substances requires the use of proper protective equipment, such as a properly fitted respirator (NIOSH approved) and proper containment and cleanup. For more information, call the National Lead Information Center at 1-800-424-LEAD (in US) or contact your local health authority.

VENTILATION

Local exhaust preferable. General exhaust acceptable if the exposure to materials in Section 2 is maintained below applicable exposure limits. Refer to OSHA Standards 1910.94, 1910.107, 1910.108.

RESPIRATORY PROTECTION

If personal exposure cannot be controlled below applicable limits by ventilation, wear a properly fitted organic vapor/particulate respirator approved by NIOSH/MSHA for protection against materials in Section 2.

When sanding or abrading the dried film, wear a dust/mist respirator approved by NIOSH/MSHA for dust which may be generated from this product, underlying paint, or the abrasive.

PROTECTIVE GLOVES

None required for normal application of aerosol products where minimal skin contact is expected. For long or repeated contact, wear chemical resistant gloves.

EYE PROTECTION

Wear safety spectacles with unperforated sideshields.

Continued on page 4

OTHER PRECAUTIONS

Intentional misuse by deliberately concentrating and inhaling the contents can be harmful or fatal.

Section 9 -- PHYSICAL AND CHEMICAL PROPERTIES

PRODUCT WEIGHT	6.15 lb/gal	737 g/l
SPECIFIC GRAVITY	0.74	
BOILING POINT	<0 - 342 F	<-18 - 172 C
MELTING POINT	Not Available	
VOLATILE VOLUME	91 %	
EVAPORATION RATE	Faster than ether	
VAPOR DENSITY	Heavier than air	
SOLUBILITY IN WATER	N.A.	
pH	7.0	

VOLATILE ORGANIC COMPOUNDS (VOC Theoretical)
Volatile Weight 51.44 % Less Water and Federally Exempt Solvents

Section 10 -- STABILITY AND REACTIVITY

STABILITY -- Stable

CONDITIONS TO AVOID

None known.

INCOMPATIBILITY

None known.

HAZARDOUS DECOMPOSITION PRODUCTS

By fire: Carbon Dioxide, Carbon Monoxide

HAZARDOUS POLYMERIZATION

Will not occur

Section 11 -- TOXICOLOGICAL INFORMATION

CHRONIC HEALTH HAZARDS

Ethylbenzene is classified by IARC as possibly carcinogenic to humans (2B) based on inadequate evidence in humans and sufficient evidence in laboratory animals. Lifetime inhalation exposure of rats and mice to high ethylbenzene concentrations resulted in increases in certain types of cancer, including kidney tumors in rats and lung and liver tumors in mice. These effects were not observed in animals exposed to lower concentrations. There is no evidence that ethylbenzene causes cancer in humans.

Carbon Black is classified by IARC as possibly carcinogenic to humans (group 2B) based on experimental animal data, however, there is insufficient evidence in humans for its carcinogenicity.

Prolonged overexposure to solvent ingredients in Section 2 may cause adverse effects to the liver, urinary, cardiovascular and reproductive systems.

Reports have associated repeated and prolonged overexposure to solvents with permanent brain and nervous system damage.

TOXICOLOGY DATA

ontinued on page 5

CAS No.	Ingredient Name					
74-98-6	Propane					
		LC50	RAT	4HR	Not Available	
		LD50	RAT		Not Available	
106-97-8	Butane					
		LC50	RAT	4HR	Not Available	
		LD50	RAT		Not Available	
108-88-3	Toluene					
		LC50	RAT	4HR	4000	ppm
		LD50	RAT		5000	mg/kg
100-41-4	Ethylbenzene					
		LC50	RAT	4HR	Not Available	
		LD50	RAT		3500	mg/kg
67-64-1	Acetone					
		LC50	RAT	4HR	Not Available	
		LD50	RAT		5800	mg/kg
763-69-9	Ethyl 3-Ethoxypropionate					
		LC50	RAT	4HR	Not Available	
		LD50	RAT		5000	mg/kg
1333-86-4	Carbon Black					
		LC50	RAT	4HR	Not Available	
		LD50	RAT		Not Available	

Section 12 -- ECOLOGICAL INFORMATION

ECOTOXICOLOGICAL INFORMATION

No data available.

Section 13 -- DISPOSAL CONSIDERATIONS

WASTE DISPOSAL METHOD

Waste from this product may be hazardous as defined under the Resource Conservation and Recovery Act (RCRA) 40 CFR 261.

Waste must be tested for ignitability to determine the applicable EPA hazardous waste numbers.

Do not incinerate. Depressurize container. Dispose of in accordance with Federal, State/Provincial, and Local regulations regarding pollution.

Section 14 -- TRANSPORT INFORMATION

No data available.

Section 15 -- REGULATORY INFORMATION

SARA 313 (40 CFR 372.65C) SUPPLIER NOTIFICATION

CAS No.	CHEMICAL/COMPOUND	% by WT	% Element
108-88-3	Toluene	21	
100-41-4	Ethylbenzene	0.1	

Continued on page 6

CALIFORNIA PROPOSITION 65

WARNING: This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.

TSCA CERTIFICATION

All chemicals in this product are listed, or are exempt from listing, on the TSCA Inventory.

Section 16 -- OTHER INFORMATION

This product has been classified in accordance with the hazard criteria of the CPR and the MSDS contains all of the information required by the CPR.

The above information pertains to this product as currently formulated, nd is based on the information available at this time. Addition of educers or other additives to this product may substantially alter the omposition and hazards of the product. Since conditions of use are utside our control, we make no warranties, express or implied, and assume o liability in connection with any use of this information.

MATERIAL SAFETY DATA SHEET

C19957
01 00

Section 1 -- PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NUMBER

C19957

HMIS CODES
Health 2*
Flammability 4
Reactivity 0

PRODUCT NAME
QS GLOSS WHITE ENAMEL

MANUFACTURER'S NAME
SHEFFIELD BRONZE PAINT CORP.
17814 South Waterloo Road
Cleveland, OH 44119

EMERGENCY TELEPHONE NO.
216-481-8330

INFORMATION TELEPHONE NO.
216-481-8330

DATE OF PREPARATION
20-MAY-03

Section 2 -- COMPOSITION/INFORMATION ON INGREDIENTS

% by WT	CAS No.	INGREDIENT			UNITS	VAPOR PRESSURE
14	74-98-6	Propane				760 mm
			ACGIH TLV	2500	ppm	
			OSHA PEL	1000	ppm	
13	106-97-8	Butane				760 mm
			ACGIH TLV	800	ppm	
			OSHA PEL	800	ppm	
21	108-88-3	Toluene				22 mm
			ACGIH TLV	50	ppm (skin)	
			OSHA PEL	100	ppm (skin)	
			OSHA PEL	150	ppm (skin) STEL	
0.1	100-41-4	Ethylbenzene				7.1 mm
			ACGIH TLV	100	ppm	
			ACGIH TLV	125	ppm STEL	
			OSHA PEL	100	ppm	
			OSHA PEL	125	ppm STEL	
26	67-64-1	Acetone				180 mm
			ACGIH TLV	500	ppm	
			ACGIH TLV	750	ppm STEL	
			OSHA PEL	1000	ppm	
2	763-69-9	Ethyl 3-Ethoxypropionate				1.11 mm
			ACGIH TLV	Not Available		
			OSHA PEL	Not Available		
10	13463-67-7	Titanium Dioxide				
			ACGIH TLV	10	mg/m3 as Dust	
			OSHA PEL	10	mg/m3 Total Dust	
			OSHA PEL	5	mg/m3 Respirable Fraction	

Section 3 -- HAZARDS IDENTIFICATION

ROUTES OF EXPOSURE

Exposure may be by INHALATION and/or SKIN or EYE contact, depending on conditions of use. To minimize exposure, follow recommendations for proper use, ventilation, and personal protective equipment.

Continued on page 2

EFFECTS OF OVEREXPOSURE

Irritation of eyes, skin and upper respiratory system.

May cause nervous system depression. Extreme overexposure may result in unconsciousness and possibly death.

SIGNS AND SYMPTOMS OF OVEREXPOSURE

Headache, dizziness, nausea, and loss of coordination are indications of excessive exposure to vapors or spray mists.

Redness and itching or burning sensation may indicate eye or excessive skin exposure.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE

None generally recognized.

CANCER INFORMATION

For complete discussion of toxicology data refer to Section 11.

Section 4 -- FIRST AID MEASURES

If INHALED:	If affected, remove from exposure. Restore breathing. Keep warm and quiet.
If on SKIN:	Wash affected area thoroughly with soap and water Remove contaminated clothing and launder before re-use.
If in EYES:	Flush eyes with large amounts of water for 15 minutes. Get medical attention.
If SWALLOWED:	Do not induce vomiting. Get medical attention immediately.

Section 5 -- FIRE FIGHTING MEASURES

FLASH POINT	LEL	UEL
Propellant < 0 F	1.0	12.8

EXTINGUISHING MEDIA

Carbon Dioxide, Dry Chemical, Foam

UNUSUAL FIRE AND EXPLOSION HAZARDS

Containers may explode when exposed to extreme heat.

Application to hot surfaces requires special precautions.

During emergency conditions overexposure to decomposition products may cause a health hazard. Symptoms may not be immediately apparent. Obtain medical attention.

SPECIAL FIRE FIGHTING PROCEDURES

Full protective equipment including self-contained breathing apparatus should be used.

Water spray may be ineffective. If water is used, fog nozzles are preferable. Water may be used to cool closed containers to prevent pressure build-up and possible autoignition or explosion when exposed to extreme heat.

Section 6 -- ACCIDENTAL RELEASE MEASURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED

Remove all sources of ignition. Ventilate the area.

Remove with inert absorbent.

Continued on page 3

Section 7 -- HANDLING AND STORAGE

STORAGE CATEGORY

NFPA 30B Level 2 Aerosol

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE

Keep away from heat, sparks, and open flame. Vapors will accumulate readily and may ignite explosively.

During use and until all vapors are gone: Keep area ventilated - Do not smoke - Extinguish all flames, pilot lights, and heaters - Turn off stoves, electric tools and appliances, and any other sources of ignition.

Consult NFPA Code. Use approved Bonding and Grounding procedures.

Contents under pressure. Do not puncture, incinerate, or expose to temperature above 120F. Heat from sunlight, radiators, stoves, hot water, and other heat sources could cause container to burst. Do not take internally. Keep out of the reach of children.

Section 8 -- EXPOSURE CONTROLS/PERSONAL PROTECTION

PRECAUTIONS TO BE TAKEN IN USE

Use only with adequate ventilation.

Avoid contact with skin and eyes. Avoid breathing vapor and spray mist.

Wash hands after using.

This coating may contain materials classified as nuisance particulates (listed "as Dust" in Section 2) which may be present at hazardous levels only during sanding or abrading of the dried film. If no specific dusts are listed in Section 2, the applicable limits for nuisance dusts are ACGIH TLV 10 mg/m3 (total dust), 3 mg/m3 (respirable fraction), OSHA PEL 15 mg/m3 (total dust), 5 mg/m3 (respirable fraction).

Removal of old paint by sanding, scraping or other means may generate dust or fumes that contain lead. Exposure to lead dust or fumes may cause brain damage or other adverse health effects, especially in children or pregnant women. Controlling exposure to lead or other hazardous substances requires the use of proper protective equipment, such as a properly fitted respirator (NIOSH approved) and proper containment and cleanup. For more information, call the National Lead Information Center at 1-800-424-LEAD (in US) or contact your local health authority.

VENTILATION

Local exhaust preferable. General exhaust acceptable if the exposure to materials in Section 2 is maintained below applicable exposure limits. Refer to OSHA Standards 1910.94, 1910.107, 1910.108.

RESPIRATORY PROTECTION

If personal exposure cannot be controlled below applicable limits by ventilation, wear a properly fitted organic vapor/particulate respirator approved by NIOSH/MSHA for protection against materials in Section 2.

When sanding or abrading the dried film, wear a dust/mist respirator approved by NIOSH/MSHA for dust which may be generated from this product, underlying paint, or the abrasive.

PROTECTIVE GLOVES

None required for normal application of aerosol products where minimal skin contact is expected. For long or repeated contact, wear chemical resistant gloves.

EYE PROTECTION

Wear safety spectacles with unperforated sideshields.

Continued on page 4

OTHER PRECAUTIONS

Intentional misuse by deliberately concentrating and inhaling the contents can be harmful or fatal.

Section 9 -- PHYSICAL AND CHEMICAL PROPERTIES

PRODUCT WEIGHT	6.62 lb/gal 793 g/l
SPECIFIC GRAVITY	0.80
BOILING POINT	<0 - 342 F <-18 - 172 C
MELTING POINT	Not Available
VOLATILE VOLUME	88 %
EVAPORATION RATE	Faster than ether
VAPOR DENSITY	Heavier than air
SOLUBILITY IN WATER	N.A.
pH	7.0

VOLATILE ORGANIC COMPOUNDS (VOC Theoretical)
Volatile Weight 50.76 % Less Water and Federally Exempt Solvents

Section 10 -- STABILITY AND REACTIVITY

STABILITY -- Stable

CONDITIONS TO AVOID

None known.

INCOMPATIBILITY

None known.

HAZARDOUS DECOMPOSITION PRODUCTS

By fire: Carbon Dioxide, Carbon Monoxide

HAZARDOUS POLYMERIZATION

Will not occur

Section 11 -- TOXICOLOGICAL INFORMATION

CHRONIC HEALTH HAZARDS

Ethylbenzene is classified by IARC as possibly carcinogenic to humans (2B) based on inadequate evidence in humans and sufficient evidence in laboratory animals. Lifetime inhalation exposure of rats and mice to high ethylbenzene concentrations resulted in increases in certain types of cancer, including kidney tumors in rats and lung and liver tumors in mice. These effects were not observed in animals exposed to lower concentrations. There is no evidence that ethylbenzene causes cancer in humans.

Prolonged overexposure to solvent ingredients in Section 2 may cause adverse effects to the liver, urinary, cardiovascular and reproductive systems.

Rats exposed to titanium dioxide dust at 250 mg./m3 developed lung cancer, however, such exposure levels are not attainable in the workplace.

Reports have associated repeated and prolonged overexposure to solvents with permanent brain and nervous system damage.

TOXICOLOGY DATA

Continued on page 5

CAS No.	Ingredient Name				
74-98-6	Propane				
		LC50	RAT	4HR	Not Available
		LD50	RAT		Not Available
106-97-8	Butane				
		LC50	RAT	4HR	Not Available
		LD50	RAT		Not Available
108-88-3	Toluene				
		LC50	RAT	4HR	4000 ppm
		LD50	RAT		5000 mg/kg
100-41-4	Ethylbenzene				
		LC50	RAT	4HR	Not Available
		LD50	RAT		3500 mg/kg
67-64-1	Acetone				
		LC50	RAT	4HR	Not Available
		LD50	RAT		5800 mg/kg
763-69-9	Ethyl 3-Ethoxypropionate				
		LC50	RAT	4HR	Not Available
		LD50	RAT		5000 mg/kg
13463-67-7	Titanium Dioxide				
		LC50	RAT	4HR	Not Available
		LD50	RAT		Not Available

Section 12 -- ECOLOGICAL INFORMATION

ECOTOXICOLOGICAL INFORMATION

No data available.

Section 13 -- DISPOSAL CONSIDERATIONS

WASTE DISPOSAL METHOD

Waste from this product may be hazardous as defined under the Resource Conservation and Recovery Act (RCRA) 40 CFR 261.

Waste must be tested for ignitability to determine the applicable EPA hazardous waste numbers.

Do not incinerate. Depressurize container. Dispose of in accordance with Federal, State/Provincial, and Local regulations regarding pollution.

Section 14 -- TRANSPORT INFORMATION

No data available.

Section 15 -- REGULATORY INFORMATION

SARA 313 (40 CFR 372.65C) SUPPLIER NOTIFICATION

CAS No.	CHEMICAL/COMPOUND	% by WT	% Element
108-88-3	Toluene	21	
100-41-4	Ethylbenzene	0.1	

Continued on page 6

CALIFORNIA PROPOSITION 65

WARNING: This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.

TSCA CERTIFICATION

All chemicals in this product are listed, or are exempt from listing, on the TSCA Inventory.

Section 15 -- OTHER INFORMATION

This product has been classified in accordance with the hazard criteria of the CPR and the MSDS contains all of the information required by the CPR.

The above information pertains to this product as currently formulated, and is based on the information available at this time. Addition of reducers or other additives to this product may substantially alter the composition and hazards of the product. Since conditions of use are outside our control, we make no warranties, express or implied, and assume no liability in connection with any use of this information.

MATERIAL SAFETY DATA SHEET

S117
04 00

DATE OF PREPARATION
Feb 9, 2009

SECTION 1 — PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NUMBER
S117

PRODUCT NAME
SPARVAR® Indoor/Outdoor Paint, Semi-Flat Black

MANUFACTURER'S NAME
THE SHERWIN-WILLIAMS COMPANY
KRYLON PRODUCTS GROUP
Cleveland, OH 44115

Telephone Numbers and Websites

Product Information	(800) 247-3266 www.kpg-industrial.com
Regulatory Information	(216) 566-2902 www.paintdocs.com
Medical Emergency	(216) 566-2917
Transportation Emergency*	(800) 424-9300
**for Chemical Emergency ONLY (spill, leak, fire, exposure, or accident)*	

SECTION 2 — COMPOSITION/INFORMATION ON INGREDIENTS

% by Weight	CAS Number	Ingredient	Units	Vapor Pressure
15	**74-98-6**	**Propane**		
		ACGIH TLV	2500 PPM	760 mm
		OSHA PEL	1000 PPM	
7	**106-97-8**	**Butane**		
		ACGIH TLV	800 PPM	760 mm
		OSHA PEL	800 PPM	
1	**100-41-4**	**Ethylbenzene**		
		ACGIH TLV	100 PPM	7.1 mm
		ACGIH TLV	125 PPM STEL	
		OSHA PEL	100 PPM	
		OSHA PEL	125 PPM STEL	
8	**1330-20-7**	**Xylene**		
		ACGIH TLV	100 PPM	5.9 mm
		ACGIH TLV	150 PPM STEL	
		OSHA PEL	100 PPM	
		OSHA PEL	150 PPM STEL	
42	**67-64-1**	**Acetone**		
		ACGIH TLV	500 PPM	180 mm
		ACGIH TLV	750 PPM STEL	
		OSHA PEL	1000 PPM	
11	**78-93-3**	**Methyl Ethyl Ketone**		
		ACGIH TLV	200 PPM	70 mm
		ACGIH TLV	300 PPM STEL	
		OSHA PEL	200 PPM	
		OSHA PEL	300 PPM STEL	
1	**108-10-1**	**Methyl Isobutyl Ketone**		
		ACGIH TLV	50 PPM	16 mm
		ACGIH TLV	75 PPM STEL	
		OSHA PEL	50 PPM	
		OSHA PEL	75 PPM STEL	
4	**108-65-6**	**1-Methoxy-2-Propanol Acetate**		
		ACGIH TLV	Not Available	1.8 mm
		OSHA PEL	Not Available	
1.0	**1333-86-4**	**Carbon Black**		
		ACGIH TLV	3.5 MG/M3	
		OSHA PEL	3.5 MG/M3	

SECTION 3 — HAZARDS IDENTIFICATION

HMIS Codes

Health	2*
Flammability	3
Reactivity	0

ROUTES OF EXPOSURE

INHALATION of vapor or spray mist.
EYE or SKIN contact with the product, vapor or spray mist.

EFFECTS OF OVEREXPOSURE

EYES: Irritation.
SKIN: Prolonged or repeated exposure may cause irritation.
INHALATION: Irritation of the upper respiratory system.

May cause nervous system depression. Extreme overexposure may result in unconsciousness and possibly death.
Prolonged overexposure to solvent ingredients in Section 2 may cause adverse effects to the liver, urinary, blood forming and reproductive systems.

SIGNS AND SYMPTOMS OF OVEREXPOSURE

Headache, dizziness, nausea, and loss of coordination are indications of excessive exposure to vapors or spray mists.
Redness and itching or burning sensation may indicate eye or excessive skin exposure.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE

None generally recognized.

CANCER INFORMATION

For complete discussion of toxicology data refer to Section 11.

SECTION 4 — FIRST AID MEASURES

EYES: Flush eyes with large amounts of water for 15 minutes. Get medical attention.
SKIN: Wash affected area thoroughly with soap and water.
Remove contaminated clothing and launder before re-use.
INHALATION: If affected, remove from exposure. Restore breathing. Keep warm and quiet.
INGESTION: Do not induce vomiting. Get medical attention immediately.

SECTION 5 — FIRE FIGHTING MEASURES

FLASH POINT	LEL	UEL	EXTINGUISHING MEDIA
Propellant < 0° F	1.0	13.1	Carbon Dioxide, Dry Chemical, Foam

UNUSUAL FIRE AND EXPLOSION HAZARDS

Containers may explode when exposed to extreme heat.
Application to hot surfaces requires special precautions.
During emergency conditions overexposure to decomposition products may cause a health hazard. Symptoms may not be immediately apparent. Obtain medical attention.

SPECIAL FIRE FIGHTING PROCEDURES

Full protective equipment including self-contained breathing apparatus should be used.
Water spray may be ineffective. If water is used, fog nozzles are preferable. Water may be used to cool closed containers to prevent pressure build-up and possible autoignition or explosion when exposed to extreme heat.

SECTION 6 — ACCIDENTAL RELEASE MEASURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED

- Remove all sources of ignition. Ventilate the area.
- Remove with inert absorbent.

SECTION 7 — HANDLING AND STORAGE

STORAGE CATEGORY

Not Available

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE

Keep away from heat, sparks, and open flame. Vapors will accumulate readily and may ignite explosively.
During use and until all vapors are gone: Keep area ventilated - Do not smoke - Extinguish all flames, pilot lights, and heaters - Turn off stoves, electric tools and appliances, and any other sources of ignition.
Consult NFPA Code. Use approved Bonding and Grounding procedures.
Contents under pressure. Do not puncture, incinerate, or expose to temperature above 120F. Heat from sunlight, radiators, stoves, hot water, and other heat sources could cause container to burst. Do not take internally. Keep out of the reach of children.

SECTION 8 — EXPOSURE CONTROLS/PERSONAL PROTECTION

PRECAUTIONS TO BE TAKEN IN USE

Use only with adequate ventilation.
Avoid contact with skin and eyes. Avoid breathing vapor and spray mist.

Wash hands after using.

This coating may contain materials classified as nuisance particulates (listed "as Dust" in Section 2) which may be present at hazardous levels only during sanding or abrading of the dried film. If no specific dusts are listed in Section 2, the applicable limits for nuisance dusts are ACGIH TLV 10 mg/m3 (total dust), 3 mg/m3 (respirable fraction), OSHA PEL 15 mg/m3 (total dust), 5 mg/m3 (respirable fraction).

VENTILATION

Local exhaust preferable. General exhaust acceptable if the exposure to materials in Section 2 is maintained below applicable exposure limits. Refer to OSHA Standards 1910.94, 1910.107, 1910.108.

RESPIRATORY PROTECTION

If personal exposure cannot be controlled below applicable limits by ventilation, wear a properly fitted organic vapor/particulate respirator approved by NIOSH/MSHA for protection against materials in Section 2.

When sanding or abrading the dried film, wear a dust/mist respirator approved by NIOSH/MSHA for dust which may be generated from this product, underlying paint, or the abrasive.

PROTECTIVE GLOVES

None required for normal application of aerosol products where minimal skin contact is expected. For long or repeated contact, wear chemical resistant gloves.

EYE PROTECTION

Wear safety spectacles with unperforated sideshields.

OTHER PRECAUTIONS

Intentional misuse by deliberately concentrating and inhaling the contents can be harmful or fatal.

SECTION 9 — PHYSICAL AND CHEMICAL PROPERTIES

PRODUCT WEIGHT	6.21 lb/gal	743 g/l
SPECIFIC GRAVITY	0.75	
BOILING POINT	<0 - 302° F	<-18 - 150° C
MELTING POINT	Not Available	
VOLATILE VOLUME	94%	
EVAPORATION RATE	Faster than ether	
VAPOR DENSITY	Heavier than air	
SOLUBILITY IN WATER	N.A.	
pH	7.0	

VOLATILE ORGANIC COMPOUNDS (VOC Theoretical - As Packaged)

Volatile Weight 49.37% Less Water and Federally Exempt Solvents

SECTION 10 — STABILITY AND REACTIVITY

STABILITY — Stable

CONDITIONS TO AVOID

None known.

INCOMPATIBILITY

None known.

HAZARDOUS DECOMPOSITION PRODUCTS

By fire: Carbon Dioxide, Carbon Monoxide

HAZARDOUS POLYMERIZATION

Will not occur

SECTION 11 — TOXICOLOGICAL INFORMATION

CHRONIC HEALTH HAZARDS

Methyl Ethyl Ketone may increase the nervous system effects of other solvents.

Reports have associated repeated and prolonged overexposure to solvents with permanent brain and nervous system damage.

Ethylbenzene is classified by IARC as possibly carcinogenic to humans (2B) based on inadequate evidence in humans and sufficient evidence in laboratory animals. Lifetime inhalation exposure of rats and mice to high ethylbenzene concentrations resulted in increases in certain types of cancer, including kidney tumors in rats and lung and liver tumors in mice. These effects were not observed in animals exposed to lower concentrations. There is no evidence that ethylbenzene causes cancer in humans.

Carbon Black is classified by IARC as possibly carcinogenic to humans (group 2B) based on experimental animal data, however, there is insufficient evidence in humans for its carcinogenicity.

TOXICOLOGY DATA

CAS No.	Ingredient Name			
74-98-6	**Propane**			
		LC50 RAT	4HR	Not Available
		LD50 RAT		Not Available
106-97-8	**Butane**			
		LC50 RAT	4HR	Not Available
		LD50 RAT		Not Available
100-41-4	**Ethylbenzene**			
		LC50 RAT	4HR	Not Available
		LD50 RAT		3500 mg/kg
1330-20-7	**Xylene**			
		LC50 RAT	4HR	5000 ppm
		LD50 RAT		4300 mg/kg
67-64-1	**Acetone**			
		LC50 RAT	4HR	Not Available
		LD50 RAT		5800 mg/kg
78-93-3	**Methyl Ethyl Ketone**			
		LC50 RAT	4HR	Not Available
		LD50 RAT		2740 mg/kg
108-10-1	**Methyl Isobutyl Ketone**			
		LC50 RAT	4HR	Not Available
		LD50 RAT		2080 mg/kg
108-65-6	**1-Methoxy-2-Propanol Acetate**			
		LC50 RAT	4HR	Not Available
		LD50 RAT		8500 mg/kg
1333-86-4	**Carbon Black**			
		LC50 RAT	4HR	Not Available
		LD50 RAT		Not Available

SECTION 12 — ECOLOGICAL INFORMATION

ECOTOXICOLOGICAL INFORMATION

No data available.

SECTION 13 — DISPOSAL CONSIDERATIONS

WASTE DISPOSAL METHOD

Waste from this product may be hazardous as defined under the Resource Conservation and Recovery Act (RCRA) 40 CFR 261.
Waste must be tested for ignitability to determine the applicable EPA hazardous waste numbers.
Do not incinerate. Depressurize container. Dispose of in accordance with Federal, State/Provincial, and Local regulations regarding pollution.

SECTION 14 — TRANSPORT INFORMATION

US Ground (DOT)

May be classed as Consumer Commodity, ORM-D
UN1950, AEROSOLS, 2.1, LIMITED QUANTITY, (ERG#126)

Canada (TDG)

May be classed as Consumer Commodity, ORM-D
UN1950, AEROSOLS, CLASS 2.1, LIMITED QUANTITY, (ERG#126)

IMO

May be shipped as Limited Quantity
UN1950, AEROSOLS, CLASS 2.1, LIMITED QUANTITY, EmS F-D, S-U

SECTION 15 — REGULATORY INFORMATION

SARA 313 *(40 CFR 372.65C)* SUPPLIER NOTIFICATION

CAS No.	CHEMICAL/COMPOUND	% by WT	% Element
100-41-4	Ethylbenzene	1	
1330-20-7	Xylene	8	
108-10-1	Methyl Isobutyl Ketone	1	

CALIFORNIA PROPOSITION 65

WARNING: This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.

TSCA CERTIFICATION

All chemicals in this product are listed, or are exempt from listing, on the TSCA Inventory.

SECTION 16 — OTHER INFORMATION

This product has been classified in accordance with the hazard criteria of the Canadian Controlled Products Regulations (CPR) and the MSDS contains all of the information required by the CPR.

The above information pertains to this product as currently formulated, and is based on the information available at this time. Addition of reducers or other additives to this product may substantially alter the composition and hazards of the product. Since conditions of use are outside our control, we make no warranties, express or implied, and assume no liability in connection with any use of this information.

The Valspar Corporation
Material Safety Data Sheet

1. PRODUCT AND COMPANY IDENTIFICATION

Material Identification

Product ID: **TY25825, TY25826**
Product Name: JDM Blitz Black 2.8 VOC Enamel
Product Use: Paint product.
Date Published: 2004/05/10
Revision Date: 2004/05/10

Company Identification
The Valspar Corporation
1215 Nelson Blvd.
Rockford, IL 61104
Manufacturer's Phone: 1-877-724-0597

24-Hour Medical Emergency Phone: 1-888-345-5732

2. COMPOSITION / INFORMATION ON HAZARDOUS INGREDIENTS

Common Name CAS #	Approx Wt%	Chemical name
DIMETHYL KETONE 67-64-1	20 - 25	Acetone
TALC 14807-96-6	15 - 20	TALC (MG3H2(SI03)4)
XYLENE 1330-20-7	10 - 15	Xylenes (o-, m-, p- isomers)
ETHYLBENZENE 100-41-4	1 - 5	Ethyl benzene
ZINC OXIDE PIGMENT 1314-13-2	1 - 5	Zinc oxide
CARBON BLACK 1333-86-4	.1 - 1	Carbon black
CRYSTALLINE SILICA 14808-60-7	.1 - 1	QUARTZ (Si02)

If this section is blank there are no hazardous components per OSHA guidelines.

3. HAZARDS IDENTIFICATION

Primary Routes of Exposure:
Inhalation
Ingestion
Skin absorption

Emergency Overview:

This section not in use.

This product contains ingredients that may contribute to the following potential acute health effects:

Inhalation Effects:
Harmful if inhaled. May affect the brain, nervous system, or respiratory system, causing dizziness, headache, nausea or respiratory irritation. May cause Metal Fume Fever which is characterized by chills, fever, aching muscles, dryness and metal taste in mouth and throat, headaches, sneezing, nausea, and irritation of the nose and trachea.

Eye Contact:
Causes eye irritation.

Skin Contact:
May cause moderate skin irritation.

Acute Ingestion:
None known

Other Effects:
May cause liver damage. May cause kidney damage.

This product contains ingredients that may contribute to the following potential chronic health effects:

Notice: Reports have associated repeated and prolonged occupational overexposure to solvents with permanent brain and nervous system damage. Intentional misuse by deliberately concentrating and inhaling the contents may be harmful or fatal. Prolonged exposure to respirable crystalline quartz silica may cause delayed chronic injury (silicosis). Prolonged exposure over TLV may produce pneumoconiosis. Prolonged inhalation of dusts may result in shortness of breath.Prolonged and/or repeated contact can result in skin irritation. May cause skin drying with prolonged exposure.Possible cancer hazard. Contains ingredients which may cause cancer based on animal data. Risk of cancer depends on duration and level of exposure.

See Section 11 for toxicological information about Mutagens, Teratogens and Carcinogens.

If this section is blank, no information is available.

4. FIRST AID MEASURES

Inhalation:
If affected by inhalation, move victim to fresh air. If symptoms persist, seek medical attention.

Eye Contact:
In case of contact, or suspected contact, immediately flush eyes with plenty of water for at least 15 minutes and get medical attention immediately after flushing.

Skin Contact:
In case of contact, immediately flush skin with plenty of soap and water for at least 15 minutes. If irritation persists get medical attention.

Ingestion:
If swallowed, contact medical personnel immediately to determine best course of action.

Medical conditions aggravated by exposure: Any respiratory or skin condition.

5. FIRE FIGHTING MEASURES

Flash point (Fahrenheit):	4º F (-16º C) TCC/PM
Lower explosive limit:	1 %
Upper explosive limit:	13 %
Autoignition temperature:	Not available.º F (º C)
Sensitivity to impact:	No.
Sensitivity to static discharge:	Subject to static discharge hazards. Please see bonding and grounding information in Section 7.
Hazardous combustion products:	See Section 10.

Unusual fire and explosion hazards:
Contaminated rags, wipes, saw dust, etc., may catch fire spontaneously. Store waste under water in closed metal containers until disposed of in compliance with applicable regulations. Contains oxidizable materials.

Extinguishing media:
Carbon dioxide, dry chemical, foam and/or water fog.

Fire fighting procedures:
Use water spray to cool nearby containers and structures exposed to fire.

6. ACCIDENTAL RELEASE MEASURES

Action to be taken if material is released or spilled:
Ventilate area. Avoid breathing of vapors. Use self-containing breathing apparatus or airmask for large spills in a confined area. Wipe, scrape or soak up in an inert material and put in a container for disposal. See section 5, "Unusual Fire and Explosion Hazards", for proper container and storage procedures. Remove sources of ignition. Remove with inert absorbent and non sparking tools. Avoid contact with eyes.

7. HANDLING AND STORAGE

Precautions to be taken in handling and storage:
Keep away from heat, sparks, and flames. Keep container closed when not in use. Do not store above 120 degrees F. (49 degrees C). Based on flash point and vapor pressure, suitable storage should be provided in accordance with OSHA regulation 1910.106, Ontario OH&S regulation 851 section 22. Empty containers may contain product residue, including flammable or explosive vapors. Do not cut, puncture or weld on or near container. All label warnings must be observed until the container has been commercially cleaned or reconditioned. If the product is used near or above the flashpoint, an ignition hazard may be present. Activities, uses, or operations which liberate vapor (such as mixing or free fall of liquids) may also present an ignition hazard. Please ensure containers and other interconnected equipment are properly bonded and grounded at all times.

8. PERSONAL PROTECTIVE EQUIPMENT AND EXPOSURE CONTROLS

Personal Protective Equipment

Eye and face protection:
Avoid contact with eyes. Wear chemical goggles if there is the possibility of contact or splashing in the eye.

Skin protection:
Appropriate chemical resistant gloves should be worn.To prevent skin contact wear protective clothing covering all exposed areas.

Respiratory protection:
If exposure cannot be controlled below applicable limits, use the appropriate NIOSH approved respirator such as an air

purifying respirator with organic vapor cartridge and dust/mist filter. Consult the respirator manufacturer's literature to ensure that the respirator will provide adequate protection. Read and follow all respirator manufacturer's instructions.

Ventilation
Required when spraying or applying in confined area. Ventilation equipment should be explosion proof. Eliminate ignition sources.

Exposure Guidelines

OSHA Permissible Exposure Limits (PEL's)

Common Name CAS #	Approx Wt%	TWA (final)	Ceilings limits (final)	Skin designations
TALC 14807-96-6	15 - 20	see Table Z-3		
XYLENE 1330-20-7	10 - 15	100 ppm TWA; 435 mg/m3 TWA		
ETHYLBENZENE 100-41-4	1 - 5	100 ppm TWA; 435 mg/m3 TWA		
ZINC OXIDE PIGMENT 1314-13-2	1 - 5	5 mg/m3 TWA (fume); 15 mg/m3 TWA (total dust); 5 mg/m3 TWA (respirable fraction)		
CARBON BLACK 1333-86-4	.1 - 1	3.5 mg/m3 TWA		
CRYSTALLINE SILICA 14808-60-7	.1 - 1	see Table Z-3		

ACGIH Threshold Limit Value (TLV's)

Common Name CAS #	Approx Wt%	TWA	STEL	Ceiling limits	Skin designations
DIMETHYL KETONE 67-64-1	20 - 25	750 PPM			
TALC 14807-96-6	15 - 20	2 mg/m3 TWA (this TLV is for the respirable fraction of dust for Talc containing no asbestos and <1% crystalline silica)			
XYLENE 1330-20-7	10 - 15	100 ppm TWA	150 ppm STEL		
ETHYLBENZENE 100-41-4	1 - 5	100 ppm TWA	125 ppm STEL		

ZINC OXIDE PIGMENT 1314-13-2	1 - 5	5 mg/m3 TWA (fume); 10 mg/m3 TWA (dust) (The value for Zinc oxide 'dust' is for total dust containing no asbestos and < 1% crystalline silica)	10 mg/m3 STEL (fume)		
CARBON BLACK 1333-86-4	.1 - 1	3.5 mg/m3 TWA			
CRYSTALLINE SILICA 14808-60-7	.1 - 1	0.05 mg/m3 TWA (this TLV is for the respirable fraction of dust)			

If this section is blank, no information is available.

9. PHYSICAL PROPERTIES

Odor:	Normal for this product type.
Physical State:	Liquid
pH:	Not determined.
Vapor pressure:	182 mmHG @ 68º F (20º C)
Vapor density (air = 1.0):	3.7
Boiling point:	133º F (56º C)
Solubility in water:	Soluble
Coefficient of water/oil distribution:	Not determined.
Density (weight per gallon):	9.42
Specific gravity (water = 1):	Not determined.
Evaporation rate (butyl acetate = 1.0):	5.6

10. STABILITY AND REACTIVITY

Stability:	This product is stable.
Conditions to Avoid:	None known.
Incompatibility:	Strong oxidizers.
Hazardous Polymerization:	None anticipated.
Hazardous Decomposition Products:	Silicon dioxide. Carbon monoxide and carbon dioxide. Metal oxide fumes.

Sensitivity to static discharge: Subject to static discharge hazards. Please see bonding and grounding information in Section 7.

11. TOXICOLOGICAL INFORMATION

Contains ethylbenzene, which has been determined by NTP to be an animal carcinogen with no known relevance to humans. IARC has classified ethylbenzene as possibly carcinogenic to humans (2b) on the basis of sufficient evidence of carcinogenicity in laboratory animals but inadequate evidence of cancer in humans. Contains crystaline silica. The IARC has determined that crystaline silica inhaled in the form of quartz or cristobablite from occupational sources is carcinogenic to humans (group 1). Refer to IARC monograph 68 in conjunction with the use of these materials. Risk of cancer depends on the duration and level of exposure. In coatings products, risk is due primarily to inhalation of sanding dusts or respirable particles in spray mists. The NTP has also determined that crystaline silica is a known human carcinogen in the form of fine, breathable particles. Risk of cancer depends on duration and level of exposure in coatings products, risk is

due primarily to inhalation of sanding dust or respirable particles in spray mist.

Common Name CAS #	Approx Wt%	IARC Group 1 - Human Evidence	IARC Group 2A - limited human data	IARC Group 2b - sufficient animal data
ETHYLBENZENE 100-41-4	1 - 5			Monograph 77, 2000
CARBON BLACK 1333-86-4	.1 - 1			Monograph 65, 1996
CRYSTALLINE SILICA 14808-60-7	.1 - 1	Monograph 68, 1997; (inhaled in the form of quartz or cristobalite from occupational sources)		

Common Name CAS #	Approx Wt%	NTP Known carcinogens	NTP Suspect carcinogens	NTP Evidence of carcinogenicity
TALC 14807-96-6	15 - 20			male rat-some evidence; female rat-clear evidence; male mice-no evidence; female mice-no evidence
ETHYLBENZENE 100-41-4	1 - 5			male rat-clear evidence; female rat-some evidence; male mice-some evidence; female mice-some evidence
CRYSTALLINE SILICA 14808-60-7	.1 - 1	Known Carcinogen		

Common Name CAS #	Approx Wt%	OSHA Select carcinogens	OSHA Possible select carcinogens	ACGIH Carcinogens
ETHYLBENZENE 100-41-4	1 - 5		Monograph 77, 2000 IARC - Group 2B (Possibly carcinogenic to humans)	
CARBON BLACK 1333-86-4	.1 - 1		Monograph 65, 1996 IARC - Group 2B (Possibly carcinogenic to humans)	A4 - Not Classifiable as a Human Carcinogen
CRYSTALLINE SILICA 14808-60-7	.1 - 1			A2 - Suspected Human Carcinogen

If this section is blank, no information is available.

12. ECOLOGICAL DATA

Not available at this time.

13. DISPOSAL CONSIDERATIONS

Disposal should be made in accordance with federal, state and local regulations.

14. TRANSPORTATION INFORMATION

U.S. Department of Transportation

Proper Shipping Name:	PAINT
Hazard Class:	3
UN ID Number:	UN1263
Packing Group:	II

49 CFR Hazardous Material Regulations Parts 100-180

The supplier will apply the combustible liquid exception in 49 CFR 173.150(f), limited quantity or "does not sustain combustion" exceptions and consumer commodity rules, when authorized. Please check 49 CFR Parts 100-180 to determine if the use of these exceptions applies to your shipments when re-shipping our products.

International Air Transport Association:

Proper Shipping Name:	PAINT
Hazard Class:	3
UN ID Number:	UN1263
Packing Group:	II

International Maritime Organization:

Proper Shipping Name:	PAINT
Hazard Class:	3
UN ID Number:	UN1263
Packing Group:	II

15. REGULATORY INFORMATION

U.S. FEDERAL REGULATIONS:

Common Name CAS #	Approx Wt%	SARA 302	SARA 313	CERCLA RQ IN LBS.
XYLENE 1330-20-7	10 - 15		form R reporting required for 1.0% de minimis concentration	100
ETHYLBENZENE 100-41-4	1 - 5		form R reporting required for 1.0% de minimis concentration	1000
ZINC OXIDE PIGMENT 1314-13-2	1 - 5		YES	

SARA 311/312 Hazard Class:

Acute:	Yes
Chronic:	Yes
Flammability:	Yes
Reactivity:	No
Sudden Pressure:	No

U.S. STATE REGULATIONS:

Pennsylvania Right To Know:

XYLENE	1330-20-7
DIMETHYL KETONE	67-64-1
ETHYLBENZENE	100-41-4

ZINC OXIDE PIGMENT	1314-13-2
TALC	14807-96-6

Additional Non-Hazardous Materials

PROPRIETARY RESIN	Trade Secret
PROPRIETARY INERT	Trade Secret
PROPRIETARY RESIN	Trade Secret

California Proposition 65:
WARNING: This product contains a chemical known to the State of California to cause cancer.

Rule 66 status of product Photochemically reactive.

INTERNATIONAL REGULATIONS - Chemical Inventories

TSCA Inventory: All components of this product are in compliance with U.S. TSCA Chemical Substance Inventory Requirements.

Canada Domestic Substances List: Not all components in this product are listed on the Domestic Substances List.

16. OTHER INFORMATION

HMIS Codes

Health:	2
Flammability:	3
Reactivity:	1
PPE:	X - See Section 8 for Personal Protective Equipment (PPE).

Abbreviations:
OSHA - Occupational Safety and Health Administration, IARC - International Agency for Research on Cancer, NIOSH - National Institute of Occupational Safety and Health, NTP - National Toxicology Program, ACGIH - American Conference of Governmental Industrial Hygienists, SCAQMD - South Coast Air Quality Management District, TSCA - Toxic Substances Control Act, IATA - International Air Transport Association, IMO - International Maritime Organization, DOT - Department of Transportation, NA - Not applicable, NOT ESTAB - Not established, N.A.V. - Not available, RQ - Reportable quantity, WT - Weight, MG/CU M - Milligrams per cubic meter, G/L - Grams per liter, MM - Millimeters, MPPCF - Millions of particles per cubic foot, PPM - parts per million, PPT - parts per thousand, TCC/PM - Tag closed cup / Pensky-Martens, PB - Lead, PEL - Permissible exposure level, TWA - Time Weighted Average, STEL - Short term exposure limit, C - Celsius, F - Fahrenheit.

Disclaimer:
The data on this sheet represent typical values. Since application variables are a major factor in product performance, this information should serve only as a general guide. Valspar assumes no obligation or liability for use of this information. UNLESS VALSPAR AGREES OTHERWISE IN WRITING, VALSPAR MAKES NO WARRANTIES, EXPRESS OR IMPLIED, AND DISCLAIMS ALL IMPLIED WARRANTIES INCLUDING WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR USE OR FREEDOM FROM PATENT INFRINGEMENT. VALSPAR WILL NOT BE LIABLE FOR ANY SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES. Your only remedy for any defect in this product is the replacement of the defective product, or a refund of its purchase price, at our option. This MSDS contains additional information required by the state of Pennsylvania.

MATERIAL SAFETY DATA SHEET

7/28/06 DATE OF PRINTING

SECTION I

MANUFACTURER: GLYPTAL, INC.
305 EASTERN AVE
CHELSEA, MA 02150
TELEPHONE: 617-884-6918
PRODUCT CLASS: AIR DRY ENAMEL
CODE IDENTIFICATION: 1201
TRADE NAME: GLYPTAL

HMIS 2 3 0 PAINT, 3, UN1263, PGII

SECTION II - HAZARDOUS INGREDIENTS

INGREDIENT	PERCENT BY WEIGHT	ACGIH TLV PPM	ACGIH TLV mg/cu.m.	OSHA PEL PPM	OSHA PEL mg/cu.m.
XYLENE	34.5	100		100	
CAS NUMBER 1330-20-7					
HMIS HEALTH=1 FLAMMABILITY=3 REACTIVITY=0					
XYLOL					
VM&P NAPTHA	5.6	300		300	
CAS NUMBER 8030-30-6					
HMIS HEALTH=2 FLAMMABILITY=3 REACTIVITY=0					
ALIPHATIC HYDROCARBON					
STODDARD SOLVENT	0.2	100		100	
CAS NUMBER 8052-41-3					
HMIS HEALTH=2 FLAMMABILITY=2 REACTIVITY=0					
HYDROCARBON MIXTURE					
IRON OXIDE	8.2				
CAS NUMBER 1309-37-1					
HMIS HEALTH=0 FLAMMABILITY=1 REACTIVITY=1					
FERRIC OXIDE					
HYDRATED MAGNESIUM SILICATE	16.9	20			
CAS NUMBER 14807-96-6					
HMIS HEALTH=2 FLAMMABILITY=0 REACTIVITY=0					
TALC					

Remaining 34.7 % is a non-hazardoys alkyd resin.
VM & P (CAS# 8030-30-6). AGENCY OSHA.TYPE STEL. EXPOSURE LIMIT 400 PPM
N/A MEANS NOT AVAILABLE N/EST MEANS NOTESTABLISHED
NOT EST. means NOT ESTABLISHED
NOT EST. means NOT ESTABLISHED
N/A MEANS NOT AVAILABLE NOT EST MEANS NOT ESTABLISHED

SECTION III - PHYSICAL DATA

BOILING RANGE: 250.0 TO 345.0 F VAPOR DENSITY: HEAVIER THAN AIR
EVAPORATION RATE: SLOWER THAN ETHER
PERCENT VOLATILE BY VOLUME: 56.5 VOC (less water): 3.98 LBS/GALLON
WEIGHT PER GALLON: 9.91 POUNDS
V.O.C.Is determined per EPA Reference Method 24 using ASTM procedures D2369 ,D1475and D3960.
VAPOR PRESSURE: 5.79 mm/hg MELTING POINT: NOT APPLICABLE

SOLUBILITY IN WATER: NEGLIGBLE
APPEARANCE AND ODOR: RED LQUID WITH PAINT ODOR

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

OSHA CATEGORY: FLAMMABLE LIQUID

FLASH POINT : 72 F PENSKY MARTIN LEL: 1.0 UEL: N/A
EXTINGUISHING MEDIA:
Carbon dioxide, dry chemical or foam
UNUSUAL FIRE AND EXPLOSION HAZARDS:
Pressure may build up in closed containers that are exposed to heat.
Solvent vapors are heavier than air and may travel a considerable distance along the ground to an ignition source and "flash back".
SPECIAL FIRE FIGHTING PROCEDURES:
Water may be ineffective, however, water may be used to cool closed containers that are exposed to heat. Firefighting personnel should wear self-contained breathing apparatus.

SECTION V - HEALTH HAZARD DATA

THRESHOLD LIMIT VALUE: SEE SECTION II
PRIMARY ROUTE(S) OF ENTRY:
Inhalation and skin contact
EFFECTS OF OVEREXPOSURE:
Headache, nausea, dizziness, confusion, irritability.
MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE:
Respiratory difficulties or preexisting skin sensitization.
CARCINOGENICITY:
None of the components of this product are reported carcinogens in A/C with OSHA,NTP,IARC and NIOSH.
EMERGENCY FIRST AID PROCEDURES:
INHALATION: Remove to fresh air. Administer artificial respiration or oxygen if breathing is difficult.
SKIN: Wash affected area with soap and water. Remove and launder contaminated clothing. Consult a physician if irritation persists.
EYES: Flush immediately with large amounts of water for at least 15 minutes. Take to a physician for medical treatment.
INGESTION: Call a physician immediately.

ACUTE: Skin and eye contact:Primary irritation.
CHRONIC:Xylene contained in this material has been found to cause the follo wing effects in laboratory animals:amenia,liver abnormalities,liver and eye damage.
Pre-Exiting liver and/or kidney disorders may be aggrevated by exposure to xylene.Reports have associated repeated and prolonged occupational overexpo sure to xylene with permanent brain and nervous system damage.

SECTION VI - REACTIVITY DATA

STABILITY: NORMALLY STABLE
CONDITIONS TO AVOID:
None known

INCOMPATIBILITY (Materials to avoid)
Strong acids and bases
HAZARDOUS DECOMPOSITION PRODUCTS:
BY FIRE: Normal products of incomplete combustion.
HAZARDOUS POLYMERIZATION: DOES NOT OCCUR
CONDITIONS TO AVOID:
None known

SECTION VII - SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:
Provide adequate ventilation. Remove all possible ignition sources. Absorb and dispose using non-sparking tools.
Eliminate all sources of ignition. Evacuate unprotected personnel. Water spray may be used. To contain run-off, cover with an absorbent material and place in containers for proper disposal. Flush area with water to remove residue.
WASTE DISPOSAL METHOD:
Dispose in accordance with local applicable regulations.
Dispose of using an approved incineration process or in accordance with local, state, and federal regulations regarding health and pollution.

SECTION VIII - SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION:
In outdoor or open areas use Bureau of Mines approved mechanical filter respirator to remove solid airborne particulates of overspray. Indoors, where ventilation is inadequate. use Bureau of Mines approved chemical-mechanical respirators designed to remove both particulate and vapor.
VENTILATION:
PROTECTIVE GLOVES:
Recommended if skin contact is likely.
EYE PROTECTION:
Chemical splash goggles recommended if potential for splash or eye contact is likely.
OTHER PROTECTIVE EQUIPMENT:
Recommended as needed to avoid contact.

SECTION IX - SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING OR STORING:
Store in a cool dry place away from heat, sparks and open flame. Keep containers closed and upright to prevent leakage. Outside or detached storage is preferred. Inside storage should be in a standard flammable liquid storeroom or cabinet. Metal containers should be grounded when transferring material from one container to another. Do not reuse product container for any purpose.
OTHER PRECAUTIONS:

PREPARED BY: TECHNICAL STAFF

REFERENCE DATE: 7/28/06

THE INFORMATION AND RECOMMENDATIONS CONTAINED HEREIN ARE BASED UPON DATA BELIEVED TO BE CORRECT. HOWEVER, NO GUARANTEE OR WARRANTY OF ANY KIND, EXPRESSED OR IMPLIED, IS MADE WITH RESPECT TO THE INFORMATION ABOVE.

TO WHOM IT MAY CONCERN: EFFECTIVE JAN 1, 1989, WE ARE REQUIRED BY SARA TIT LE III SECTION 313 OF THE RIGHT TO KNOW LEGISLATION, TO INFORM YOU OF THE PERCENTAGE OF ANY INGREDIENT IN A PRODUCT WHICH IS IN THE 313 LIST OR AS AN LISTING AS A COMPONENT OF A MATERIAL WHICH IS IN A CATEGORY OF CHEMICAL LIST.

PRODUCT: 1201 GLYPTAL

34.5% XYLENE (CAS NUMBER 1330-20-7)

IF YOU WILL MULTIPLY YOUR TOTAL PURCHASES FROM US AS WELL AS FROM OTHER SU PPLIERS BY THE PERCENTAGE OF EACH INGREDIENT FOUND IN EACH PRODUCT AND IF THE TOTAL QUANTITY EXCEEDS THE REPORTABLE QUANTITY FOR THAT INGREDIENT YOU ARE REQUIRED TO FILE FORM R REPORTS.

MATERIAL SAFETY DATA SHEET

S00603
02 00

DATE OF PREPARATION
Feb 9, 2009

SECTION 1 — PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NUMBER
S00603

PRODUCT NAME
SPRAYON® Blue Layout Fluid

MANUFACTURER'S NAME
THE SHERWIN-WILLIAMS COMPANY
KRYLON PRODUCTS GROUP
Cleveland, OH 44115

Telephone Numbers and Websites

Product Information	(800) 251-2486 www.kpg-industrial.com
Regulatory Information	(216) 566-2902 www.paintdocs.com
Medical Emergency	(216) 566-2917
Transportation Emergency*	(800) 424-9300
**for Chemical Emergency ONLY (spill, leak, fire, exposure, or accident)*	

SECTION 2 — COMPOSITION/INFORMATION ON INGREDIENTS

% by Weight	CAS Number	Ingredient	Units	Vapor Pressure
12	74-98-6	**Propane**		
		ACGIH TLV	2500 PPM	760 mm
		OSHA PEL	1000 PPM	
12	106-97-8	**Butane**		
		ACGIH TLV	800 PPM	760 mm
		OSHA PEL	800 PPM	
1	64742-88-7	**Mineral Spirits**		
		ACGIH TLV	100 PPM	2 mm
		OSHA PEL	100 PPM	
9	108-88-3	**Toluene**		
		ACGIH TLV	20 PPM	22 mm
		OSHA PEL	100 PPM (Skin)	
		OSHA PEL	150 PPM (Skin) STEL	
0.3	100-41-4	**Ethylbenzene**		
		ACGIH TLV	100 PPM	7.1 mm
		ACGIH TLV	125 PPM STEL	
		OSHA PEL	100 PPM	
		OSHA PEL	125 PPM STEL	
2	1330-20-7	**Xylene**		
		ACGIH TLV	100 PPM	5.9 mm
		ACGIH TLV	150 PPM STEL	
		OSHA PEL	100 PPM	
		OSHA PEL	150 PPM STEL	
1	71-36-3	**1-Butanol**		
		ACGIH TLV	20 PPM	5.5 mm
		OSHA PEL	50 PPM (Skin) CEILING	
4	123-42-2	**Diacetone Alcohol**		
		ACGIH TLV	50 PPM	1.2 mm
		OSHA PEL	50 PPM	
48	67-64-1	**Acetone**		
		ACGIH TLV	500 PPM	180 mm
		ACGIH TLV	750 PPM STEL	
		OSHA PEL	1000 PPM	
2	78-93-3	**Methyl Ethyl Ketone**		
		ACGIH TLV	200 PPM	70 mm
		ACGIH TLV	300 PPM STEL	
		OSHA PEL	200 PPM	
		OSHA PEL	300 PPM STEL	
3	108-10-1	**Methyl Isobutyl Ketone**		
		ACGIH TLV	50 PPM	16 mm
		ACGIH TLV	75 PPM STEL	
		OSHA PEL	50 PPM	
		OSHA PEL	75 PPM STEL	

SECTION 3 — HAZARDS IDENTIFICATION

ROUTES OF EXPOSURE

INHALATION of vapor or spray mist.
EYE or SKIN contact with the product, vapor or spray mist.

EFFECTS OF OVEREXPOSURE

EYES: Irritation.
SKIN: Prolonged or repeated exposure may cause irritation.
INHALATION: Irritation of the upper respiratory system.

May cause nervous system depression. Extreme overexposure may result in unconsciousness and possibly death.
Prolonged overexposure to solvent ingredients in Section 2 may cause adverse effects to the liver, urinary, cardiovascular and reproductive systems.

SIGNS AND SYMPTOMS OF OVEREXPOSURE

Headache, dizziness, nausea, and loss of coordination are indications of excessive exposure to vapors or spray mists.
Redness and itching or burning sensation may indicate eye or excessive skin exposure.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE

None generally recognized.

CANCER INFORMATION

For complete discussion of toxicology data refer to Section 11.

HMIS Codes

Health	2*
Flammability	4
Reactivity	0

SECTION 4 — FIRST AID MEASURES

EYES: Flush eyes with large amounts of water for 15 minutes. Get medical attention.
SKIN: Wash affected area thoroughly with soap and water.
Remove contaminated clothing and launder before re-use.
INHALATION: If affected, remove from exposure. Restore breathing. Keep warm and quiet.
INGESTION: Do not induce vomiting. Get medical attention immediately.

SECTION 5 — FIRE FIGHTING MEASURES

FLASH POINT	LEL	UEL	EXTINGUISHING MEDIA
Propellant < 0° F	1.0	12.8	Carbon Dioxide, Dry Chemical, Foam

UNUSUAL FIRE AND EXPLOSION HAZARDS

Containers may explode when exposed to extreme heat.
Application to hot surfaces requires special precautions.
During emergency conditions overexposure to decomposition products may cause a health hazard. Symptoms may not be immediately apparent. Obtain medical attention.

SPECIAL FIRE FIGHTING PROCEDURES

Full protective equipment including self-contained breathing apparatus should be used.
Water spray may be ineffective. If water is used, fog nozzles are preferable. Water may be used to cool closed containers to prevent pressure build-up and possible autoignition or explosion when exposed to extreme heat.

SECTION 6 — ACCIDENTAL RELEASE MEASURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED

- Remove all sources of ignition. Ventilate the area.
- Remove with inert absorbent.

SECTION 7 — HANDLING AND STORAGE

STORAGE CATEGORY

Not Available

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE

Keep away from heat, sparks, and open flame. Vapors will accumulate readily and may ignite explosively.
During use and until all vapors are gone: Keep area ventilated - Do not smoke - Extinguish all flames, pilot lights, and heaters - Turn off stoves, electric tools and appliances, and any other sources of ignition.
Consult NFPA Code. Use approved Bonding and Grounding procedures.
Contents under pressure. Do not puncture, incinerate, or expose to temperature above 120F. Heat from sunlight, radiators, stoves, hot water, and other heat sources could cause container to burst. Do not take internally. Keep out of the reach of children.

SECTION 8 — EXPOSURE CONTROLS/PERSONAL PROTECTION

PRECAUTIONS TO BE TAKEN IN USE

Use only with adequate ventilation.
Avoid contact with skin and eyes. Avoid breathing vapor and spray mist.
Wash hands after using.

VENTILATION

Local exhaust preferable. General exhaust acceptable if the exposure to materials in Section 2 is maintained below applicable exposure limits. Refer to OSHA Standards 1910.94, 1910.107, 1910.108.

RESPIRATORY PROTECTION

If personal exposure cannot be controlled below applicable limits by ventilation, wear a properly fitted organic vapor/particulate respirator approved by NIOSH/MSHA for protection against materials in Section 2.

PROTECTIVE GLOVES

None required for normal application of aerosol products where minimal skin contact is expected. For long or repeated contact, wear chemical resistant gloves.

EYE PROTECTION

Wear safety spectacles with unperforated sideshields.

OTHER PRECAUTIONS

Intentional misuse by deliberately concentrating and inhaling the contents can be harmful or fatal.

SECTION 9 — PHYSICAL AND CHEMICAL PROPERTIES

PRODUCT WEIGHT	6.09 lb/gal	729 g/l
SPECIFIC GRAVITY	0.73	
BOILING POINT	<0 - 395° F	<-18 - 201° C
MELTING POINT	Not Available	
VOLATILE VOLUME	97%	
EVAPORATION RATE	Faster than ether	
VAPOR DENSITY	Heavier than air	
SOLUBILITY IN WATER	N.A.	

VOLATILE ORGANIC COMPOUNDS (VOC Theoretical - As Packaged)

Volatile Weight 47.05% Less Water and Federally Exempt Solvents

SECTION 10 — STABILITY AND REACTIVITY

STABILITY — Stable

CONDITIONS TO AVOID

None known.

INCOMPATIBILITY

None known.

HAZARDOUS DECOMPOSITION PRODUCTS

By fire: Carbon Dioxide, Carbon Monoxide

HAZARDOUS POLYMERIZATION

Will not occur

SECTION 11 — TOXICOLOGICAL INFORMATION

CHRONIC HEALTH HAZARDS

Methyl Ethyl Ketone may increase the nervous system effects of other solvents.

Reports have associated repeated and prolonged overexposure to solvents with permanent brain and nervous system damage.

Ethylbenzene is classified by IARC as possibly carcinogenic to humans (2B) based on inadequate evidence in humans and sufficient evidence in laboratory animals. Lifetime inhalation exposure of rats and mice to high ethylbenzene concentrations resulted in increases in certain types of cancer, including kidney tumors in rats and lung and liver tumors in mice. These effects were not observed in animals exposed to lower concentrations. There is no evidence that ethylbenzene causes cancer in humans.

TOXICOLOGY DATA

CAS No.	Ingredient Name			
74-98-6	**Propane**			
		LC50 RAT	4HR	Not Available
		LD50 RAT		Not Available
106-97-8	**Butane**			
		LC50 RAT	4HR	Not Available
		LD50 RAT		Not Available
64742-88-7	**Mineral Spirits**			
		LC50 RAT	4HR	Not Available
		LD50 RAT		Not Available
108-88-3	**Toluene**			
		LC50 RAT	4HR	4000 ppm
		LD50 RAT		5000 mg/kg
100-41-4	**Ethylbenzene**			
		LC50 RAT	4HR	Not Available
		LD50 RAT		3500 mg/kg
1330-20-7	**Xylene**			
		LC50 RAT	4HR	5000 ppm
		LD50 RAT		4300 mg/kg
71-36-3	**1-Butanol**			
		LC50 RAT	4HR	8000 ppm
		LD50 RAT		790 mg/kg
123-42-2	**Diacetone Alcohol**			
		LC50 RAT	4HR	Not Available
		LD50 RAT		4000. mg/kg
67-64-1	**Acetone**			
		LC50 RAT	4HR	Not Available
		LD50 RAT		5800 mg/kg
78-93-3	**Methyl Ethyl Ketone**			
		LC50 RAT	4HR	Not Available
		LD50 RAT		2740 mg/kg
108-10-1	**Methyl Isobutyl Ketone**			
		LC50 RAT	4HR	Not Available
		LD50 RAT		2080 mg/kg

SECTION 12 — ECOLOGICAL INFORMATION

ECOTOXICOLOGICAL INFORMATION

No data available.

SECTION 13 — DISPOSAL CONSIDERATIONS

WASTE DISPOSAL METHOD

Waste from this product may be hazardous as defined under the Resource Conservation and Recovery Act (RCRA) 40 CFR 261.
Waste must be tested for ignitability to determine the applicable EPA hazardous waste numbers.
Do not incinerate. Depressurize container. Dispose of in accordance with Federal, State/Provincial, and Local regulations regarding pollution.

SECTION 14 — TRANSPORT INFORMATION

US Ground (DOT)

May be classed as Consumer Commodity, ORM-D
UN1950, AEROSOLS, 2.1, LIMITED QUANTITY, (ERG#126)

Canada (TDG)

May be classed as Consumer Commodity, ORM-D
UN1950, AEROSOLS, CLASS 2.1, LIMITED QUANTITY, (ERG#126)

IMO

May be shipped as Limited Quantity
UN1950, AEROSOLS, CLASS 2.1, LIMITED QUANTITY, EmS F-D, S-U

SECTION 15 — REGULATORY INFORMATION

SARA 313 *(40 CFR 372.65C)* SUPPLIER NOTIFICATION

CAS No.	CHEMICAL/COMPOUND	% by WT	% Element
108-88-3	Toluene	9	
100-41-4	Ethylbenzene	0.3	
1330-20-7	Xylene	2	
71-36-3	1-Butanol	1	
108-10-1	Methyl Isobutyl Ketone	3	

CALIFORNIA PROPOSITION 65

WARNING: This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.

TSCA CERTIFICATION

All chemicals in this product are listed, or are exempt from listing, on the TSCA Inventory.

SECTION 16 — OTHER INFORMATION

This product has been classified in accordance with the hazard criteria of the Canadian Controlled Products Regulations (CPR) and the MSDS contains all of the information required by the CPR.

The above information pertains to this product as currently formulated, and is based on the information available at this time. Addition of reducers or other additives to this product may substantially alter the composition and hazards of the product. Since conditions of use are outside our control, we make no warranties, express or implied, and assume no liability in connection with any use of this information.

MATERIAL SAFETY DATA SHEET

F7B155
08 00

DATE OF PREPARATION
Mar 1, 2009

SECTION 1 — PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NUMBER
F7B155
PRODUCT NAME
Chassis Enamel, Black
MANUFACTURER'S NAME
SHERWIN-WILLIAMS AUTOMOTIVE FINISHES
101 Prospect Avenue N.W.
Cleveland, OH 44115

Telephone Numbers and Websites

Product Information	(800) 798-5872 www.sherwin-automotive.com
Regulatory Information	(216) 566-2902
Medical Emergency	(216) 566-2917
Transportation Emergency*	(800) 424-9300
**for Chemical Emergency ONLY (spill, leak, fire, exposure, or accident)*	

SECTION 2 — COMPOSITION/INFORMATION ON INGREDIENTS

% by Weight	CAS Number	Ingredient	Units	Vapor Pressure
26	**64742-89-8**	**V. M. & P. Naphtha**		
		ACGIH TLV	300 PPM	12 mm
		OSHA PEL	300 PPM	
		OSHA PEL	400 PPM STEL	
24	**108-88-3**	**Toluene**		
		ACGIH TLV	20 PPM	22 mm
		OSHA PEL	100 PPM (Skin)	
		OSHA PEL	150 PPM (Skin) STEL	
0.8	**100-41-4**	**Ethylbenzene**		
		ACGIH TLV	100 PPM	7.1 mm
		ACGIH TLV	125 PPM STEL	
		OSHA PEL	100 PPM	
		OSHA PEL	125 PPM STEL	
5	**1330-20-7**	**Xylene**		
		ACGIH TLV	100 PPM	5.9 mm
		ACGIH TLV	150 PPM STEL	
		OSHA PEL	100 PPM	
		OSHA PEL	150 PPM STEL	
3	**64742-95-6**	**Light Aromatic Hydrocarbons**		
		ACGIH TLV	Not Available	3.8 mm
		OSHA PEL	Not Available	
1	**108-67-8**	**1,3,5-Trimethylbenzene**		
		ACGIH TLV	25 PPM	2 mm
		OSHA PEL	25 PPM	
4	**95-63-6**	**1,2,4-Trimethylbenzene**		
		ACGIH TLV	25 PPM	2.03 mm
		OSHA PEL	25 PPM	
1	**Proprietary**	**Polyamide**		
		ACGIH TLV	Not Available	
		OSHA PEL	Not Available	
2	**1333-86-4**	**Carbon Black**		
		ACGIH TLV	3.5 MG/M3	
		OSHA PEL	3.5 MG/M3	

SECTION 3 — HAZARDS IDENTIFICATION

ROUTES OF EXPOSURE

INHALATION of vapor or spray mist.
EYE or SKIN contact with the product, vapor or spray mist.

HMIS Codes

Health	2*
Flammability	3
Reactivity	0

EFFECTS OF OVEREXPOSURE

EYES: Causes burns.
SKIN: Causes burns.
INHALATION: Irritation of the upper respiratory system.

May cause nervous system depression. Extreme overexposure may result in unconsciousness and possibly death.
Prolonged overexposure to solvent ingredients in Section 2 may cause adverse effects to the liver, urinary, cardiovascular and reproductive systems.

SIGNS AND SYMPTOMS OF OVEREXPOSURE

Headache, dizziness, nausea, and loss of coordination are indications of excessive exposure to vapors or spray mists.
Redness and itching or burning sensation may indicate eye or excessive skin exposure.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE

May cause allergic skin reaction in susceptible persons or skin sensitization.

CANCER INFORMATION

For complete discussion of toxicology data refer to Section 11.

SECTION 4 — FIRST AID MEASURES

EYES: Flush eyes with large amounts of water for 15 minutes. Get medical attention **IMMEDIATELY**.
SKIN: Wash affected area thoroughly with soap and water.
If irritation persists or occurs later, get medical attention.
Remove contaminated clothing and launder before re-use.
INHALATION: If affected, remove from exposure. Restore breathing. Keep warm and quiet.
INGESTION: Do not induce vomiting. Get medical attention immediately.

SECTION 5 — FIRE FIGHTING MEASURES

FLASH POINT	LEL	UEL	FLAMMABILITY CLASSIFICATION
51° F PMCC	0.7	7.0	RED LABEL -- Flammable, Flash below 100° F (38 °C)

EXTINGUISHING MEDIA

Carbon Dioxide, Dry Chemical, Foam

UNUSUAL FIRE AND EXPLOSION HAZARDS

Closed containers may explode when exposed to extreme heat.
Application to hot surfaces requires special precautions.
During emergency conditions overexposure to decomposition products may cause a health hazard. Symptoms may not be immediately apparent. Obtain medical attention.

SPECIAL FIRE FIGHTING PROCEDURES

Full protective equipment including self-contained breathing apparatus should be used.
Water spray may be ineffective. If water is used, fog nozzles are preferable. Water may be used to cool closed containers to prevent pressure build-up and possible autoignition or explosion when exposed to extreme heat.

SECTION 6 — ACCIDENTAL RELEASE MEASURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED

- Remove all sources of ignition. Ventilate the area.
- Remove with inert absorbent.

SECTION 7 — HANDLING AND STORAGE

STORAGE CATEGORY

DOL Storage Class IB

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE

Contents are FLAMMABLE. Keep away from heat, sparks, and open flame.
During use and until all vapors are gone: Keep area ventilated - Do not smoke - Extinguish all flames, pilot lights, and heaters - Turn off stoves, electric tools and appliances, and any other sources of ignition.
Consult NFPA Code. Use approved Bonding and Grounding procedures.
Keep container closed when not in use. Transfer only to approved containers with complete and appropriate labeling. Do not take internally. Keep out of the reach of children.

SECTION 8 — EXPOSURE CONTROLS/PERSONAL PROTECTION

PRECAUTIONS TO BE TAKEN IN USE

Use only with adequate ventilation.
Do not get in eyes or on skin. Avoid breathing vapor and spray mist.
Wash hands after using.

This coating may contain materials classified as nuisance particulates (listed "as Dust" in Section 2) which may be present at hazardous levels only during sanding or abrading of the dried film. If no specific dusts are listed in Section 2, the applicable limits for nuisance dusts are ACGIH TLV 10 mg/m3 (total dust), 3 mg/m3 (respirable fraction), OSHA PEL 15 mg/m3 (total dust), 5 mg/m3 (respirable fraction).

VENTILATION

Local exhaust preferable. General exhaust acceptable if the exposure to materials in Section 2 is maintained below applicable exposure limits. Refer to OSHA Standards 1910.94, 1910.107, 1910.108.

RESPIRATORY PROTECTION

If personal exposure cannot be controlled below applicable limits by ventilation, wear a properly fitted organic vapor/particulate respirator approved by NIOSH/MSHA for protection against materials in Section 2.

When sanding or abrading the dried film, wear a dust/mist respirator approved by NIOSH/MSHA for dust which may be generated from this product, underlying paint, or the abrasive.

PROTECTIVE GLOVES

To prevent skin contact, wear gloves which are recommended by glove supplier for protection against materials in Section 2.

EYE PROTECTION

To prevent eye contact, wear safety spectacles with unperforated sideshields.

OTHER PROTECTIVE EQUIPMENT

Use barrier cream on exposed skin.

OTHER PRECAUTIONS

Intentional misuse by deliberately concentrating and inhaling the contents can be harmful or fatal.

SECTION 9 — PHYSICAL AND CHEMICAL PROPERTIES

PRODUCT WEIGHT	7.44 lb/gal	891 g/l
SPECIFIC GRAVITY	0.90	
BOILING POINT	222 - 360° F	105 - 182° C
MELTING POINT	Not Available	
VOLATILE VOLUME	70%	
EVAPORATION RATE	Slower than ether	
VAPOR DENSITY	Heavier than air	
SOLUBILITY IN WATER	N.A.	

VOLATILE ORGANIC COMPOUNDS (VOC Theoretical - As Packaged)

4.78lb/gal	573g/l	Less Water and Federally Exempt Solvents
4.78lb/gal	573g/l	Emitted VOC

SECTION 10 — STABILITY AND REACTIVITY

STABILITY — Stable

CONDITIONS TO AVOID

None known.

INCOMPATIBILITY

None known.

HAZARDOUS DECOMPOSITION PRODUCTS

By fire: Carbon Dioxide, Carbon Monoxide

HAZARDOUS POLYMERIZATION

Will not occur

SECTION 11 — TOXICOLOGICAL INFORMATION

CHRONIC HEALTH HAZARDS

Reports have associated repeated and prolonged overexposure to solvents with permanent brain and nervous system damage.

Ethylbenzene is classified by IARC as possibly carcinogenic to humans (2B) based on inadequate evidence in humans and sufficient evidence in laboratory animals. Lifetime inhalation exposure of rats and mice to high ethylbenzene concentrations resulted in increases in certain types of cancer, including kidney tumors in rats and lung and liver tumors in mice. These effects were not observed in animals exposed to lower concentrations. There is no evidence that ethylbenzene causes cancer in humans.

Carbon Black is classified by IARC as possibly carcinogenic to humans (group 2B) based on experimental animal data, however, there is insufficient evidence in humans for its carcinogenicity.

TOXICOLOGY DATA

CAS No.	Ingredient Name			
64742-89-8	**V. M. & P. Naphtha**			
		LC50 RAT	4HR	Not Available
		LD50 RAT		Not Available
108-88-3	**Toluene**			
		LC50 RAT	4HR	4000 ppm
		LD50 RAT		5000 mg/kg
100-41-4	**Ethylbenzene**			
		LC50 RAT	4HR	Not Available
		LD50 RAT		3500 mg/kg
1330-20-7	**Xylene**			
		LC50 RAT	4HR	5000 ppm
		LD50 RAT		4300 mg/kg
64742-95-6	**Light Aromatic Hydrocarbons**			
		LC50 RAT	4HR	Not Available
		LD50 RAT		Not Available
108-67-8	**1,3,5-Trimethylbenzene**			
		LC50 RAT	4HR	Not Available
		LD50 RAT		Not Available
95-63-6	**1,2,4-Trimethylbenzene**			
		LC50 RAT	4HR	Not Available
		LD50 RAT		Not Available
Proprietary	**Polyamide**			
		LC50 RAT	4HR	Not Available
		LD50 RAT		Not Available
1333-86-4	**Carbon Black**			
		LC50 RAT	4HR	Not Available
		LD50 RAT		Not Available

SECTION 12 — ECOLOGICAL INFORMATION

ECOTOXICOLOGICAL INFORMATION

No data available.

SECTION 13 — DISPOSAL CONSIDERATIONS

WASTE DISPOSAL METHOD

Waste from this product may be hazardous as defined under the Resource Conservation and Recovery Act (RCRA) 40 CFR 261.
Waste must be tested for ignitability to determine the applicable EPA hazardous waste numbers.
Incinerate in approved facility. Do not incinerate closed container. Dispose of in accordance with Federal, State/Provincial, and Local regulations regarding pollution.

SECTION 14 — TRANSPORT INFORMATION

US Ground (DOT)

1 Gallon and Less may be Classed as CONSUMER COMMODITY, ORM-D
Larger Containers are Regulated as:
UN1263, PAINT, 3, PG II, (ERG#128)

DOT (Dept of Transportation) Hazardous Substances & Reportable Quantities

Toluene 1000 lb RQ
Xylenes (isomers and mixture) 100 lb RQ

Bulk Containers may be Shipped as (check reportable quantities):

UN1263, PAINT, 3, PG II, (ERG#128)

Canada (TDG)

UN1263, PAINT, CLASS 3, PG II, (ERG#128)

IMO

UN1263, PAINT, CLASS 3, PG II, (11 C c.c.), EmS F-E, S-E

SECTION 15 — REGULATORY INFORMATION

SARA 313 *(40 CFR 372.65C)* SUPPLIER NOTIFICATION

CAS No.	CHEMICAL/COMPOUND	% by WT	% Element
108-88-3	Toluene	24	
100-41-4	Ethylbenzene	0.7	
1330-20-7	Xylene	5	
95-63-6	1,2,4-Trimethylbenzene	4	

CALIFORNIA PROPOSITION 65

WARNING: This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.

TSCA CERTIFICATION

All chemicals in this product are listed, or are exempt from listing, on the TSCA Inventory.

SECTION 16 — OTHER INFORMATION

This product has been classified in accordance with the hazard criteria of the Canadian Controlled Products Regulations (CPR) and the MSDS contains all of the information required by the CPR.

The above information pertains to this product as currently formulated, and is based on the information available at this time. Addition of reducers or other additives to this product may substantially alter the composition and hazards of the product. Since conditions of use are outside our control, we make no warranties, express or implied, and assume no liability in connection with any use of this information.

MATERIAL SAFETY DATA SHEET

W1020
11 00

DATE OF PREPARATION
Mar 3, 2009

SECTION 1 — PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NUMBER
W1020

PRODUCT NAME
HI-GLO® INTERLOCK® Gloss Hardener

MANUFACTURER'S NAME
WESTERN AUTOMOTIVE FINISHES
101 Prospect Avenue N.W.
Cleveland, OH 44115

Telephone Numbers and Websites

Regulatory Information	(216) 566-2902
Medical Emergency	(216) 566-2917
Transportation Emergency*	(800) 424-9300
**for Chemical Emergency ONLY (spill, leak, fire, exposure, or accident)*	

SECTION 2 — COMPOSITION/INFORMATION ON INGREDIENTS

% by Weight	CAS Number	Ingredient	Units	Vapor Pressure
0.1	**100-41-4**	**Ethylbenzene**		
		ACGIH TLV	100 PPM	7.1 mm
		ACGIH TLV	125 PPM STEL	
		OSHA PEL	100 PPM	
		OSHA PEL	125 PPM STEL	
2	**64742-95-6**	**Light Aromatic Hydrocarbons**		
		ACGIH TLV	Not Available	3.8 mm
		OSHA PEL	Not Available	
2	**108-67-8**	**1,3,5-Trimethylbenzene**		
		ACGIH TLV	25 PPM	2 mm
		OSHA PEL	25 PPM	
4	**95-63-6**	**1,2,4-Trimethylbenzene**		
		ACGIH TLV	25 PPM	2.03 mm
		OSHA PEL	25 PPM	
27	**123-86-4**	**n-Butyl Acetate**		
		ACGIH TLV	150 PPM	10 mm
		ACGIH TLV	200 PPM STEL	
		OSHA PEL	150 PPM	
		OSHA PEL	200 PPM STEL	
19	**108-65-6**	**1-Methoxy-2-Propanol Acetate**		
		ACGIH TLV	Not Available	1.8 mm
		OSHA PEL	Not Available	
0.2	**4098-71-9**	**Isophorone Diisocyanate (max.)**		
		ACGIH TLV	0.005 PPM (Skin)	
		OSHA PEL	0.005 PPM (Skin)	
		OSHA PEL	0.02 PPM (Skin) STEL	
13	**28182-81-2**	**Hexamethylene Diisocyanate Polymer**		
		ACGIH TLV	Not Available	
		OSHA PEL	Not Available	
31	**Proprietary**	**Isophorone Diisocyanate Polymer**		
		ACGIH TLV	Not Available	
		OSHA PEL	Not Available	

SECTION 3 — HAZARDS IDENTIFICATION

ROUTES OF EXPOSURE
INHALATION of vapor or spray mist.
EYE or SKIN contact with the product, vapor or spray mist.

HMIS Codes

Health	3*
Flammability	3
Reactivity	1

EFFECTS OF OVEREXPOSURE

EYES: Irritation.
SKIN: Prolonged or repeated exposure may cause irritation.
INHALATION: Irritation of the upper respiratory system.

May cause nervous system depression. Extreme overexposure may result in unconsciousness and possibly death.
Prolonged overexposure to solvent ingredients in Section 2 may cause adverse effects to the liver, urinary, blood forming and reproductive systems.

SIGNS AND SYMPTOMS OF OVEREXPOSURE

Headache, dizziness, nausea, and loss of coordination are indications of excessive exposure to vapors or spray mists.
Redness and itching or burning sensation may indicate eye or excessive skin exposure.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE

May cause allergic respiratory and/or skin reaction in susceptible persons or sensitization. This effect may be delayed several hours after exposure.
Persons sensitive to isocyanates will experience increased allergic reaction on repeated exposure.

CANCER INFORMATION

For complete discussion of toxicology data refer to Section 11.

SECTION 4 — FIRST AID MEASURES

EYES: Flush eyes with large amounts of water for 15 minutes. Get medical attention.
SKIN: Wash affected area thoroughly with soap and water.
Remove contaminated clothing and launder before re-use.
INHALATION: If any breathing problems occur during use, **LEAVE THE AREA** and get fresh air. If problems remain or occur later, **IMMEDIATELY** get medical attention.
INGESTION: Do not induce vomiting. Get medical attention immediately.

SECTION 5 — FIRE FIGHTING MEASURES

FLASH POINT	LEL	UEL	FLAMMABILITY CLASSIFICATION
80° F PMCC	0.7	13.1	RED LABEL -- Flammable, Flash below 100° F (38 °C)

EXTINGUISHING MEDIA

Carbon Dioxide, Dry Chemical, Foam

UNUSUAL FIRE AND EXPLOSION HAZARDS

Closed containers may explode when exposed to extreme heat.
Application to hot surfaces requires special precautions.
During emergency conditions overexposure to decomposition products may cause a health hazard. Symptoms may not be immediately apparent. Obtain medical attention.

SPECIAL FIRE FIGHTING PROCEDURES

Full protective equipment including self-contained breathing apparatus should be used.
Water spray may be ineffective. If water is used, fog nozzles are preferable. Water may be used to cool closed containers to prevent pressure build-up and possible autoignition or explosion when exposed to extreme heat.

SECTION 6 — ACCIDENTAL RELEASE MEASURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED

- Remove all sources of ignition. Ventilate the area.
- All personnel in the area should be protected as in Section 8.
- Cover spill with absorbent material. Deactivate spilled material with a 10% ammonium hydroxide solution (household ammonia). After 10 minutes, collect in open containers and add more ammonia. Cover loosely. Wash spill area with soap and water.

SECTION 7 — HANDLING AND STORAGE

STORAGE CATEGORY

DOL Storage Class IC

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE

Contents are FLAMMABLE. Keep away from heat, sparks, and open flame.
During use and until all vapors are gone: Keep area ventilated - Do not smoke - Extinguish all flames, pilot lights, and heaters - Turn off stoves, electric tools and appliances, and any other sources of ignition.
Consult NFPA Code. Use approved Bonding and Grounding procedures.
Keep container closed when not in use. Transfer only to approved containers with complete and appropriate labeling. Do not take internally. Keep out of the reach of children.

SECTION 8 — EXPOSURE CONTROLS/PERSONAL PROTECTION

PRECAUTIONS TO BE TAKEN IN USE

NO PERSON SHOULD USE THIS PRODUCT, OR BE IN THE AREA WHERE IT IS BEING USED, IF THEY HAVE CHRONIC (LONG-TERM) LUNG OR BREATHING PROBLEMS OR IF THEY EVER HAD A REACTION TO ISOCYANATES.

Use only with adequate ventilation.
Avoid contact with skin and eyes. Avoid breathing vapor and spray mist.
Wash hands after using.
This coating may contain materials classified as nuisance particulates (listed "as Dust" in Section 2) which may be present at hazardous levels only during sanding or abrading of the dried film. If no specific dusts are listed in Section 2, the applicable limits for nuisance dusts are ACGIH TLV 10 mg/m3 (total dust), 3 mg/m3 (respirable fraction), OSHA PEL 15 mg/m3 (total dust), 5 mg/m3 (respirable fraction).

VENTILATION

Local exhaust preferable. General exhaust acceptable if the exposure to materials in Section 2 is maintained below applicable exposure limits. Refer to OSHA Standards 1910.94, 1910.107, 1910.108.

RESPIRATORY PROTECTION

Where overspray is present, a positive pressure air supplied respirator (TC19C NIOSH/MSHA approved) should be worn. If unavailable, a properly fitted organic vapor/particulate respirator approved by NIOSH/MSHA for protection against materials in Section 2 may be effective. Follow respirator manufacturers directions for use. Wear the respirator for the whole time of spraying and until all vapors and mists are gone. **NO PERSONS SHOULD BE ALLOWED IN THE AREA WHERE THIS PRODUCT IS BEING USED UNLESS EQUIPPED WITH THE SAME RESPIRATOR PROTECTION RECOMMENDED FOR THE PAINTERS.**

When sanding or abrading the dried film, wear a dust/mist respirator approved by NIOSH/MSHA for dust which may be generated from this product, underlying paint, or the abrasive.

PROTECTIVE GLOVES

To prevent skin contact, wear gloves which are recommended by glove supplier for protection against materials in Section 2.

EYE PROTECTION

Wear safety spectacles with unperforated sideshields.

OTHER PROTECTIVE EQUIPMENT

Use barrier cream on exposed skin.

OTHER PRECAUTIONS

Intentional misuse by deliberately concentrating and inhaling the contents can be harmful or fatal.

SECTION 9 — PHYSICAL AND CHEMICAL PROPERTIES

PRODUCT WEIGHT	8.37 lb/gal	1002 g/l
SPECIFIC GRAVITY	1.01	
BOILING POINT	255 - 360° F	123 - 182° C
MELTING POINT	Not Available	
VOLATILE VOLUME	61%	
EVAPORATION RATE	Slower than ether	
VAPOR DENSITY	Heavier than air	
SOLUBILITY IN WATER	N.A.	

VOLATILE ORGANIC COMPOUNDS (VOC Theoretical - As Packaged)

4.61lb/gal	553g/l	Less Water and Federally Exempt Solvents
4.61lb/gal	553g/l	Emitted VOC

SECTION 10 — STABILITY AND REACTIVITY

STABILITY — Stable

CONDITIONS TO AVOID

None known.

INCOMPATIBILITY

Contamination with Water, Alcohols, Amines and other compounds which react with isocyanates, may result in dangerous pressure in, and possible bursting of, closed containers.

HAZARDOUS DECOMPOSITION PRODUCTS

By fire: Carbon Dioxide, Carbon Monoxide , Oxides of Nitrogen, possibility of Hydrogen Cyanide

HAZARDOUS POLYMERIZATION

Will not occur

SECTION 11 — TOXICOLOGICAL INFORMATION

CHRONIC HEALTH HAZARDS

Reports have associated repeated and prolonged overexposure to solvents with permanent brain and nervous system damage.
Ethylbenzene is classified by IARC as possibly carcinogenic to humans (2B) based on inadequate evidence in humans and sufficient evidence in laboratory animals. Lifetime inhalation exposure of rats and mice to high ethylbenzene concentrations resulted in increases in certain types of cancer, including kidney tumors in rats and lung and liver tumors in mice. These effects were not observed in animals exposed to lower concentrations. There is no evidence that ethylbenzene causes cancer in humans.

TOXICOLOGY DATA

CAS No.	Ingredient Name			
100-41-4	**Ethylbenzene**			
		LC50 RAT	4HR	Not Available
		LD50 RAT		3500 mg/kg
64742-95-6	**Light Aromatic Hydrocarbons**			
		LC50 RAT	4HR	Not Available
		LD50 RAT		Not Available
108-67-8	**1,3,5-Trimethylbenzene**			
		LC50 RAT	4HR	Not Available
		LD50 RAT		Not Available
95-63-6	**1,2,4-Trimethylbenzene**			
		LC50 RAT	4HR	Not Available
		LD50 RAT		Not Available
123-86-4	**n-Butyl Acetate**			
		LC50 RAT	4HR	2000 ppm
		LD50 RAT		13100 mg/kg
108-65-6	**1-Methoxy-2-Propanol Acetate**			
		LC50 RAT	4HR	Not Available
		LD50 RAT		8500 mg/kg
4098-71-9	**Isophorone Diisocyanate (max.)**			
		LC50 RAT	4HR	Not Available
		LD50 RAT		2500. mg/kg
28182-81-2	**Hexamethylene Diisocyanate Polymer**			
		LC50 RAT	4HR	Not Available
		LD50 RAT		Not Available
Proprietary	**Isophorone Diisocyanate Polymer**			
		LC50 RAT	4HR	Not Available
		LD50 RAT		4825 mg/kg

SECTION 12 — ECOLOGICAL INFORMATION

ECOTOXICOLOGICAL INFORMATION

No data available.

SECTION 13 — DISPOSAL CONSIDERATIONS

WASTE DISPOSAL METHOD

Waste from this product may be hazardous as defined under the Resource Conservation and Recovery Act (RCRA) 40 CFR 261.
Waste must be tested for ignitability to determine the applicable EPA hazardous waste numbers.
Incinerate in approved facility. Do not incinerate closed container. Dispose of in accordance with Federal, State/Provincial, and Local regulations regarding pollution.

SECTION 14 — TRANSPORT INFORMATION

US Ground (DOT)

1 Gallon and Less may be Classed as CONSUMER COMMODITY, ORM-D
Larger Containers are Regulated as:
UN1263, PAINT RELATED MATERIAL, 3, PG III, (ERG#128)

DOT (Dept of Transportation) Hazardous Substances & Reportable Quantities

n-Butyl acetate 5000 lb RQ
Xylenes (isomers and mixture) 100 lb RQ

Bulk Containers may be Shipped as (check reportable quantities):

UN1263, PAINT RELATED MATERIAL, 3, PG III, (ERG#128)

Canada (TDG)

UN1263, PAINT RELATED MATERIAL, CLASS 3, PG III, LIMITED QUANTITY, (ERG#128)

IMO

UN1263, PAINT RELATED MATERIAL, CLASS 3, PG III, (27 C c.c.), EmS F-E, S-E

SECTION 15 — REGULATORY INFORMATION

SARA 313 *(40 CFR 372.65C)* SUPPLIER NOTIFICATION

CAS No.	CHEMICAL/COMPOUND	% by WT	% Element
100-41-4	Ethylbenzene	0.1	
95-63-6	1,2,4-Trimethylbenzene	4	

CALIFORNIA PROPOSITION 65

WARNING: This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.

TSCA CERTIFICATION

All chemicals in this product are listed, or are exempt from listing, on the TSCA Inventory.

SECTION 16 — OTHER INFORMATION

This product has been classified in accordance with the hazard criteria of the Canadian Controlled Products Regulations (CPR) and the MSDS contains all of the information required by the CPR.

The above information pertains to this product as currently formulated, and is based on the information available at this time. Addition of reducers or other additives to this product may substantially alter the composition and hazards of the product. Since conditions of use are outside our control, we make no warranties, express or implied, and assume no liability in connection with any use of this information.

MATERIAL SAFETY DATA SHEET

R4K179
20 00

DATE OF PREPARATION
Mar 1, 2009

SECTION 1 — PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NUMBER
R4K179

PRODUCT NAME
KEM-TRANSPORT® Synthetic Enamel Reducer, Medium

MANUFACTURER'S NAME
SHERWIN-WILLIAMS AUTOMOTIVE FINISHES
101 Prospect Avenue N.W.
Cleveland, OH 44115

Telephone Numbers and Websites

Product Information	(800) 798-5872 www.sherwin-automotive.com
Regulatory Information	(216) 566-2902
Medical Emergency	(216) 566-2917
Transportation Emergency*	(800) 424-9300
**for Chemical Emergency ONLY (spill, leak, fire, exposure, or accident)*	

SECTION 2 — COMPOSITION/INFORMATION ON INGREDIENTS

% by Weight	CAS Number	Ingredient	Units	Vapor Pressure
8	**100-41-4**	**Ethylbenzene**		
		ACGIH TLV	100 PPM	7.1 mm
		ACGIH TLV	125 PPM STEL	
		OSHA PEL	100 PPM	
		OSHA PEL	125 PPM STEL	
46	**1330-20-7**	**Xylene**		
		ACGIH TLV	100 PPM	5.9 mm
		ACGIH TLV	150 PPM STEL	
		OSHA PEL	100 PPM	
		OSHA PEL	150 PPM STEL	
3	**64742-95-6**	**Light Aromatic Hydrocarbons**		
		ACGIH TLV	Not Available	3.8 mm
		OSHA PEL	Not Available	
1	**108-67-8**	**1,3,5-Trimethylbenzene**		
		ACGIH TLV	25 PPM	2 mm
		OSHA PEL	25 PPM	
5	**95-63-6**	**1,2,4-Trimethylbenzene**		
		ACGIH TLV	25 PPM	2.03 mm
		OSHA PEL	25 PPM	
36	**67-64-1**	**Acetone**		
		ACGIH TLV	500 PPM	180 mm
		ACGIH TLV	750 PPM STEL	
		OSHA PEL	1000 PPM	

SECTION 3 — HAZARDS IDENTIFICATION

ROUTES OF EXPOSURE
INHALATION of vapor or spray mist.
EYE or SKIN contact with the product, vapor or spray mist.

HMIS Codes

Health	2*
Flammability	3
Reactivity	0

EFFECTS OF OVEREXPOSURE

EYES: Irritation.
SKIN: Prolonged or repeated exposure may cause irritation.
INHALATION: Irritation of the upper respiratory system.

May cause nervous system depression. Extreme overexposure may result in unconsciousness and possibly death.
Prolonged overexposure to solvent ingredients in Section 2 may cause adverse effects to the liver, urinary and reproductive systems.

SIGNS AND SYMPTOMS OF OVEREXPOSURE

Headache, dizziness, nausea, and loss of coordination are indications of excessive exposure to vapors or spray mists.
Redness and itching or burning sensation may indicate eye or excessive skin exposure.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE

None generally recognized.

CANCER INFORMATION

For complete discussion of toxicology data refer to Section 11.

SECTION 4 — FIRST AID MEASURES

EYES: Flush eyes with large amounts of water for 15 minutes. Get medical attention.
SKIN: Wash affected area thoroughly with soap and water.
Remove contaminated clothing and launder before re-use.
INHALATION: If affected, remove from exposure. Restore breathing. Keep warm and quiet.
INGESTION: Do not induce vomiting. Get medical attention immediately.

SECTION 5 — FIRE FIGHTING MEASURES

FLASH POINT	LEL	UEL	FLAMMABILITY CLASSIFICATION
40° F TCC	0.7	12.8	RED LABEL -- Flammable, Flash below 100° F (38 °C)

EXTINGUISHING MEDIA

Carbon Dioxide, Dry Chemical, Foam

UNUSUAL FIRE AND EXPLOSION HAZARDS

Closed containers may explode when exposed to extreme heat.
Application to hot surfaces requires special precautions.
During emergency conditions overexposure to decomposition products may cause a health hazard. Symptoms may not be immediately apparent. Obtain medical attention.

SPECIAL FIRE FIGHTING PROCEDURES

Full protective equipment including self-contained breathing apparatus should be used.
Water spray may be ineffective. If water is used, fog nozzles are preferable. Water may be used to cool closed containers to prevent pressure build-up and possible autoignition or explosion when exposed to extreme heat.

SECTION 6 — ACCIDENTAL RELEASE MEASURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED

- Remove all sources of ignition. Ventilate the area.
- Remove with inert absorbent.

SECTION 7 — HANDLING AND STORAGE

STORAGE CATEGORY

DOL Storage Class IB

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE

Contents are FLAMMABLE. Keep away from heat, sparks, and open flame.
During use and until all vapors are gone: Keep area ventilated - Do not smoke - Extinguish all flames, pilot lights, and heaters - Turn off stoves, electric tools and appliances, and any other sources of ignition.
Consult NFPA Code. Use approved Bonding and Grounding procedures.
Keep container closed when not in use. Transfer only to approved containers with complete and appropriate labeling. Do not take internally. Keep out of the reach of children.

SECTION 8 — EXPOSURE CONTROLS/PERSONAL PROTECTION

PRECAUTIONS TO BE TAKEN IN USE

Use only with adequate ventilation.
Avoid contact with skin and eyes. Avoid breathing vapor and spray mist.
Wash hands after using.

VENTILATION

Local exhaust preferable. General exhaust acceptable if the exposure to materials in Section 2 is maintained below applicable exposure limits. Refer to OSHA Standards 1910.94, 1910.107, 1910.108.

RESPIRATORY PROTECTION

If personal exposure cannot be controlled below applicable limits by ventilation, wear a properly fitted organic vapor/particulate respirator approved by NIOSH/MSHA for protection against materials in Section 2.

PROTECTIVE GLOVES

Wear gloves which are recommended by glove supplier for protection against materials in Section 2.

EYE PROTECTION

Wear safety spectacles with unperforated sideshields.

OTHER PRECAUTIONS

Intentional misuse by deliberately concentrating and inhaling the contents can be harmful or fatal.

SECTION 9 — PHYSICAL AND CHEMICAL PROPERTIES

PRODUCT WEIGHT	6.96 lb/gal	833 g/l
SPECIFIC GRAVITY	0.84	
BOILING POINT	132 - 360° F	55 - 182° C
MELTING POINT	Not Available	
VOLATILE VOLUME	99%	
EVAPORATION RATE	Slower than ether	
VAPOR DENSITY	Heavier than air	
SOLUBILITY IN WATER	N.A.	

VOLATILE ORGANIC COMPOUNDS (VOC Theoretical - As Packaged)

7.18lb/gal	860g/l	Less Water and Federally Exempt Solvents
4.45lb/gal	533g/l	Emitted VOC

SECTION 10 — STABILITY AND REACTIVITY

STABILITY — Stable

CONDITIONS TO AVOID

None known.

INCOMPATIBILITY

None known.

HAZARDOUS DECOMPOSITION PRODUCTS

By fire: Carbon Dioxide, Carbon Monoxide

HAZARDOUS POLYMERIZATION

Will not occur

SECTION 11 — TOXICOLOGICAL INFORMATION

CHRONIC HEALTH HAZARDS

Reports have associated repeated and prolonged overexposure to solvents with permanent brain and nervous system damage.

Ethylbenzene is classified by IARC as possibly carcinogenic to humans (2B) based on inadequate evidence in humans and sufficient evidence in laboratory animals. Lifetime inhalation exposure of rats and mice to high ethylbenzene concentrations resulted in increases in certain types of cancer, including kidney tumors in rats and lung and liver tumors in mice. These effects were not observed in animals exposed to lower concentrations. There is no evidence that ethylbenzene causes cancer in humans.

TOXICOLOGY DATA

CAS No.	Ingredient Name			
100-41-4	**Ethylbenzene**			
		LC50 RAT	4HR	Not Available
		LD50 RAT		3500 mg/kg
1330-20-7	**Xylene**			
		LC50 RAT	4HR	5000 ppm
		LD50 RAT		4300 mg/kg
64742-95-6	**Light Aromatic Hydrocarbons**			
		LC50 RAT	4HR	Not Available
		LD50 RAT		Not Available
108-67-8	**1,3,5-Trimethylbenzene**			
		LC50 RAT	4HR	Not Available
		LD50 RAT		Not Available
95-63-6	**1,2,4-Trimethylbenzene**			
		LC50 RAT	4HR	Not Available
		LD50 RAT		Not Available
67-64-1	**Acetone**			
		LC50 RAT	4HR	Not Available
		LD50 RAT		5800 mg/kg

SECTION 12 — ECOLOGICAL INFORMATION

ECOTOXICOLOGICAL INFORMATION

No data available.

SECTION 13 — DISPOSAL CONSIDERATIONS

WASTE DISPOSAL METHOD

Waste from this product may be hazardous as defined under the Resource Conservation and Recovery Act (RCRA) 40 CFR 261.

Waste must be tested for ignitability to determine the applicable EPA hazardous waste numbers.

Incinerate in approved facility. Do not incinerate closed container. Dispose of in accordance with Federal, State/Provincial, and Local regulations regarding pollution.

SECTION 14 — TRANSPORT INFORMATION

US Ground (DOT)

1 Gallon and Less may be Classed as CONSUMER COMMODITY, ORM-D
Larger Containers are Regulated as:
UN1263, PAINT RELATED MATERIAL, 3, PG II, (ERG#128)

DOT (Dept of Transportation) Hazardous Substances & Reportable Quantities

Acetone 5000 lb RQ
Ethyl benzene 1000 lb RQ
Xylenes (isomers and mixture) 100 lb RQ

Bulk Containers may be Shipped as (check reportable quantities):

RQ, UN1263, PAINT RELATED MATERIAL, 3, PG II, (XYLENES (ISOMERS AND MIXTURE)), (ERG#128)

Canada (TDG)

UN1263, PAINT RELATED MATERIAL, CLASS 3, PG II, (ERG#128)

IMO

UN1263, PAINT RELATED MATERIAL, CLASS 3, PG II, (4 C c.c.), EmS F-E, S-E

SECTION 15 — REGULATORY INFORMATION

SARA 313 *(40 CFR 372.65C)* SUPPLIER NOTIFICATION

CAS No.	CHEMICAL/COMPOUND	% by WT	% Element
100-41-4	Ethylbenzene	8	
1330-20-7	Xylene	46	
95-63-6	1,2,4-Trimethylbenzene	5	

CALIFORNIA PROPOSITION 65

WARNING: This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.

TSCA CERTIFICATION

All chemicals in this product are listed, or are exempt from listing, on the TSCA Inventory.

SECTION 16 — OTHER INFORMATION

This product has been classified in accordance with the hazard criteria of the Canadian Controlled Products Regulations (CPR) and the MSDS contains all of the information required by the CPR.

The above information pertains to this product as currently formulated, and is based on the information available at this time. Addition of reducers or other additives to this product may substantially alter the composition and hazards of the product. Since conditions of use are outside our control, we make no warranties, express or implied, and assume no liability in connection with any use of this information.

MATERIAL SAFETY DATA SHEET

R91K20
02 00

DATE OF PREPARATION
Mar 2, 2009

SECTION 1 — PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NUMBER
R91K20

PRODUCT NAME
MIL-T-81772B, Type I Urethane Thinner (P&L 702900)

MANUFACTURER'S NAME
THE SHERWIN-WILLIAMS CO.
101 Prospect Avenue N.W.
Cleveland, OH 44115

Telephone Numbers and Websites

Regulatory Information	(216) 566-2902
Medical Emergency	(216) 566-2917
Transportation Emergency*	(800) 424-9300
**for Chemical Emergency ONLY (spill, leak, fire, exposure, or accident)*	

SECTION 2 — COMPOSITION/INFORMATION ON INGREDIENTS

% by Weight	CAS Number	Ingredient	Units	Vapor Pressure
10	**108-88-3**	**Toluene**		
		ACGIH TLV	20 PPM	22 mm
		OSHA PEL	100 PPM (Skin)	
		OSHA PEL	150 PPM (Skin) STEL	
1.0	**100-41-4**	**Ethylbenzene**		
		ACGIH TLV	100 PPM	7.1 mm
		ACGIH TLV	125 PPM STEL	
		OSHA PEL	100 PPM	
		OSHA PEL	125 PPM STEL	
6	**1330-20-7**	**Xylene**		
		ACGIH TLV	100 PPM	5.9 mm
		ACGIH TLV	150 PPM STEL	
		OSHA PEL	100 PPM	
		OSHA PEL	150 PPM STEL	
28	**78-93-3**	**Methyl Ethyl Ketone**		
		ACGIH TLV	200 PPM	70 mm
		ACGIH TLV	300 PPM STEL	
		OSHA PEL	200 PPM	
		OSHA PEL	300 PPM STEL	
11	**123-86-4**	**n-Butyl Acetate**		
		ACGIH TLV	150 PPM	10 mm
		ACGIH TLV	200 PPM STEL	
		OSHA PEL	150 PPM	
		OSHA PEL	200 PPM STEL	
44	**108-65-6**	**1-Methoxy-2-Propanol Acetate**		
		ACGIH TLV	Not Available	1.8 mm
		OSHA PEL	Not Available	

SECTION 3 — HAZARDS IDENTIFICATION

ROUTES OF EXPOSURE
INHALATION of vapor or spray mist.
EYE or SKIN contact with the product, vapor or spray mist.

EFFECTS OF OVEREXPOSURE
EYES: Irritation.
SKIN: Prolonged or repeated exposure may cause irritation.
INHALATION: Irritation of the upper respiratory system.

May cause nervous system depression. Extreme overexposure may result in unconsciousness and possibly death.

HMIS Codes

Health	2*
Flammability	3
Reactivity	0

Prolonged overexposure to solvent ingredients in Section 2 may cause adverse effects to the liver, urinary, blood forming, cardiovascular and reproductive systems.

SIGNS AND SYMPTOMS OF OVEREXPOSURE

Headache, dizziness, nausea, and loss of coordination are indications of excessive exposure to vapors or spray mists.
Redness and itching or burning sensation may indicate eye or excessive skin exposure.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE

None generally recognized.

CANCER INFORMATION

For complete discussion of toxicology data refer to Section 11.

SECTION 4 — FIRST AID MEASURES

EYES: Flush eyes with large amounts of water for 15 minutes. Get medical attention.
SKIN: Wash affected area thoroughly with soap and water.
Remove contaminated clothing and launder before re-use.
INHALATION: If affected, remove from exposure. Restore breathing. Keep warm and quiet.
INGESTION: Do not induce vomiting. Get medical attention immediately.

SECTION 5 — FIRE FIGHTING MEASURES

FLASH POINT	LEL	UEL	FLAMMABILITY CLASSIFICATION
24° F PMCC	1.0	13.1	RED LABEL -- Flammable, Flash below 100° F (38 °C)

EXTINGUISHING MEDIA

Carbon Dioxide, Dry Chemical, Foam

UNUSUAL FIRE AND EXPLOSION HAZARDS

Closed containers may explode when exposed to extreme heat.
Application to hot surfaces requires special precautions.
During emergency conditions overexposure to decomposition products may cause a health hazard. Symptoms may not be immediately apparent. Obtain medical attention.

SPECIAL FIRE FIGHTING PROCEDURES

Full protective equipment including self-contained breathing apparatus should be used.
Water spray may be ineffective. If water is used, fog nozzles are preferable. Water may be used to cool closed containers to prevent pressure build-up and possible autoignition or explosion when exposed to extreme heat.

SECTION 6 — ACCIDENTAL RELEASE MEASURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED

- Remove all sources of ignition. Ventilate the area.
- Remove with inert absorbent.

SECTION 7 — HANDLING AND STORAGE

STORAGE CATEGORY

DOL Storage Class IB

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE

Contents are FLAMMABLE. Keep away from heat, sparks, and open flame.
During use and until all vapors are gone: Keep area ventilated - Do not smoke - Extinguish all flames, pilot lights, and heaters - Turn off stoves, electric tools and appliances, and any other sources of ignition.
Consult NFPA Code. Use approved Bonding and Grounding procedures.
Keep container closed when not in use. Transfer only to approved containers with complete and appropriate labeling. Do not take internally. Keep out of the reach of children.

SECTION 8 — EXPOSURE CONTROLS/PERSONAL PROTECTION

PRECAUTIONS TO BE TAKEN IN USE

Use only with adequate ventilation.
Avoid contact with skin and eyes. Avoid breathing vapor and spray mist.
Wash hands after using.

VENTILATION

Local exhaust preferable. General exhaust acceptable if the exposure to materials in Section 2 is maintained below applicable exposure limits. Refer to OSHA Standards 1910.94, 1910.107, 1910.108.

RESPIRATORY PROTECTION

If personal exposure cannot be controlled below applicable limits by ventilation, wear a properly fitted organic vapor/particulate respirator approved by NIOSH/MSHA for protection against materials in Section 2.

PROTECTIVE GLOVES

Wear gloves which are recommended by glove supplier for protection against materials in Section 2.

EYE PROTECTION

Wear safety spectacles with unperforated sideshields.

OTHER PRECAUTIONS
Intentional misuse by deliberately concentrating and inhaling the contents can be harmful or fatal.

SECTION 9 — PHYSICAL AND CHEMICAL PROPERTIES

PRODUCT WEIGHT	7.39 lb/gal	885 g/l
SPECIFIC GRAVITY	0.89	
BOILING POINT	174 - 302° F	78 - 150° C
MELTING POINT	Not Available	
VOLATILE VOLUME	100%	
EVAPORATION RATE	Slower than ether	
VAPOR DENSITY	Heavier than air	
SOLUBILITY IN WATER	N.A.	

VOLATILE ORGANIC COMPOUNDS (VOC Theoretical - As Packaged)

7.38lb/gal	885g/l	Less Water and Federally Exempt Solvents
7.38lb/gal	885g/l	Emitted VOC

SECTION 10 — STABILITY AND REACTIVITY

STABILITY — Stable
CONDITIONS TO AVOID
None known.
INCOMPATIBILITY
None known.
HAZARDOUS DECOMPOSITION PRODUCTS
By fire: Carbon Dioxide, Carbon Monoxide
HAZARDOUS POLYMERIZATION
Will not occur

SECTION 11 — TOXICOLOGICAL INFORMATION

CHRONIC HEALTH HAZARDS
Methyl Ethyl Ketone may increase the nervous system effects of other solvents.
Reports have associated repeated and prolonged overexposure to solvents with permanent brain and nervous system damage.
Ethylbenzene is classified by IARC as possibly carcinogenic to humans (2B) based on inadequate evidence in humans and sufficient evidence in laboratory animals. Lifetime inhalation exposure of rats and mice to high ethylbenzene concentrations resulted in increases in certain types of cancer, including kidney tumors in rats and lung and liver tumors in mice. These effects were not observed in animals exposed to lower concentrations. There is no evidence that ethylbenzene causes cancer in humans.

TOXICOLOGY DATA

CAS No.	Ingredient Name			
108-88-3	**Toluene**			
		LC50 RAT	4HR	4000 ppm
		LD50 RAT		5000 mg/kg
100-41-4	**Ethylbenzene**			
		LC50 RAT	4HR	Not Available
		LD50 RAT		3500 mg/kg
1330-20-7	**Xylene**			
		LC50 RAT	4HR	5000 ppm
		LD50 RAT		4300 mg/kg
78-93-3	**Methyl Ethyl Ketone**			
		LC50 RAT	4HR	Not Available
		LD50 RAT		2740 mg/kg
123-86-4	**n-Butyl Acetate**			
		LC50 RAT	4HR	2000 ppm
		LD50 RAT		13100 mg/kg
108-65-6	**1-Methoxy-2-Propanol Acetate**			
		LC50 RAT	4HR	Not Available
		LD50 RAT		8500 mg/kg

SECTION 12 — ECOLOGICAL INFORMATION

ECOTOXICOLOGICAL INFORMATION
No data available.

SECTION 13 — DISPOSAL CONSIDERATIONS

WASTE DISPOSAL METHOD

Waste from this product may be hazardous as defined under the Resource Conservation and Recovery Act (RCRA) 40 CFR 261.
Waste must be tested for ignitability to determine the applicable EPA hazardous waste numbers.
Incinerate in approved facility. Do not incinerate closed container. Dispose of in accordance with Federal, State/Provincial, and Local regulations regarding pollution.

SECTION 14 — TRANSPORT INFORMATION

US Ground (DOT)

1 Gallon and Less may be Classed as CONSUMER COMMODITY, ORM-D
Larger Containers are Regulated as:
UN1263, PAINT RELATED MATERIAL, 3, PG II, (ERG#128)

DOT (Dept of Transportation) Hazardous Substances & Reportable Quantities

Ethyl methyl ketone 5000 lb RQ
Toluene 1000 lb RQ
Xylenes (isomers and mixture) 100 lb RQ

Bulk Containers may be Shipped as (check reportable quantities):

RQ, UN1263, PAINT RELATED MATERIAL, 3, PG II, (XYLENES (ISOMERS AND MIXTURE)), (ERG#128)

Canada (TDG)

UN1263, PAINT RELATED MATERIAL, CLASS 3, PG II, (ERG#128)

IMO

UN1263, PAINT RELATED MATERIAL, CLASS 3, PG II, (-4 C c.c.), EmS F-E, S-E

SECTION 15 — REGULATORY INFORMATION

SARA 313 *(40 CFR 372.65C)* SUPPLIER NOTIFICATION

CAS No.	CHEMICAL/COMPOUND	% by WT	% Element
108-88-3	Toluene	10	
100-41-4	Ethylbenzene	0.9	
1330-20-7	Xylene	6	

CALIFORNIA PROPOSITION 65

WARNING: This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.

TSCA CERTIFICATION

All chemicals in this product are listed, or are exempt from listing, on the TSCA Inventory.

SECTION 16 — OTHER INFORMATION

This product has been classified in accordance with the hazard criteria of the Canadian Controlled Products Regulations (CPR) and the MSDS contains all of the information required by the CPR.

The above information pertains to this product as currently formulated, and is based on the information available at this time. Addition of reducers or other additives to this product may substantially alter the composition and hazards of the product. Since conditions of use are outside our control, we make no warranties, express or implied, and assume no liability in connection with any use of this information.

MATERIAL SAFETY DATA SHEET

BRENNTAG GREAT LAKES, LLC
P.O. BOX 444 BUTLER, WI 53007
262-252-3550

SECTION I - PRODUCT

PRODUCT NAME: 481 LT-R THINNER

DATE OF PREPARATION: 07/05/05
HMIS RATING: HEALTH 2
FLAMMABILITY 3
REACTIVITY 0
EMERGENCY PHONE NUMBER: CHEMTREC (800) 424-9300

SECTION II - HAZARDOUS INGREDIENTS

PRODUCT NAME / CHEMICAL NAME	CAS #	VAPOR PRESSURE (mm Hg) / PERCENT	TLV / PEL	UNITS / UNITS
N-HEPTANE	142-82-5	53.0	400	PPM
N-HEPTANE		<9%	400	PPM
ETHYL BENZENE	100-41-4	.1	100	PPM
ETHYL BENZENE		<9%	100	PPM
XYLENE (MIXED ISOMERS)	1330-20-7	9.0	100	PPM
XYLENE (MIXED ISOMERS)		>9%	100	PPM
HEPTANE, BRANCHED, CYCLIC AND LINEA	426260-76-6	N.E.	500	PPM
HEPTANE, BRANCHED, CYCLIC AND LINEAR		<9%	500	PPM
ISOPROPANOL 99%	67-63-0	33.0	400	PPM
2-PROPANOL		<9%	400	PPM
TOLUENE	108-88-3	26.0	100	PPM
TOLUENE		>9%	100	PPM
METHYL ISOBUTYL KETONE	108-10-1	15.0	50	PPM
2-PENTANONE, 4-METHYL		<9%	100	PPM
ETHYL ACETATE 99% URETHANE GRD	141-78-6	72.8	400	PPM
ACETIC ACID, ETHYL ESTER		<9%	400	PPM
METHANOL	67-56-1	96.0	200	PPM
METHYL ALCOHOL		<9%	200	PPM
N-BUTYL ALCOHOL	71-36-3	4.0	50	PPM
1-BUTANOL		<9%	100	PPM
ALCOHOL MIXTURE	64-17-5	43.9	1000	PPM
ETHANOL		<9%	1000	PPM

N-BUTYL ACETATE URETHANE GRADE	123-86-4	8.0	150 PPM
ACETIC ACID, BUTYL ESTER		<9%	150 PPM
METHYL ETHYL KETONE	78-93-3	71.0	200 PPM
2-BUTANONE		<9%	200 PPM
ACETONE	67-64-1	184.0	750 PPM
2-PROPANONE		>9%	1000 PPM

SECTION III - PHYSICAL DATA

BOILING RANGE: 133 - 290 DEG F
VAPOR DENSITY: HEAVIER THAN AIR
EVAPORATION RATE: SLOWER THAN ETHER
PERCENT VOLATILE BY VOLUME: 99%
WEIGHT/GALLON: 6.60000 LBS/GAL

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

HAZARD CLASSIFICATION OSHA: FLAMMABLE LIQUID-CLASS IB
DOT: 3
FLASH POINT (TCC): > 0 DEG F
LOWER EXPLOSION LIMIT % BY VOLUME (IN AIR): > 1.0
EXTINGUISHING MEDIA:
Carbon dioxide. Dry chemical. Alcohol-type foam. Water spray. Universal-type foam.
SPECIAL FIREFIGHTING PROCEDURES:
Use self-contained breathing apparatus. Wear full protective clothing. Use water spray to cool fire-exposed containers and structures. A solid stream of water directed into hot, burning liquid would cause frothing and scattering of burning material.
UNUSUAL FIRE AND EXPLOSION HAZARDS:
Vapors form from this product and may settle in low places, travel along the ground, or move by air currents to be ignited by pilot lights, other flames, smoking, sparks, heaters, electrical equipment, static discharges, or other ignition sources at locations distant from handling point.
Product may accumulate a static electric charge under certain conditions. The charge can be large enough to cause a fire or explosion if discharged in a vapor-air mixture that is within flammable limits.
Can react vigorously with strong oxidizing agents.

SECTION V - HEALTH HAZARD DATA

EFFECTS OF OVEREXPOSURE
INGESTION:
Nausea. Vomiting. Diarrhea. Drowsiness. Headache. Dizziness. Stupor. Abdominal discomfort. Cramps. Incoordination. Loss of consciousness. Difficulty with speech. Central nervous system depression. Death. Pulmonary aspiration hazard if vomiting occurs. Blindness.
SKIN ABSORPTION:
Possible systemic effects.
INHALATION:
Weakness. Headache. Narcosis. Dizziness. Vomiting. Possible kidney damage.

Possible liver damage. Nausea. Drowsiness. Loss of coordination. Loss of appetite. Visual impairment. Difficulty in breathing. Irritation. Loss of balance. Unconsciousness. Coma. Respiratory failure. Olfactory fatigue.

SKIN CONTACT:

Irritation. Defatting. Chapping. Cracking. Dermatitis. Erythema. Scaling.

EYE CONTACT:

Severe irritation. Corneal injury. Redness. Pain.

CHRONIC EFFECTS OF OVEREXPOSURE:

There is evidence that long-term repeated exposure to n-Butanol vapor concentrations greater than 50 ppm may result in some loss of hearing. Long-term repeated exposures to high concentrations of Methyl Ethyl Ketone vapor may result in central nervous system depression and narcosis. Toxic effects of methanol are accumulative and affect the nervous system, especially the optic nerve. These symptoms may linger for several days after overexposures.

OTHER HEALTH HAZARDS:

None currently known.

PRIMARY ROUTE(S) OF ENTRY:

Ingestion. Skin absorption. Inhalation. Eye contact.

EMERGENCY AND FIRST AID PROCEDURES

INGESTION:

Do not induce vomiting. Call a physician. Never give anything by mouth to an unconscious person.
Do not give liquids.
Small amounts which may accidentally enter the mouth should be rinsed out until no taste of this product remains.

SKIN:

Immediately wash skin with soap and plenty of water.
Remove and wash contaminated clothing promptly. Call a physician.

INHALATION:

If inhaled, remove to fresh air. If not breathing, give artificial respiration, preferably mouth-to-mouth. If breathing is difficult, give oxygen. Call a physician.

EYES:

In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Call a physician.

NOTES TO PHYSICIAN:

Aspirated material may cause severe lung damage and may present a significant hazard. Stomach contents should be evacuated quickly in a manner which avoids aspiration.
There is no specific antidote. Treatment of overexposure should be directed at the control of symptoms and the clinical condition.

SECTION VI - REACTIVITY DATA

STABILITY:

Stable.

CONDITIONS TO AVOID:

Heat. Ignition sources. Fire.

INCOMPATABILITY:

Strong mineral acids. Strong bases. Strong oxidizing agents. Aldehydes. Halogens. Halogen compounds.
Forms combustible and explosive mixtures with air and/or oxygen. Nitrates. Perchlorates.

HAZARDOUS DECOMPOSITION PRODUCTS:

Carbon monoxide. Carbon dioxide. Asphyxiants. Toxic vapors. Formaldehyde.

HAZARDOUS POLYMERIZATION:

Will not occur.

CONDITIONS TO AVOID:

Alkali can cause condensation reactions to occur, but the reactions are not expected to be violent.

SECTION VII - SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:

Contact local authorities.
Extinguish and do not turn on any ignition source until area is determined to be free from explosion or fire hazards.
Flush small spills with water.

WASTE DISPOSAL:

Reclamation in accordance with all federal, state, and local regulations.
Incineration in accordance with all federal, state, and local regulations.

SECTION VIII - SAFE HANDLING AND USE INFORMATION

RESPIRATORY PROTECTION:

If vapors are present, use a MESA or NIOSH approved respirator for organic vapors, fresh air breathing apparatus, or a self contained breathing apparatus.

VENTILATION:

Keep this product in closed equipment.
Special, local ventilation is needed at points where vapors or mists are expected to escape to the workplace air.
Use in well-ventilated areas.

PROTECTIVE GLOVES:

Consult the glove manufacturer for the most appropriate glove material.

EYE PROTECTION:

Chemical safety goggles.

OTHER PROTECTIVE EQUIPMENT:

Eye bath and safety shower.
Wear protective clothing to prevent repeated or prolonged contact.

SECTION IX - SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING:

DANGER! May be fatal if swallowed. Cannot be made nonpoisonous.
Harmful, if absorbed through skin. Harmful if inhaled.
Causes eye and skin irritation. Extremely flammable.
Avoid contact with eyes, skin, and clothing. Avoid breathing vapor or mist.
Use only with adequate ventilation. Keep away from heat, sparks, and flame.
Wash thoroughly after handling. Keep container closed.
Avoid prolonged or repeated contact with skin.
Store in cool, dry, ventilated area.
Equipment and containers should be bonded and grounded when transferring or using material.
Empty containers should not be exposed to fire, sparks, or flame as residual vapors may be explosive.
FOR INDUSTRY USE ONLY.
Avoid splash loading, agitating, or pumping at high velocities. Allow ample

relaxation time after filtering.
Separate from oxidizing materials. May cause blindness if swallowed.
Since emptied packages retain product residue, follow label warnings even after package is emptied.
Use explosion-proof electrical fixtures. Use only non-sparking tools.

OTHER PRECAUTIONS:

A large spill could be toxic to aquatic life, avoid drainage to natural waters.
This product has a low solubility in water and will float on the surface.
Large spills should not be allowed to drain into natural waterways.
Contact lenses should not be worn.

Section 313 Supplier Notification

This product contains the following toxic chemicals subject to the reporting requirements of section 313 of the Emergency Planning and Community Right-To-Know Act of 1986 and of 40 CFR 372:

CAS#	Chemical Name	Percent by Weight
100-41-4	ETHYL BENZENE	2.7%
1330-20-7	XYLENE (MIXED ISOMERS)	13.2%
108-88-3	TOLUENE	25.9%
108-10-1	2-PENTANONE, 4-METHYL	2.6%
67-56-1	METHYL ALCOHOL	6.2%
71-36-3	1-BUTANOL	1.0%
78-93-3	2-BUTANONE	5.1%

This information must be included in all MSDSs that are copied and distributed for this material.

The Valspar Corporation
Material Safety Data Sheet

1. PRODUCT AND COMPANY IDENTIFICATION

Material Identification

Product ID: **456.0100606.076**
Product Name: AB606 FORD DARK BLUE 6U
Product Use: Paint or Coatings Related Product
Print date: 22/Feb/2008
Revision Date: 20/Feb/2008

Company Identification

The Valspar Corporation - Architectural Coatings Division
1000 Lake Road
Medina, OH 44256
Manufacturer's Phone: 1-330-725-4511

24-Hour Medical Emergency Phone: 1-888-345-5732

2. COMPOSITION / INFORMATION ON HAZARDOUS INGREDIENTS

Common Name CAS-No.	Approx. Weight %	Chemical name
DIMETHYL KETONE 67-64-1	40 - 45	ACETONE
PROPANE 74-98-6	15 - 20	Propane
XYLENE (W/ ANTI-STATIC) 1330-20-7	5 - 10	Xylenes (o-, m-, p- isomers)
BUTANE 106-97-8	5 - 10	Butane
ETHYL 3-ETHOXYPROPIONATE 763-69-9	1 - 5	Ethyl 3-ethoxypropionate
ETHYL ACETATE 141-78-6	1 - 5	Ethylacetate
ETHYLBENZENE 100-41-4	1 - 5	Ethyl benzene
METHYL ETHYL KETONE 78-93-3	1 - 5	Methyl ethyl ketone
PROPRIETARY RESIN	1 - 5	PROPRIETARY RESIN
TITANIUM DIOXIDE 13463-67-7	.1 - 1	Titanium dioxide

If this section is blank there are no hazardous components per OSHA guidelines.

3. HAZARDS IDENTIFICATION

Primary Routes of Exposure:
Inhalation
Ingestion
Skin absorption

Emergency Overview:
This section not in use.

This product contains ingredients that may contribute to the following potential acute health effects:

Inhalation Effects:
Harmful if inhaled. May affect the brain, nervous system, or respiratory system, causing dizziness, headache, nausea or respiratory irritation.

Eye Contact:
Causes eye irritation.

Skin Contact:
May cause moderate skin irritation.

Acute Ingestion:
None known

Other Effects:
May cause kidney damage. May cause liver damage.

This product contains ingredients that may contribute to the following potential chronic health effects:

Notice: Reports have associated repeated and prolonged occupational overexposure to solvents with permanent brain and nervous system damage. Intentional misuse by deliberately concentrating and inhaling the contents may be harmful or fatal. Prolonged and/or repeated contact can result in skin irritation. May cause skin drying with prolonged exposure.

See Section 11 for toxicological information about Mutagens, Teratogens and Carcinogens.

If this section is blank, no information is available.

4. FIRST AID MEASURES

Inhalation:
If affected by inhalation, move victim to fresh air. If symptoms persist, seek medical attention.

Eye Contact:
In case of contact, or suspected contact, immediately flush eyes with plenty of water for at least 15 minutes and get medical attention immediately after flushing.

Skin Contact:
In case of contact, immediately flush skin with plenty of soap and water for at least 15 minutes. If irritation persists get medical attention. Remove contaminated clothing and shoes. Wash clothing before reuse. Thoroughly clean contaminated shoes.

Ingestion:
If swallowed, contact medical personnel immediately to determine best course of action.

Medical conditions aggravated by exposure: Any respiratory or skin condition.

5. FIRE FIGHTING MEASURES

Flash point (Fahrenheit):	-31º F (-35º C) TCC/PM
Lower explosive limit:	1 %
Upper explosive limit:	13 %
Autoignition temperature:	Not available. º F (º C)
Sensitivity to impact:	No.
Sensitivity to static discharge:	Subject to static discharge hazards. Please see bonding and grounding information in Section 7.
Hazardous combustion products:	See Section 10.

Unusual fire and explosion hazards:
Contaminated rags, wipes, saw dust, etc., may catch fire spontaneously. Store waste under water in closed metal containers or in approved self-closing containers designed to prevent spontaneous combustion until disposed of in compliance with applicable regulations. Contains oxidizable materials.

Extinguishing media:
Carbon dioxide, dry chemical, foam and/or water fog.

Fire fighting procedures:
Use water spray to cool nearby containers and structures exposed to fire. Firefighters should be equipped with self-contained breathing apparatus and turn out gear.

6. ACCIDENTAL RELEASE MEASURES

Action to be taken if material is released or spilled:
Ventilate area. Avoid breathing of vapors. Use self-containing breathing apparatus or airmask for large spills in a confined area. Wipe, scrape or soak up in an inert material and put in a container for disposal. See section 5, "Unusual Fire and Explosion Hazards", for proper container and storage procedures. Remove sources of ignition. Remove with inert absorbent and non sparking tools. Avoid contact with eyes.

7. HANDLING AND STORAGE

Precautions to be taken in handling and storage:
Keep away from heat, sparks, and flames. Keep container closed when not in use. Do not store above 120 degrees F. (49 degrees C). Based on flash point and vapor pressure, suitable storage should be provided in accordance with OSHA regulation 1910.106, Ontario OH&S regulation 851 section 22. Empty containers may contain product residue, including flammable or explosive vapors. Do not cut, puncture or weld on or near container. All label warnings must be observed until the container has been commercially cleaned or reconditioned. If the product is used near or above the flashpoint, an ignition hazard may be present. Activities, uses, or operations which liberate vapor (such as mixing or free fall of liquids) may also present an ignition hazard. Please ensure containers and other interconnected equipment are properly bonded and grounded at all times.

8. PERSONAL PROTECTIVE EQUIPMENT AND EXPOSURE CONTROLS

Personal Protective Equipment

Eye and face protection:
Avoid contact with eyes. Wear chemical goggles if there is the possibility of contact or splashing in the eye.

Skin protection:
Appropriate chemical resistant gloves should be worn.To prevent skin contact wear protective clothing covering all exposed areas.

Respiratory protection:
If exposure cannot be controlled below applicable limits, use the appropriate NIOSH approved respirator such as an air purifying respirator with organic vapor cartridge and dust/mist filter. Consult the respirator manufacturer's literature to ensure that the respirator will provide adequate protection. Read and follow all respirator manufacturer's instructions.

Ventilation
Required when spraying or applying in confined area. Ventilation equipment should be explosion proof. Eliminate ignition sources.

Exposure Guidelines

OSHA Permissible Exposure Limits (PEL's)

Common Name CAS-No.	Approx. Weight %	TWA (final)	Ceilings limits (final)	Skin designations

DIMETHYL KETONE 67-64-1	40 - 45	2400 mg/m³ 1000 ppm		
PROPANE 74-98-6	15 - 20	1800 mg/m³ 1000 ppm		
XYLENE (W/ ANTI-STATIC) 1330-20-7	5 - 10	435 mg/m³ 100 ppm		
ETHYL ACETATE 141-78-6	1 - 5	1400 mg/m³ 400 ppm		
ETHYLBENZENE 100-41-4	1 - 5	435 mg/m³ 100 ppm		
METHYL ETHYL KETONE 78-93-3	1 - 5	590 mg/m³ 200 ppm		
TITANIUM DIOXIDE 13463-67-7	.1 - 1	15 mg/m³ Total dust.		

ACGIH Threshold Limit Value (TLV's)

Common Name CAS-No.	Approx. Weight %	TWA	STEL	Ceiling limits	Skin designations
DIMETHYL KETONE 67-64-1	40 - 45	500 ppm	750 ppm		
PROPANE 74-98-6	15 - 20	1000 ppm			
XYLENE (W/ ANTI-STATIC) 1330-20-7	5 - 10	100 ppm	150 ppm		
BUTANE 106-97-8	5 - 10	1000 ppm			
ETHYL ACETATE 141-78-6	1 - 5	400 ppm			
ETHYLBENZENE 100-41-4	1 - 5	100 ppm	125 ppm		
METHYL ETHYL KETONE 78-93-3	1 - 5	200 ppm	300 ppm		
TITANIUM DIOXIDE 13463-67-7	.1 - 1	10 mg/m³			

If this section is blank, no information is available.

9. PHYSICAL PROPERTIES

Odor:	Normal for this product type.
Physical State:	Liquid
pH:	Not determined.
Vapor pressure:	NOT DETERMINED mmHG @ 68º F (20º C)
Vapor density (air = 1.0):	5
Boiling point:	-42º F (-41º C)
Solubility in water:	Not determined.
Coefficient of water/oil distribution:	Not determined.
Density (lbs per US gallon):	6.4
Specific Gravity:	.77
Evaporation rate (butyl acetate = 1.0):	5.6

10. STABILITY AND REACTIVITY

Stability:	Stable
Conditions to Avoid:	None known.

10. STABILITY AND REACTIVITY

Incompatibility: Strong oxidizers.
Hazardous Polymerization: None anticipated.
Hazardous Decomposition Products: Carbon monoxide and carbon dioxide.

Sensitivity to static discharge: Subject to static discharge hazards. Please see bonding and grounding information in Section 7.

11. TOXICOLOGICAL INFORMATION

Mutagens:
None known.

Teratogens:
None known.

Contains ethylbenzene, which has been determined by NTP to be an animal carcinogen with no known relevance to humans. IARC has classified ethylbenzene as possibly carcinogenic to humans (2b) on the basis of sufficient evidence of carcinogenicity in laboratory animals but inadequate evidence of cancer in humans. Contains TIO2 which is listed by IARC as a possible human carcinogen (Group 2B) based on animal data. Neither long term animal studies, nor human epidemiology studies of workers exposed to TIO2 provide an adequate basis to conclude TIO2 is carcinogenic. TIO2 is not classified as a carcinogen by NTP, U.S. OSHA, or the U.S. EPA.

Common Name CAS-No.	Approx. Weight %	IARC Group 1 - Human Evidence	IARC Group 2A - Limited Human Data	IARC Group 2B - Sufficient Animal Data
ETHYLBENZENE 100-41-4	1 - 5			Monograph 77, 2000
TITANIUM DIOXIDE 13463-67-7	.1 - 1			2B Possible Carcinogen

Common Name CAS-No.	Approx. Weight %	NTP Known Carcinogens	NTP Suspect Carcinogens	NTP Evidence of Carcinogenicity
ETHYLBENZENE 100-41-4	1 - 5			male rat-clear evidence; female rat-some evidence; male mice-some evidence; female mice-some evidence

Common Name CAS-No.	Approx. Weight %	OSHA Select Carcinogens	OSHA Possible Select Carcinogens	ACGIH Carcinogens
ETHYLBENZENE 100-41-4	1 - 5			Group A3 Confirmed animal carcinogen with unknown relevance to humans.

12. ECOLOGICAL DATA

Not available at this time.

13. DISPOSAL CONSIDERATIONS

Disposal should be made in accordance with federal, state and local regulations.

14. TRANSPORTATION INFORMATION

U.S. Department of Transportation

14. TRANSPORTATION INFORMATION

Proper Shipping Name: CONSUMER COMMODITY ORM-D
UN ID Number: CONCOM

U.S. Highway & Rail Shipments

The supplier may apply one of the following exceptions: Combustible Liquid, Consumer Commodity, Limited Quantity, Viscous Liquid, Does Not Sustain Combustion, or others, as allowed under 49CFR Hazmat Regulations. Please consult 49CFR Subchapter C to ensure that subsequent shipments comply with these exceptions.

International Air Transport Association:

Proper Shipping Name: AEROSOLS, FLAMMABLE
Hazard Class: 2.1
UN ID Number: UN1950

International Maritime Organization:

Proper Shipping Name: AEROSOLS
Hazard Class: 2
Non-Bulk UN ID Number: UN1950
Marine Pollutant Ingredient 1 **Dibutyl phthalate**

15. REGULATORY INFORMATION

U.S. FEDERAL REGULATIONS:

Common Name CAS-No.	Approx. Weight %	SARA 302	SARA 313	CERCLA RQ in lbs.
DIMETHYL KETONE 67-64-1	40 - 45			5000
XYLENE (W/ ANTI-STATIC) 1330-20-7	5 - 10		form R reporting required for 1.0% de minimis concentration	100
ETHYL ACETATE 141-78-6	1 - 5			5000
ETHYLBENZENE 100-41-4	1 - 5		form R reporting required for 1.0% de minimis concentration	1000
METHYL ETHYL KETONE 78-93-3	1 - 5			5000

SARA 311/312 Hazard Class:

Acute: Yes
Chronic: Yes
Flammability: Yes
Reactivity: No
Sudden Pressure: Yes

U.S. STATE REGULATIONS:

Pennsylvania Right To Know:

METHYL ETHYL KETONE	78-93-3
DIMETHYL KETONE	67-64-1
PROPANE	74-98-6
ETHYL 3-ETHOXYPROPIONATE	763-69-9
PROPRIETARY RESIN	Trade Secret
XYLENE (W/ ANTI-STATIC)	1330-20-7
ETHYL ACETATE	141-78-6
ETHYLBENZENE	100-41-4
BUTANE	106-97-8

Additional Non-Hazardous Materials

PROPRIETARY RESIN	Trade Secret
PROPRIETARY RESIN	Trade Secret

California Proposition 65:
WARNING: This product contains a chemical known to the State of California to cause cancer.

Rule 66 status of product Photochemically reactive.

INTERNATIONAL REGULATIONS - Chemical Inventories

TSCA Inventory: All components of this product are in compliance with U.S. TSCA Chemical Substance Inventory Requirements.

Canada Domestic Substances List: All components of this product are listed on the Domestic Substances List.

16. OTHER INFORMATION

HMIS Codes

Health:	2
Flammability:	4
Reactivity:	1
PPE:	X - See Section 8 for Personal Protective Equipment (PPE).

Abbreviations:
OSHA - Occupational Safety and Health Administration, IARC - International Agency for Research on Cancer, NIOSH - National Institute of Occupational Safety and Health, NTP - National Toxicology Program, ACGIH - American Conference of Governmental Industrial Hygienists, SCAQMD - South Coast Air Quality Management District, TSCA - Toxic Substances Control Act, IATA - International Air Transport Association, IMO - International Maritime Organization, DOT - Department of Transportation, NA - Not applicable, NOT ESTAB - Not established, N.A.V. - Not available, RQ - Reportable quantity, WT - Weight, MG/CU M - Milligrams per cubic meter, G/L - Grams per liter, MM - Millimeters, MPPCF - Millions of particles per cubic foot, PPM - parts per million, PPT - parts per thousand, TCC/PM - Tag closed cup / Pensky-Martens, PB - Lead, PEL - Permissible exposure level, TWA - Time Weighted Average, STEL - Short term exposure limit, C - Celsius, F - Fahrenheit.

Disclaimer:
The data on this sheet represent typical values. Since application variables are a major factor in product performance, this information should serve only as a general guide. Valspar assumes no obligation or liability for use of this information. UNLESS VALSPAR AGREES OTHERWISE IN WRITING, VALSPAR MAKES NO WARRANTIES, EXPRESS OR IMPLIED, AND DISCLAIMS ALL IMPLIED WARRANTIES INCLUDING WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR USE OR FREEDOM FROM PATENT INFRINGEMENT. VALSPAR WILL NOT BE LIABLE FOR ANY SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES. Your only remedy for any defect in this product is the replacement of the defective product, or a refund of its purchase price, at our option. This MSDS contains additional information required by the state of Pennsylvania.

Issued to . . . . . : Tecumseh Products Company
100 E. Patterson

Tecumseh MI 49286

Attention: . . . . . : Material Safety Data Sheet Coordinator

The attached Material Safety Data Sheet relates potential hazards and recommended practices for safe handling of the product that you purchased from Raabe Company.

We urge you and your employees to review the entire MSDS prior to handling, use or disposal of the product.

You are required to keep this MSDS on file for reference by company employees or government regulatory officials.

If you resell or distribute this product, you must furnish a copy of the MSDS to your customer.

SECTION 1 - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

CHEMICAL PRODUCT IDENTIFICATION:
PRODUCT CODE. . . . : 04205 661633 604
PRODUCT NAME . . . : MASTERFLUX PURPLE
PRODUCT CLASS . . . : Aerosol Touch Up

MSDS PREPARATION DATE : 03/20/2009

MANUFACTURER IDENTIFICATION:
RAABE COMPANY
PO BOX 1090

MENOMONEE FALLS WI 53052-1090

CUSTOMER IDENTIFICATION:
Tecumseh Products Company
100 E. Patterson

Tecumseh MI 49286

EMERGENCY TELEPHONE NUMBERS:
24 HOURS A DAY - CALL CHEMTREC : 800-424-9300
INTERNATIONAL CALLS TO CHEMTREC : 703-527-3887
8 AM TO 4:30 PM CENTRAL TIME : 262-255-9500

SECTION 2 - COMPOSITION, INFORMATION ON INGREDIENTS

---

1 ETHYLBENZENE
CAS# 100-41-4
ETHYLBENZENE
PCT BY WT: .1760 VAPOR PRESSURE: 19.000 MMHG @ 68F LEL 1.20
EXPOSURE LIMIT:

ACGIH TLV-TWA	100 ppm
ACGIH TLV-STEL	125 ppm
OSHA PEL-TWA	100 ppm
OSHA PEL-STEL	125 ppm

OTHER	IARC (2B), CALIFORNIA PROP 65 (Cancer 6/11/2004)
LD50(ORAL)	3500 mg/kg (rat)
LD50(DERMAL)	20574 mg/kg (rabbit)
LC50	17623 mg/m3 (rat)

OTHER LIMITS:
PROP 65-Cancer,listed 6/11/04 EINECS 202-849-4

---

2 N-BUTANE
CAS# 106-97-8
N-BUTANE
PCT BY WT: 6.0000 VAPOR PRESSURE: 879.100 MMHG @ 68F LEL 1.80
EXPOSURE LIMIT:

ACGIH TLV-TWA	800 ppm
ACGIH TLV-STEL	NO INFO
OSHA PEL-TWA	800 ppm
COMPANY	N.E.
LD50(ORAL)	N.A.
LD50(DERMAL)	N.A.
LC50	658000 mg/m3 (rat)

OTHER LIMITS:
EINECS 203-448-7

---

3 PROPANE
CAS# 74-98-6
PROPANE
PCT BY WT: 18.0000 VAPOR PRESSURE: 5585.200 MMHG @ 68F LEL 2.20
EXPOSURE LIMIT:

ACGIH TLV-TWA	1000 ppm
ACGIH TLV-STEL	NO INFORMATION
LD50(ORAL)	NOT APPLICABLE
LD50(DERMAL)	NOT APPLICABLE
LC50	NO INFORMATION

OTHER LIMITS:
EINECS 200-827-9

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4 TITANIUM DIOXIDE
CAS# 13463-67-7
TITANIUM DIOXIDE
PCT BY WT: 2.0000
EXPOSURE LIMIT:

ACGIH TLV-TWA	10 mg/m3
ACGIH TLV-STEL	NO INFO
OSHA PEL-TWA	10 mg/m3
COMPANY	N.E.
LD50(ORAL)	> 24000 mg/kg (rat)
LC50	> 6820 mg/m3 (rat)

OTHER LIMITS:
EINECS 236-675-5

---

5 ACETONE
CAS# 67-64-1
ACETONE
PCT BY WT: 37.0000 VAPOR PRESSURE: 231.000 MMHG @ 68F LEL 2.60
EXPOSURE LIMIT:

ACGIH TLV-TWA	750 ppm
ACGIH TLV-STEL	1000 ppm
OSHA PEL-TWA	750 ppm
OSHA PEL-STEL	1000 ppm
COMPANY	N.E.
LD50(ORAL)	5340 mg/kg (rabbit)
LD50(DERMAL)	20000 mg/kg (rabbit)
LC50	70852 mg/m3 (rat)

OTHER LIMITS:

EINECS 200-662-2

---

6 METHYL ETHYL KETONE
CAS# 78-93-3
METHYL ETHYL KETONE
PCT BY WT: 7.0000 VAPOR PRESSURE: 85.000 MMHG @ 68F LEL 1.80
EXPOSURE LIMIT:

ACGIH TLV-TWA	200 ppm
ACGIH TLV-STEL	300 ppm
OSHA PEL-TWA	200 ppm
COMPANY	N.E.
LD50(ORAL)	2737 mg/kg (rat)
LD50(DERMAL)	6480 mg/kg (rat)
LC50	23500 mg/m3 (rat)

OTHER LIMITS:
EINECS 201-159-0

---

7 GLYCOL ETHER PM ACETATE
CAS# 108-65-6
PROPYLENE GLYCOL METHYL ETHER ACETATE
PCT BY WT: 9.0000 VAPOR PRESSURE: 3.700 MMHG @ 68F LEL 1.30
EXPOSURE LIMIT:

ACGIH TLV-TWA	NOT ESTABLISHED
ACGIH TLV-STEL	NOT ESTABLISHED
LD50(ORAL)	8500 mg/kg (rat)
LD50(DERMAL)	5000 mg/kg (rat)
LC50	5321 mg/m3 (rat)

OTHER LIMITS:
EINECS 203-603-9

---

8 TOLUENE
CAS# 108-88-3
TOLUENE
PCT BY WT: 11.0000 VAPOR PRESSURE: 38.000 MMHG @ 68F LEL 1.40
EXPOSURE LIMIT:

ACGIH TLV-TWA	20 ppm
ACGIH TLV-STEL	NO INFO
OSHA PEL-TWA	50 ppm
COMPANY	N.E.
LD50(ORAL)	636 mg/kg (rat)
LD50(DERMAL)	14124 mg/kg (rabbit)
LC50	7523 mg/m3 (mouse)

OTHER LIMITS:
Prop 65-Developmental-01/01/91 EINECS 203-625-9

****
This product contains one or more reported carcinogens or suspected carcinogens which are noted NTP, IARC, or OSHA-Z in the other limits recommended column.
****
****
This substance is classified as a hazardous air pollutant.
****

SECTION 3 - HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW:
Harmful if swallowed.
Harmful if inhaled.
Causes eye irritation.
Causes skin irritation.
Vapors irritating to eyes and respiratory tract.

Extremely flammable liquid and vapor.
Vapors may cause flash fire or explosion.
Extremely flammable aerosol.
Contents under pressure.

EYE:

May cause eye burns.

SKIN:

May cause skin irritation.
Prolonged contact with the skin can cause chemical burns.
Product contains a component which can be absorbed through the skin.
Excessive exposure may cause hemolysis (red blood cell damage) which can impair the blood's ability to transport oxygen.
Material may aggravate an existing dermatitis.

INHALATION:

Exposure to high concentrations of vapors may cause dizziness, breathing difficulty, headaches or respiratory irritation.
Extremely high concentrations may cause drowsiness, staggering, confusion, unconsciousness, coma or death.
Excessive inhalation of vapors can cause nasal and respiratory irritation.
Liquid or vapor may be irritating to skin, eyes, throat or lungs.
Intentional misuse by deliberately concentrating and inhaling the contents of this product can be harmful or fatal.

INGESTION:

Moderately toxic. May cause stomach discomfort, nausea, vomiting, diarrhea, and narcosis.
Aspiration of material into the lungs if swallowed or if vomiting occurs can cause chemical pneumonitis which can be fatal.
May cause nausea, vomiting and diarrhea.

CHRONIC EFFECTS:

Chronic overexposure to a component or components in this material has been found to cause the following effects in laboratory animals:

- Kidney damage
- Eye damage
- Lung damage
- Liver damage
- Spleen damage
- Anemia
- Brain damage

Chronic overexposure to a component or components is this product has been suggested as a cause of the following effects in humans:

- Liver damage
- Cardiac abnormalities

Reports have associated repeated and prolonged overexposure to solvents with permanent brain and nervous system damage.
Repeated breathing or skin contact of methyl ethyl ketone may increase the potency of neurotoxins such as hexane if exposures occur at the same time.
Central nervous system depression, shock, coma, visual disturbances, and death. Onset of symptoms may be delayed as long as 30 hours.
Rats exposed to titanium dioxide dust at 250 mg/m3 developed lung cancer, however, such exposure levels are not attainable in the workplace with this material.
Product contains toluene which may be harmful to the fetus based on animal studies.
Repeated exposure to toluene has been associated with high frequency hearing loss in laboratory animals. The human consequences of this finding is uncertain.
In February 2000 the International Agency for Research on Cancer (IARC) classified ethylbenzene as possibly carcinogenic to humans (Group 2B) on the basis of sufficient evidence for carcinogenicity in experimental animals but inadequate evidence for cancer in humans.

SECTION 4 - FIRST AID MEASURES

EYE CONTACT:
Immediately flush eyes with plenty of water. Get medical attention, if irritation persists.
Flush with large quantities of water for 15 minutes.

SKIN CONTACT:
Wash with soap and water. Get medical attention if irritation develops or persists.
Wash thoroughly with soap and water and seek medical attention if irritation persists. Remove contaminated clothing. Launder contaminated clothing before reuse.

INHALATION:
Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get immediate medical attention.
For inhalation overexposure move person to fresh air. If breathing stops, apply artificial respiration and seek medical attention.

INGESTION:
Since this product may contain materials which can cause lung damage if aspirated into the lungs, the decision whether to induce vomiting or not must be made by a physician after careful consideration of all materials ingested.
Ingestion of large quantities of this material will result in methanol poisoning. In this case treatment should include hemodialysis; the administration of ethanol to interfere with the metabolism of methanol and the administration of sodium carbonate to correct acidosis.

SECTION 5 - FIRE FIGHTING MEASURES

FIRE AND EXPLOSIVE PROPERTIES OF THE PRODUCT:

Flashpoint	: Less Than -25 øF
Explosion Level	: Low (LEL) - 1.2
	High (UEL)- 13.1

EXTINGUISHING MEDIA:
Use Dry Chemical, Carbon Dioxide or Chemical Foam.

FIRE-FIGHTING PROCEDURES AND EQUIPMENT:
Keep containers tightly closed. Isolate from heat, sparks, and open flame. Closed containers may explode when exposed to extreme heat.
Contents under pressure. Do not use or store near sources of heat, sparks or open flame. Keep away from any source of heat such as sunlight, heaters or stoves that could cause the container to burst.
Do not puncture or incinerate. Do not crush or place in a garbage compactor. Do not store above 120 degrees F. Aerosol containers may explode when exposed to extreme heat.
Product vapors are heavier than air and may travel a long distance to a source of ignition and flash back.
Full protective equipment including self-contained breathing apparatus to avoid inhalation of vapors should be used.
Water spray should not be used except to keep down vapors or cool closed containers to prevent build-up of pressure. If water is used, fog nozzles are preferred.

SECTION 6 - ACCIDENTAL RELEASE MEASURES

CLEAN-UP AND CONTAINMENT:
Remove all sources of ignition. Avoid heat, sparks, flames and anything which could cause fire.
Ventilate area of spill and adjacent low lying areas. Avoid breathing solvent vapors. Remove with inert absorbent materials and non-sparking tools.

HANDLING:
Wash hands thoroughly after handling.
This product contains chemical(s) which are listed on California's proposition 65 list. If the product is to be sold or used in California a clear and reasonable warning must be provided such as:
Warning! This product contains a chemical or chemicals known to the State of California to cause cancer.

STORAGE:
Store in a cool dry area with ventilation suitable for storing materials shown in section 2.
Keep away from heat, sparks and flame.
Store in a cool place away from direct sunlight or any source of ignition. Do not store at temperatures above 120 degrees F.

SECTION 8 - EXPOSURE CONTROLS, PERSONAL PROTECTION

ENGINEERING CONTROLS:
Sufficient ventilation, in volume and pattern, should be provided to keep air contamination below current applicable OSHA permissible exposure limit or ACGIH's TLV limit.

RESPIRATORY PROTECTION:
If workplace exposure limits are exceeded for any component(see section 2 for hazardous components and exposure limits), a NIOSH/OSHA approved respirator suitable for components listed is recommended.

SKIN PROTECTION:
Chemical resistant plastic or rubber gloves recommended for prolonged or repeated contact.

EYE PROTECTION:
Chemical goggles with side shields or face shield recommended if contact with the eyes is likely.

OTHER PROTECTIVE EQUIPMENT:
Appropriate impervious clothing is recommended if prolonged or repeated contact is likely.

HYGIENIC PRACTICES:
Wash hands before eating or smoking. Smoke in designated areas only.

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Vapor Pressure	5585.20	mm Hg @ 20 C
Vapor Density	3.70	
Boiling Range	Lower - 1.0	øF
	Higher - 302.0	øF
Specific Gravity	.753	
Formula Weight per Volume	6.2653	LB/GL
VOC (Calculated, LB/GAL)	4.934	
VOC (Calculated, GM/L)	591.24	
Percent Volatile by Weight	87.9433	
Percent Volatile by Volume	92.9693	
Evaporation Rate	7.700 (n-Butyl Acetate = 1)	
Viscosity	-N/A	

SECTION 10 - STABILITY AND REACTIVITY

CONDITIONS TO AVOID:
Avoid contact with heat, sparks, and open flame.
Product may explode if heated. Keep cool, avoid exposure to heat.

INCOMPATIBILITIES:
Strong oxidizing agents.

DECOMPOSITION:
Thermal decomposition may produce carbon dioxide, carbon monoxide, and unidentifiable organic materials.

POLYMERIZATION:

No hazardous polymerization will occur under normal conditions.

STABILITY:

The product is stable under normal storage conditions.

SECTION 11 - TOXICOLOGICAL INFORMATION

No specific information is available. Please refer to Section 2 and 3 for available information on exposure limits and hazards identification.

SECTION 12 - ECOLOGICAL INFORMATION

No specific ecological information is available for this product.

SECTION 13 - DISPOSAL CONSIDERATIONS

WASTE DISPOSAL:

Place in closed containers. Dispose of product in accordance with local, county, state, and federal regulations.

SECTION 14 - TRANSPORT INFORMATION

Ground shipment of limited or excepted quantities of aerosols or liquid paint in containers of 1 quart or less:

CONSUMER COMMODITY, ORM-D

Ground shipment of liquid paint in containers more than 1 quart:

PAINT, FLAMMABLE LIQUID, UN1263, CLASS 3, GROUP II
(Regulatory sources: DOT 49CFR 172.101)

Air shipment of limited or excepted quantities of aerosols or liquid paint in containers of 1 quart or less:

CONSUMER COMMODITY, ID 8000, CLASS 9 MISCELLANEOUS LABEL
(Regulatory sources: IATA Quantity Exemptions - Table 2.8.4, 2.7.A, 2.7.5, Packaging Instruction: 910)

OR

AEROSOLS, FLAMMABLE, UN1950, CLASS 2.1 LABEL
(Regulatory sources: IATA Quantity Exemptions - Table 2.8.1, 2.8.4, Packaging Instruction: Y203)

SECTION 15 - REGULATORY INFORMATION

SARA 313 INFORMATION:

This product contains the following substances subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372:

ETHYLBENZENE
CAS# 100-41-4 PCT BY WT: .1760

TOLUENE
CAS# 108-88-3 PCT BY WT: 10.5200

FEDERAL REGULATIONS:

TOXIC SUBSTANCES CONTROL ACT: The chemical substances in this product are listed on the TSCA Section 8 inventory.

STATE REGULATIONS:

This product contains chemical(s) which are listed on California's proposition 65 list. If the product is to be sold or used in California a clear and reasonable warning must be provided such as:
Warning! This product contains a chemical or chemicals known to the State of California to cause cancer.
Warning! This product contains a chemical or chemicals known to the

State of California to cause birth defects or other reproductive harm.

NEW JERSEY RIGHT-TO-KNOW

No non-hazardous ingredients are among the top five ingredients

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PENNSYLVANIA RIGHT-TO-KNOW

The following non-hazardous ingredients are present in the product at greater than 3 %

---------- CHEMICAL NAME ---------- CAS NUMBER

INTERNATIONAL REGULATIONS:

CANADA: The chemical substances in this product are listed on the Canadian Domestic Substances List.

SECTION 16 - OTHER INFORMATION

The information contained on this MSDS is believed to be reliable and accurate. Due to the changing nature of government information, it is impossible to guarantee the accuracy of the information contained herein. Since the conditions of handling and use are beyond our control, we make no guarantee of results and assume no liability for damages incurred by the use of this material. This information should not be regarded as legal advice or regulation. It is the responsibility of the user to comply with all Federal, State, and Local laws and regulations. For questions relating to specific aspects of the requirements and regulations consult the proper regulatory agency.

HMIS RATINGS:

HEALTH: 2* FLAMMABILITY: 4 REACTIVITY: 0 PERSONAL PROTECTION: G

MATERIAL SAFETY DATA SHEET

B67V5
12 00

DATE OF PREPARATION
Jan 20, 2009

SECTION 1 — PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NUMBER
B67V5

PRODUCT NAME
Recoatable Epoxy Primer (Part H), Hardener

MANUFACTURER'S NAME
THE SHERWIN-WILLIAMS COMPANY
101 Prospect Avenue N.W.
Cleveland, OH 44115

Telephone Numbers and Websites

Product Information	www.sherwin-williams.com
Regulatory Information	(216) 566-2902 www.paintdocs.com
Medical Emergency	(216) 566-2917
Transportation Emergency*	(800) 424-9300
**for Chemical Emergency ONLY (spill, leak, fire, exposure, or accident)*	

SECTION 2 — COMPOSITION/INFORMATION ON INGREDIENTS

% by Weight	CAS Number	Ingredient	Units	Vapor Pressure
2	**100-41-4**	**Ethylbenzene**		
		ACGIH TLV	100 PPM	7.1 mm
		ACGIH TLV	125 PPM STEL	
		OSHA PEL	100 PPM	
		OSHA PEL	125 PPM STEL	
9	**1330-20-7**	**Xylene**		
		ACGIH TLV	100 PPM	5.9 mm
		ACGIH TLV	150 PPM STEL	
		OSHA PEL	100 PPM	
		OSHA PEL	150 PPM STEL	
7	**110-43-0**	**Methyl n-Amyl Ketone**		
		ACGIH TLV	50 PPM	3.855 mm
		OSHA PEL	100 PPM	
17	**Proprietary**	**Epoxy Polymer**		
		ACGIH TLV	Not Available	
		OSHA PEL	Not Available	
53	**14808-60-7**	**Quartz**		
		ACGIH TLV	0.025 mg/m3 as Resp. Dust	
		OSHA PEL	0.1 mg/m3 as Resp. Dust	

SECTION 3 — HAZARDS IDENTIFICATION

ROUTES OF EXPOSURE
INHALATION of vapor or spray mist.
EYE or SKIN contact with the product, vapor or spray mist.

HMIS Codes

Health	2*
Flammability	3
Reactivity	0

EFFECTS OF OVEREXPOSURE
EYES: Irritation.
SKIN: Prolonged or repeated exposure may cause irritation.
INHALATION: Irritation of the upper respiratory system.

May cause nervous system depression. Extreme overexposure may result in unconsciousness and possibly death.
Prolonged overexposure to solvent ingredients in Section 2 may cause adverse effects to the liver, urinary and reproductive systems.

SIGNS AND SYMPTOMS OF OVEREXPOSURE
Headache, dizziness, nausea, and loss of coordination are indications of excessive exposure to vapors or spray mists.
Redness and itching or burning sensation may indicate eye or excessive skin exposure.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE
May cause allergic skin reaction in susceptible persons or skin sensitization.

CANCER INFORMATION
For complete discussion of toxicology data refer to Section 11.

SECTION 4 — FIRST AID MEASURES

EYES: Flush eyes with large amounts of water for 15 minutes. Get medical attention.
SKIN: Wash affected area thoroughly with soap and water.
If irritation persists or occurs later, get medical attention.
Remove contaminated clothing and launder before re-use.
INHALATION: If affected, remove from exposure. Restore breathing. Keep warm and quiet.
INGESTION: Do not induce vomiting. Get medical attention immediately.

SECTION 5 — FIRE FIGHTING MEASURES

FLASH POINT	LEL	UEL	FLAMMABILITY CLASSIFICATION
80° F PMCC	1.0	7.9	RED LABEL -- Flammable, Flash below 100° F (38 °C)

EXTINGUISHING MEDIA
Carbon Dioxide, Dry Chemical, Foam
UNUSUAL FIRE AND EXPLOSION HAZARDS
Closed containers may explode when exposed to extreme heat.
Application to hot surfaces requires special precautions.
During emergency conditions overexposure to decomposition products may cause a health hazard. Symptoms may not be immediately apparent. Obtain medical attention.
SPECIAL FIRE FIGHTING PROCEDURES
Full protective equipment including self-contained breathing apparatus should be used.
Water spray may be ineffective. If water is used, fog nozzles are preferable. Water may be used to cool closed containers to prevent pressure build-up and possible autoignition or explosion when exposed to extreme heat.

SECTION 6 — ACCIDENTAL RELEASE MEASURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED
- Remove all sources of ignition. Ventilate the area.
- Remove with inert absorbent.

SECTION 7 — HANDLING AND STORAGE

STORAGE CATEGORY
DOL Storage Class IC
PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE
Contents are FLAMMABLE. Keep away from heat, sparks, and open flame.
During use and until all vapors are gone: Keep area ventilated - Do not smoke - Extinguish all flames, pilot lights, and heaters - Turn off stoves, electric tools and appliances, and any other sources of ignition.
Consult NFPA Code. Use approved Bonding and Grounding procedures.
Keep container closed when not in use. Transfer only to approved containers with complete and appropriate labeling. Do not take internally. Keep out of the reach of children.

SECTION 8 — EXPOSURE CONTROLS/PERSONAL PROTECTION

PRECAUTIONS TO BE TAKEN IN USE
Use only with adequate ventilation.
Avoid contact with skin and eyes. Avoid breathing vapor and spray mist.
Wash hands after using.
This coating may contain materials classified as nuisance particulates (listed "as Dust" in Section 2) which may be present at hazardous levels only during sanding or abrading of the dried film. If no specific dusts are listed in Section 2, the applicable limits for nuisance dusts are ACGIH TLV 10 mg/m3 (total dust), 3 mg/m3 (respirable fraction), OSHA PEL 15 mg/m3 (total dust), 5 mg/m3 (respirable fraction).
VENTILATION
Local exhaust preferable. General exhaust acceptable if the exposure to materials in Section 2 is maintained below applicable exposure limits. Refer to OSHA Standards 1910.94, 1910.107, 1910.108.
RESPIRATORY PROTECTION
If personal exposure cannot be controlled below applicable limits by ventilation, wear a properly fitted organic vapor/particulate respirator approved by NIOSH/MSHA for protection against materials in Section 2.
When sanding or abrading the dried film, wear a dust/mist respirator approved by NIOSH/MSHA for dust which may be generated from this product, underlying paint, or the abrasive.
PROTECTIVE GLOVES
Wear gloves which are recommended by glove supplier for protection against materials in Section 2.
EYE PROTECTION
Wear safety spectacles with unperforated sideshields.

OTHER PROTECTIVE EQUIPMENT
Use of barrier cream on exposed skin is recommended.
OTHER PRECAUTIONS
This product must be mixed with other components before use. Before opening the packages, READ AND FOLLOW WARNING LABELS ON ALL COMPONENTS.
Intentional misuse by deliberately concentrating and inhaling the contents can be harmful or fatal.

SECTION 9 — PHYSICAL AND CHEMICAL PROPERTIES

PRODUCT WEIGHT	12.70 lb/gal	1521 g/l
SPECIFIC GRAVITY	1.53	
BOILING POINT	277 - 308° F	136 - 153° C
MELTING POINT	Not Available	
VOLATILE VOLUME	31%	
EVAPORATION RATE	Slower than ether	
VAPOR DENSITY	Heavier than air	
SOLUBILITY IN WATER	N.A.	

VOLATILE ORGANIC COMPOUNDS (VOC Theoretical - As Packaged)

2.19lb/gal	262g/l	Less Water and Federally Exempt Solvents
2.19lb/gal	262g/l	Emitted VOC

SECTION 10 — STABILITY AND REACTIVITY

STABILITY — Stable
CONDITIONS TO AVOID
None known.
INCOMPATIBILITY
None known.
HAZARDOUS DECOMPOSITION PRODUCTS
By fire: Carbon Dioxide, Carbon Monoxide
HAZARDOUS POLYMERIZATION
Will not occur

SECTION 11 — TOXICOLOGICAL INFORMATION

CHRONIC HEALTH HAZARDS
Reports have associated repeated and prolonged overexposure to solvents with permanent brain and nervous system damage.
Ethylbenzene is classified by IARC as possibly carcinogenic to humans (2B) based on inadequate evidence in humans and sufficient evidence in laboratory animals. Lifetime inhalation exposure of rats and mice to high ethylbenzene concentrations resulted in increases in certain types of cancer, including kidney tumors in rats and lung and liver tumors in mice. These effects were not observed in animals exposed to lower concentrations. There is no evidence that ethylbenzene causes cancer in humans.
Crystalline Silica (Quartz, Cristobalite) is listed by IARC and NTP. Long term exposure to high levels of silica dust, which can occur only when sanding or abrading the dry film, may cause lung damage (silicosis) and possibly cancer.
TOXICOLOGY DATA

CAS No.	Ingredient Name			
100-41-4	**Ethylbenzene**			
		LC50 RAT	4HR	Not Available
		LD50 RAT		3500 mg/kg
1330-20-7	**Xylene**			
		LC50 RAT	4HR	5000 ppm
		LD50 RAT		4300 mg/kg
110-43-0	**Methyl n-Amyl Ketone**			
		LC50 RAT	4HR	Not Available
		LD50 RAT		1670 mg/kg
Proprietary	**Epoxy Polymer**			
		LC50 RAT	4HR	Not Available
		LD50 RAT		Not Available
14808-60-7	**Quartz**			
		LC50 RAT	4HR	Not Available
		LD50 RAT		Not Available

SECTION 12 — ECOLOGICAL INFORMATION

ECOTOXICOLOGICAL INFORMATION
No data available.

SECTION 13 — DISPOSAL CONSIDERATIONS

WASTE DISPOSAL METHOD

Waste from this product may be hazardous as defined under the Resource Conservation and Recovery Act (RCRA) 40 CFR 261.
Waste must be tested for ignitability to determine the applicable EPA hazardous waste numbers.
Incinerate in approved facility. Do not incinerate closed container. Dispose of in accordance with Federal, State/Provincial, and Local regulations regarding pollution.

SECTION 14 — TRANSPORT INFORMATION

US Ground (DOT)

1 Gallon and Less may be Classed as CONSUMER COMMODITY, ORM-D
Larger Containers are Regulated as:
UN1263, PAINT, 3, PG III, (ERG#128)

DOT (Dept of Transportation) Hazardous Substances & Reportable Quantities

Xylenes (isomers and mixture) 100 lb RQ

Bulk Containers may be Shipped as (check reportable quantities):

RQ, UN1263, PAINT, 3, PG III, (XYLENES (ISOMERS AND MIXTURE)), (ERG#128)

Canada (TDG)

UN1263, PAINT, CLASS 3, PG III, LIMITED QUANTITY, (ERG#128)

IMO

UN1263, PAINT, CLASS 3, PG III, (27 C c.c.), EmS F-E, S-E

SECTION 15 — REGULATORY INFORMATION

SARA 313 *(40 CFR 372.65C)* SUPPLIER NOTIFICATION

CAS No.	CHEMICAL/COMPOUND	% by WT	% Element
100-41-4	Ethylbenzene	2	
1330-20-7	Xylene	9	

CALIFORNIA PROPOSITION 65

WARNING: This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.

TSCA CERTIFICATION

All chemicals in this product are listed, or are exempt from listing, on the TSCA Inventory.

SECTION 16 — OTHER INFORMATION

This product has been classified in accordance with the hazard criteria of the Canadian Controlled Products Regulations (CPR) and the MSDS contains all of the information required by the CPR.

The above information pertains to this product as currently formulated, and is based on the information available at this time. Addition of reducers or other additives to this product may substantially alter the composition and hazards of the product. Since conditions of use are outside our control, we make no warranties, express or implied, and assume no liability in connection with any use of this information.

Material Safety Data Sheet

24 Hour Assistance:
1-847-367-7700
Rust-Oleum Corp.
www.rustoleum.com

Section 1 - Chemical Product / Company Information

Product Name:	Rust-Oleum High Performance Industrial Enamel Aerosol Topcoats (Hard Hat)	Revision Date:	04/05/2006
Identification Number:	V2123838, V2134838, V2147838, V2155838, V2156838, V2167838, V2170838, V2171838, V2174838, V2175838, V2178838, V2179838, V2183838, V2184838, V2188838, V2124838, V2125838, V2133838, V2137838, V2138838, V2143838, V2148838, V2163838, V2164838, V2177838, V2187838, V2190838, V2192838, V2196838, 209567		
Product Use/Class:	Topcoats/Aerosol		
Supplier:	Rust-Oleum Corporation 11 Hawthorn Parkway Vernon Hills, IL 60061 USA	Manufacturer:	Rust-Oleum Corporation 11 Hawthorn Parkway Vernon Hills, IL 60061 USA
Preparer:	Regulatory Department		

Section 2 - Composition / Information On Ingredients

Chemical Name	CAS Number	Weight % Less Than	ACGIH TLV-TWA	ACGIH TLV-STEL	OSHA PEL-TWA	OSHA PEL-CEILING
Acetone	67-64-1	30.0	500 PPM	750 PPM	750 PPM	N.E.
Liquefied Petroleum Gas	68476-86-8	30.0	1000 PPM	N.E.	1000 PPM	N.E.
Titanium Dioxide	13463-67-7	15.0	10 mg/m3	N.E.	10 mg/m3	N.E.
Magnesium Silicate	14807-96-6	15.0	10 mg/m3	N.E.	15 mg/m3	N.E.
N-Butyl Acetate	123-86-4	10.0	150 PPM	200 PPM	150 PPM	N.E.
Xylene	1330-20-7	10.0	100 PPM	150 PPM	100 PPM	N.E.
Methyl Ethyl Ketone	78-93-3	10.0	200 PPM	300 PPM	200 PPM	N.E.
Stoddard Solvents	8052-41-3	5.0	100 PPM	N.E.	500 PPM	N.E.
Ethylene Glycol Monobutyl Ether	111-76-2	5.0	20 PPM	N.E.	50 PPM	N.E.
Toluene	108-88-3	5.0	50 PPM	150 PPM	200 PPM	300 PPM
Ethylbenzene	100-41-4	5.0	100 PPM	125 PPM	100 PPM	N.E.
Aromatic Hydrocarbon	64742-95-6	5.0	N.E.	N.E.	N.E.	N.E.
1,2,4-Trimethylbenzene	95-63-6	5.0	25 PPM	N.E.	N.E.	N.E.
Pigment Black 7	1333-86-4	5.0	3.5 mg/m3	N.E.	3.5 mg/m3	N.E.
Pigment Yellow 17	4531-49-1	5.0	2 mg/m3	N.E.	5 mg/m3	N.E.
Pigment Violet 32	12225-08-0	1.0	N.E.	N.E.	N.E.	N.E.
Pigment Red 122	980-26-7	1.0	15mg/m3	N.E.	5mg/m3	N.E.

Section 3 - Hazards Identification

*** Emergency Overview ***: Harmful if inhaled. May affect the brain or nervous system causing dizziness, headache or nausea. Vapors may cause flash fire or explosion. Extremely flammable liquid and vapor. Contents Under Pressure. Harmful if swallowed.

Effects Of Overexposure - Eye Contact: Causes eye irritation.

Effects Of Overexposure - Skin Contact: May be harmful if absorbed through skin. Prolonged or repeated contact may cause skin irritation. Substance may cause slight skin irritation.

Effects Of Overexposure - Inhalation: High vapor concentrations are irritating to the eyes, nose, throat and lungs. Avoid breathing vapors or mists. High gas, vapor, mist or dust concentrations may be harmful if inhaled. Harmful if inhaled.

Effects Of Overexposure - Ingestion: Aspiration hazard if swallowed; can enter lungs and cause damage. Substance may be harmful if swallowed.

Effects Of Overexposure - Chronic Hazards: IARC lists Ethylbenzene as a possible human carcinogen (group 2B). May cause central nervous system disorder (e,g.,narcosis involving a loss of coordination, weakness, fatigue, mental confusion, and blurred vision) and/or damage. Reports have associated repeated and prolonged occupational overexposure to solvents with permanent brain and nervous system damage. Overexposure to xylene in laboratory animals has been associated with liver abnormalities, kidney, lung, spleen, eye and blood damage as well as reproductive disorders. Effects in humans, due to chronic overexposure, have included liver, cardiac abnormalities and nervous system damage. Overexposure to toluene in laboratory animals has been associated with liver abnormalities, kidney, lung and spleen damage. Effects in humans have included liver and cardiac abnormalities. Overexposure to methyl ethyl ketone in laboratory animals has been associated with liver abnormalities, kidney and lung damage. Fetotoxic/embryotoxic effects from inhalation have been seen in rats exposed to >1000ppm during gestation.
Contains carbon black. Chronic inflammation, lung fibrosis, and lung tumors have been observed in some rats experimentally exposed for long periods of time to excessive concentrations of carbon black and several insoluble fine dust particles. Tumors have not been observed in other animal species (i.e., mouse and hampster) under similar circumstances and study conditions. Epidemiological studies of North American workers show no evidence of clinically significant adverse health effects due to occupational exposure to carbon black.
Carbon black is listed as a Group 2B-"Possibly carcinogenic to humans" by IARC and is proposed to be listed as A4- "not classified as a human carcinogen" by the American Conference of Govermental Industrial Hygienists. Significant exposure is not anticipated during brush application or drying. Risk of overexposure depends on duration and level of exposure to dust from repeated sanding of surfaces or spray mist and the actual concentration of carbon black in the formula.

Primary Route(s) Of Entry: Skin Contact, Skin Absorption, Inhalation, Eye Contact

Section 4 - First Aid Measures

First Aid - Eye Contact: Hold eyelids apart and flush with plenty of water for at least 15 minutes. Get medical attention.

First Aid - Skin Contact: Wash with soap and water. Get medical attention if irritation develops or persists.

First Aid - Inhalation: If you experience difficulty in breathing, leave the area to obtain fresh air. If continued difficulty is experienced, get medical assistance immediately.

First Aid - Ingestion: Aspiration hazard: Do not induce vomiting or give anything by mouth because this material can enter the lungs and cause severe lung damage. Get immediate medical attention.

Section 5 - Fire Fighting Measures

Flash Point: -156 F
(Setaflash)

LOWER EXPLOSIVE LIMIT: 0.7 %
UPPER EXPLOSIVE LIMIT : 32.5 %

Extinguishing Media: Dry Chemical, Foam, Water Fog

Unusual Fire And Explosion Hazards: FLASH POINT IS LESS THAN 20 °. F. - EXTREMELY FLAMMABLE LIQUID

AND VAPOR! Water spray may be ineffective. Closed containers may explode when exposed to extreme heat. Vapors may form explosive mixtures with air. Vapors can travel to a source of ignition and flash back. Keep containers tightly closed. Isolate from heat, electrical equipment, sparks and open flame. Perforation of the pressurized container may cause bursting of the can.

Special Firefighting Procedures: Evacuate area and fight fire from a safe distance.

Section 6 - Accidental Release Measures

Steps To Be Taken If Material Is Released Or Spilled: Contain spilled liquid with sand or earth. DO NOT use combustible materials such as sawdust. Remove all sources of ignition, ventilate area and remove with inert absorbent and non-sparking tools. Dispose of according to local, state (provincial) and federal regulations. Do not incinerate closed containers.

Section 7 - Handling And Storage

Handling: Use only in a well-ventilated area. Avoid breathing vapor or mist. Follow all MSDS/label precautions even after container is emptied because it may retain product residues. Wash thoroughly after handling. Wash hands before eating.

Storage: Contents under pressure. Do not expose to heat or store above 120 ° F. Do not store above 120 ° F. Store large quantities in buildings designed and protected for storage of NFPA Class I flammable liquids. Keep containers tightly closed. Isolate from heat, electrical equipment, sparks and open flame.

Section 8 - Exposure Controls / Personal Protection

Engineering Controls: Use process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below recommended exposure limits. Prevent build-up of vapors by opening all doors and windows to achieve cross-ventilation. Use explosion-proof ventilation equipment.

Respiratory Protection: A respiratory protection program that meets OSHA 1910.134 and ANSI Z88.2 requirements must be followed whenever workplace conditions warrant a respirator's use. A NIOSH/MSHA approved air purifying respirator with an organic vapor cartridge or canister may be permissible under certain circumstances where airborne concentrations are expected to exceed exposure limits.

Protection provided by air purifying respirators is limited. Use a positive pressure air supplied respirator if there is any potential for an uncontrolled release, exposure levels are not known, or any other circumstances where air purifying respirators may not provide adequate protection.

Skin Protection: Nitrile or Neoprene gloves may afford adequate skin protection. Use impervious gloves to prevent skin contact and absorption of this material through the skin.

Eye Protection: Use safety eyewear designed to protect against splash of liquids.

Other protective equipment: Refer to safety supervisor or industrial hygienist for further information regarding personal protective equipment and its application.

Hygienic Practices: Wash thoroughly with soap and water before eating, drinking or smoking.

Section 9 - Physical And Chemical Properties

Boiling Range:	-34 - 900 F	Vapor Density:	Heavier than Air

Odor:	Solvent-like	Odor Threshold:	ND
Appearance:	Liquid	Evaporation Rate:	Faster than Ether
Solubility in H2O:	Slight		
Freeze Point:	ND	Specific Gravity:	0.8660
Vapor Pressure:	ND	PH:	ND
Physical State:	Liquid		

(See section 16 for abbreviation legend)

Section 10 - Stability And Reactivity

Conditions To Avoid: Avoid temperatures above 120 ° F. Avoid all possible sources of ignition.

Incompatibility: Incompatible with strong oxidizing agents, strong acids and strong alkalies.

Hazardous Decomposition: By open flame, carbon monoxide and carbon dioxide. When heated to decomposition, it emits acrid smoke and irritating fumes.

Hazardous Polymerization: Will not occur under normal conditions.

Stability: This product is stable under normal storage conditions.

Section 11 - Toxicological Information

Product LD50: ND

Product LC50: ND

Chemical Name	LD50	LC50
Acetone	N.D.	N.D.
Liquefied Petroleum Gas	N.D.	N.D.
Titanium Dioxide	>7500 mg/kg (ORAL, RAT)	N.D.
Magnesium Silicate	N.D.	TCLo:11mg/m3 inh.
N-Butyl Acetate	13100 mg/kg (ORAL, RAT)	2000 PPM (INH 4 Hr, RAT)
Xylene	N.D.	N.D.
Methyl Ethyl Ketone	N.D.	N.D.
Stoddard Solvents	N.D.	N.D.
Ethylene Glycol Monobutyl Ether	1519 mg/kg (ORAL, MOUSE)	700 PPM (INH 7 Hr, RAT)
Toluene	N.D.	N.D.
Ethylbenzene	3500 mg/kg (ORAL, RAT)	N.D.
Aromatic Hydrocarbon	N.D.	N.D.
1,2,4-Trimethylbenzene	N.D.	18000 mg/m3 (RAT, 4 HR)
Pigment Black 7	>8000 mg/kg (ORAL, RAT)	N.D.
Pigment Yellow 17	N.D.	N.D.
Pigment Violet 32	>10000 mg/kg (ORAL, RAT)	N.D.
Pigment Red 122	N.D.	N.D.

Section 12 - Ecological Information

Ecological Information: Product is a mixture of listed components.

Section 13 - Disposal Information

Disposal Information: Dispose of material in accordance to local, state and federal regulations and ordinances. Do

not allow to enter storm drains or sewer systems.

Section 14 - Transportation Information

DOT Proper Shipping Name:	Aerosol	Packing Group:	---
DOT Technical Name:	---	Hazard Subclass:	---
DOT Hazard Class:	2.1	Resp. Guide Page:	126
DOT UN/NA Number:	UN1950		

Section 15 - Regulatory Information

CERCLA - SARA Hazard Category

This product has been reviewed according to the EPA "Hazard Categories" promulgated under Sections 311and 312 of the Superfund Amendment and Reauthorization Act of 1986 (SARA Title III) and is considered, under applicable definitions, to meet the following categories:

IMMEDIATE HEALTH HAZARD, CHRONIC HEALTH HAZARD, FIRE HAZARD

SARA Section 313:

Listed below are the substances (if any) contained in this product that are subject to the reporting requirements of Section 313 of Title III of the Superfund Amendment and Reauthorization Act of 1986 and 40 CFR part 372:

Chemical Name	CAS Number
Xylene	1330-20-7
Methyl Ethyl Ketone	78-93-3
Ethylene Glycol Monobutyl Ether	111-76-2
Toluene	108-88-3
Ethylbenzene	100-41-4
1,2,4-Trimethylbenzene	95-63-6

Toxic Substances Control Act:

Listed below are the substances (if any) contained in this product that are subject to the reporting requirements of TSCA 12(B) if exported from the United States:

None known

U.S. State Regulations: As follows -

New Jersey Right-to-Know:

The following materials are non-hazardous, but are among the top five components in this product.

Chemical Name	CAS Number
Alkyd Resin	MIXTURE

Pennsylvania Right-to-Know:

The following non-hazardous ingredients are present in the product at greater than 3%.

Chemical Name	CAS Number
Alkyd Resin	MIXTURE
Barium Sulfate	7727-43-7
Calcium Carbonate	1317-65-3
Yellow Iron Oxide	51274-00-1

California Proposition 65:

WARNING! This product contains a chemical(s) known by the State of California to cause cancer.

WARNING! This product contains a chemical(s) known to the state of California to cause birth defects or other reproductive harm.

International Regulations: As follows -

CANADIAN WHMIS:

This MSDS has been prepared in compliance with Controlled Product Regulations except for the use of the 16 headings.

CANADIAN WHMIS CLASS: AB5, D2A, D2B

Section 16 - Other Information

HMIS Ratings:

Health: 2 Flammability: 4 Reactivity: 0 Personal Protection: X

VOLATILE ORGANIC COMPOUNDS, g/l:

REASON FOR REVISION:

Legend: N.A. - Not Applicable, N.E. - Not Established, N.D. - Not Determined

The information contained on this MSDS has been checked and should be accurate. However, it is the responsibility of the user to comply with all Federal, State, and Local laws and regulations.

MATERIAL SAFETY DATA SHEET

17006
03 00

Section 1 -- PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NUMBER	DATE OF PREPARATION	HMIS CODES	
		Health	2*
17006	01-SEP-07	Flammability	3
		Reactivity	1

PRODUCT NAME
ACE® Premium Enamel, Chrome Aluminum

MANUFACTURER'S NAME
Mfd. for:
ACE HARDWARE COPORATION
Oak Brook, IL 60521

TELEPHONE NUMBERS and WEBSITES
Regulatory Information
(216) 566-2902 www.paintdocs.com
Medical Emergency
(216) 566-2917
Transportation Emergency for Chemical Emergency ONLY (spill, leak,
(800) 424-9300 fire, exposure, or accident)

Section 2 -- COMPOSITION/INFORMATION ON INGREDIENTS

% by WT	CAS No.	INGREDIENT			UNITS	VAPOR PRESSURE
16	74-98-6	Propane				
			ACGIH	TLV 2500	ppm	760 mm
			OSHA	PEL 1000	ppm	
16	106-97-8	Butane				
			ACGIH	TLV 800	ppm	760 mm
			OSHA	PEL 800	ppm	
1	64742-88-7	Mineral Spirits				
			ACGIH	TLV 100	ppm	2 mm
			OSHA	PEL 100	ppm	
34	108-88-3	Toluene				
			ACGIH	TLV 20	ppm	22 mm
			OSHA	PEL 100	ppm (Skin)	
			OSHA	PEL 150	ppm (Skin) STEL	
0.4	100-41-4	Ethylbenzene				
			ACGIH	TLV 100	ppm	7.1 mm
			ACGIH	TLV 125	ppm STEL	
			OSHA	PEL 100	ppm	
			OSHA	PEL 125	ppm STEL	
2	1330-20-7	Xylene				
			ACGIH	TLV 100	ppm	5.9 mm
			ACGIH	TLV 150	ppm STEL	
			OSHA	PEL 100	ppm	
			OSHA	PEL 150	ppm STEL	
10	67-64-1	Acetone				
			ACGIH	TLV 500	ppm	180 mm
			ACGIH	TLV 750	ppm STEL	
			OSHA	PEL 1000	ppm	

Continued on page 2

Section 3 -- HAZARDS IDENTIFICATION

ROUTES OF EXPOSURE
INHALATION of vapor or spray mist.
EYE or SKIN contact with the product, vapor or spray mist.
EFFECTS OF OVEREXPOSURE
EYES: Irritation.
SKIN: Prolonged or repeated exposure may cause irritation.
INHALATION: Irritation of the upper respiratory system.
May cause nervous system depression. Extreme overexposure may result in unconsciousness and possibly death.
SIGNS AND SYMPTOMS OF OVEREXPOSURE
Headache, dizziness, nausea, and loss of coordination are indications of excessive exposure to vapors or spray mists.
Redness and itching or burning sensation may indicate eye or excessive skin exposure.
MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE
None generally recognized.
CANCER INFORMATION
For complete discussion of toxicology data refer to Section 11.

Section 4 -- FIRST AID MEASURES

EYES: Flush eyes with large amounts of water for 15 minutes. Get medical attention.
SKIN: Wash affected area thoroughly with soap and water. Remove contaminated clothing and launder before re-use.
INHALATION: If affected, remove from exposure. Restore breathing. Keep warm and quiet.
INGESTION: Do not induce vomiting. Get medical attention immediately.

Section 5 -- FIRE FIGHTING MEASURES

FLASH POINT	LEL	UEL
Propellant < 0 F	1.0	12.8

EXTINGUISHING MEDIA
Carbon Dioxide, Dry Chemical, Foam
UNUSUAL FIRE AND EXPLOSION HAZARDS
Containers may explode when exposed to extreme heat.
Application to hot surfaces requires special precautions.
During emergency conditions overexposure to decomposition products may cause a health hazard. Symptoms may not be immediately apparent. Obtain medical attention.
SPECIAL FIRE FIGHTING PROCEDURES
Full protective equipment including self-contained breathing apparatus should be used.
Water spray may be ineffective. If water is used, fog nozzles are preferable. Water may be used to cool closed containers to prevent pressure build-up and possible autoignition or explosion when exposed to extreme heat.

Continued on page 3

Section 6 -- ACCIDENTAL RELEASE MEASURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED

Remove all sources of ignition. Ventilate the area.

Remove with inert absorbent.

Section 7 -- HANDLING AND STORAGE

STORAGE CATEGORY

Not Available

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE

Keep away from heat, sparks, and open flame. Vapors will accumulate readily and may ignite explosively.

During use and until all vapors are gone: Keep area ventilated - Do not smoke - Extinguish all flames, pilot lights, and heaters - Turn off stoves, electric tools and appliances, and any other sources of ignition.

Consult NFPA Code. Use approved Bonding and Grounding procedures.

Contents under pressure. Do not puncture, incinerate, or expose to temperature above 120F. Heat from sunlight, radiators, stoves, hot water, and other heat sources could cause container to burst. Do not take internally. Keep out of the reach of children.

Section 8 -- EXPOSURE CONTROLS/PERSONAL PROTECTION

PRECAUTIONS TO BE TAKEN IN USE

Use only with adequate ventilation.

Avoid contact with skin and eyes. Avoid breathing vapor and spray mist.

Wash hands after using.

This coating may contain materials classified as nuisance particulates (listed "as Dust" in Section 2) which may be present at hazardous levels only during sanding or abrading of the dried film. If no specific dusts are listed in Section 2, the applicable limits for nuisance dusts are ACGIH TLV 10 mg/m3 (total dust), 3 mg/m3 (respirable fraction), OSHA PEL 15 mg/m3 (total dust), 5 mg/m3 (respirable fraction).

Removal of old paint by sanding, scraping or other means may generate dust or fumes that contain lead. Exposure to lead dust or fumes may cause brain damage or other adverse health effects, especially in children or pregnant women. Controlling exposure to lead or other hazardous substances requires the use of proper protective equipment, such as a properly fitted respirator (NIOSH approved) and proper containment and cleanup. For more information, call the National Lead Information Center at 1-800-424-LEAD (in US) or contact your local health authority.

VENTILATION

Local exhaust preferable. General exhaust acceptable if the exposure to materials in Section 2 is maintained below applicable exposure limits. Refer to OSHA Standards 1910.94, 1910.107, 1910.108.

RESPIRATORY PROTECTION

If personal exposure cannot be controlled below applicable limits by ventilation, wear a properly fitted organic vapor/particulate respirator approved by NIOSH/MSHA for protection against materials in Section 2.

When sanding or abrading the dried film, wear a dust/mist respirator approved by NIOSH/MSHA for dust which may be generated from this product, underlying paint, or the abrasive.

Continued on page 4

PROTECTIVE GLOVES

None required for normal application of aerosol products where minimal skin contact is expected. For long or repeated contact, wear chemical resistant gloves.

EYE PROTECTION

Wear safety spectacles with unperforated sideshields.

OTHER PRECAUTIONS

Intentional misuse by deliberately concentrating and inhaling the contents can be harmful or fatal.

Section 9 -- PHYSICAL AND CHEMICAL PROPERTIES

PRODUCT WEIGHT	6.24 lb/gal	747 g/l
SPECIFIC GRAVITY	0.75	
BOILING POINT	<0 - 395 F	<-18 - 201 C
MELTING POINT	Not Available	
VOLATILE VOLUME	87 %	
EVAPORATION RATE	Faster than ether	
VAPOR DENSITY	Heavier than air	
SOLUBILITY IN WATER	N.A.	
pH	7.0	

VOLATILE ORGANIC COMPOUNDS (VOC Theoretical - As Packaged)

Volatile Weight 69.51% Less Water and Federally Exempt Solvents

Section 10 -- STABILITY AND REACTIVITY

STABILITY -- Stable

CONDITIONS TO AVOID

None known.

INCOMPATIBILITY

None known.

HAZARDOUS DECOMPOSITION PRODUCTS

By fire: Carbon Dioxide, Carbon Monoxide

HAZARDOUS POLYMERIZATION

Will not occur

Section 11 -- TOXICOLOGICAL INFORMATION

CHRONIC HEALTH HAZARDS

Ethylbenzene is classified by IARC as possibly carcinogenic to humans (2B) based on inadequate evidence in humans and sufficient evidence in laboratory animals. Lifetime inhalation exposure of rats and mice to high ethylbenzene concentrations resulted in increases in certain types of cancer, including kidney tumors in rats and lung and liver tumors in mice. These effects were not observed in animals exposed to lower concentrations. There is no evidence that ethylbenzene causes cancer in humans.

Prolonged overexposure to solvent ingredients in Section 2 may cause adverse effects to the liver, urinary, cardiovascular and reproductive systems.

Reports have associated repeated and prolonged overexposure to solvents with permanent brain and nervous system damage.

TOXICOLOGY DATA

Continued on page 5

CAS No.	Ingredient Name				
74-98-6	Propane				
		LC50	RAT	4HR	Not Available
		LD50	RAT		Not Available
106-97-8	Butane				
		LC50	RAT	4HR	Not Available
		LD50	RAT		Not Available
64742-88-7	Mineral Spirits				
		LC50	RAT	4HR	Not Available
		LD50	RAT		Not Available
108-88-3	Toluene				
		LC50	RAT	4HR	4000 ppm
		LD50	RAT		5000 mg/kg
100-41-4	Ethylbenzene				
		LC50	RAT	4HR	Not Available
		LD50	RAT		3500 mg/kg
1330-20-7	Xylene				
		LC50	RAT	4HR	5000 ppm
		LD50	RAT		4300 mg/kg
67-64-1	Acetone				
		LC50	RAT	4HR	Not Available
		LD50	RAT		5800 mg/kg

Section 12 -- ECOLOGICAL INFORMATION

ECOTOXICOLOGICAL INFORMATION
No data available.

Section 13 -- DISPOSAL CONSIDERATIONS

WASTE DISPOSAL METHOD
Waste from this product may be hazardous as defined under the Resource Conservation and Recovery Act (RCRA) 40 CFR 261.
Waste must be tested for ignitability to determine the applicable EPA hazardous waste numbers.
Do not incinerate. Depressurize container. Dispose of in accordance with Federal, State/Provincial, and Local regulations regarding pollution.

Section 14 -- TRANSPORT INFORMATION

US Ground (DOT)
May be classed as Consumer Commodity, ORM-D
UN1950, AEROSOLS, 2.1, LIMITED QUANTITY, (ERG#126)

Canada (TDG)
May be classed as Consumer Commodity, ORM-D
UN1950, AEROSOLS, CLASS 2.1, LIMITED QUANTITY, (ERG#126)

IMO
May be shipped as Limited Quantity
UN1950, AEROSOLS, CLASS 2, LIMITED QUANTITY, EmS F-D, S-U

Continued on page 6

Section 15 -- REGULATORY INFORMATION

SARA 313 (40 CFR 372.65C) SUPPLIER NOTIFICATION

CAS No.	CHEMICAL/COMPOUND	% by WT	% Element
108-88-3	Toluene	34	
100-41-4	Ethylbenzene	0.3	
1330-20-7	Xylene	2	

CALIFORNIA PROPOSITION 65

WARNING: This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.

TSCA CERTIFICATION

All chemicals in this product are listed, or are exempt from listing, on the TSCA Inventory.

Section 16 -- OTHER INFORMATION

This product has been classified in accordance with the hazard criteria of the Canadian Controlled Products Regulations (CPR) and the MSDS contains all of the information required by the CPR.

The above information pertains to this product as currently formulated, and is based on the information available at this time. Addition of reducers or other additives to this product may substantially alter the composition and hazards of the product. Since conditions of use are outside our control, we make no warranties, express or implied, and assume no liability in connection with any use of this information.

MATERIAL SAFETY DATA SHEET

1929
02 00

DATE OF PREPARATION
Feb 28, 2009

SECTION 1 — PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NUMBER
1929
PRODUCT NAME
KRYLON® OSHA Colors, Safety Purple
MANUFACTURER'S NAME
THE SHERWIN-WILLIAMS COMPANY
KRYLON Products Group
Cleveland, OH 44115

Telephone Numbers and Websites

Product Information	(800) 832-2541
Regulatory Information	(216) 566-2902 www.paintdocs.com
Medical Emergency	(216) 566-2917
Transportation Emergency*	(800) 424-9300
**for Chemical Emergency ONLY (spill, leak, fire, exposure, or accident)*	

SECTION 2 — COMPOSITION/INFORMATION ON INGREDIENTS

% by Weight	CAS Number	Ingredient	Units	Vapor Pressure
14	**74-98-6**	**Propane**		
		ACGIH TLV	2500 PPM	760 mm
		OSHA PEL	1000 PPM	
6	**106-97-8**	**Butane**		
		ACGIH TLV	800 PPM	760 mm
		OSHA PEL	800 PPM	
2	**100-41-4**	**Ethylbenzene**		
		ACGIH TLV	100 PPM	7.1 mm
		ACGIH TLV	125 PPM STEL	
		OSHA PEL	100 PPM	
		OSHA PEL	125 PPM STEL	
10	**1330-20-7**	**Xylene**		
		ACGIH TLV	100 PPM	5.9 mm
		ACGIH TLV	150 PPM STEL	
		OSHA PEL	100 PPM	
		OSHA PEL	150 PPM STEL	
39	**67-64-1**	**Acetone**		
		ACGIH TLV	500 PPM	180 mm
		ACGIH TLV	750 PPM STEL	
		OSHA PEL	1000 PPM	
8	**78-93-3**	**Methyl Ethyl Ketone**		
		ACGIH TLV	200 PPM	70 mm
		ACGIH TLV	300 PPM STEL	
		OSHA PEL	200 PPM	
		OSHA PEL	300 PPM STEL	
8	**108-65-6**	**1-Methoxy-2-Propanol Acetate**		
		ACGIH TLV	Not Available	1.8 mm
		OSHA PEL	Not Available	
0.8	**13463-67-7**	**Titanium Dioxide**		
		ACGIH TLV	10 mg/m3 as Dust	
		OSHA PEL	10 mg/m3 Total Dust	
		OSHA PEL	5 mg/m3 Respirable Fraction	

SECTION 3 — HAZARDS IDENTIFICATION

ROUTES OF EXPOSURE
INHALATION of vapor or spray mist.

EYE or SKIN contact with the product, vapor or spray mist.

HMIS Codes

Health	2*
Flammability	3
Reactivity	0

EFFECTS OF OVEREXPOSURE

EYES: Irritation.
SKIN: Prolonged or repeated exposure may cause irritation.
INHALATION: Irritation of the upper respiratory system.

May cause nervous system depression. Extreme overexposure may result in unconsciousness and possibly death.
Prolonged overexposure to solvent ingredients in Section 2 may cause adverse effects to the liver, urinary, blood forming and reproductive systems.

SIGNS AND SYMPTOMS OF OVEREXPOSURE

Headache, dizziness, nausea, and loss of coordination are indications of excessive exposure to vapors or spray mists.
Redness and itching or burning sensation may indicate eye or excessive skin exposure.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE

None generally recognized.

CANCER INFORMATION

For complete discussion of toxicology data refer to Section 11.

SECTION 4 — FIRST AID MEASURES

EYES: Flush eyes with large amounts of water for 15 minutes. Get medical attention.
SKIN: Wash affected area thoroughly with soap and water.
Remove contaminated clothing and launder before re-use.
INHALATION: If affected, remove from exposure. Restore breathing. Keep warm and quiet.
INGESTION: Do not induce vomiting. Get medical attention immediately.

SECTION 5 — FIRE FIGHTING MEASURES

FLASH POINT	LEL	UEL	EXTINGUISHING MEDIA
Propellant < 0° F	1.0	13.1	Carbon Dioxide, Dry Chemical, Foam

UNUSUAL FIRE AND EXPLOSION HAZARDS

Containers may explode when exposed to extreme heat.
Application to hot surfaces requires special precautions.
During emergency conditions overexposure to decomposition products may cause a health hazard. Symptoms may not be immediately apparent. Obtain medical attention.

SPECIAL FIRE FIGHTING PROCEDURES

Full protective equipment including self-contained breathing apparatus should be used.
Water spray may be ineffective. If water is used, fog nozzles are preferable. Water may be used to cool closed containers to prevent pressure build-up and possible autoignition or explosion when exposed to extreme heat.

SECTION 6 — ACCIDENTAL RELEASE MEASURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED

- Remove all sources of ignition. Ventilate the area.
- Remove with inert absorbent.

SECTION 7 — HANDLING AND STORAGE

STORAGE CATEGORY

Not Available

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE

Keep away from heat, sparks, and open flame. Vapors will accumulate readily and may ignite explosively.
During use and until all vapors are gone: Keep area ventilated - Do not smoke - Extinguish all flames, pilot lights, and heaters - Turn off stoves, electric tools and appliances, and any other sources of ignition.
Consult NFPA Code. Use approved Bonding and Grounding procedures.
Contents under pressure. Do not puncture, incinerate, or expose to temperature above 120F. Heat from sunlight, radiators, stoves, hot water, and other heat sources could cause container to burst. Do not take internally. Keep out of the reach of children.

SECTION 8 — EXPOSURE CONTROLS/PERSONAL PROTECTION

PRECAUTIONS TO BE TAKEN IN USE

Use only with adequate ventilation.
Avoid contact with skin and eyes. Avoid breathing vapor and spray mist.
Wash hands after using.
This coating may contain materials classified as nuisance particulates (listed "as Dust" in Section 2) which may be present at hazardous levels only during sanding or abrading of the dried film. If no specific dusts are listed in Section 2, the applicable limits for nuisance dusts are ACGIH TLV 10 mg/m3 (total dust), 3 mg/m3 (respirable fraction), OSHA PEL 15 mg/m3 (total dust), 5 mg/m3 (respirable fraction).

VENTILATION

Local exhaust preferable. General exhaust acceptable if the exposure to materials in Section 2 is maintained below applicable exposure limits. Refer to OSHA Standards 1910.94, 1910.107, 1910.108.

RESPIRATORY PROTECTION

If personal exposure cannot be controlled below applicable limits by ventilation, wear a properly fitted organic vapor/particulate respirator approved by NIOSH/MSHA for protection against materials in Section 2.

When sanding or abrading the dried film, wear a dust/mist respirator approved by NIOSH/MSHA for dust which may be generated from this product, underlying paint, or the abrasive.

PROTECTIVE GLOVES

None required for normal application of aerosol products where minimal skin contact is expected. For long or repeated contact, wear chemical resistant gloves.

EYE PROTECTION

Wear safety spectacles with unperforated sideshields.

OTHER PRECAUTIONS

Intentional misuse by deliberately concentrating and inhaling the contents can be harmful or fatal.

SECTION 9 — PHYSICAL AND CHEMICAL PROPERTIES

PRODUCT WEIGHT	6.40 lb/gal	766 g/l
SPECIFIC GRAVITY	0.77	
BOILING POINT	<0 - 302° F	<-18 - 150° C
MELTING POINT	Not Available	
VOLATILE VOLUME	92%	
EVAPORATION RATE	Faster than ether	
VAPOR DENSITY	Heavier than air	
SOLUBILITY IN WATER	N.A.	
pH	7.0	

VOLATILE ORGANIC COMPOUNDS (VOC Theoretical - As Packaged)

Volatile Weight 48.81% Less Water and Federally Exempt Solvents

SECTION 10 — STABILITY AND REACTIVITY

STABILITY — Stable

CONDITIONS TO AVOID

None known.

INCOMPATIBILITY

None known.

HAZARDOUS DECOMPOSITION PRODUCTS

By fire: Carbon Dioxide, Carbon Monoxide

HAZARDOUS POLYMERIZATION

Will not occur

SECTION 11 — TOXICOLOGICAL INFORMATION

CHRONIC HEALTH HAZARDS

Methyl Ethyl Ketone may increase the nervous system effects of other solvents.

Reports have associated repeated and prolonged overexposure to solvents with permanent brain and nervous system damage.

Ethylbenzene is classified by IARC as possibly carcinogenic to humans (2B) based on inadequate evidence in humans and sufficient evidence in laboratory animals. Lifetime inhalation exposure of rats and mice to high ethylbenzene concentrations resulted in increases in certain types of cancer, including kidney tumors in rats and lung and liver tumors in mice. These effects were not observed in animals exposed to lower concentrations. There is no evidence that ethylbenzene causes cancer in humans.

IARC's Monograph No. 93 reports there is sufficient evidence of carcinogenicity in experimental rats exposed to titanium dioxide but inadequate evidence for carcinogenicity in humans and has assigned a Group 2B rating. In addition, the IARC summary concludes, "No significant exposure to titanium dioxide is thought to occur during the use of products in which titanium is bound to other materials, such as paint."

TOXICOLOGY DATA

CAS No.	Ingredient Name			
74-98-6	**Propane**			
		LC50 RAT	4HR	Not Available
		LD50 RAT		Not Available
106-97-8	**Butane**			
		LC50 RAT	4HR	Not Available
		LD50 RAT		Not Available
100-41-4	**Ethylbenzene**			
		LC50 RAT	4HR	Not Available
		LD50 RAT		3500 mg/kg
1330-20-7	**Xylene**			
		LC50 RAT	4HR	5000 ppm
		LD50 RAT		4300 mg/kg
67-64-1	**Acetone**			
		LC50 RAT	4HR	Not Available
		LD50 RAT		5800 mg/kg
78-93-3	**Methyl Ethyl Ketone**			
		LC50 RAT	4HR	Not Available
		LD50 RAT		2740 mg/kg
108-65-6	**1-Methoxy-2-Propanol Acetate**			
		LC50 RAT	4HR	Not Available
		LD50 RAT		8500 mg/kg
13463-67-7	**Titanium Dioxide**			
		LC50 RAT	4HR	Not Available
		LD50 RAT		Not Available

SECTION 12 — ECOLOGICAL INFORMATION

ECOTOXICOLOGICAL INFORMATION

No data available.

SECTION 13 — DISPOSAL CONSIDERATIONS

WASTE DISPOSAL METHOD

Waste from this product may be hazardous as defined under the Resource Conservation and Recovery Act (RCRA) 40 CFR 261.
Waste must be tested for ignitability to determine the applicable EPA hazardous waste numbers.
Do not incinerate. Depressurize container. Dispose of in accordance with Federal, State/Provincial, and Local regulations regarding pollution.

SECTION 14 — TRANSPORT INFORMATION

US Ground (DOT)

May be classed as Consumer Commodity, ORM-D
UN1950, AEROSOLS, 2.1, LIMITED QUANTITY, (ERG#126)

Canada (TDG)

May be classed as Consumer Commodity, ORM-D
UN1950, AEROSOLS, CLASS 2.1, LIMITED QUANTITY, (ERG#126)

IMO

May be shipped as Limited Quantity
UN1950, AEROSOLS, CLASS 2.1, LIMITED QUANTITY, EmS F-D, S-U

SECTION 15 — REGULATORY INFORMATION

SARA 313 *(40 CFR 372.65C)* SUPPLIER NOTIFICATION

CAS No.	CHEMICAL/COMPOUND	% by WT	% Element
100-41-4	Ethylbenzene	2	
1330-20-7	Xylene	10	

CALIFORNIA PROPOSITION 65

WARNING: This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.

TSCA CERTIFICATION

All chemicals in this product are listed, or are exempt from listing, on the TSCA Inventory.

SECTION 16 — OTHER INFORMATION

This product has been classified in accordance with the hazard criteria of the Canadian Controlled Products Regulations (CPR) and the MSDS contains all of the information required by the CPR.

The above information pertains to this product as currently formulated, and is based on the information available at this time. Addition of reducers or other additives to this product may substantially alter the composition and hazards of the product. Since conditions of use are outside our control, we make no warranties, express or implied, and assume no liability in connection with any use of this information.

Material Safety Data Sheet

24 Hour Assistance:
1-847-367-7700
Rust-Oleum Corp.
www.rustoleum.com

Section 1 - Chemical Product / Company Information

Product Name:	Rust-Oleum Professional Oil Based Enamels - Topcoats	Revision Date:	11/13/2007
Identification Number:	7738402, 7765402, 7775402, 7727402, 7748402, 7770402, 7776402, 7779300, 7779402, 7781402, 7786402, 7790402, 7792300, 7792402, 7771402, 239076, 239094, 239078		
Product Use/Class:	Topcoat/Alkyd		
Supplier:	Rust-Oleum Corporation 11 Hawthorn Parkway Vernon Hills, IL 60061 USA	Manufacturer:	Rust-Oleum Corporation 11 Hawthorn Parkway Vernon Hills, IL 60061 USA
Preparer:	Regulatory Department		

Section 2 - Composition / Information On Ingredients

Chemical Name	CAS Number	Weight % Less Than	ACGIH TLV-TWA	ACGIH TLV-STEL	OSHA PEL-TWA	OSHA PEL-CEILING
Stoddard Solvents	8052-41-3	50.0	100 PPM	N.E.	500 PPM	N.E.
Titanium Dioxide	13463-67-7	25.0	10 mg/m3	N.E.	10 mg/m3	N.E.
Calcined Aluminum Silicate	1332-58-7	20.0	2 mg/m3	N.E.	5 mg/m3	N.E.
Magnesium Silicate	14807-96-6	15.0	10 mg/m3	N.E.	15 mg/m3	N.E.
Pigment Black 7	1333-86-4	5.0	3.5 mg/m3	N.E.	3.5 mg/m3	N.E.
Microcrystalline Silica	14808-60-7	1.0	0.025 mg/m3	N.E.	0.10 mg/m3	N.E.
Ethylbenzene	100-41-4	1.0	100 PPM	125 PPM	100 PPM	N.E.

Section 3 - Hazards Identification

*** Emergency Overview ***: Harmful if inhaled. May affect the brain or nervous system causing dizziness, headache or nausea. Harmful if swallowed. Causes eye irritation. Vapors irritating to eyes and respiratory tract. Combustible liquid and vapor.

Effects Of Overexposure - Eye Contact: Causes eye irritation.

Effects Of Overexposure - Skin Contact: May cause skin irritation.

Effects Of Overexposure - Inhalation: High vapor concentrations are irritating to the eyes, nose, throat and lungs. May cause headaches and dizziness. Harmful if inhaled.

Effects Of Overexposure - Ingestion: Aspiration hazard if swallowed; can enter lungs and cause damage. Substance may be harmful if swallowed.

Effects Of Overexposure - Chronic Hazards: Contains Titanium Dioxide. Titanium Dioxide is listed as a Group 2B-"Possibly carcinogenic to humans" by IARC. Significant exposure is not anticipated during brush application or drying. Risk of overexposure depends on duration and level of exposure to dust from repeated sanding of surfaces

or spray mist and the actual concentration of Titanium Dioxide in the formula.
IARC lists Ethylbenzene as a possible human carcinogen (group 2B). Reports have associated repeated and prolonged occupational overexposure to solvents with permanent brain and nervous system damage. Contains carbon black. Chronic inflammation, lung fibrosis, and lung tumors have been observed in some rats experimentally exposed for long periods of time to excessive concentrations of carbon black and several insoluble fine dust particles. Tumors have not been observed in other animal species (i.e., mouse and hampster) under similar circumstances and study conditions. Epidemiological studies of North American workers show no evidence of clinically significant adverse health effects due to occupational exposure to carbon black.
Carbon black is listed as a Group 2B-"Possibly carcinogenic to humans" by IARC and is proposed to be listed as A4- "not classified as a human carcinogen" by the American Conference of Govermental Industrial Hygienists. Significant exposure is not anticipated during brush application or drying. Risk of overexposure depends on duration and level of exposure to dust from repeated sanding of surfaces or spray mist and the actual concentration of carbon black in the formula. Contains crystalline silica as silicon dioxide. Excessive inhalation of respirable crystalline silica dust may cause lung disease, silicosis or lung cancer. Significant exposure is not anticipated during brush or trowel application or drying. Risk of overexposure depends on the duration and level of exposure to dust from repeated sanding of surfaces, mechanical abrasion or spray mist and actual concentration of crystalline silica in the formula. Crystalline silica is listed as Group 1 "carcinogenic to humans" by the International Agency for Research on Cancer (IARC,) and Group 2, "reasonably anticipated to be a carcinogen" by the National Toxicology Program (NTP)

Primary Route(s) Of Entry: Skin Contact, Skin Absorption, Inhalation, Eye Contact

Section 4 - First Aid Measures

First Aid - Eye Contact: Hold eyelids apart and flush with plenty of water for at least 15 minutes. Get medical attention.

First Aid - Skin Contact: Wash with soap and water. Get medical attention if irritation develops or persists.

First Aid - Inhalation: Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get immediate medical attention.

First Aid - Ingestion: Aspiration hazard: Do not induce vomiting or give anything by mouth because this material can enter the lungs and cause severe lung damage. Get immediate medical attention.

Section 5 - Fire Fighting Measures

Flash Point: 104 F
(Setaflash)

LOWER EXPLOSIVE LIMIT: 0.7 %
UPPER EXPLOSIVE LIMIT : 22.0 %

Extinguishing Media: Dry Chemical, Foam, Water Fog

Unusual Fire And Explosion Hazards: Keep containers tightly closed.

Special Firefighting Procedures: Water may be used to cool closed containers to prevent pressure buildup and possible autoignition or explosion. Evacuate area and fight fire from a safe distance.

Section 6 - Accidental Release Measures

Steps To Be Taken If Material Is Released Or Spilled: Contain spilled liquid with sand or earth. DO NOT use combustible materials such as sawdust. Dispose of according to local, state (provincial) and federal regulations. Do not incinerate closed containers.

Section 7 - Handling And Storage

Handling: Wash hands before eating. Wash thoroughly after handling. Avoid breathing vapor or mist. Avoid contact with eyes. Follow all MSDS/label precautions even after container is emptied because it may retain product residues.

Storage: Keep container closed when not in use. Keep away from heat, sparks, flame and sources of ignition. Keep containers tightly closed. Isolate from heat, electrical equipment, sparks and open flame.

Section 8 - Exposure Controls / Personal Protection

Engineering Controls: Prevent build-up of vapors by opening all doors and windows to achieve cross-ventilation. Use process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below recommended exposure limits.

Respiratory Protection: A respiratory protection program that meets OSHA 1910.134 and ANSI Z88.2 requirements must be followed whenever workplace conditions warrant a respirator's use. A NIOSH/MSHA approved air purifying respirator with an organic vapor cartridge or canister may be permissible under certain circumstances where airborne concentrations are expected to exceed exposure limits.

Protection provided by air purifying respirators is limited. Use a positive pressure air supplied respirator if there is any potential for an uncontrolled release, exposure levels are not known, or any other circumstances where air purifying respirators may not provide adequate protection.

Skin Protection: Nitrile or Neoprene gloves may afford adequate skin protection. Use impervious gloves to prevent skin contact and absorption of this material through the skin.

Eye Protection: Use safety eyewear designed to protect against splash of liquids.

Other protective equipment: Refer to safety supervisor or industrial hygienist for further information regarding personal protective equipment and its application.

Hygienic Practices: Wash thoroughly with soap and water before eating, drinking or smoking.

Section 9 - Physical And Chemical Properties

Boiling Range:	176 - 900 F	Vapor Density:	Heavier than air
Odor:	Solvent Like	Odor Threshold:	ND
Appearance:	Liquid	Evaporation Rate:	Slower than Ether
Solubility in H2O:	Slight		
Freeze Point:	ND	Specific Gravity:	1.2100
Vapor Pressure:	ND	PH:	NE
Physical State:	Liquid		

(See section 16 for abbreviation legend)

Section 10 - Stability And Reactivity

Conditions To Avoid: Avoid all possible sources of ignition.

Incompatibility: Incompatible with strong oxidizing agents, strong acids and strong alkalies.

Hazardous Decomposition: When heated to decomposition, it emits acrid smoke and irritating fumes. By open flame, carbon monoxide and carbon dioxide.

Hazardous Polymerization: Will not occur under normal conditions.

Stability: This product is stable under normal storage conditions.

Section 11 - Toxicological Information

Product LD50: ND

Product LC50: ND

Chemical Name	LD50	LC50
Stoddard Solvents	N.D.	N.D.
Titanium Dioxide	>7500 mg/kg (ORAL, RAT)	N.D.
Calcined Aluminum Silicate	5000 mg/kg (ORAL RAT)	N.D.
Magnesium Silicate	N.D.	TCLo:11mg/m3 inh.
Pigment Black 7	>8000 mg/kg (ORAL, RAT)	N.D.
Microcrystalline Silica	N.D.	N.D.
Ethylbenzene	3500 mg/kg (ORAL, RAT)	N.D.

Section 12 - Ecological Information

Ecological Information: Product is a mixture of listed components.

Section 13 - Disposal Information

Disposal Information: Dispose of material in accordance to local, state and federal regulations and ordinances. Do not allow to enter storm drains or sewer systems.

Section 14 - Transportation Information

DOT Proper Shipping Name:	Paint	Packing Group:	III
DOT Technical Name:	---	Hazard Subclass:	---
DOT Hazard Class:	3	Resp. Guide Page:	128
DOT UN/NA Number:	UN1263		

Section 15 - Regulatory Information

CERCLA - SARA Hazard Category

This product has been reviewed according to the EPA "Hazard Categories" promulgated under Sections 311and 312 of the Superfund Amendment and Reauthorization Act of 1986 (SARA Title III) and is considered, under applicable definitions, to meet the following categories:

IMMEDIATE HEALTH HAZARD, CHRONIC HEALTH HAZARD, FIRE HAZARD

SARA Section 313:

Listed below are the substances (if any) contained in this product that are subject to the reporting requirements of Section 313 of Title III of the Superfund Amendment and Reauthorization Act of 1986 and 40 CFR part 372:

Chemical Name	CAS Number
Ethylbenzene	100-41-4

Toxic Substances Control Act:

Listed below are the substances (if any) contained in this product that are subject to the reporting requirements of TSCA 12(B) if exported from the United States:

None known

U.S. State Regulations: As follows -

New Jersey Right-to-Know:

The following materials are non-hazardous, but are among the top five components in this product.

Chemical Name	CAS Number
Calcium Carbonate	1317-65-3
Alkyd Resin	PROPRIETARY
Alkyd Resin	PROPRIETARY

Pennsylvania Right-to-Know:

The following non-hazardous ingredients are present in the product at greater than 3%.

Chemical Name	CAS Number
Calcium Carbonate	1317-65-3
Alkyd Resin	PROPRIETARY
Alkyd Resin	PROPRIETARY
Pigment Yellow 74	6358-31-2
Yellow Iron Oxide	51274-00-1

California Proposition 65:

WARNING! This product contains a chemical(s) known by the State of California to cause cancer.

WARNING! This product contains a chemical(s) known to the state of California to cause birth defects or other reproductive harm.

International Regulations: As follows -

CANADIAN WHMIS:

This MSDS has been prepared in compliance with Controlled Product Regulations except for the use of the 16 headings.

CANADIAN WHMIS CLASS: B3 D2A D2B

Section 16 - Other Information

HMIS Ratings:

Health: 2* Flammability: 2 Reactivity: 0 Personal Protection: X

VOLATILE ORGANIC COMPOUNDS, g/l: <450

REASON FOR REVISION: Regulatory Update

Legend: N.A. - Not Applicable, N.E. - Not Established, N.D. - Not Determined

The information contained on this MSDS has been checked and should be accurate. However, it is the responsibility of the user to comply with all Federal, State, and Local laws and regulations.

Material Safety Data Sheet

24 Hour Assistance:
1-847-367-7700
Rust-Oleum Corp.
www.rustoleum.com

Section 1 - Chemical Product / Company Information

Product Name:	HARDHT LSPR 6PK GLOSS SAFETY ORANGE	Revision Date:	04/16/2008
Identification Number:	V2155838		
Product Use/Class:	Topcoat/Aerosols		
Supplier:	Rust-Oleum Corporation 11 Hawthorn Parkway Vernon Hills, IL 60061 USA	Manufacturer:	Rust-Oleum Corporation 11 Hawthorn Parkway Vernon Hills, IL 60061 USA
Preparer:	Regulatory Department		

Section 2 - Composition / Information On Ingredients

Chemical Name	CAS Number	Weight % Less Than	ACGIH TLV-TWA	ACGHI TLV-STEL	OSHA PEL-TWA	OSHA PEL CEILING
Liquefied Petroleum Gas	68476-86-8	30.0	1000 PPM	N.E.	1000 PPM	N.E.
Acetone	67-64-1	25.0	500 PPM	750 PPM	750 PPM	N.E.
Xylene	1330-20-7	10.0	100 PPM	150 PPM	100 PPM	N.E.
N-Butyl Acetate	123-86-4	10.0	150 PPM	200 PPM	150 PPM	N.E.
Methyl Ethyl Ketone	78-93-3	5.0	200 PPM	300 PPM	200 PPM	N.E.
Ethylbenzene	100-41-4	5.0	100 PPM	125 PPM	100 PPM	N.E.
Ethylene Glycol Monobutyl Ether	111-76-2	5.0	20 PPM	N.E.	50 PPM	N.E.

Section 3 - Hazards Identification

*** Emergency Overview ***: Contains Aromatic Distillate, which may cause cancer. Contents Under Pressure. Harmful if inhaled. May affect the brain or nervous system causing dizziness, headache or nausea. Harmful if swallowed. Extremely flammable liquid and vapor. Vapors may cause flash fire or explosion.

Effects Of Overexposure - Eye Contact: Causes eye irritation.

Effects Of Overexposure - Skin Contact: May be harmful if absorbed through skin. Prolonged or repeated contact may cause skin irritation. Substance may cause slight skin irritation.

Effects Of Overexposure - Inhalation: High vapor concentrations are irritating to the eyes, nose, throat and lungs. Harmful if inhaled. High gas, vapor, mist or dust concentrations may be harmful if inhaled. Avoid breathing vapors or mists.

Effects Of Overexposure - Ingestion: Aspiration hazard if swallowed; can enter lungs and cause damage. Substance may be harmful if swallowed.

Effects Of Overexposure - Chronic Hazards: IARC lists Ethylbenzene as a possible human carcinogen (group 2B). May cause central nervous system disorder (e,g.,narcosis involving a loss of coordination, weakness, fatigue, mental confusion, and blurred vision) and/or damage. Reports have associated repeated and prolonged

occupational overexposure to solvents with permanent brain and nervous system damage. Overexposure to xylene in laboratory animals has been associated with liver abnormalities, kidney, lung, spleen, eye and blood damage as well as reproductive disorders. Effects in humans, due to chronic overexposure, have included liver, cardiac abnormalities and nervous system damage. Overexposure to methyl ethyl ketone in laboratory animals has been associated with liver abnormalities, kidney and lung damage. Fetotoxic/embryotoxic effects from inhalation have been seen in rats exposed to >1000ppm during gestation.

Primary Route(s) Of Entry: Skin Contact, Skin Absorption, Inhalation, Ingestion, Eye Contact

Section 4 - First Aid Measures

First Aid - Eye Contact: Hold eyelids apart and flush with plenty of water for at least 15 minutes. Get medical attention.

First Aid - Skin Contact: Wash with soap and water. Get medical attention if irritation develops or persists.

First Aid - Inhalation: If you experience difficulty in breathing, leave the area to obtain fresh air. If continued difficulty is experienced, get medical assistance immediately.

First Aid - Ingestion: Aspiration hazard: Do not induce vomiting or give anything by mouth because this material can enter the lungs and cause severe lung damage. Get immediate medical attention.

Section 5 - Fire Fighting Measures

Flash Point: -156 F
(Setaflash)

LOWER EXPLOSIVE LIMIT: 0.7 %
UPPER EXPLOSIVE LIMIT : 12.8 %

Extinguishing Media: Dry Chemical, Foam, Water Fog

Unusual Fire And Explosion Hazards: Water spray may be ineffective. FLASH POINT IS LESS THAN 20 °. F. - EXTREMELY FLAMMABLE LIQUID AND VAPOR! Closed containers may explode when exposed to extreme heat. Vapors may form explosive mixtures with air. Vapors can travel to a source of ignition and flash back. Keep containers tightly closed. Isolate from heat, electrical equipment, sparks and open flame. Perforation of the pressurized container may cause bursting of the can.

Special Firefighting Procedures: Evacuate area and fight fire from a safe distance.

Section 6 - Accidental Release Measures

Steps To Be Taken If Material Is Released Or Spilled: Contain spilled liquid with sand or earth. DO NOT use combustible materials such as sawdust. Remove all sources of ignition, ventilate area and remove with inert absorbent and non-sparking tools. Dispose of according to local, state (provincial) and federal regulations. Do not incinerate closed containers.

Section 7 - Handling And Storage

Handling: Follow all MSDS/label precautions even after container is emptied because it may retain product residues. Avoid breathing vapor or mist. Wash thoroughly after handling. Use only in a well-ventilated area. Wash hands before eating.

Storage: Keep containers tightly closed. Isolate from heat, electrical equipment, sparks and open flame. Do not store above 120 ° F. Store large quantities in buildings designed and protected for storage of NFPA Class I

flammable liquids. Contents under pressure. Do not expose to heat or store above 120 ° F.

Section 8 - Exposure Controls / Personal Protection

Engineering Controls: Prevent build-up of vapors by opening all doors and windows to achieve cross-ventilation. Use process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below recommended exposure limits. Use explosion-proof ventilation equipment.

Respiratory Protection: A respiratory protection program that meets OSHA 1910.134 and ANSI Z88.2 requirements must be followed whenever workplace conditions warrant a respirator's use. A NIOSH/MSHA approved air purifying respirator with an organic vapor cartridge or canister may be permissible under certain circumstances where airborne concentrations are expected to exceed exposure limits.

Protection provided by air purifying respirators is limited. Use a positive pressure air supplied respirator if there is any potential for an uncontrolled release, exposure levels are not known, or any other circumstances where air purifying respirators may not provide adequate protection.

Skin Protection: Use impervious gloves to prevent skin contact and absorption of this material through the skin. Nitrile or Neoprene gloves may afford adequate skin protection.

Eye Protection: Use safety eyewear designed to protect against splash of liquids.

Other protective equipment: Refer to safety supervisor or industrial hygienist for further information regarding personal protective equipment and its application.

Hygienic Practices: Wash thoroughly with soap and water before eating, drinking or smoking.

Section 9 - Physical And Chemical Properties

Boiling Range:	-34 - 415 F	Vapor Density:	Heavier than Air
Odor:	Solvent Like	Odor Threshold:	ND
Appearance:	Liquid	Evaporation Rate:	Faster than Ether
Solubility in H2O:	Slight		
Freeze Point:	ND	Specific Gravity:	0.782
Vapor Pressure:	ND	PH:	NE
Physical State:	Liquid		

(See section 16 for abbreviation legend)

Section 10 - Stability And Reactivity

Conditions To Avoid: Avoid temperatures above 120 ° F. Avoid all possible sources of ignition.

Incompatibility: Incompatible with strong oxidizing agents, strong acids and strong alkalies.

Hazardous Decomposition: When heated to decomposition, it emits acrid smoke and irritating fumes. By open flame, carbon monoxide and carbon dioxide.

Hazardous Polymerization: Will not occur under normal conditions.

Stability: This product is stable under normal storage conditions.

Section 11 - Toxicological Information

Product LD50: ND

Product LC50: ND

Chemical Name	LD50	LC50
Liquefied Petroleum Gas	N.D.	N.D.
Acetone	N.D.	N.D.
Xylene	4300, mg/kg (Oral Rat)	5000 ppm/4hr (Inhalation, Rat)
N-Butyl Acetate	13100 mg/kg (ORAL, RAT)	2000 PPM (INH 4 Hr, RAT)
Methyl Ethyl Ketone	N.D.	N.D.
Ethylbenzene	3500 mg/kg (ORAL, RAT)	N.D.
Ethylene Glycol Monobutyl Ether	1519 mg/kg (ORAL, MOUSE)	700 PPM (INH 7 Hr, RAT)

Section 12 - Ecological Information

Ecological Information: Product is a mixture of listed components.

Section 13 - Disposal Information

Disposal Information: Dispose of material in accordance to local, state and federal regulations and ordinances. Do not allow to enter storm drains or sewer systems.

Section 14 - Transportation Information

DOT Proper Shipping Name:	Aerosols	Packing Group:	---
DOT Technical Name:	---	Hazard Subclass:	---
DOT Hazard Class:	2.1	Resp. Guide Page:	126
DOT UN/NA Number:	UN1950		

Section 15 - Regulatory Information

CERCLA - SARA Hazard Category

This product has been reviewed according to the EPA "Hazard Categories" promulgated under Sections 311and 312 of the Superfund Amendment and Reauthorization Act of 1986 (SARA Title III) and is considered, under applicable definitions, to meet the following categories:

IMMEDIATE HEALTH HAZARD, CHRONIC HEALTH HAZARD, FIRE HAZARD

SARA Section 313:

Listed below are the substances (if any) contained in this product that are subject to the reporting requirements of Section 313 of Title III of the Superfund Amendment and Reauthorization Act of 1986 and 40 CFR part 372:

Chemical Name	CAS Number
Xylene	1330-20-7
Methyl Ethyl Ketone	78-93-3
Ethylbenzene	100-41-4
Ethylene Glycol Monobutyl Ether	111-76-2

Toxic Substances Control Act:

Listed below are the substances (if any) contained in this product that are subject to the reporting requirements of TSCA 12(B) if exported from the United States:

U.S. State Regulations: As follows -

New Jersey Right-to-Know:

The following materials are non-hazardous, but are among the top five components in this product.

Chemical Name	CAS Number
Alkyd Resin	PROPRIETRY

Pennsylvania Right-to-Know:

The following non-hazardous ingredients are present in the product at greater than 3%.

Chemical Name	CAS Number
Alkyd Resin	PROPRIETRY

California Proposition 65:

WARNING! This product contains a chemical(s) known by the State of California to cause cancer.

WARNING! This product contains a chemical(s) known to the state of California to cause birth defects or other reproductive harm.

International Regulations: As follows -

CANADIAN WHMIS:

This MSDS has been prepared in compliance with Controlled Product Regulations except for the use of the 16 headings.

CANADIAN WHMIS CLASS: AB5 D2A D2B

Section 16 - Other Information

HMIS Ratings:

Health: 2* Flammability: 4 Reactivity: 0 Personal Protection: X

REASON FOR REVISION: Regulatory Update

Legend: N.A. - Not Applicable, N.E. - Not Established, N.D. - Not Determined

The information contained on this MSDS has been checked and should be accurate. However, it is the responsibility of the user to comply with all Federal, State, and Local laws and regulations.

Material Safety Data Sheet

1. PRODUCT AND COMPANY IDENTIFICATION

Product Identification

Product ID:	**410.0064010.076**	
Product Name:	VAL64010 GLOSS GREY	6U
Product Use:	Paint product.	
Print date:	23/Feb/2009	
Revision Date:	14/Jan/2009	

Company Identification
The Valspar Corporation - Architectural Coatings Division
1000 Lake Road
Medina, OH 44256

Manufacturer's Phone: 1-330-725-4511

24-Hour Medical Emergency Phone: 1-888-345-5732

2. HAZARDS IDENTIFICATION

Primary Routes of Exposure:
Inhalation
Ingestion
Skin absorption

Eye Contact:

- Severe eye irritation
- Risk of serious damage to eyes.

Skin Contact:

- Causes skin irritation.
- May cause defatting of the skin.
- Dermatitis

Ingestion:

- Irritation of the mouth, throat, and stomach.
- Harmful if swallowed.
- Aspiration hazard if swallowed - can enter lungs and cause damage.

Inhalation:

- Causes respiratory tract irritation.
- Harmful by inhalation.

Target Organ and Other Health Effects:
- Kidney injury may occur.
- Liver injury may occur.
- Causes headache, drowsiness or other effects to the central nervous system.
- Blood disorders

This product contains ingredients that may contribute to the following potential chronic health effects:
- Notice: Reports have associated repeated and prolonged occupational overexposure to solvents with permanent brain and nervous system damage. Intentional misuse by deliberately concentrating and inhaling the contents may be harmful or fatal.

Carcinogens:
- Possible cancer hazard. Contains material which may cause cancer based on animal data.

3. COMPOSITION / INFORMATION ON HAZARDOUS INGREDIENTS

Ingredient Name CAS-No.	Approx. Weight %	Chemical Name
DIMETHYL KETONE-EXEMPT SOLVENT 67-64-1	25 - 30	Acetone
PROPANE 74-98-6	20 - 25	Propane
BUTANE 106-97-8	5 - 10	Butane
NAPHTHA 64742-89-8	5 - 10	SOLVENT NAPHTHA, PETROLEUM, LIGHT ALIPH
ISOBUTYL ACETATE 110-19-0	5 - 10	Isobutyl acetate
EXEMPT MINERAL SPIRITS 8052-41-3	5 - 10	Stoddard solvent
TITANIUM DIOXIDE 13463-67-7	1 - 5	Titanium dioxide
ISOPROPYL ALCOHOL 67-63-0	1 - 5	Isopropyl alcohol
ETHYLBENZENE 100-41-4	.1 - 1	Ethyl benzene

If this section is blank there are no hazardous components per OSHA guidelines.

4. FIRST AID MEASURES

Eye Contact:
In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. If easy to do, remove contact lenses. If medical assistance is not immediately available, flush an additional 15 minutes. Get medical attention immediately.

Skin Contact:
Remove contaminated clothing and shoes. Wash off immediately with plenty of water for at least 15 minutes. Get medical attention, if symptoms develop or persist.

Ingestion:
Rinse mouth with water. Give one or two glasses of water. Only induce vomiting at the instruction of medical personnel. Never give anything by mouth to an unconscious person. Do NOT induce vomiting. If vomiting occurs, keep head lower than hips to prevent aspiration. Get medical attention immediately.

Inhalation:
Move injured person into fresh air and keep person calm under observation. Get medical attention immediately.

Medical conditions aggravated by exposure:
Any respiratory or skin condition.

5. FIRE FIGHTING MEASURES

Flash point (Fahrenheit):	-31ºF (-35ºC)
Lower explosive limit:	0.9 %
Upper explosive limit:	13 %
Autoignition temperature:	not determined -ºF (ºC)
Sensitivity to impact:	no
Sensitivity to static discharge:	Subject to static discharge hazards. Please see bonding and grounding information in Section 7.
Hazardous combustion products:	See Section 10.

Unusual fire and explosion hazards:
None known.

Extinguishing media:
Carbon dioxide, dry chemical, foam and/or water fog.

Fire fighting procedures:
Firefighters should be equipped with self-contained breathing apparatus and turn out gear. Keep containers and surroundings cool with water spray.

6. ACCIDENTAL RELEASE MEASURES

Action to be taken if material is released or spilled:
Ventilate the area. Avoid breathing dust or vapor. Use self-containing breathing apparatus or airmask for large spills in a confined area. Wipe, scrape or soak up in an inert material and put in a container for disposal. See section 7, "Handling and Storage", for proper container and storage procedures. Remove all sources of ignition. Soak up with inert absorbent material. Use only non-sparking tools. Avoid contact with eyes.

7. HANDLING AND STORAGE

Precautions to be taken in handling and storage:
Keep away from heat, sparks and open flame. - No smoking. Keep container closed when not in use. Do not store above 120 degrees F. (49 degrees C). Based on flash point and vapor pressure, suitable storage should be provided in accordance with OSHA regulation 1910.106, Ontario OH&S regulation 851 section 22. Empty containers may contain product residue, including flammable or explosive vapors. Do not cut, puncture or weld on or near container. All label warnings must be observed until the container has been commercially cleaned or reconditioned. If the product is used near or above the flashpoint, an ignition hazard may be present. Activities, uses, or operations which liberate vapor (such as mixing or free fall of liquids) may also present an ignition hazard. Please ensure containers and other interconnected equipment are properly bonded and grounded at all times.

8. PERSONAL PROTECTIVE EQUIPMENT AND EXPOSURE CONTROLS

Personal Protective Equipment

Eye and face protection:
Wear chemical goggles with splash shields or face shield. Contact lenses should not be worn when working with chemicals because contact lenses may contribute to the severity of an eye injury in case of exposure.

Skin protection:
Appropriate chemical resistant gloves should be worn.

Other Personel Protection Data:
Ensure that eyewash stations and safety showers are close to the workstation location. To prevent skin contact wear protective clothing covering all exposed areas.

Respiratory protection:
If exposure cannot be controlled below applicable limits, use the appropriate NIOSH approved respirator such as an air purifying respirator with organic vapor cartridge and dust/mist filter. Consult the respirator manufacturer's literature to ensure that the respirator will provide adequate protection. Read and follow all respirator manufacturer's instructions.

Ventilation
Use only in well-ventilated areas. Ensure adequate ventilation, especially in confined areas. Ovens used for curing should contain a fresh air purge to prevent vapours from accumulating and creating a possible explosive mixture. Where the product is used in a hazardous classified area, use explosion-proof electrical/ventilating/lighting/equipment.

Exposure Guidelines

OSHA Permissible Exposure Limits (PEL's)

Ingredient Name CAS-No.	Approx. Weight %	TWA (final)	Ceilings limits (final)	Skin designations
DIMETHYL KETONE-EXEMPT SOLVENT 67-64-1	25 - 30	2400 mg/m³ 1000 ppm		
PROPANE 74-98-6	20 - 25	1800 mg/m³ 1000 ppm		
ISOBUTYL ACETATE 110-19-0	5 - 10	700 mg/m³ 150 ppm		
EXEMPT MINERAL SPIRITS 8052-41-3	5 - 10	2900 mg/m³ 500 ppm		
TITANIUM DIOXIDE 13463-67-7	1 - 5	15 mg/m³ Total dust.		
ISOPROPYL ALCOHOL 67-63-0	1 - 5	980 mg/m³ 400 ppm		
ETHYLBENZENE 100-41-4	.1 - 1	435 mg/m³ 100 ppm		

ACGIH Threshold Limit Value (TLV's)

Ingredient Name CAS-No.	Approx. Weight %	TWA	STEL	Ceiling limits	Skin designations
DIMETHYL KETONE-EXEMPT SOLVENT 67-64-1	25 - 30	500 ppm	750 ppm		
PROPANE 74-98-6	20 - 25	1000 ppm			
BUTANE 106-97-8	5 - 10	1000 ppm			
ISOBUTYL ACETATE 110-19-0	5 - 10	150 ppm			
EXEMPT MINERAL SPIRITS 8052-41-3	5 - 10	100 ppm			
TITANIUM DIOXIDE 13463-67-7	1 - 5	10 mg/m³			
ISOPROPYL ALCOHOL 67-63-0	1 - 5	200 ppm	400 ppm		
ETHYLBENZENE 100-41-4	.1 - 1	100 ppm	125 ppm		

9. PHYSICAL PROPERTIES

Odor:	Normal for this product type.
Physical State:	Aerosol
pH:	not determined
Vapor pressure:	NOT DETERMINED mmHg @ 68ºF (20ºC)
Vapor density (air = 1.0):	5
Boiling point:	not determined
Solubility in water:	not determined
Coefficient of water/oil distribution:	not determined
Density (lbs per US gallon):	6.12
Specific Gravity:	.73
Evaporation rate (butyl acetate = 1.0):	5.6
Flash point (Fahrenheit):	-31ºF (-35ºC)
Lower explosive limit:	0.9 %
Upper explosive limit:	13 %
Autoignition temperature:	not determined -ºF (ºC)

10. STABILITY AND REACTIVITY

Stability:	Stable under normal conditions.
Conditions to Avoid:	Heat.
Incompatibility:	Strong oxidizing agents
Hazardous Polymerization:	None anticipated.
Hazardous Decomposition Products:	Carbon monoxide and carbon dioxide. This product contains diarylide pigments. While they are not dangerous, they are, however, susceptible to decomposition to monoazoics and dichlorobenzidine at temperatures above 200 C. Consequently, use at temperatures above 200 C should be avoided.
Sensitivity to static discharge:	Subject to static discharge hazards. Please see bonding and grounding information in Section 7.

11. TOXICOLOGICAL INFORMATION

Ingredient Name CAS-No.	**Approx. Weight %**	**NIOSH - Selected LD50s and LC50s**
DIMETHYL KETONE- EXEMPT SOLVENT 67-64-1	25 - 30	Inhalation LC50 Rat : 50100 mg/m^3/8H Inhalation LC50 Mouse : 44 gm/m^3/4H Oral LD50 Rat : 5800 mg/kg Oral LD50 Mouse : 3 gm/kg
BUTANE 106-97-8	5 - 10	Inhalation LC50 Rat : 658 gm/m^3/4H Inhalation LC50 Mouse : 680 gm/m^3/2H
ISOBUTYL ACETATE 110-19-0	5 - 10	Oral LD50 Rat : 13400 mg/kg Dermal LD50 Rabbit : >17400 mg/kg
ISOPROPYL ALCOHOL 67-63-0	1 - 5	Inhalation LC50 Rat : 16000 ppm/8H Oral LD50 Rat : 5045 mg/kg Oral LD50 Mouse : 3600 mg/kg Dermal LD50 Rabbit : 12800 mg/kg
ETHYLBENZENE 100-41-4	.1 - 1	Oral LD50 Rat : 3500 mg/kg Dermal LD50 Rabbit : 17800 uL/kg

Mutagens/Teratogens/Carcinogens:

Possible cancer hazard. Contains material which may cause cancer based on animal data.

Contains ethylbenzene, which has been determined by NTP to be an animal carcinogen with no known relevance to humans. IARC has classified ethylbenzene as possibly carcinogenic to humans (2b) on the basis of sufficient evidence of carcinogenicity in laboratory animals but inadequate evidence of cancer in humans. Contains TIO2 which is listed by IARC as a possible human carcinogen (Group 2B) based on animal data. Neither long term animal studies, nor human epidemiology studies of workers exposed to TIO2 provide an adequate basis to conclude TIO2 is carcinogenic. TIO2 is not classified as a carcinogen by NTP, U.S. OSHA, or the U.S. EPA.

Ingredient Name CAS-No.	Approx. Weight %	California Prop 65 - Reproductive (Female)	California Prop 65 - Carcinogen
ETHYLBENZENE 100-41-4	.1 - 1		Listed: June 11, 2004 Carcinogenic.

Ingredient Name CAS-No.	Approx. Weight %	IARC Group 1 - Human Evidence	IARC Group 2A - Limited Human Data	IARC Group 2B - Sufficient Animal Data
TITANIUM DIOXIDE 13463-67-7	1 - 5			2B Possible Carcinogen
ETHYLBENZENE 100-41-4	.1 - 1			Monograph 77, 2000

Ingredient Name CAS-No.	Approx. Weight %	NTP Known Carcinogens	NTP Suspect Carcinogens	NTP Evidence of Carcinogenicity
ETHYLBENZENE 100-41-4	.1 - 1			male rat-clear evidence; female rat-some evidence; male mice-some evidence; female mice-some evidence

Ingredient Name CAS-No.	Approx. Weight %	OSHA Select Carcinogens	OSHA Possible Select Carcinogens	ACGIH Carcinogens
ETHYLBENZENE 100-41-4	.1 - 1			Group A3 Confirmed animal carcinogen with unknown relevance to humans.

12. ECOLOGICAL DATA

No information on ecology is available.

13. DISPOSAL CONSIDERATIONS

Disposal should be made in accordance with federal, state and local regulations.

14. TRANSPORTATION INFORMATION

U.S. Department of Transportation
Proper Shipping Name: CONSUMER COMMODITY ORM-D
UN ID Number: CONCOM

U.S. Highway & Rail Shipments
The supplier may apply one of the following exceptions: Combustible Liquid, Consumer Commodity, Limited Quantity, Viscous Liquid, Does Not Sustain Combustion, or others, as allowed under 49CFR Hazmat Regulations. Please consult 49CFR Subchapter C to ensure that subsequent shipments comply with these exceptions.

Reportable Quantity Description:

International Air Transport Association (IATA):
Proper Shipping Name: AEROSOLS, FLAMMABLE
Hazard Class: 2.1
UN ID Number: UN1950

International Maritime Organization (IMO):
Proper Shipping Name: AEROSOLS
Hazard Class: 2.1
Non-Bulk UN ID Number: UN1950

15. REGULATORY INFORMATION

U.S. FEDERAL REGULATIONS:

Ingredient Name CAS-No.	Approx. Weight %	SARA 302	SARA 313	CERCLA RQ in lbs.
DIMETHYL KETONE- EXEMPT SOLVENT 67-64-1	25 - 30			5000
ISOBUTYL ACETATE 110-19-0	5 - 10			5000
ETHYLBENZENE 100-41-4	.1 - 1		form R reporting required for 1.0% de minimis concentration	1000

SARA 311/312 Hazard Class:
Acute: yes
Chronic: yes
Flammability: yes
Reactivity: no
Sudden Pressure: yes

U.S. STATE REGULATIONS:

Right to Know:
The specific chemical identity of a component may be withheld as a trade secret under 34 Pennsylvania Code, Chapter 317.

Pennsylvania Right To Know:

NAPHTHA	64742-89-8
EXEMPT MINERAL SPIRITS	8052-41-3
TITANIUM DIOXIDE	13463-67-7
ISOPROPYL ALCOHOL	67-63-0
ISOBUTYL ACETATE	110-19-0
DIMETHYL KETONE- EXEMPT SOLVENT	67-64-1
PROPANE	74-98-6
BUTANE	106-97-8

Additional Non-Hazardous Materials

VT ALKYD RESIN	UNKNOWN

California Proposition 65:
WARNING! This product contains a chemical known in the State of California to cause cancer.

Rule 66 status of product Not photochemically reactive.

INTERNATIONAL REGULATIONS - Chemical Inventories

US TSCA Inventory:
All components of this product are in compliance with U.S. TSCA Chemical Substance Inventory Requirements.

Canada Domestic Substances List:
All components of this product are listed on the Domestic Substances List.

16. OTHER INFORMATION

HMIS Codes

Health:	2*
Flammability:	4
Reactivity:	1
PPE:	X - See Section 8 for Personal Protective Equipment (PPE).

Abbreviations:
OSHA - Occupational Safety and Health Administration, IARC - International Agency for Research on Cancer, NIOSH - National Institute of Occupational Safety and Health, NTP - National Toxicology Program, ACGIH - American Conference of Governmental Industrial Hygienists, SCAQMD - South Coast Air Quality Management District, TSCA - Toxic Substances Control Act, IATA - International Air Transport Association, IMO - International Maritime Organization, DOT - Department of Transportation, NA - Not applicable, NOT ESTAB - Not established, N.A.V. - Not available, RQ - Reportable quantity, WT - Weight, MG/CU M - Milligrams per cubic meter, G/L - Grams per liter, MM - Millimeters, MPPCF - Millions of particles per cubic foot, PPM - parts per million, PPT - parts per thousand, TCC/PM - Tag closed cup / Pensky-Martens, PB - Lead, PEL - Permissible exposure level, TWA - Time Weighted Average, STEL - Short term exposure limit, C - Celsius, F - Fahrenheit.

Disclaimer:
The data on this sheet represent typical values. Since application variables are a major factor in product performance, this information should serve only as a general guide. Valspar assumes no obligation or liability for use of this information. UNLESS VALSPAR AGREES OTHERWISE IN WRITING, VALSPAR MAKES NO WARRANTIES, EXPRESS OR IMPLIED, AND DISCLAIMS ALL IMPLIED WARRANTIES INCLUDING WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR USE OR FREEDOM FROM PATENT INFRINGEMENT. VALSPAR WILL NOT BE LIABLE FOR ANY SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES. Your only remedy for any defect in this product is the replacement of the defective product, or a refund of its purchase price, at our option. This MSDS contains additional information required by the state of Pennsylvania.

Preparation Information:

Prepared By:	Regulatory Affairs Department
Print date:	23/Feb/2009
Revision Date:	14/Jan/2009

MATERIAL SAFETY DATA SHEET

17140
02 00

Section 1 -- PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NUMBER

17140

HMIS CODES

Health	2*
Flammability	4
Reactivity	0

PRODUCT NAME

ACE® RUST STOP Machine & Implement Enamel, International Blue

MANUFACTURER'S NAME

Mfd. for:
ACE HARDWARE COPORATION
Oak Brook, IL 60521

Medical Emergency Phone No.
(216) 566-2917
Transportation Emergency
(800) 424-9300
Regulatory Information
(216) 566-2902

DATE OF PREPARATION

19-AUG-07

Section 2 -- COMPOSITION/INFORMATION ON INGREDIENTS

% by WT	CAS No.	INGREDIENT			UNITS	VAPOR PRESSURE
14	74-98-6	Propane				
			ACGIH TLV	2500	ppm	760 mm
			OSHA PEL	1000	ppm	
13	106-97-8	Butane				
			ACGIH TLV	800	ppm	760 mm
			OSHA PEL	800	ppm	
22	64742-89-8	V. M. & P. Naphtha				
			ACGIH TLV	300	ppm	12 mm
			OSHA PEL	300	ppm	
			OSHA PEL	400	ppm STEL	
2	100-41-4	Ethylbenzene				
			ACGIH TLV	100	ppm	7.1 mm
			ACGIH TLV	125	ppm STEL	
			OSHA PEL	100	ppm	
			OSHA PEL	125	ppm STEL	
9	1330-20-7	Xylene				
			ACGIH TLV	100	ppm	5.9 mm
			ACGIH TLV	150	ppm STEL	
			OSHA PEL	100	ppm	
			OSHA PEL	150	ppm STEL	
23	67-64-1	Acetone				
			ACGIH TLV	500	ppm	180 mm
			ACGIH TLV	750	ppm STEL	
			OSHA PEL	1000	ppm	
0.8	13463-67-7	Titanium Dioxide				
			ACGIH TLV	10	mg/m3 as Dust	
			OSHA PEL	10	mg/m3 Total Dust	
			OSHA PEL	5	mg/m3 Respirable Fraction	

Continued on page 2

Section 3 -- HAZARDS IDENTIFICATION

ROUTES OF EXPOSURE
INHALATION of vapor or spray mist.
EYE or SKIN contact with the product, vapor or spray mist.
EFFECTS OF OVEREXPOSURE
EYES: Irritation.
SKIN: Prolonged or repeated exposure may cause irritation.
INHALATION: Irritation of the upper respiratory system.
May cause nervous system depression. Extreme overexposure may result in unconsciousness and possibly death.
SIGNS AND SYMPTOMS OF OVEREXPOSURE
Headache, dizziness, nausea, and loss of coordination are indications of excessive exposure to vapors or spray mists.
Redness and itching or burning sensation may indicate eye or excessive skin exposure.
MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE
None generally recognized.
CANCER INFORMATION
For complete discussion of toxicology data refer to Section 11.

Section 4 -- FIRST AID MEASURES

EYES: Flush eyes with large amounts of water for 15 minutes. Get medical attention.
SKIN: Wash affected area thoroughly with soap and water. Remove contaminated clothing and launder before re-use.
INHALATION: If affected, remove from exposure. Restore breathing. Keep warm and quiet.
INGESTION: Do not induce vomiting. Get medical attention immediately.

Section 5 -- FIRE FIGHTING MEASURES

FLASH POINT	LEL	UEL
Propellant < 0 F	0.9	12.8

EXTINGUISHING MEDIA
Carbon Dioxide, Dry Chemical, Foam
UNUSUAL FIRE AND EXPLOSION HAZARDS
Containers may explode when exposed to extreme heat.
Application to hot surfaces requires special precautions.
During emergency conditions overexposure to decomposition products may cause a health hazard. Symptoms may not be immediately apparent. Obtain medical attention.
SPECIAL FIRE FIGHTING PROCEDURES
Full protective equipment including self-contained breathing apparatus should be used.
Water spray may be ineffective. If water is used, fog nozzles are preferable. Water may be used to cool closed containers to prevent pressure build-up and possible autoignition or explosion when exposed to extreme heat.

Continued on page 3

Section 6 -- ACCIDENTAL RELEASE MEASURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED

Remove all sources of ignition. Ventilate the area.

Remove with inert absorbent.

Section 7 -- HANDLING AND STORAGE

STORAGE CATEGORY

Not Available

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE

Keep away from heat, sparks, and open flame. Vapors will accumulate readily and may ignite explosively.

During use and until all vapors are gone: Keep area ventilated - Do not smoke - Extinguish all flames, pilot lights, and heaters - Turn off stoves, electric tools and appliances, and any other sources of ignition.

Consult NFPA Code. Use approved Bonding and Grounding procedures.

Contents under pressure. Do not puncture, incinerate, or expose to temperature above 120F. Heat from sunlight, radiators, stoves, hot water, and other heat sources could cause container to burst. Do not take internally. Keep out of the reach of children.

Section 8 -- EXPOSURE CONTROLS/PERSONAL PROTECTION

PRECAUTIONS TO BE TAKEN IN USE

Use only with adequate ventilation.

Avoid contact with skin and eyes. Avoid breathing vapor and spray mist.

Wash hands after using.

This coating may contain materials classified as nuisance particulates (listed "as Dust" in Section 2) which may be present at hazardous levels only during sanding or abrading of the dried film. If no specific dusts are listed in Section 2, the applicable limits for nuisance dusts are ACGIH TLV 10 mg/m3 (total dust), 3 mg/m3 (respirable fraction), OSHA PEL 15 mg/m3 (total dust), 5 mg/m3 (respirable fraction).

Removal of old paint by sanding, scraping or other means may generate dust or fumes that contain lead. Exposure to lead dust or fumes may cause brain damage or other adverse health effects, especially in children or pregnant women. Controlling exposure to lead or other hazardous substances requires the use of proper protective equipment, such as a properly fitted respirator (NIOSH approved) and proper containment and cleanup. For more information, call the National Lead Information Center at 1-800-424-LEAD (in US) or contact your local health authority.

VENTILATION

Local exhaust preferable. General exhaust acceptable if the exposure to materials in Section 2 is maintained below applicable exposure limits. Refer to OSHA Standards 1910.94, 1910.107, 1910.108.

RESPIRATORY PROTECTION

If personal exposure cannot be controlled below applicable limits by ventilation, wear a properly fitted organic vapor/particulate respirator approved by NIOSH/MSHA for protection against materials in Section 2.

When sanding or abrading the dried film, wear a dust/mist respirator approved by NIOSH/MSHA for dust which may be generated from this product, underlying paint, or the abrasive.

Continued on page 4

PROTECTIVE GLOVES

None required for normal application of aerosol products where minimal skin contact is expected. For long or repeated contact, wear chemical resistant gloves.

EYE PROTECTION

Wear safety spectacles with unperforated sideshields.

OTHER PRECAUTIONS

Intentional misuse by deliberately concentrating and inhaling the contents can be harmful or fatal.

Section 9 -- PHYSICAL AND CHEMICAL PROPERTIES

PRODUCT WEIGHT	6.14 lb/gal	735 g/l
SPECIFIC GRAVITY	0.74	
BOILING POINT	<0 - 325 F	<-18 - 162 C
MELTING POINT	Not Available	
VOLATILE VOLUME	90 %	
EVAPORATION RATE	Faster than ether	
VAPOR DENSITY	Heavier than air	
SOLUBILITY IN WATER	N.A.	
pH	7.0	

VOLATILE ORGANIC COMPOUNDS (VOC Theoretical - As Packaged)

Volatile Weight 60.16% Less Water and Federally Exempt Solvents

Section 10 -- STABILITY AND REACTIVITY

STABILITY -- Stable

CONDITIONS TO AVOID

None known.

INCOMPATIBILITY

None known.

HAZARDOUS DECOMPOSITION PRODUCTS

By fire: Carbon Dioxide, Carbon Monoxide

HAZARDOUS POLYMERIZATION

Will not occur

Section 11 -- TOXICOLOGICAL INFORMATION

CHRONIC HEALTH HAZARDS

Ethylbenzene is classified by IARC as possibly carcinogenic to humans (2B) based on inadequate evidence in humans and sufficient evidence in laboratory animals. Lifetime inhalation exposure of rats and mice to high ethylbenzene concentrations resulted in increases in certain types of cancer, including kidney tumors in rats and lung and liver tumors in mice. These effects were not observed in animals exposed to lower concentrations. There is no evidence that ethylbenzene causes cancer in humans.

Prolonged overexposure to solvent ingredients in Section 2 may cause adverse effects to the liver, urinary and reproductive systems.

Reports have associated repeated and prolonged overexposure to solvents with permanent brain and nervous system damage.

TOXICOLOGY DATA

Continued on page 5

CAS No.	Ingredient Name				
74-98-6	Propane				
		LC50	RAT	4HR	Not Available
		LD50	RAT		Not Available
106-97-8	Butane				
		LC50	RAT	4HR	Not Available
		LD50	RAT		Not Available
64742-89-8	V. M. & P. Naphtha				
		LC50	RAT	4HR	Not Available
		LD50	RAT		Not Available
100-41-4	Ethylbenzene				
		LC50	RAT	4HR	Not Available
		LD50	RAT		3500 mg/kg
1330-20-7	Xylene				
		LC50	RAT	4HR	5000 ppm
		LD50	RAT		4300 mg/kg
67-64-1	Acetone				
		LC50	RAT	4HR	Not Available
		LD50	RAT		5800 mg/kg
13463-67-7	Titanium Dioxide				
		LC50	RAT	4HR	Not Available
		LD50	RAT		Not Available

Section 12 -- ECOLOGICAL INFORMATION

ECOTOXICOLOGICAL INFORMATION
No data available.

Section 13 -- DISPOSAL CONSIDERATIONS

WASTE DISPOSAL METHOD
Waste from this product may be hazardous as defined under the Resource Conservation and Recovery Act (RCRA) 40 CFR 261.
Waste must be tested for ignitability to determine the applicable EPA hazardous waste numbers.
Do not incinerate. Depressurize container. Dispose of in accordance with Federal, State/Provincial, and Local regulations regarding pollution.

Section 14 -- TRANSPORT INFORMATION

US Ground (DOT)
May be classed as Consumer Commodity, ORM-D
UN1950, AEROSOLS, 2.1, LIMITED QUANTITY, (ERG#126)

Canada (TDG)
May be classed as Consumer Commodity, ORM-D
UN1950, AEROSOLS, CLASS 2.1, LIMITED QUANTITY, (ERG#126)

IMO
May be shipped as Limited Quantity
UN1950, AEROSOLS, CLASS 2, LIMITED QUANTITY, EmS F-D, S-U

Continued on page 6

Section 15 -- REGULATORY INFORMATION

SARA 313 (40 CFR 372.65C) SUPPLIER NOTIFICATION

CAS No.	CHEMICAL/COMPOUND	% by WT	% Element
100-41-4	Ethylbenzene	2	
1330-20-7	Xylene	9	

CALIFORNIA PROPOSITION 65

WARNING: This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.

TSCA CERTIFICATION

All chemicals in this product are listed, or are exempt from listing, on the TSCA Inventory.

Section 16 -- OTHER INFORMATION

This product has been classified in accordance with the hazard criteria of the Canadian Controlled Products Regulations (CPR) and the MSDS contains all of the information required by the CPR.

The above information pertains to this product as currently formulated, and is based on the information available at this time. Addition of reducers or other additives to this product may substantially alter the composition and hazards of the product. Since conditions of use are outside our control, we make no warranties, express or implied, and assume no liability in connection with any use of this information.

MATERIAL SAFETY DATA SHEET

1401
03 00

DATE OF PREPARATION
Feb 28, 2009

SECTION 1 — PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NUMBER
1401
PRODUCT NAME
KRYLON® Interior/Exterior Paint, Bright Silver
MANUFACTURER'S NAME
THE SHERWIN-WILLIAMS COMPANY
KRYLON Products Group
Cleveland, OH 44115

Telephone Numbers and Websites

Product Information	(800) 832-2541
Regulatory Information	(216) 566-2902 www.paintdocs.com
Medical Emergency	(216) 566-2917
Transportation Emergency*	(800) 424-9300
**for Chemical Emergency ONLY (spill, leak, fire, exposure, or accident)*	

SECTION 2 — COMPOSITION/INFORMATION ON INGREDIENTS

% by Weight	CAS Number	Ingredient	Units	Vapor Pressure
18	**74-98-6**	**Propane**		
		ACGIH TLV	2500 PPM	760 mm
		OSHA PEL	1000 PPM	
13	**64742-89-8**	**Lt. Aliphatic Hydrocarbon Solvent**		
		ACGIH TLV	100 PPM	53 mm
		OSHA PEL	100 PPM	
4	**64742-89-8**	**V. M. & P. Naphtha**		
		ACGIH TLV	300 PPM	12 mm
		OSHA PEL	300 PPM	
		OSHA PEL	400 PPM STEL	
1	**64742-88-7**	**Mineral Spirits**		
		ACGIH TLV	100 PPM	2 mm
		OSHA PEL	100 PPM	
4	**108-88-3**	**Toluene**		
		ACGIH TLV	20 PPM	22 mm
		OSHA PEL	100 PPM (Skin)	
		OSHA PEL	150 PPM (Skin) STEL	
0.7	**100-41-4**	**Ethylbenzene**		
		ACGIH TLV	100 PPM	7.1 mm
		ACGIH TLV	125 PPM STEL	
		OSHA PEL	100 PPM	
		OSHA PEL	125 PPM STEL	
4	**1330-20-7**	**Xylene**		
		ACGIH TLV	100 PPM	5.9 mm
		ACGIH TLV	150 PPM STEL	
		OSHA PEL	100 PPM	
		OSHA PEL	150 PPM STEL	
47	**67-64-1**	**Acetone**		
		ACGIH TLV	500 PPM	180 mm
		ACGIH TLV	750 PPM STEL	
		OSHA PEL	1000 PPM	

SECTION 3 — HAZARDS IDENTIFICATION

ROUTES OF EXPOSURE
INHALATION of vapor or spray mist.
EYE or SKIN contact with the product, vapor or spray mist.

EFFECTS OF OVEREXPOSURE

EYES: Irritation.
SKIN: Prolonged or repeated exposure may cause irritation.
INHALATION: Irritation of the upper respiratory system.

May cause nervous system depression. Extreme overexposure may result in unconsciousness and possibly death.
Prolonged overexposure to solvent ingredients in Section 2 may cause adverse effects to the liver, urinary, cardiovascular and reproductive systems.

HMIS Codes

Health	2*
Flammability	4
Reactivity	1

SIGNS AND SYMPTOMS OF OVEREXPOSURE

Headache, dizziness, nausea, and loss of coordination are indications of excessive exposure to vapors or spray mists.
Redness and itching or burning sensation may indicate eye or excessive skin exposure.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE

None generally recognized.

CANCER INFORMATION

For complete discussion of toxicology data refer to Section 11.

SECTION 4 — FIRST AID MEASURES

EYES: Flush eyes with large amounts of water for 15 minutes. Get medical attention.
SKIN: Wash affected area thoroughly with soap and water.
Remove contaminated clothing and launder before re-use.
INHALATION: If affected, remove from exposure. Restore breathing. Keep warm and quiet.
INGESTION: Do not induce vomiting. Get medical attention immediately.

SECTION 5 — FIRE FIGHTING MEASURES

FLASH POINT	LEL	UEL	EXTINGUISHING MEDIA
Propellant < 0° F	0.9	12.8	Carbon Dioxide, Dry Chemical, Foam

UNUSUAL FIRE AND EXPLOSION HAZARDS

Containers may explode when exposed to extreme heat.
Application to hot surfaces requires special precautions.
During emergency conditions overexposure to decomposition products may cause a health hazard. Symptoms may not be immediately apparent. Obtain medical attention.

SPECIAL FIRE FIGHTING PROCEDURES

Full protective equipment including self-contained breathing apparatus should be used.
Water spray may be ineffective. If water is used, fog nozzles are preferable. Water may be used to cool closed containers to prevent pressure build-up and possible autoignition or explosion when exposed to extreme heat.

SECTION 6 — ACCIDENTAL RELEASE MEASURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED

- Remove all sources of ignition. Ventilate the area.
- Remove with inert absorbent.

SECTION 7 — HANDLING AND STORAGE

STORAGE CATEGORY

Not Available

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE

Keep away from heat, sparks, and open flame. Vapors will accumulate readily and may ignite explosively.
During use and until all vapors are gone: Keep area ventilated - Do not smoke - Extinguish all flames, pilot lights, and heaters - Turn off stoves, electric tools and appliances, and any other sources of ignition.
Consult NFPA Code. Use approved Bonding and Grounding procedures.
Contents under pressure. Do not puncture, incinerate, or expose to temperature above 120F. Heat from sunlight, radiators, stoves, hot water, and other heat sources could cause container to burst. Do not take internally. Keep out of the reach of children.

SECTION 8 — EXPOSURE CONTROLS/PERSONAL PROTECTION

PRECAUTIONS TO BE TAKEN IN USE

Use only with adequate ventilation.
Avoid contact with skin and eyes. Avoid breathing vapor and spray mist.
Wash hands after using.
This coating may contain materials classified as nuisance particulates (listed "as Dust" in Section 2) which may be present at hazardous levels only during sanding or abrading of the dried film. If no specific dusts are listed in Section 2, the applicable limits for nuisance dusts are ACGIH TLV 10 mg/m3 (total dust), 3 mg/m3 (respirable fraction), OSHA PEL 15 mg/m3 (total dust), 5 mg/m3 (respirable fraction).

VENTILATION

Local exhaust preferable. General exhaust acceptable if the exposure to materials in Section 2 is maintained below applicable exposure limits. Refer to OSHA Standards 1910.94, 1910.107, 1910.108.

RESPIRATORY PROTECTION

If personal exposure cannot be controlled below applicable limits by ventilation, wear a properly fitted organic vapor/particulate respirator approved by NIOSH/MSHA for protection against materials in Section 2.

When sanding or abrading the dried film, wear a dust/mist respirator approved by NIOSH/MSHA for dust which may be generated from this product, underlying paint, or the abrasive.

PROTECTIVE GLOVES

None required for normal application of aerosol products where minimal skin contact is expected. For long or repeated contact, wear chemical resistant gloves.

EYE PROTECTION

Wear safety spectacles with unperforated sideshields.

OTHER PRECAUTIONS

Intentional misuse by deliberately concentrating and inhaling the contents can be harmful or fatal.

SECTION 9 — PHYSICAL AND CHEMICAL PROPERTIES

PRODUCT WEIGHT	6.16 lb/gal	737 g/l
SPECIFIC GRAVITY	0.74	
BOILING POINT	<0 - 395° F	<-18 - 201° C
MELTING POINT	Not Available	
VOLATILE VOLUME	96%	
EVAPORATION RATE	Faster than ether	
VAPOR DENSITY	Heavier than air	
SOLUBILITY IN WATER	N.A.	
pH	7.0	

VOLATILE ORGANIC COMPOUNDS (VOC Theoretical - As Packaged)

Volatile Weight 45.25% Less Water and Federally Exempt Solvents

SECTION 10 — STABILITY AND REACTIVITY

STABILITY — Stable

CONDITIONS TO AVOID

None known.

INCOMPATIBILITY

None known.

HAZARDOUS DECOMPOSITION PRODUCTS

By fire: Carbon Dioxide, Carbon Monoxide

HAZARDOUS POLYMERIZATION

Will not occur

SECTION 11 — TOXICOLOGICAL INFORMATION

CHRONIC HEALTH HAZARDS

Reports have associated repeated and prolonged overexposure to solvents with permanent brain and nervous system damage.

Ethylbenzene is classified by IARC as possibly carcinogenic to humans (2B) based on inadequate evidence in humans and sufficient evidence in laboratory animals. Lifetime inhalation exposure of rats and mice to high ethylbenzene concentrations resulted in increases in certain types of cancer, including kidney tumors in rats and lung and liver tumors in mice. These effects were not observed in animals exposed to lower concentrations. There is no evidence that ethylbenzene causes cancer in humans.

TOXICOLOGY DATA

CAS No.	Ingredient Name			
74-98-6	**Propane**			
		LC50 RAT	4HR	Not Available
		LD50 RAT		Not Available
64742-89-8	**Lt. Aliphatic Hydrocarbon Solvent**			
		LC50 RAT	4HR	Not Available
		LD50 RAT		Not Available
64742-89-8	**V. M. & P. Naphtha**			
		LC50 RAT	4HR	Not Available
		LD50 RAT		Not Available
64742-88-7	**Mineral Spirits**			
		LC50 RAT	4HR	Not Available
		LD50 RAT		Not Available
108-88-3	**Toluene**			
		LC50 RAT	4HR	4000 ppm
		LD50 RAT		5000 mg/kg
100-41-4	**Ethylbenzene**			
		LC50 RAT	4HR	Not Available
		LD50 RAT		3500 mg/kg
1330-20-7	**Xylene**			
		LC50 RAT	4HR	5000 ppm
		LD50 RAT		4300 mg/kg
67-64-1	**Acetone**			
		LC50 RAT	4HR	Not Available
		LD50 RAT		5800 mg/kg

SECTION 12 — ECOLOGICAL INFORMATION

ECOTOXICOLOGICAL INFORMATION

No data available.

SECTION 13 — DISPOSAL CONSIDERATIONS

WASTE DISPOSAL METHOD

Waste from this product may be hazardous as defined under the Resource Conservation and Recovery Act (RCRA) 40 CFR 261.
Waste must be tested for ignitability to determine the applicable EPA hazardous waste numbers.
Do not incinerate. Depressurize container. Dispose of in accordance with Federal, State/Provincial, and Local regulations regarding pollution.

SECTION 14 — TRANSPORT INFORMATION

US Ground (DOT)

May be classed as Consumer Commodity, ORM-D
UN1950, AEROSOLS, 2.1, LIMITED QUANTITY, (ERG#126)

Canada (TDG)

May be classed as Consumer Commodity, ORM-D
UN1950, AEROSOLS, CLASS 2.1, LIMITED QUANTITY, (ERG#126)

IMO

May be shipped as Limited Quantity
UN1950, AEROSOLS, CLASS 2.1, LIMITED QUANTITY, EmS F-D, S-U

SECTION 15 — REGULATORY INFORMATION

SARA 313 *(40 CFR 372.65C)* SUPPLIER NOTIFICATION

CAS No.	CHEMICAL/COMPOUND	% by WT	% Element
108-88-3	Toluene	4	
100-41-4	Ethylbenzene	0.6	
1330-20-7	Xylene	4	

CALIFORNIA PROPOSITION 65

WARNING: This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.

TSCA CERTIFICATION

All chemicals in this product are listed, or are exempt from listing, on the TSCA Inventory.

SECTION 16 — OTHER INFORMATION

This product has been classified in accordance with the hazard criteria of the Canadian Controlled Products Regulations (CPR) and the MSDS contains all of the information required by the CPR.

The above information pertains to this product as currently formulated, and is based on the information available at this time. Addition of reducers or other additives to this product may substantially alter the composition and hazards of the product. Since conditions of use are outside our control, we make no warranties, express or implied, and assume no liability in connection with any use of this information.

NEW MSDS DATE: 02/22/2003
F:\CDSMSDS\LIQUID SANDER DEGLOSSER 22203

MATERIAL SAFETY DATA SHEET

This Material Safety Data Sheet conforms to the requirements of ANSI Z400.1.
THIS MSDS COMPLIES WITH 29 CFR 1910.1200 (HAZARD COMMUNICATION STANDARD)
IMPORTANT: Read this MSDS before handling & disposing of this product.
Pass this information on to employees, customers, & users of this product.

SECTION 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND COMPANY

PRODUCT IDENTITY: LIQUID SANDER DEGLOSSER
COMPANY IDENTITY: CSD/STARTEX
COMPANY ADDRESS: P O BOX 3087
COMPANY CITY: CONROE, TX 77305
COMPANY PHONE: 1-936-756-1065
CHEMTREC PHONE: 1-800-424-9300

SECTION 2. COMPOSITION/INFORMATION ON INGREDIENTS

CONTAINS: 35-45% XYLENES (1330-20-7)[215-535-7],
35-40% MEDIUM ALIPHATIC SOLVENT NAPHTHA (*8052-41-3),
5-15% ETHYLBENZENE (100-41-4)[202-849-4],
5-10% ISOPROPANOL (67-63-0)[200-661-7]
Number in parentheses is CAS #, number in brackets is European EC #.

SECTION 3. HAZARDS IDENTIFICATION

RISK STATEMENTS:

R11	Highly Flammable.
R65	Harmful: may cause lung damage if swallowed.
R36/37/38	Irritating to eyes, respiratory system and skin.
R20/65	Harmful by inhalation, may cause lung damage if swallowed.

SAFETY STATEMENTS:

S7	Keep container tightly closed.
S16	Keep away from sources of ignition. No smoking.
S29	Do not empty into drains.
S45	In case of accident, or if you feel unwell, seek medical advice immediately. (Show the label where possible).
S53	Avoid exposure - Obtain special instructions before use.
S24/25	Avoid contact with skin and eyes.

SECTION 4. FIRST AID MEASURES

EYE CONTACT:
For eyes, flush with plenty of water for 15 minutes & get medical attention.

SKIN CONTACT:
In case of contact with skin immediately remove contaminated clothing.
Wash thoroughly with soap & water. Wash contaminated clothing before reuse.

INHALATION:
After high vapor exposure, remove to fresh air. If breathing is difficult, give oxygen. If breathing has stopped give artificial respiration.

SWALLOWING:
If swallowed, get immediate medical advice. Inducing vomiting may cause aspiration into the lungs.

SECTION 5. FIRE FIGHTING MEASURES

EXTINGUISHING MEDIA
NFPA Class B extinguishers(Carbon Dioxide or foam)for Class I B liquid fires.

SPECIAL FIRE FIGHTING PROCEDURES
Water spray may be ineffective on fire but can protect fire-fighters & cool closed containers. Use fog nozzles if water is used.
Do not enter confined fire-space without full bunker gear.
(Helmet with face shield,bunker coats, gloves & rubber boots).
Use NIOSH approved positive-pressure self-contained breathing apparatus.

UNUSUAL EXPLOSION AND FIRE PROCEDURES
HIGHLY FLAMMABLE!! VAPORS CAN CAUSE FLASH FIRE
Keep container tightly closed.
Isolate from oxidizers, heat, sparks, electric equipment & open flame.
Closed containers may explode if exposed to extreme heat.
Applying to hot surfaces requires special precautions.
Empty container very hazardous! Continue all label precautions!

SECTION 6. ACCIDENTAL RELEASE MEASURES

CONTAINMENT TECHNIQUES
Stop spill at source. Dike area & contain.

CLEAN-UP PROCEDURES:
Clean up remainder with absorbent materials. Mop up & dispose of. Persons without proper protection should be kept from area until cleaned up.

SECTION 7. HANDLING AND STORAGE

HANDLING

Isolate from oxidizers, heat, sparks, electric equipment & open flame.
Use only with adequate ventilation. Avoid breathing of vapor or spray mist.
Avoid contact with skin & eyes.
Wear OSHA Standard goggles or face shield. Consult Safety Equipment Supplier.
Wear gloves, apron & footwear impervious to this material. Wash clothing before reuse.
Avoid free fall of liquid. Ground containers when transferring. Do not flame cut, saw, drill, braze, or weld. Empty container very hazardous! Continue all label precautions!

STORAGE

Do not store above 49 C/120 F. Store large amounts in structures made for OSHA Class I B liquids
Keep container tightly closed
& upright when not in use to prevent leakage.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION:

EXPOSURE CONTROLS

Ventilate to keep vapors of this material below 55 ppm.
If over TLV, in accordance with 29 CFR 1910.134,
use NIOSH approved positive-pressure self-contained breathing apparatus.
Consult Safety Equipment Supplier. Use explosion-proof equipment.

VENTILATION

LOCAL EXHAUST	: Necessary
MECHANICAL (GENERAL)	: Acceptable
SPECIAL	: None
OTHER	: None

PERSONAL PROTECTIONS:

Wear OSHA Standard goggles or face shield. Consult Safety Equipment Supplier.
Wear gloves, apron & footwear impervious to this material. Wash clothing before reuse.

WORK & HYGIENIC PRACTICES:

Provide readily accessible eye wash stations & safety showers.
Wash at end of each workshift & before eating, smoking or using the toilet.
Promptly remove clothing that becomes contaminated. Destroy contaminated leather articles. Launder or discard contaminated clothing.

SECTION 9. PHYSICAL DATA

APPEARANCE :			Liquid,Water-White
ODOR :			Alcohol
BOILING RANGE :	91 116 196* C / 197 241 385* F (*=End Point)		
AUTO IGNITION TEMPERATURE :	276 C / 530 F (Lowest Component)		
LOWER FLAMMABLE LIMIT IN AIR (% by vol):	1.1		
FLASH POINT (TEST METHOD):	13 C / 56 F (TCC) (Lowest Component)		
FLAMMABILITY CLASSIFICATION: Class I B			
GRAVITY @ 60 F :			
API :			39.5
SPECIFIC GRAVITY (Water=1) :			.828
POUNDS/GALLON :			6.894
VOC'S (>0.44 Lbs/Sq In) :	62.1 Vol. % /	514.3 g/L /	4.284 Lbs/Gal
TOTAL VOC'S (TVOC) :	99.2 Vol. % /	821.0 g/L /	6.839 Lbs/Gal
NONEXEMPT VOC'S (CVOC) :	99.2 Vol. % /	821.0 g/L /	6.839 Lbs/Gal
HAZARDOUS AIR POLLUTANTS (HAPS) :	52.6 Wt. % /	435.0 g/L /	3.623 Lbs/Gal
VAPOR PRESSURE (mm of Hg)@20 C			9.5
NONEXEMPT VOC PARTIAL PRESSURE (mm of Hg @ 20 C)			9.5
VAPOR DENSITY (air=1) :			3.7
WATER ABSORPTION :			Appreciable
REFRACTIVE INDEX :			1.461
MIXED ANILINE POINT (Acid Insol):			34 C / 94 F

SECTION 10. STABILITY & REACTIVITY

STABILITY
Stable

CONDITIONS TO AVOID
Isolate from oxidizers, heat, sparks, electric equipment & open flame.

MATERIALS TO AVOID
Isolate from strong oxidizers such as permanganates,chromates & peroxides.

HAZARDOUS DECOMPOSITION PRODUCTS
Carbon Monoxide, Carbon Dioxide from burning.

HAZARDOUS POLYMERIZATION
Will not occur.

SECTION 11. TOXICOLOGICAL INFORMATION

MATERIAL	CAS #	TWA (OSHA)	TLV (ACGIH)	HAP
Xylenes	1330-20-7	100 ppm	100 ppm A4	Yes
Medium Aliphatic Solvent Naphtha	*8052-41-3	500 ppm	100 ppm	No
Ethylbenzene	100-41-4	100 ppm	100 ppm A3	Yes
Isopropanol	67-63-0	400 ppm	200 ppm A4	No

In addition to EPA Hazardous Air Pollutants showing `Yes' under "HAP" above, using manufacturers' data, based on EPA Method 311, the following EPA Hazardous Air Pollutants may be present in trace amounts (less than 0.1%): Benzene,Toluene,Cumene,Polycyclic Aromatics

SECTION 11. TOXICOLOGICAL INFORMATION (CONTINUED)

MATERIAL	CAS #	CEILING	STEL (OSHA/ACGIH)
Xylenes	1330-20-7	None Known	150 ppm
Ethylbenzene	100-41-4	None Known	125 ppm
Isopropanol	67-63-0	None Known	400 ppm

ACUTE HAZARDS

EYE & SKIN CONTACT:
Primary irritation to skin, defatting, dermatitis.
Absorption thru skin increases exposure.
Primary irritation to eyes,redness,tearing,blurred vision.
Liquid can cause eye irritation. Wash thoroughly after handling.

INHALATION:
Anesthetic. Irritates respiratory tract. Acute overexposure can cause serious nervous system depression. Vapor harmful.
Breathing vapor can cause irritation.
Acute overexposure can cause damage to kidneys,blood,nerves,liver & lungs.

SWALLOWING:
Harmful or fatal if swallowed.
Swallowing can cause abdominal irritation, nausea, vomiting & diarrhea.

SUBCHRONIC HAZARDS/CONDITIONS AGGREVATED

CONDITIONS AGGREVATED
Chronic overexposure can cause damage to kidneys,blood,nerves,liver & lungs.
Persons with severe skin,liver or kidney problems should avoid use.

CHRONIC HAZARDS

CANCER, REPRODUCTIVE & OTHER CHRONIC HAZARDS:
Potential Cancer Hazard based on tests with laboratory animals using Ethylbenzene.
Overexposure may create cancer risk.
Leukemia been reported in humans from Benzene.
This product contains less than 52 ppm of Benzene.
Not considered hazardous in such low concentrations.
Absorption thru skin may be harmful. Studies with laboratory animals indicate this product can cause damage to fetus.

SECTION 12. ECOLOGICAL INFORMATION

MAMMALIAN INFORMATION:

MATERIAL	CAS #	LOWEST KNOWN LETHAL DOSE DATA LOWEST KNOWN LD50 (ORAL)
Xylene	1330-20-7	4000.0 mg/kg(Rats)

AQUATIC ANIMAL INFORMATION:

The most sensitive known aquatic group to any component of this product is:
Chub 1000 ppm or mg/L (24 hour exposure).
Keep out of sewers and natural water supplies.

MOBILITY

This material is a mobile liquid.

DEGRADABILITY

This product is partially biodegradable.

ACCUMULATION

This product does not accumulate or biomagnify in the environment.

SECTION 13. DISPOSAL CONSIDERATIONS

Recycle / dispose of observing national, regional, state, provincial and local health, safety & pollution laws.
If questions exist, contact the appropriate agencies.

SECTION 14. TRANSPORT INFORMATION

DOT SHIPPING NAME: RQ,Paint Related Material
(Contains: Xylene,Ethylbenzene),3,UN1263,PG-II
DRUM LABEL: (FLAMMABLE LIQUID)
IATA / ICAO: RQ,Paint Related Material
(Contains: Xylene,Ethylbenzene),3,UN1263,PG-II
IMO / IMDG: RQ,Paint Related Material
(Contains: Xylene,Ethylbenzene),3,UN1263,PG-II
EMERGENCY RESPONSE GUIDEBOOK NUMBER: 128

SECTION 15. REGULATORY INFORMATION

EPA REGULATION:
SARA SECTION 311/312 HAZARDS: Acute Health, Fire

All components of this product are on the TSCA list.
SARA Title III Section 313 Supplier Notification
This product contains the indicated <*> toxic chemicals subject to the reporting requirements of Section 313 of the Emergency Planning & Community Right-To-Know Act of 1986 & of 40 CFR 372. This information must be included in all MSDSs that are copied and distributed for this material.

SECTION 15. REGULATORY INFORMATION (CONTINUED)

SARA TITLE III INGREDIENTS	CAS#	WT. % (REG. SECTION)	RQ(LBS)
*Xylenes	1330-20-7	42 (311,312,313,RCRA)	100
Medium Aliphatic Solvent Naphtha	*8052-41-3	39 (311,312)	None
*Ethylbenzene	100-41-4	10 (311,312,313,RCRA)	1000
Isopropanol	67-63-0	9 (311,312)	None

IF > 237 POUNDS OF THIS PRODUCT IS IN ONE CONTAINER THE "RQ" OF XYLENE IS EXCEEDED.

STATE REGULATIONS:
CALIFORNIA PROPOSITION 65: This product contains the following chemical known to the State of California to cause cancer:
Ethylbenzene

INTERNATIONAL REGULATIONS
The components of this product are listed on the chemical inventories of the following countries:
Australia, Canada, Europe (EINECS), Japan, Korea, United Kingdom.

SECTION 16. OTHER INFORMATION

HAZARD RATINGS:
HEALTH (NFPA): 2
HEALTH (HMIS): 2
FLAMMABILITY: 3
REACTIVITY: 0

This information is intended solely for the use of individuals trained in the NFPA & HMIS hazard rating systems.

EMPLOYEE TRAINING
Employees should be made aware of all hazards of this material (as stated in this MSDS) before handling it.

NOTICE

The supplier disclaims all expressed or implied warranties of merchantability or fitness for a specific use, with respect to the product or the information provided herein, except for conformation to contracted specifications.
All information appearing herein is based upon data obtained from manufacturers and/or recognized technical sources. While the information is believed to be accurate, we make no representations as to its accuracy or sufficiency.
Conditions of use are beyond our control, and therefore users are responsible for verifying the data under their own operating conditions to determine whether the product is suitable for their particular purposes and they assume all risks of their use, handling, and disposal of the product. Users also assume all risks in regards to the publication or use of, or reliance upon, information contained herein.
This information relates only to the product designated herein, and does not relate to its use in combination with any other material or process.

Firestone Building Products Company
Material Safety Data Sheet

SECTION 1: PRODUCT IDENTIFICATION

Product Name:	Triumph Primer/Splice Wash 9705
Chemical Name / Synonym:	Primer Solution
Chemical Family:	Mixture
24-Hour Emergency Phone:	(800) 424-9300 CHEMTREC
Manufacturer's Name:	Firestone Building Products Company
Manufacturer's Address:	310 East 96th Street, Indianapolis, IN 46240
NFPA Hazard Rating:	Health 2, Flammability 3, Reactivity 0
HMIS Hazard Rating:	Health 2, Flammability 3, Reactivity 0

SECTION 2: CHEMICAL COMPOSITION

Chemical Name:	Common Name:	CAS #:	% (by wt)	Exposure Limits:
Toluene	Toluol	108-88-3	57	PEL 200 ppm OSHA Ceiling 300 ppm TLV 20 ppm ACGIH SKIN
Xylene	Dimethylbenzene	1330-20-7	19	PEL 100 ppm TLV 100 ppm ACGIH STEL 150 ppm
Aliphatic Petroleum Distillates	None	64742-89-8	< 21	TLV 300 ppm (VM&P Naphtha)
n-Hexane	Hexane	110-54-3	< 7	PEL 500 ppm TLV 50 ppm ACGIH SKIN
Ethyl Benzene	Ethylbenzol	100-41-4	< 4	PEL 100 ppm TLV 100 ppm ACGIH STEL 125 ppm

SECTION 3: HAZARD IDENTIFICATION

Primary Route of Exposure:	Skin Absorption, Inhalation
Signs and Symptoms of Exposure:	Eye contact may cause severe eye irritation, redness, tearing and blurred vision. Prolonged or repeated skin contact may cause irritation, dermatitis and drying of the skin. Absorption through intact skin may contribute to an individual's overall exposure. Inhalation may cause respiratory system irritation and central nervous system depression (narcosis) characterized by headache, dizziness, muscular weakness and fatigue. Cardiac sensitization may occur. Impairment of coordination and increased reaction time may be noted at high levels. Gastrointestinal disturbances (e.g., nausea, anorexia) may occur. Excessive toluene vapors may result in a bad (metallic) taste in the mouth (effects increasing with increased exposure levels). May cause unconsciousness if exposure is excessive.

	Toluene LC_{50}: 8,000 ppm/4hr, rat; Toluene LD_{50}: 2.6-7.5 g/kg, rat; Xylene LC_{50}: 6,700 ppm/4hr, rat; Xylene LD_{50}: 3.5-8.6 g/kg, rat; Ethyl benzene LD_{50}: 3.5 g/kg, rat; Ethyl benzene LCLo: 4000 ppm/4hr, rat.
Medical Conditions Aggravated by Exposure:	Exposure to this product may aggravate pre-existing skin, respiratory, cardiovascular, kidney, liver and neurological diseases. Individuals who are sensitized to isocyanates and those with pre-existing lung diseases or conditions, including non-specific bronchial hyperactivity or asthma, must avoid all exposure to isocyanates. Toluene exposures have caused birth defects in laboratory animals when exposures were at concentrations that harmed the pregnant animal. The relevance of these findings to humans is uncertain.
Chronic Effects:	May cause kidney, liver, spleen, central nervous system and/or peripheral nerve damage. May cause brain cell and neuromuscular damage based upon animal studies. May cause cardiac sensitization to epinephrine. Hearing loss associated with chronic toluene exposure has been observed. Acute or chronic overexposure to isocyanates may cause sensitization in some individuals, resulting in allergic symptoms of the lower respiratory tract (asthma-like), including wheezing, shortness of breath and difficulty breathing.
Carcinogenicity:	Ethyl benzene, a component of this product, has been shown to cause cancer in laboratory animals. While the relevance of this finding to humans is uncertain, the International Agency for Research on Cancer (IARC) has classified ethyl benzene as *possibly carcinogenic to humans* (2B).

SECTION 4: FIRST AID MEASURES

First Aid Procedures:	If this material contacts the eyes, hold eyelids open and flush immediately with a gentle stream of water for at least 15 minutes, preferably at an eyewash fountain. Get medical attention. In case of skin contact, clean with rubbing alcohol first, followed immediately by washing affected area with soap and water. In case of inhalation, remove to fresh uncontaminated air. Administer oxygen if breathing is labored. Give artificial respiration if breathing has stopped. Get medical attention immediately if oxygen or artificial respiration are administered. In case of accidental ingestion, do not induce vomiting. Get medical attention and advise the physician of the nature of the material.

SECTION 5: FIRE FIGHTING PROCEDURES

Suitable Extinguishing Media:	Foam, water spray (fog), carbon dioxide, and dry chemical type extinguishing agents may all be suitable for extinguishing fires involving this product. Water may be ineffective, but should be used to keep fire exposed containers cool. Water spray may be used to flush spills away from exposures.

Hazardous Combustion Products:	Carbon dioxide, carbon monoxide, halogenated hydrocarbons, nitrogen oxides and various hydrocarbons.
Recommended Fire Fighting Procedures:	Wear impermeable protective clothing and self-contained breathing apparatus. Toxic fumes and vapors may be evolved. Minimize the breathing of gases, vapors, fumes or decomposition products. Use supplied-air breathing equipment for enclosed or confined spaces or as otherwise needed.
Unusual Fire and Explosion Hazards:	This product is volatile and gives off invisible vapors that may settle in low areas or travel some distance along the ground or surface to ignition sources where they may ignite or explode.

SECTION 6: PRECAUTIONS FOR SAFE HANDLING AND USE

Steps to Be Taken in Case Material is Released or Spilled:	Shut off and eliminate all ignition sources. Keep people away. Recover free product. Add sand, earth or other suitable absorbent to spill area. Minimize breathing vapors. Minimize skin contact. Ventilate confined spaces. Open all windows and doors. Keep product clear of sewers, water, or extensive land areas. Assure conformity with applicable government regulations. Continue to observe precautions for volatile, flammable vapors from absorbed material.
Precautions to Be Taken in Handling and Storing:	Keep away from heat, sparks, and open flames. Keep containers closed. Vapors of this material are heavier than air and will collect in low or confined areas. Containers, even those that have been emptied, can contain explosive vapors. Do not cut, drill, grind, weld or perform similar operations near containers. Static electricity may accumulate and create a fire hazard. Ground fixed equipment. Bond and ground all transfer containers and equipment.

SECTION 7: EXPOSURE CONTROLS / PERSONAL PROTECTION

Ventilation:	Use with ventilation sufficient to prevent exceeding recommended exposure limits or build up of explosive concentrations of vapor in air.
Respiratory Protection:	If personal exposure concentrations cannot be maintained below the appropriate exposure limits using engineering controls, a NIOSH approved organic vapor air purifying respirator may be appropriate based on employer-determined exposure levels. Air supplied or SCBA respirators may be required when the measured chemical concentration exceeds the capacity of the air purifying respirator or when personal exposure levels are unknown.
Eye Protection:	Safety glasses with side shields are recommended when pouring or applying this product.
Skin Protection:	Wearing of polyvinyl alcohol, nitrile rubber, or neoprene gloves is recommended when handling this product to avoid prolonged skin contact.
Other:	No additional recommendations.

Work / Hygienic Practices:	Wash exposed skin prior to eating, drinking or smoking and at the end of each shift. Wash contaminated clothing prior to reuse.

SECTION 8: PHYSICAL AND CHEMICAL PROPERTIES

Appearance and Odor:	Clear liquid / solvent odor		
Flash Point:	< -1° F	Lower Explosive Limit (for component):	1%
Method Used:	Setaflash closed tester	Upper Explosive Limit (for component):	7.0%
Evaporation Rate:	<1 (Ethyl Ether=1)	Boiling Point (for component):	140 - 220° F
pH (undiluted product):	Unknown	Melting Point:	Not Applicable
Solubility in Water:	Insoluble	Specific Gravity:	.829 (Water=1)
Vapor Density:	>1 (Air=1)	Percent Volatile:	93 - 97%
Vapor Pressure: (for component)	227 mm Hg @ 100°F		

SECTION 9: STABILITY AND REACTIVITY

Thermal Stability:	Stable
Hazardous Polymerization:	Will not occur
Conditions to Avoid:	Avoid flames, sparks or other sources of ignition. Incompatible with strong alkalis, strong mineral acids, and strong oxidizing agents.

SECTION 10: TRANSPORTATION

Regulatory Agency:	U.S.A., DOT, IMO
Proper Shipping Name:	Adhesives
Hazard Classification:	3
Identification Number:	UN1133
Packaging Group:	II
Labels Required:	Flammable Liquid

SECTION 11: MISCELLANEOUS INFORMATION

Additional Comments:	None
Date of Previous MSDS:	December 1, 2005
Changes Since Previous MSDS:	Update to toluene TLV in section 2.
Telephone Number for Additional Information:	(317) 575-7190

DISCLAIMER

The information contained herein is based on data considered accurate which has been obtained from other companies and organizations. However, no warranty or representation is expressed or implied that the information, is accurate, complete or representative. Firestone Building Products Company, a subsidiary of Bridgestone Americas Holding, Inc., assumes no responsibility for injury to the buyer, the buyer's employees, or any third persons, if reasonable safety procedures are not followed. Additionally, Firestone Building Products Company assumes no responsibility for injury to buyer, the buyer's employees, or any third persons caused by abnormal use of this material, even if reasonable safety procedures are followed.

Firestone Building Products Company
Material Safety Data Sheet

SECTION 1: PRODUCT IDENTIFICATION

Product Name:	Triumph Splice Adhesive 9053
Chemical Name / Synonym:	Butyl Rubber Adhesive
Chemical Family:	Mixture
24-Hour Emergency Phone:	(800) 424-9300 CHEMTREC
Manufacturer's Name:	Firestone Building Products Company
Manufacturer's Address:	310 East 96th Street, Indianapolis, IN 46240
NFPA Hazard Rating:	Health 2, Flammability 3, Reactivity 0
HMIS Hazard Rating:	Health 2, Flammability 3, Reactivity 0

SECTION 2: CHEMICAL COMPOSITION

Chemical Name:	Common Name:	CAS #:	% (by wt)	Exposure Limits:
Toluene	Toluol	108-88-3	56	PEL 200 ppm OSHA Ceiling 300 ppm TLV 20 ppm ACGIH SKIN
Aliphatic Petroleum Distillates	None	64742-89-8	15 - 19	TLV 300 ppm (VM&P Naphtha)
n-Hexane	Hexane	110-54-3	5	PEL 500 ppm TLV 50 ppm ACGIH SKIN
Xylene	Dimethylbenzene	1330-20-7	5	PEL 100 ppm TLV 100 ppm ACGIH STEL 150 ppm
Nonhazardous as per 29 CFR 1910.1200.	None	None	>15	None Established

SECTION 3: HAZARD IDENTIFICATION

Primary Route of Exposure:	Skin Absorption, Inhalation
Signs and Symptoms of Exposure:	Eye contact may cause severe eye irritation, redness, tearing and blurred vision. Prolonged or repeated skin contact may cause irritation, dermatitis and drying of the skin. Absorption through intact skin may contribute to an individual's overall exposure. Inhalation may cause respiratory system irritation and central nervous system depression (narcosis) characterized by headache, dizziness, muscular weakness and fatigue. Cardiac sensitization may occur. Impairment of coordination and increased reaction time may be noted at high levels. Gastrointestinal disturbances (e.g., nausea, anorexia) may occur. Excessive toluene vapors may result in a bad (metallic) taste in the mouth (effects increasing with increased exposure levels). May cause unconsciousness if exposure is excessive. Toluene LC_{50}: 8,000 ppm/4hr, rat; Toluene LD_{50}: 2.6-7.5 g/kg,

	rat; Xylene LC_{50}: 6,700 ppm/4hr, rat; Xylene LD_{50}: 3.5-8.6 g/kg, rat; n-Hexane LD_{50}: 29 g/kg, rat.
Medical Conditions Aggravated by Exposure:	Exposure to this product may aggravate pre-existing skin, respiratory, cardiovascular and neurological diseases. Toluene exposures have caused birth defects in laboratory animals when exposures were at concentrations that harmed the pregnant animal. The relevance of these findings to humans is uncertain.
Chronic Effects:	May cause kidney, liver, spleen, central nervous system and/or peripheral nerve damage. May cause brain cell and neuromuscular damage based upon animal studies. May cause cardiac sensitization to epinephrine. Hearing loss associated with chronic toluene exposure has been observed.
Carcinogenicity:	None

SECTION 4: FIRST AID MEASURES

First Aid Procedures:	If this material contacts the eyes, hold eyelids open and flush immediately with a gentle stream of water for at least 15 minutes, preferably at an eyewash fountain. Get medical attention. In case of skin contact, clean with rubbing alcohol first, followed immediately by washing affected area with soap and water. In case of inhalation, remove to fresh uncontaminated air. Administer oxygen if breathing is labored. Give artificial respiration if breathing has stopped. Get medical attention immediately if oxygen or artificial respiration are administered. In case of accidental ingestion, do not induce vomiting. Get medical attention and advise the physician of the nature of the material.

SECTION 5: FIRE FIGHTING PROCEDURES

Suitable Extinguishing Media:	Foam, water spray (fog), carbon dioxide, and dry chemical type extinguishing agents may all be suitable for extinguishing fires involving this product. Water may be ineffective, but should be used to keep fire exposed containers cool. Water spray may be used to flush spills away from exposures.
Hazardous Combustion Products:	Carbon dioxide, carbon monoxide, and various hydrocarbons.
Recommended Fire Fighting Procedures:	Wear impermeable protective clothing and self-contained breathing apparatus. Toxic fumes and vapors may be evolved. Minimize the breathing of gases, vapors, fumes or decomposition products. Use supplied-air breathing equipment for enclosed or confined spaces or as otherwise needed.
Unusual Fire and Explosion Hazards:	This product is volatile and gives off invisible vapors that may settle in low areas or travel some distance along the ground or surface to ignition sources where they may ignite or explode.

SECTION 6: PRECAUTIONS FOR SAFE HANDLING AND USE

Steps to Be Taken in Case Material is Released or Spilled:	Shut off and eliminate all ignition sources. Keep people away. Recover free product. Add sand, earth or other suitable absorbent to spill area. Minimize breathing vapors. Minimize

	skin contact. Ventilate confined spaces. Open all windows and doors. Keep product clear of sewers, water, or extensive land areas. Assure conformity with applicable government regulations. Continue to observe precautions for volatile, flammable vapors from absorbed material.
Precautions to Be Taken in Handling and Storing:	Keep away from heat, sparks, and open flames. Keep containers closed. Vapors of this material are heavier than air and will collect in low or confined areas. Containers, even those that have been emptied, can contain explosive vapors. Do not cut, drill, grind, weld or perform similar operations near containers. Static electricity may accumulate and create a fire hazard. Ground fixed equipment. Bond and ground all transfer containers and equipment.

SECTION 7: EXPOSURE CONTROLS / PERSONAL PROTECTION

Ventilation:	Use with ventilation sufficient to prevent exceeding recommended exposure limits or build up of explosive concentrations of vapor in air.
Respiratory Protection:	If personal exposure concentrations cannot be maintained below the appropriate exposure limits using engineering controls, a NIOSH approved respirator may be appropriate based on employer-determined exposure levels.
Eye Protection:	The use of safety glasses with side shields when pouring or applying this product may be warranted.
Skin Protection:	The use of polyvinyl alcohol, nitrile rubber, or neoprene gloves when handling this product to avoid prolonged skin contact may be warranted.
Other:	No additional recommendations.
Work / Hygienic Practices:	Wash exposed skin prior to eating, drinking or smoking and at the end of each shift. Wash contaminated clothing prior to reuse.

SECTION 8: PHYSICAL AND CHEMICAL PROPERTIES

Appearance and Odor:	Black, liquid / solvent odor		
Flash Point:	<0°F	Lower Explosive Limit (for component):	1%
Method Used:	Setaflash closed tester	Upper Explosive Limit (for component):	7.0%
Evaporation Rate:	<1 (Ether=1)	Boiling Point (for component):	140 - 220° F
pH (undiluted product):	Unknown	Melting Point:	Not Applicable
Solubility in Water:	Insoluble	Specific Gravity:	.849 (Water=1)
Vapor Density:	>1 (Air=1)	Percent Volatile:	18 - 20%
Vapor Pressure: (for component)	<227 mm Hg @ 25°C		

SECTION 9: STABILITY AND REACTIVITY

Thermal Stability:	Stable
Hazardous Polymerization:	Will not occur
Conditions to Avoid:	Avoid flames, sparks or other sources of ignition. Incompatible with strong oxidizing agents.

SECTION 10: TRANSPORTATION

Regulatory Agency:	U.S.A., DOT, IMO
Proper Shipping Name:	Adhesives
Hazard Classification:	3
Identification Number:	UN1133
Packing Group:	II
Labels Required:	Flammable Liquid
Other Requirements:	49 CFR 172.101 Adhesives, UN1133, IMDG Class 3.2, Pg. 3174, Flash Point -18° C

SECTION 11: MISCELLANEOUS INFORMATION

Additional Comments:	None
Date of Previous MSDS:	December 9, 2005
Changes Since Previous MSDS:	TLV for toluene in section 2.
Telephone Number for Additional Information:	(317) 575-7190

DISCLAIMER

The information contained herein is based on data considered accurate which has been obtained from other companies and organizations. However, no warranty or representation is expressed or implied that the information, is accurate, complete or representative. Firestone Building Products Company, a subsidiary of Bridgestone Americas Holding, Inc., assumes no responsibility for injury to the buyer, the buyer's employees, or any third persons, if reasonable safety procedures are not followed. Additionally, Firestone Building Products Company assumes no responsibility for injury to buyer, the buyer's employees, or any third persons caused by abnormal use of this material, even if reasonable safety procedures are followed.

MATERIAL SAFETY DATA SHEET

B60VZ70
02 00

DATE OF PREPARATION
Mar 2, 2009

SECTION 1 — PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NUMBER
B60VZ70
PRODUCT NAME
TILE-CLAD® High Solids Enamel (Part B), Hardener
MANUFACTURER'S NAME
THE SHERWIN-WILLIAMS COMPANY
101 Prospect Avenue N.W.
Cleveland, OH 44115

Telephone Numbers and Websites

Product Information	www.sherwin-williams.com
Regulatory Information	(216) 566-2902 www.paintdocs.com
Medical Emergency	(216) 566-2917
Transportation Emergency*	(800) 424-9300
**for Chemical Emergency ONLY (spill, leak, fire, exposure, or accident)*	

SECTION 2 — COMPOSITION/INFORMATION ON INGREDIENTS

% by Weight	CAS Number	Ingredient	Units	Vapor Pressure
3	**100-41-4**	**Ethylbenzene**		
		ACGIH TLV	100 PPM	7.1 mm
		ACGIH TLV	125 PPM STEL	
		OSHA PEL	100 PPM	
		OSHA PEL	125 PPM STEL	
19	**1330-20-7**	**Xylene**		
		ACGIH TLV	100 PPM	5.9 mm
		ACGIH TLV	150 PPM STEL	
		OSHA PEL	100 PPM	
		OSHA PEL	150 PPM STEL	
3	**64742-95-6**	**Light Aromatic Hydrocarbons**		
		ACGIH TLV	Not Available	3.8 mm
		OSHA PEL	Not Available	
4	**108-67-8**	**1,3,5-Trimethylbenzene**		
		ACGIH TLV	25 PPM	2 mm
		OSHA PEL	25 PPM	
5	**95-63-6**	**1,2,4-Trimethylbenzene**		
		ACGIH TLV	25 PPM	2.03 mm
		OSHA PEL	25 PPM	
65	**Proprietary**	**Epoxy Polymer**		
		ACGIH TLV	Not Available	
		OSHA PEL	Not Available	

SECTION 3 — HAZARDS IDENTIFICATION

ROUTES OF EXPOSURE
INHALATION of vapor or spray mist.
EYE or SKIN contact with the product, vapor or spray mist.
EFFECTS OF OVEREXPOSURE
EYES: Irritation.
SKIN: Prolonged or repeated exposure may cause irritation.
INHALATION: Irritation of the upper respiratory system.

May cause nervous system depression. Extreme overexposure may result in unconsciousness and possibly death.
Prolonged overexposure to solvent ingredients in Section 2 may cause adverse effects to the liver, urinary and reproductive systems.
SIGNS AND SYMPTOMS OF OVEREXPOSURE
Headache, dizziness, nausea, and loss of coordination are indications of excessive exposure to vapors or spray mists.

HMIS Codes

Health	2*
Flammability	3
Reactivity	0

Redness and itching or burning sensation may indicate eye or excessive skin exposure.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE

May cause allergic skin reaction in susceptible persons or skin sensitization.

CANCER INFORMATION

For complete discussion of toxicology data refer to Section 11.

SECTION 4 — FIRST AID MEASURES

EYES: Flush eyes with large amounts of water for 15 minutes. Get medical attention.
SKIN: Wash affected area thoroughly with soap and water.
If irritation persists or occurs later, get medical attention.
Remove contaminated clothing and launder before re-use.
INHALATION: If affected, remove from exposure. Restore breathing. Keep warm and quiet.
INGESTION: Do not induce vomiting. Get medical attention immediately.

SECTION 5 — FIRE FIGHTING MEASURES

FLASH POINT	LEL	UEL	FLAMMABILITY CLASSIFICATION
82° F PMCC	0.7	7.0	RED LABEL -- Flammable, Flash below 100° F (38 °C)

EXTINGUISHING MEDIA

Carbon Dioxide, Dry Chemical, Foam

UNUSUAL FIRE AND EXPLOSION HAZARDS

Closed containers may explode when exposed to extreme heat.
Application to hot surfaces requires special precautions.
During emergency conditions overexposure to decomposition products may cause a health hazard. Symptoms may not be immediately apparent. Obtain medical attention.

SPECIAL FIRE FIGHTING PROCEDURES

Full protective equipment including self-contained breathing apparatus should be used.
Water spray may be ineffective. If water is used, fog nozzles are preferable. Water may be used to cool closed containers to prevent pressure build-up and possible autoignition or explosion when exposed to extreme heat.

SECTION 6 — ACCIDENTAL RELEASE MEASURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED

- Remove all sources of ignition. Ventilate the area.
- Remove with inert absorbent.

SECTION 7 — HANDLING AND STORAGE

STORAGE CATEGORY

DOL Storage Class IC

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE

Contents are FLAMMABLE. Keep away from heat, sparks, and open flame.
During use and until all vapors are gone: Keep area ventilated - Do not smoke - Extinguish all flames, pilot lights, and heaters - Turn off stoves, electric tools and appliances, and any other sources of ignition.
Consult NFPA Code. Use approved Bonding and Grounding procedures.
Keep container closed when not in use. Transfer only to approved containers with complete and appropriate labeling. Do not take internally. Keep out of the reach of children.

SECTION 8 — EXPOSURE CONTROLS/PERSONAL PROTECTION

PRECAUTIONS TO BE TAKEN IN USE

Use only with adequate ventilation.
Avoid contact with skin and eyes. Avoid breathing vapor and spray mist.
Wash hands after using.
This coating may contain materials classified as nuisance particulates (listed "as Dust" in Section 2) which may be present at hazardous levels only during sanding or abrading of the dried film. If no specific dusts are listed in Section 2, the applicable limits for nuisance dusts are ACGIH TLV 10 mg/m3 (total dust), 3 mg/m3 (respirable fraction), OSHA PEL 15 mg/m3 (total dust), 5 mg/m3 (respirable fraction).

VENTILATION

Local exhaust preferable. General exhaust acceptable if the exposure to materials in Section 2 is maintained below applicable exposure limits. Refer to OSHA Standards 1910.94, 1910.107, 1910.108.

RESPIRATORY PROTECTION

If personal exposure cannot be controlled below applicable limits by ventilation, wear a properly fitted organic vapor/particulate respirator approved by NIOSH/MSHA for protection against materials in Section 2.
When sanding or abrading the dried film, wear a dust/mist respirator approved by NIOSH/MSHA for dust which may be generated from this product, underlying paint, or the abrasive.

PROTECTIVE GLOVES

Wear gloves which are recommended by glove supplier for protection against materials in Section 2.

EYE PROTECTION
Wear safety spectacles with unperforated sideshields.
OTHER PROTECTIVE EQUIPMENT
Use of barrier cream on exposed skin is recommended.
OTHER PRECAUTIONS
This product must be mixed with other components before use. Before opening the packages, READ AND FOLLOW WARNING LABELS ON ALL COMPONENTS.
Intentional misuse by deliberately concentrating and inhaling the contents can be harmful or fatal.

SECTION 9 — PHYSICAL AND CHEMICAL PROPERTIES

PRODUCT WEIGHT	8.75 lb/gal	1048 g/l
SPECIFIC GRAVITY	1.05	
BOILING POINT	277 - 360° F	136 - 182° C
MELTING POINT	Not Available	
VOLATILE VOLUME	42%	
EVAPORATION RATE	Slower than ether	
VAPOR DENSITY	Heavier than air	
SOLUBILITY IN WATER	N.A.	

VOLATILE ORGANIC COMPOUNDS (VOC Theoretical - As Packaged)

3.06lb/gal	366g/l	Less Water and Federally Exempt Solvents
3.06lb/gal	366g/l	Emitted VOC

SECTION 10 — STABILITY AND REACTIVITY

STABILITY — Stable
CONDITIONS TO AVOID
None known.
INCOMPATIBILITY
None known.
HAZARDOUS DECOMPOSITION PRODUCTS
By fire: Carbon Dioxide, Carbon Monoxide
HAZARDOUS POLYMERIZATION
Will not occur

SECTION 11 — TOXICOLOGICAL INFORMATION

CHRONIC HEALTH HAZARDS
Reports have associated repeated and prolonged overexposure to solvents with permanent brain and nervous system damage.
Ethylbenzene is classified by IARC as possibly carcinogenic to humans (2B) based on inadequate evidence in humans and sufficient evidence in laboratory animals. Lifetime inhalation exposure of rats and mice to high ethylbenzene concentrations resulted in increases in certain types of cancer, including kidney tumors in rats and lung and liver tumors in mice. These effects were not observed in animals exposed to lower concentrations. There is no evidence that ethylbenzene causes cancer in humans.
TOXICOLOGY DATA

CAS No.	Ingredient Name			
100-41-4	**Ethylbenzene**			
		LC50 RAT	4HR	Not Available
		LD50 RAT		3500 mg/kg
1330-20-7	**Xylene**			
		LC50 RAT	4HR	5000 ppm
		LD50 RAT		4300 mg/kg
64742-95-6	**Light Aromatic Hydrocarbons**			
		LC50 RAT	4HR	Not Available
		LD50 RAT		Not Available
108-67-8	**1,3,5-Trimethylbenzene**			
		LC50 RAT	4HR	Not Available
		LD50 RAT		Not Available
95-63-6	**1,2,4-Trimethylbenzene**			
		LC50 RAT	4HR	Not Available
		LD50 RAT		Not Available
Proprietary	**Epoxy Polymer**			
		LC50 RAT	4HR	Not Available
		LD50 RAT		Not Available

SECTION 12 — ECOLOGICAL INFORMATION

ECOTOXICOLOGICAL INFORMATION
No data available.

SECTION 13 — DISPOSAL CONSIDERATIONS

WASTE DISPOSAL METHOD

Waste from this product may be hazardous as defined under the Resource Conservation and Recovery Act (RCRA) 40 CFR 261.
Waste must be tested for ignitability to determine the applicable EPA hazardous waste numbers.
Incinerate in approved facility. Do not incinerate closed container. Dispose of in accordance with Federal, State/Provincial, and Local regulations regarding pollution.

SECTION 14 — TRANSPORT INFORMATION

US Ground (DOT)

1 Gallon and Less may be Classed as CONSUMER COMMODITY, ORM-D
Larger Containers are Regulated as:
UN1263, PAINT RELATED MATERIAL, 3, PG III, (ERG#128)

DOT (Dept of Transportation) Hazardous Substances & Reportable Quantities

Ethyl benzene 1000 lb RQ
Xylenes (isomers and mixture) 100 lb RQ

Bulk Containers may be Shipped as (check reportable quantities):

RQ, UN1263, PAINT RELATED MATERIAL, 3, PG III, (XYLENES (ISOMERS AND MIXTURE)), (ERG#128)

Canada (TDG)

UN1263, PAINT RELATED MATERIAL, CLASS 3, PG III, LIMITED QUANTITY, (ERG#128)

IMO

UN1263, PAINT RELATED MATERIAL, CLASS 3, PG III, (28 C c.c.), EmS F-E, S-E

SECTION 15 — REGULATORY INFORMATION

SARA 313 *(40 CFR 372.65C)* SUPPLIER NOTIFICATION

CAS No.	CHEMICAL/COMPOUND	% by WT	% Element
100-41-4	Ethylbenzene	3	
1330-20-7	Xylene	19	
95-63-6	1,2,4-Trimethylbenzene	5	

CALIFORNIA PROPOSITION 65

WARNING: This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.

TSCA CERTIFICATION

All chemicals in this product are listed, or are exempt from listing, on the TSCA Inventory.

SECTION 16 — OTHER INFORMATION

This product has been classified in accordance with the hazard criteria of the Canadian Controlled Products Regulations (CPR) and the MSDS contains all of the information required by the CPR.

The above information pertains to this product as currently formulated, and is based on the information available at this time. Addition of reducers or other additives to this product may substantially alter the composition and hazards of the product. Since conditions of use are outside our control, we make no warranties, express or implied, and assume no liability in connection with any use of this information.

MATERIAL SAFETY DATA SHEET

XYLENE/SW
07 00

DATE OF PREPARATION
Sep 9, 2008

SECTION 1 — PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NUMBER
XYLENE/SW
PRODUCT NAME
Xylene (Xylol)
MANUFACTURER'S NAME
THE SHERWIN-WILLIAMS COMPANY
101 Prospect Avenue N.W.
Cleveland, OH 44115

Telephone Numbers and Websites

Regulatory Information	(216) 566-2902 www.paintdocs.com
Medical Emergency	(216) 566-2917
Transportation Emergency*	(800) 424-9300
**for Chemical Emergency ONLY (spill, leak, fire, exposure, or accident)*	

SECTION 2 — COMPOSITION/INFORMATION ON INGREDIENTS

% by Weight	CAS Number	Ingredient	Units	Vapor Pressure
15	**100-41-4**	**Ethylbenzene**		
		ACGIH TLV	100 PPM	7.1 mm
		ACGIH TLV	125 PPM STEL	
		OSHA PEL	100 PPM	
		OSHA PEL	125 PPM STEL	
85	**1330-20-7**	**Xylene**		
		ACGIH TLV	100 PPM	5.9 mm
		ACGIH TLV	150 PPM STEL	
		OSHA PEL	100 PPM	
		OSHA PEL	150 PPM STEL	

SECTION 3 — HAZARDS IDENTIFICATION

ROUTES OF EXPOSURE
INHALATION of vapor or spray mist.
EYE or SKIN contact with the product, vapor or spray mist.

HMIS Codes

Health	2*
Flammability	3
Reactivity	0

EFFECTS OF OVEREXPOSURE
EYES: Irritation.
SKIN: Prolonged or repeated exposure may cause irritation.
INHALATION: Irritation of the upper respiratory system.

May cause nervous system depression. Extreme overexposure may result in unconsciousness and possibly death.
Prolonged overexposure to solvent ingredients in Section 2 may cause adverse effects to the liver, urinary and reproductive systems.

SIGNS AND SYMPTOMS OF OVEREXPOSURE
Headache, dizziness, nausea, and loss of coordination are indications of excessive exposure to vapors or spray mists.
Redness and itching or burning sensation may indicate eye or excessive skin exposure.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE
None generally recognized.

CANCER INFORMATION
For complete discussion of toxicology data refer to Section 11.

SECTION 4 — FIRST AID MEASURES

EYES: Flush eyes with large amounts of water for 15 minutes. Get medical attention.
SKIN: Wash affected area thoroughly with soap and water.
Remove contaminated clothing and launder before re-use.
INHALATION: If affected, remove from exposure. Restore breathing. Keep warm and quiet.
INGESTION: Do not induce vomiting. Get medical attention immediately.

SECTION 5 — FIRE FIGHTING MEASURES

FLASH POINT	LEL	UEL	FLAMMABILITY CLASSIFICATION
80° F PMCC	1.0	7.0	RED LABEL -- Flammable, Flash below 100° F (38 °C)

EXTINGUISHING MEDIA

Carbon Dioxide, Dry Chemical, Foam

UNUSUAL FIRE AND EXPLOSION HAZARDS

Closed containers may explode when exposed to extreme heat.
Application to hot surfaces requires special precautions.
During emergency conditions overexposure to decomposition products may cause a health hazard. Symptoms may not be immediately apparent. Obtain medical attention.

SPECIAL FIRE FIGHTING PROCEDURES

Full protective equipment including self-contained breathing apparatus should be used.
Water spray may be ineffective. If water is used, fog nozzles are preferable. Water may be used to cool closed containers to prevent pressure build-up and possible autoignition or explosion when exposed to extreme heat.

SECTION 6 — ACCIDENTAL RELEASE MEASURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED

- Remove all sources of ignition. Ventilate the area.
- Remove with inert absorbent.

SECTION 7 — HANDLING AND STORAGE

STORAGE CATEGORY

DOL Storage Class IC

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE

Contents are FLAMMABLE. Keep away from heat, sparks, and open flame.
During use and until all vapors are gone: Keep area ventilated - Do not smoke - Extinguish all flames, pilot lights, and heaters - Turn off stoves, electric tools and appliances, and any other sources of ignition.
Consult NFPA Code. Use approved Bonding and Grounding procedures.
Keep container closed when not in use. Transfer only to approved containers with complete and appropriate labeling. Do not take internally. Keep out of the reach of children.

SECTION 8 — EXPOSURE CONTROLS/PERSONAL PROTECTION

PRECAUTIONS TO BE TAKEN IN USE

Use only with adequate ventilation.
Avoid contact with skin and eyes. Avoid breathing vapor and spray mist.
Wash hands after using.

VENTILATION

Local exhaust preferable. General exhaust acceptable if the exposure to materials in Section 2 is maintained below applicable exposure limits. Refer to OSHA Standards 1910.94, 1910.107, 1910.108.

RESPIRATORY PROTECTION

If personal exposure cannot be controlled below applicable limits by ventilation, wear a properly fitted organic vapor/particulate respirator approved by NIOSH/MSHA for protection against materials in Section 2.

PROTECTIVE GLOVES

Wear gloves which are recommended by glove supplier for protection against materials in Section 2.

EYE PROTECTION

Wear safety spectacles with unperforated sideshields.

OTHER PRECAUTIONS

Intentional misuse by deliberately concentrating and inhaling the contents can be harmful or fatal.

SECTION 9 — PHYSICAL AND CHEMICAL PROPERTIES

PRODUCT WEIGHT	7.17 lb/gal	859 g/l
SPECIFIC GRAVITY	0.86	
BOILING POINT	277 - 292° F	136 - 144° C
MELTING POINT	Not Available	
VOLATILE VOLUME	100%	
EVAPORATION RATE	Slower than ether	
VAPOR DENSITY	Heavier than air	
SOLUBILITY IN WATER	N.A.	

VOLATILE ORGANIC COMPOUNDS (VOC Theoretical - As Packaged)

7.17lb/gal	859g/l	Less Water and Federally Exempt Solvents
7.17lb/gal	859g/l	Emitted VOC

SECTION 10 — STABILITY AND REACTIVITY

STABILITY — Stable
CONDITIONS TO AVOID
None known.
INCOMPATIBILITY
None known.
HAZARDOUS DECOMPOSITION PRODUCTS
By fire: Carbon Dioxide, Carbon Monoxide
HAZARDOUS POLYMERIZATION
Will not occur

SECTION 11 — TOXICOLOGICAL INFORMATION

CHRONIC HEALTH HAZARDS
Reports have associated repeated and prolonged overexposure to solvents with permanent brain and nervous system damage.
Ethylbenzene is classified by IARC as possibly carcinogenic to humans (2B) based on inadequate evidence in humans and sufficient evidence in laboratory animals. Lifetime inhalation exposure of rats and mice to high ethylbenzene concentrations resulted in increases in certain types of cancer, including kidney tumors in rats and lung and liver tumors in mice. These effects were not observed in animals exposed to lower concentrations. There is no evidence that ethylbenzene causes cancer in humans.
TOXICOLOGY DATA

CAS No.	Ingredient Name			
100-41-4	**Ethylbenzene**			
		LC50 RAT	4HR	Not Available
		LD50 RAT		3500 mg/kg
1330-20-7	**Xylene**			
		LC50 RAT	4HR	5000 ppm
		LD50 RAT		4300 mg/kg

SECTION 12 — ECOLOGICAL INFORMATION

ECOTOXICOLOGICAL INFORMATION
No data available.

SECTION 13 — DISPOSAL CONSIDERATIONS

WASTE DISPOSAL METHOD
Waste from this product may be hazardous as defined under the Resource Conservation and Recovery Act (RCRA) 40 CFR 261.
Waste must be tested for ignitability to determine the applicable EPA hazardous waste numbers.
Incinerate in approved facility. Do not incinerate closed container. Dispose of in accordance with Federal, State/Provincial, and Local regulations regarding pollution.

SECTION 14 — TRANSPORT INFORMATION

US Ground (DOT)
1 Gallon and Less may be Classed as CONSUMER COMMODITY, ORM-D
Larger Containers are Regulated as:
UN1307, XYLENES, 3, PG III, (ERG#130)
DOT (Dept of Transportation) Hazardous Substances & Reportable Quantities
Ethyl benzene 1000 lb RQ
Xylenes (isomers and mixture) 100 lb RQ
Bulk Containers may be Shipped as (check reportable quantities):
RQ, UN1307, XYLENES, 3, PG III, (XYLENES (ISOMERS AND MIXTURE)), (ERG#130)
Canada (TDG)
UN1307, XYLENES, CLASS 3, PG III, LIMITED QUANTITY, (ERG#130)
IMO
UN1307, XYLENES, CLASS 3, PG III, (27 C c.c.), EmS F-E, S-D

SECTION 15 — REGULATORY INFORMATION

SARA 313 *(40 CFR 372.65C)* SUPPLIER NOTIFICATION

CAS No.	CHEMICAL/COMPOUND	% by WT	% Element
100-41-4	Ethylbenzene	15	
1330-20-7	Xylene	85	

CALIFORNIA PROPOSITION 65

WARNING: This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.

TSCA CERTIFICATION

All chemicals in this product are listed, or are exempt from listing, on the TSCA Inventory.

SECTION 16 — OTHER INFORMATION

This product has been classified in accordance with the hazard criteria of the Canadian Controlled Products Regulations (CPR) and the MSDS contains all of the information required by the CPR.

The above information pertains to this product as currently formulated, and is based on the information available at this time. Addition of reducers or other additives to this product may substantially alter the composition and hazards of the product. Since conditions of use are outside our control, we make no warranties, express or implied, and assume no liability in connection with any use of this information.

MATERIAL SAFETY DATA SHEET

B50W100
05 00

DATE OF PREPARATION
Feb 21, 2009

SECTION 1 — PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NUMBER
B50W100
PRODUCT NAME
OPTI-BOND™ Multi-Surface Coating, White
MANUFACTURER'S NAME
THE SHERWIN-WILLIAMS COMPANY
101 Prospect Avenue N.W.
Cleveland, OH 44115

Telephone Numbers and Websites

Product Information	www.sherwin-williams.com
Regulatory Information	(216) 566-2902 www.paintdocs.com
Medical Emergency	(216) 566-2917
Transportation Emergency*	(800) 424-9300
**for Chemical Emergency ONLY (spill, leak, fire, exposure, or accident)*	

SECTION 2 — COMPOSITION/INFORMATION ON INGREDIENTS

% by Weight	CAS Number	Ingredient	Units	Vapor Pressure
19	**64742-88-7**	**Mineral Spirits**		
		ACGIH TLV	100 PPM	2 mm
		OSHA PEL	100 PPM	
0.2	**100-41-4**	**Ethylbenzene**		
		ACGIH TLV	100 PPM	7.1 mm
		ACGIH TLV	125 PPM STEL	
		OSHA PEL	100 PPM	
		OSHA PEL	125 PPM STEL	
13	**14807-96-6**	**Talc**		
		ACGIH TLV	2 mg/m3 as Resp. Dust	
		OSHA PEL	2 mg/m3 as Resp. Dust	
18	**65997-15-1**	**Portland Cement**		
		ACGIH TLV	10 mg/m3 as Dust	
		OSHA PEL	10 mg/m3 Total Dust	
		OSHA PEL	5 mg/m3 Respirable Fraction	
12	**471-34-1**	**Calcium Carbonate**		
		ACGIH TLV	10 mg/m3 as Dust	
		OSHA PEL	15 mg/m3 Total Dust	
		OSHA PEL	5 mg/m3 Respirable Fraction	
17	**13463-67-7**	**Titanium Dioxide**		
		ACGIH TLV	10 mg/m3 as Dust	
		OSHA PEL	10 mg/m3 Total Dust	
		OSHA PEL	5 mg/m3 Respirable Fraction	

SECTION 3 — HAZARDS IDENTIFICATION

ROUTES OF EXPOSURE
INHALATION of vapor or spray mist.
EYE or SKIN contact with the product, vapor or spray mist.
EFFECTS OF OVEREXPOSURE
EYES: Causes burns.
SKIN: Causes burns.
INHALATION: Irritation of the upper respiratory system.

May cause nervous system depression. Extreme overexposure may result in unconsciousness and possibly death.
Prolonged overexposure to solvent ingredients in Section 2 may cause adverse effects to the liver and urinary systems.

HMIS Codes

Health	2*
Flammability	2
Reactivity	0

SIGNS AND SYMPTOMS OF OVEREXPOSURE

Headache, dizziness, nausea, and loss of coordination are indications of excessive exposure to vapors or spray mists.
Redness and itching or burning sensation may indicate eye or excessive skin exposure.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE

None generally recognized.

CANCER INFORMATION

For complete discussion of toxicology data refer to Section 11.

SECTION 4 — FIRST AID MEASURES

EYES: Flush eyes with large amounts of water for 15 minutes. Get medical attention **IMMEDIATELY**.
SKIN: Wash affected area thoroughly with soap and water.
If irritation persists or occurs later, get medical attention.
Remove contaminated clothing and launder before re-use.
INHALATION: If affected, remove from exposure. Restore breathing. Keep warm and quiet.
INGESTION: Do not induce vomiting. Get medical attention immediately.

SECTION 5 — FIRE FIGHTING MEASURES

FLASH POINT	LEL	UEL	FLAMMABILITY CLASSIFICATION
104° F PMCC	1.0	6.0	Combustible, Flash above 99 and below 200° F

EXTINGUISHING MEDIA

Carbon Dioxide, Dry Chemical, Foam

UNUSUAL FIRE AND EXPLOSION HAZARDS

Closed containers may explode when exposed to extreme heat.
Application to hot surfaces requires special precautions.
During emergency conditions overexposure to decomposition products may cause a health hazard. Symptoms may not be immediately apparent. Obtain medical attention.

SPECIAL FIRE FIGHTING PROCEDURES

Full protective equipment including self-contained breathing apparatus should be used.
Water spray may be ineffective. If water is used, fog nozzles are preferable. Water may be used to cool closed containers to prevent pressure build-up and possible autoignition or explosion when exposed to extreme heat.

SECTION 6 — ACCIDENTAL RELEASE MEASURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED

- Remove all sources of ignition. Ventilate the area.
- Remove with inert absorbent.

SECTION 7 — HANDLING AND STORAGE

STORAGE CATEGORY

DOL Storage Class II

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE

Contents are COMBUSTIBLE. Keep away from heat and open flame.
Consult NFPA Code. Use approved Bonding and Grounding procedures.
Keep container closed when not in use. Transfer only to approved containers with complete and appropriate labeling. Do not take internally. Keep out of the reach of children.

SECTION 8 — EXPOSURE CONTROLS/PERSONAL PROTECTION

PRECAUTIONS TO BE TAKEN IN USE

Use only with adequate ventilation.
Do not get in eyes or on skin. Avoid breathing vapor and spray mist.
Wash hands after using.
This coating may contain materials classified as nuisance particulates (listed "as Dust" in Section 2) which may be present at hazardous levels only during sanding or abrading of the dried film. If no specific dusts are listed in Section 2, the applicable limits for nuisance dusts are ACGIH TLV 10 mg/m3 (total dust), 3 mg/m3 (respirable fraction), OSHA PEL 15 mg/m3 (total dust), 5 mg/m3 (respirable fraction).

VENTILATION

Local exhaust preferable. General exhaust acceptable if the exposure to materials in Section 2 is maintained below applicable exposure limits. Refer to OSHA Standards 1910.94, 1910.107, 1910.108.

RESPIRATORY PROTECTION

If personal exposure cannot be controlled below applicable limits by ventilation, wear a properly fitted organic vapor/particulate respirator approved by NIOSH/MSHA for protection against materials in Section 2.
When sanding or abrading the dried film, wear a dust/mist respirator approved by NIOSH/MSHA for dust which may be generated from this product, underlying paint, or the abrasive.

PROTECTIVE GLOVES

To prevent skin contact, wear gloves which are recommended by glove supplier for protection against materials in Section 2.

EYE PROTECTION
To prevent eye contact, wear safety spectacles with unperforated sideshields.
OTHER PROTECTIVE EQUIPMENT
Use barrier cream on exposed skin.
OTHER PRECAUTIONS
Intentional misuse by deliberately concentrating and inhaling the contents can be harmful or fatal.

SECTION 9 — PHYSICAL AND CHEMICAL PROPERTIES

PRODUCT WEIGHT	13.15 lb/gal	1575 g/l
SPECIFIC GRAVITY	1.58	
BOILING POINT	300 - 395° F	148 - 201° C
MELTING POINT	Not Available	
VOLATILE VOLUME	41%	
EVAPORATION RATE	Slower than ether	
VAPOR DENSITY	Heavier than air	
SOLUBILITY IN WATER	N.A.	

VOLATILE ORGANIC COMPOUNDS (VOC Theoretical - As Packaged)

2.66lb/gal	319g/l	Less Water and Federally Exempt Solvents
2.66lb/gal	319g/l	Emitted VOC

SECTION 10 — STABILITY AND REACTIVITY

STABILITY — Stable
CONDITIONS TO AVOID
None known.
INCOMPATIBILITY
None known.
HAZARDOUS DECOMPOSITION PRODUCTS
By fire: Carbon Dioxide, Carbon Monoxide
HAZARDOUS POLYMERIZATION
Will not occur

SECTION 11 — TOXICOLOGICAL INFORMATION

CHRONIC HEALTH HAZARDS
Reports have associated repeated and prolonged overexposure to solvents with permanent brain and nervous system damage.
Ethylbenzene is classified by IARC as possibly carcinogenic to humans (2B) based on inadequate evidence in humans and sufficient evidence in laboratory animals. Lifetime inhalation exposure of rats and mice to high ethylbenzene concentrations resulted in increases in certain types of cancer, including kidney tumors in rats and lung and liver tumors in mice. These effects were not observed in animals exposed to lower concentrations. There is no evidence that ethylbenzene causes cancer in humans.
IARC's Monograph No. 93 reports there is sufficient evidence of carcinogenicity in experimental rats exposed to titanium dioxide but inadequate evidence for carcinogenicity in humans and has assigned a Group 2B rating. In addition, the IARC summary concludes, "No significant exposure to titanium dioxide is thought to occur during the use of products in which titanium is bound to other materials, such as paint."

TOXICOLOGY DATA

CAS No.	Ingredient Name			
64742-88-7	**Mineral Spirits**			
		LC50 RAT	4HR	Not Available
		LD50 RAT		Not Available
100-41-4	**Ethylbenzene**			
		LC50 RAT	4HR	Not Available
		LD50 RAT		3500 mg/kg
14807-96-6	**Talc**			
		LC50 RAT	4HR	Not Available
		LD50 RAT		Not Available
65997-15-1	**Portland Cement**			
		LC50 RAT	4HR	Not Available
		LD50 RAT		599.9 mg/kg
471-34-1	**Calcium Carbonate**			
		LC50 RAT	4HR	Not Available
		LD50 RAT		Not Available
13463-67-7	**Titanium Dioxide**			
		LC50 RAT	4HR	Not Available
		LD50 RAT		Not Available

SECTION 12 — ECOLOGICAL INFORMATION

ECOTOXICOLOGICAL INFORMATION

No data available.

SECTION 13 — DISPOSAL CONSIDERATIONS

WASTE DISPOSAL METHOD

Waste from this product may be hazardous as defined under the Resource Conservation and Recovery Act (RCRA) 40 CFR 261.
Waste must be tested for ignitability to determine the applicable EPA hazardous waste numbers.
Incinerate in approved facility. Do not incinerate closed container. Dispose of in accordance with Federal, State/Provincial, and Local regulations regarding pollution.

SECTION 14 — TRANSPORT INFORMATION

US Ground (DOT)

May be Classed as a Combustible Liquid for U.S. Ground.
UN1263, PAINT, 3, PG III, (ERG#128)

DOT (Dept of Transportation) Hazardous Substances & Reportable Quantities

Xylenes (isomers and mixture) 100 lb RQ

Bulk Containers may be Shipped as (check reportable quantities):

UN1263, PAINT, COMBUSTIBLE LIQUID, PG III, (ERG#128)

Canada (TDG)

May be Classed as a Combustible Liquid for Canadian Ground.
UN1263, PAINT, CLASS 3, PG III, (ERG#128)

IMO

UN1263, PAINT, CLASS 3, PG III, (40 C c.c.), EmS F-E, S-E

SECTION 15 — REGULATORY INFORMATION

SARA 313 *(40 CFR 372.65C)* SUPPLIER NOTIFICATION

CAS No.	CHEMICAL/COMPOUND	% by WT	% Element
100-41-4	Ethylbenzene	0.1	

CALIFORNIA PROPOSITION 65

WARNING: This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.

TSCA CERTIFICATION

All chemicals in this product are listed, or are exempt from listing, on the TSCA Inventory.

SECTION 16 — OTHER INFORMATION

This product has been classified in accordance with the hazard criteria of the Canadian Controlled Products Regulations (CPR) and the MSDS contains all of the information required by the CPR.

The above information pertains to this product as currently formulated, and is based on the information available at this time. Addition of reducers or other additives to this product may substantially alter the composition and hazards of the product. Since conditions of use are outside our control, we make no warranties, express or implied, and assume no liability in connection with any use of this information.

MATERIAL SAFETY DATA SHEET

B54E39
14 00

DATE OF PREPARATION
Feb 21, 2009

SECTION 1 — PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NUMBER
B54E39
PRODUCT NAME
Industrial Enamel, Safety Orange
MANUFACTURER'S NAME
THE SHERWIN-WILLIAMS COMPANY
101 Prospect Avenue N.W.
Cleveland, OH 44115

Telephone Numbers and Websites

Product Information	www.sherwin-williams.com
Regulatory Information	(216) 566-2902 www.paintdocs.com
Medical Emergency	(216) 566-2917
Transportation Emergency*	(800) 424-9300
**for Chemical Emergency ONLY (spill, leak, fire, exposure, or accident)*	

SECTION 2 — COMPOSITION/INFORMATION ON INGREDIENTS

% by Weight	CAS Number	Ingredient	Units	Vapor Pressure
42	**64742-88-7**	**Mineral Spirits**		
		ACGIH TLV	100 PPM	2 mm
		OSHA PEL	100 PPM	
0.1	**100-41-4**	**Ethylbenzene**		
		ACGIH TLV	100 PPM	7.1 mm
		ACGIH TLV	125 PPM STEL	
		OSHA PEL	100 PPM	
		OSHA PEL	125 PPM STEL	
10	**13463-67-7**	**Titanium Dioxide**		
		ACGIH TLV	10 mg/m3 as Dust	
		OSHA PEL	10 mg/m3 Total Dust	
		OSHA PEL	5 mg/m3 Respirable Fraction	

SECTION 3 — HAZARDS IDENTIFICATION

ROUTES OF EXPOSURE
INHALATION of vapor or spray mist.
EYE or SKIN contact with the product, vapor or spray mist.

HMIS Codes

Health	2*
Flammability	2
Reactivity	0

EFFECTS OF OVEREXPOSURE
EYES: Irritation.
SKIN: Prolonged or repeated exposure may cause irritation.
INHALATION: Irritation of the upper respiratory system.

May cause nervous system depression. Extreme overexposure may result in unconsciousness and possibly death.
Prolonged overexposure to solvent ingredients in Section 2 may cause adverse effects to the liver and urinary systems.

SIGNS AND SYMPTOMS OF OVEREXPOSURE
Headache, dizziness, nausea, and loss of coordination are indications of excessive exposure to vapors or spray mists.
Redness and itching or burning sensation may indicate eye or excessive skin exposure.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE
None generally recognized.

CANCER INFORMATION
For complete discussion of toxicology data refer to Section 11.

SECTION 4 — FIRST AID MEASURES

EYES: Flush eyes with large amounts of water for 15 minutes. Get medical attention.
SKIN: Wash affected area thoroughly with soap and water.
Remove contaminated clothing and launder before re-use.
INHALATION: If affected, remove from exposure. Restore breathing. Keep warm and quiet.
INGESTION: Do not induce vomiting. Get medical attention immediately.

SECTION 5 — FIRE FIGHTING MEASURES

FLASH POINT	LEL	UEL	FLAMMABILITY CLASSIFICATION
101° F PMCC	1.0	6.0	Combustible, Flash above 99 and below 200° F

EXTINGUISHING MEDIA
Carbon Dioxide, Dry Chemical, Foam
UNUSUAL FIRE AND EXPLOSION HAZARDS
Closed containers may explode when exposed to extreme heat.
Application to hot surfaces requires special precautions.
During emergency conditions overexposure to decomposition products may cause a health hazard. Symptoms may not be immediately apparent. Obtain medical attention.
SPECIAL FIRE FIGHTING PROCEDURES
Full protective equipment including self-contained breathing apparatus should be used.
Water spray may be ineffective. If water is used, fog nozzles are preferable. Water may be used to cool closed containers to prevent pressure build-up and possible autoignition or explosion when exposed to extreme heat.

SECTION 6 — ACCIDENTAL RELEASE MEASURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED
- Remove all sources of ignition. Ventilate the area.
- Remove with inert absorbent.

SECTION 7 — HANDLING AND STORAGE

STORAGE CATEGORY
DOL Storage Class II
PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE
Contents are COMBUSTIBLE. Keep away from heat and open flame.
Consult NFPA Code. Use approved Bonding and Grounding procedures.
Keep container closed when not in use. Transfer only to approved containers with complete and appropriate labeling. Do not take internally. Keep out of the reach of children.

SECTION 8 — EXPOSURE CONTROLS/PERSONAL PROTECTION

PRECAUTIONS TO BE TAKEN IN USE
Use only with adequate ventilation.
Avoid contact with skin and eyes. Avoid breathing vapor and spray mist.
Wash hands after using.
This coating may contain materials classified as nuisance particulates (listed "as Dust" in Section 2) which may be present at hazardous levels only during sanding or abrading of the dried film. If no specific dusts are listed in Section 2, the applicable limits for nuisance dusts are ACGIH TLV 10 mg/m3 (total dust), 3 mg/m3 (respirable fraction), OSHA PEL 15 mg/m3 (total dust), 5 mg/m3 (respirable fraction).
VENTILATION
Local exhaust preferable. General exhaust acceptable if the exposure to materials in Section 2 is maintained below applicable exposure limits. Refer to OSHA Standards 1910.94, 1910.107, 1910.108.
RESPIRATORY PROTECTION
If personal exposure cannot be controlled below applicable limits by ventilation, wear a properly fitted organic vapor/particulate respirator approved by NIOSH/MSHA for protection against materials in Section 2.
When sanding or abrading the dried film, wear a dust/mist respirator approved by NIOSH/MSHA for dust which may be generated from this product, underlying paint, or the abrasive.
PROTECTIVE GLOVES
Wear gloves which are recommended by glove supplier for protection against materials in Section 2.
EYE PROTECTION
Wear safety spectacles with unperforated sideshields.
OTHER PRECAUTIONS
Intentional misuse by deliberately concentrating and inhaling the contents can be harmful or fatal.

SECTION 9 — PHYSICAL AND CHEMICAL PROPERTIES

PRODUCT WEIGHT	8.39 lb/gal	1004 g/l
SPECIFIC GRAVITY	1.01	
BOILING POINT	300 - 395° F	148 - 201° C
MELTING POINT	Not Available	
VOLATILE VOLUME	56%	
EVAPORATION RATE	Slower than ether	
VAPOR DENSITY	Heavier than air	
SOLUBILITY IN WATER	N.A.	

VOLATILE ORGANIC COMPOUNDS (VOC Theoretical - As Packaged)

3.64lb/gal	436g/l	Less Water and Federally Exempt Solvents
3.64lb/gal	436g/l	Emitted VOC

SECTION 10 — STABILITY AND REACTIVITY

STABILITY — Stable

CONDITIONS TO AVOID

None known.

INCOMPATIBILITY

None known.

HAZARDOUS DECOMPOSITION PRODUCTS

By fire: Carbon Dioxide, Carbon Monoxide , Oxides of Nitrogen, possibility of Hydrogen Cyanide

HAZARDOUS POLYMERIZATION

Will not occur

SECTION 11 — TOXICOLOGICAL INFORMATION

CHRONIC HEALTH HAZARDS

Reports have associated repeated and prolonged overexposure to solvents with permanent brain and nervous system damage.

Ethylbenzene is classified by IARC as possibly carcinogenic to humans (2B) based on inadequate evidence in humans and sufficient evidence in laboratory animals. Lifetime inhalation exposure of rats and mice to high ethylbenzene concentrations resulted in increases in certain types of cancer, including kidney tumors in rats and lung and liver tumors in mice. These effects were not observed in animals exposed to lower concentrations. There is no evidence that ethylbenzene causes cancer in humans.

IARC's Monograph No. 93 reports there is sufficient evidence of carcinogenicity in experimental rats exposed to titanium dioxide but inadequate evidence for carcinogenicity in humans and has assigned a Group 2B rating. In addition, the IARC summary concludes, "No significant exposure to titanium dioxide is thought to occur during the use of products in which titanium is bound to other materials, such as paint."

TOXICOLOGY DATA

CAS No.	Ingredient Name			
64742-88-7	**Mineral Spirits**			
		LC50 RAT	4HR	Not Available
		LD50 RAT		Not Available
100-41-4	**Ethylbenzene**			
		LC50 RAT	4HR	Not Available
		LD50 RAT		3500 mg/kg
13463-67-7	**Titanium Dioxide**			
		LC50 RAT	4HR	Not Available
		LD50 RAT		Not Available

SECTION 12 — ECOLOGICAL INFORMATION

ECOTOXICOLOGICAL INFORMATION

No data available.

SECTION 13 — DISPOSAL CONSIDERATIONS

WASTE DISPOSAL METHOD

Waste from this product may be hazardous as defined under the Resource Conservation and Recovery Act (RCRA) 40 CFR 261.

Waste must be tested for ignitability to determine the applicable EPA hazardous waste numbers.

Incinerate in approved facility. Do not incinerate closed container. Dispose of in accordance with Federal, State/Provincial, and Local regulations regarding pollution.

SECTION 14 — TRANSPORT INFORMATION

US Ground (DOT)
May be Classed as a Combustible Liquid for U.S. Ground.
UN1263, PAINT, 3, PG III, (ERG#128)
DOT (Dept of Transportation) Hazardous Substances & Reportable Quantities
Xylenes (isomers and mixture) 100 lb RQ
Bulk Containers may be Shipped as (check reportable quantities):
UN1263, PAINT, COMBUSTIBLE LIQUID, PG III, (ERG#128)
Canada (TDG)
May be Classed as a Combustible Liquid for Canadian Ground.
UN1263, PAINT, CLASS 3, PG III, (ERG#128)
IMO
UN1263, PAINT, CLASS 3, PG III, (38 C c.c.), EmS F-E, S-E

SECTION 15 — REGULATORY INFORMATION

SARA 313 *(40 CFR 372.65C)* SUPPLIER NOTIFICATION

CAS No.	CHEMICAL/COMPOUND	% by WT	% Element
100-41-4	Ethylbenzene	0.1	

CALIFORNIA PROPOSITION 65
WARNING: This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.
TSCA CERTIFICATION
All chemicals in this product are listed, or are exempt from listing, on the TSCA Inventory.

SECTION 16 — OTHER INFORMATION

This product has been classified in accordance with the hazard criteria of the Canadian Controlled Products Regulations (CPR) and the MSDS contains all of the information required by the CPR.

The above information pertains to this product as currently formulated, and is based on the information available at this time. Addition of reducers or other additives to this product may substantially alter the composition and hazards of the product. Since conditions of use are outside our control, we make no warranties, express or implied, and assume no liability in connection with any use of this information.

MATERIAL SAFETY DATA SHEET

B50NZ6
26 00

DATE OF PREPARATION
Mar 20, 2009

SECTION 1 — PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NUMBER
B50NZ6

PRODUCT NAME
KEM KROMIK® Universal Metal Primer (VOC Comp.), Brown

MANUFACTURER'S NAME
THE SHERWIN-WILLIAMS COMPANY
101 Prospect Avenue N.W.
Cleveland, OH 44115

Telephone Numbers and Websites

Product Information	www.sherwin-williams.com
Regulatory Information	(216) 566-2902 www.paintdocs.com
Medical Emergency	(216) 566-2917
Transportation Emergency*	(800) 424-9300
**for Chemical Emergency ONLY (spill, leak, fire, exposure, or accident)*	

SECTION 2 — COMPOSITION/INFORMATION ON INGREDIENTS

% by Weight	CAS Number	Ingredient	Units	Vapor Pressure
5	108-88-3	**Toluene**		
		ACGIH TLV	20 PPM	22 mm
		OSHA PEL	100 PPM (Skin)	
		OSHA PEL	150 PPM (Skin) STEL	
2	100-41-4	**Ethylbenzene**		
		ACGIH TLV	100 PPM	7.1 mm
		ACGIH TLV	125 PPM STEL	
		OSHA PEL	100 PPM	
		OSHA PEL	125 PPM STEL	
10	1330-20-7	**Xylene**		
		ACGIH TLV	100 PPM	5.9 mm
		ACGIH TLV	150 PPM STEL	
		OSHA PEL	100 PPM	
		OSHA PEL	150 PPM STEL	
1	64742-95-6	**Light Aromatic Hydrocarbons**		
		ACGIH TLV	Not Available	3.8 mm
		OSHA PEL	Not Available	
2	95-63-6	**1,2,4-Trimethylbenzene**		
		ACGIH TLV	25 PPM	2.03 mm
		OSHA PEL	25 PPM	
4	108-94-1	**Cyclohexanone**		
		ACGIH TLV	25 PPM (Skin)	2 mm
		OSHA PEL	25 PPM (Skin)	
0.2	14808-60-7	**Quartz**		
		ACGIH TLV	0.025 mg/m3 as Resp. Dust	
		OSHA PEL	0.1 mg/m3 as Resp. Dust	
4	14807-96-6	**Talc**		
		ACGIH TLV	2 mg/m3 as Resp. Dust	
		OSHA PEL	2 mg/m3 as Resp. Dust	
42	471-34-1	**Calcium Carbonate**		
		ACGIH TLV	10 mg/m3 as Dust	
		OSHA PEL	15 mg/m3 Total Dust	
		OSHA PEL	5 mg/m3 Respirable Fraction	
1	13463-67-7	**Titanium Dioxide**		
		ACGIH TLV	10 mg/m3 as Dust	
		OSHA PEL	10 mg/m3 Total Dust	
		OSHA PEL	5 mg/m3 Respirable Fraction	
0.1	1333-86-4	**Carbon Black**		
		ACGIH TLV	3.5 MG/M3	
		OSHA PEL	3.5 MG/M3	

SECTION 3 — HAZARDS IDENTIFICATION

HMIS Codes

Health	2*
Flammability	3
Reactivity	0

ROUTES OF EXPOSURE

INHALATION of vapor or spray mist.
EYE or SKIN contact with the product, vapor or spray mist.

EFFECTS OF OVEREXPOSURE

EYES: Irritation.
SKIN: Prolonged or repeated exposure may cause irritation.
INHALATION: Irritation of the upper respiratory system.

May cause nervous system depression. Extreme overexposure may result in unconsciousness and possibly death.
Prolonged overexposure to solvent ingredients in Section 2 may cause adverse effects to the liver, urinary, cardiovascular and reproductive systems.

SIGNS AND SYMPTOMS OF OVEREXPOSURE

Headache, dizziness, nausea, and loss of coordination are indications of excessive exposure to vapors or spray mists.
Redness and itching or burning sensation may indicate eye or excessive skin exposure.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE

None generally recognized.

CANCER INFORMATION

For complete discussion of toxicology data refer to Section 11.

SECTION 4 — FIRST AID MEASURES

EYES: Flush eyes with large amounts of water for 15 minutes. Get medical attention.
SKIN: Wash affected area thoroughly with soap and water.
Remove contaminated clothing and launder before re-use.
INHALATION: If affected, remove from exposure. Restore breathing. Keep warm and quiet.
INGESTION: Do not induce vomiting. Get medical attention immediately.

SECTION 5 — FIRE FIGHTING MEASURES

FLASH POINT	LEL	UEL	FLAMMABILITY CLASSIFICATION
80 °F PMCC	0.7	8.1	RED LABEL -- Flammable, Flash below 100 °F (38 °C)

EXTINGUISHING MEDIA
Carbon Dioxide, Dry Chemical, Foam
UNUSUAL FIRE AND EXPLOSION HAZARDS
Closed containers may explode when exposed to extreme heat.
Application to hot surfaces requires special precautions.
During emergency conditions overexposure to decomposition products may cause a health hazard. Symptoms may not be immediately apparent. Obtain medical attention.
SPECIAL FIRE FIGHTING PROCEDURES
Full protective equipment including self-contained breathing apparatus should be used.
Water spray may be ineffective. If water is used, fog nozzles are preferable. Water may be used to cool closed containers to prevent pressure build-up and possible autoignition or explosion when exposed to extreme heat.

SECTION 6 — ACCIDENTAL RELEASE MEASURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED
- Remove all sources of ignition. Ventilate the area.
- Remove with inert absorbent.

SECTION 7 — HANDLING AND STORAGE

STORAGE CATEGORY
DOL Storage Class IC
PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE
Contents are FLAMMABLE. Keep away from heat, sparks, and open flame.
During use and until all vapors are gone: Keep area ventilated - Do not smoke - Extinguish all flames, pilot lights, and heaters - Turn off stoves, electric tools and appliances, and any other sources of ignition.
Consult NFPA Code. Use approved Bonding and Grounding procedures.
Keep container closed when not in use. Transfer only to approved containers with complete and appropriate labeling. Do not take internally. Keep out of the reach of children.

SECTION 8 — EXPOSURE CONTROLS/PERSONAL PROTECTION

PRECAUTIONS TO BE TAKEN IN USE
Use only with adequate ventilation.
Avoid contact with skin and eyes. Avoid breathing vapor and spray mist.
Wash hands after using.
This coating may contain materials classified as nuisance particulates (listed "as Dust" in Section 2) which may be present at hazardous levels only during sanding or abrading of the dried film. If no specific dusts are listed in Section 2, the applicable limits for nuisance dusts are ACGIH TLV 10 mg/m3 (total dust), 3 mg/m3 (respirable fraction), OSHA PEL 15 mg/m3 (total dust), 5 mg/m3 (respirable fraction).
VENTILATION
Local exhaust preferable. General exhaust acceptable if the exposure to materials in Section 2 is maintained below applicable exposure limits. Refer to OSHA Standards 1910.94, 1910.107, 1910.108.
RESPIRATORY PROTECTION
If personal exposure cannot be controlled below applicable limits by ventilation, wear a properly fitted organic vapor/particulate respirator approved by NIOSH/MSHA for protection against materials in Section 2.
When sanding or abrading the dried film, wear a dust/mist respirator approved by NIOSH/MSHA for dust which may be generated from this product, underlying paint, or the abrasive.
PROTECTIVE GLOVES
Wear gloves which are recommended by glove supplier for protection against materials in Section 2.
EYE PROTECTION
Wear safety spectacles with unperforated sideshields.
OTHER PRECAUTIONS
Intentional misuse by deliberately concentrating and inhaling the contents can be harmful or fatal.

SECTION 9 — PHYSICAL AND CHEMICAL PROPERTIES

PRODUCT WEIGHT	12.64 lb/gal	1514 g/l
SPECIFIC GRAVITY	1.52	
BOILING POINT	222 - 360 °F	105 - 182 °C
MELTING POINT	Not Available	
VOLATILE VOLUME	47%	
EVAPORATION RATE	Slower than ether	
VAPOR DENSITY	Heavier than air	
SOLUBILITY IN WATER	N.A.	

VOLATILE ORGANIC COMPOUNDS (VOC Theoretical - As Packaged)

3.46lb/gal	414g/l	Less Water and Federally Exempt Solvents
3.46lb/gal	414g/l	Emitted VOC

SECTION 10 — STABILITY AND REACTIVITY

STABILITY — Stable

CONDITIONS TO AVOID

None known.

INCOMPATIBILITY

None known.

HAZARDOUS DECOMPOSITION PRODUCTS

By fire: Carbon Dioxide, Carbon Monoxide

HAZARDOUS POLYMERIZATION

Will not occur

SECTION 11 — TOXICOLOGICAL INFORMATION

CHRONIC HEALTH HAZARDS

Reports have associated repeated and prolonged overexposure to solvents with permanent brain and nervous system damage.

Ethylbenzene is classified by IARC as possibly carcinogenic to humans (2B) based on inadequate evidence in humans and sufficient evidence in laboratory animals. Lifetime inhalation exposure of rats and mice to high ethylbenzene concentrations resulted in increases in certain types of cancer, including kidney tumors in rats and lung and liver tumors in mice. These effects were not observed in animals exposed to lower concentrations. There is no evidence that ethylbenzene causes cancer in humans.

Crystalline Silica (Quartz, Cristobalite) is listed by IARC and NTP. Long term exposure to high levels of silica dust, which can occur only when sanding or abrading the dry film, may cause lung damage (silicosis) and possibly cancer.

IARC's Monograph No. 93 reports there is sufficient evidence of carcinogenicity in experimental rats exposed to titanium dioxide but inadequate evidence for carcinogenicity in humans and has assigned a Group 2B rating. In addition, the IARC summary concludes, "No significant exposure to titanium dioxide is thought to occur during the use of products in which titanium is bound to other materials, such as paint."

Carbon Black is classified by IARC as possibly carcinogenic to humans (group 2B) based on experimental animal data, however, there is insufficient evidence in humans for its carcinogenicity.

TOXICOLOGY DATA

CAS No.	Ingredient Name			
108-88-3	Toluene			
		LC50 RAT	4HR	4000 ppm
		LD50 RAT		5000 mg/kg
100-41-4	Ethylbenzene			
		LC50 RAT	4HR	Not Available
		LD50 RAT		3500 mg/kg
1330-20-7	Xylene			
		LC50 RAT	4HR	5000 ppm
		LD50 RAT		4300 mg/kg
64742-95-6	Light Aromatic Hydrocarbons			
		LC50 RAT	4HR	Not Available
		LD50 RAT		Not Available
95-63-6	1,2,4-Trimethylbenzene			
		LC50 RAT	4HR	Not Available
		LD50 RAT		Not Available
108-94-1	Cyclohexanone			
		LC50 RAT	4HR	8000 ppm
		LD50 RAT		1535 mg/kg
14808-60-7	Quartz			
		LC50 RAT	4HR	Not Available
		LD50 RAT		Not Available
14807-96-6	Talc			
		LC50 RAT	4HR	Not Available
		LD50 RAT		Not Available
471-34-1	Calcium Carbonate			
		LC50 RAT	4HR	Not Available
		LD50 RAT		Not Available
13463-67-7	Titanium Dioxide			
		LC50 RAT	4HR	Not Available
		LD50 RAT		Not Available
1333-86-4	Carbon Black			
		LC50 RAT	4HR	Not Available
		LD50 RAT		Not Available

SECTION 12 — ECOLOGICAL INFORMATION

ECOTOXICOLOGICAL INFORMATION

No data available.

SECTION 13 — DISPOSAL CONSIDERATIONS

WASTE DISPOSAL METHOD

Waste from this product may be hazardous as defined under the Resource Conservation and Recovery Act (RCRA) 40 CFR 261.
Waste must be tested for ignitability to determine the applicable EPA hazardous waste numbers.
Incinerate in approved facility. Do not incinerate closed container. Dispose of in accordance with Federal, State/Provincial, and Local regulations regarding pollution.

SECTION 14 — TRANSPORT INFORMATION

US Ground (DOT)

1 Gallon and Less may be Classed as CONSUMER COMMODITY, ORM-D
Larger Containers are Regulated as:
UN1263, PAINT, 3, PG III, (ERG#128)

DOT (Dept of Transportation) Hazardous Substances & Reportable Quantities

Toluene 1000 lb RQ
Xylenes (isomers and mixture) 100 lb RQ

Bulk Containers may be Shipped as (check reportable quantities):

RQ, UN1263, PAINT, 3, PG III, (XYLENES (ISOMERS AND MIXTURE)), (ERG#128)

Canada (TDG)

UN1263, PAINT, CLASS 3, PG III, LIMITED QUANTITY, (ERG#128)

IMO

UN1263, PAINT, CLASS 3, PG III, (27 C c.c.), EmS F-E, S-E

SECTION 15 — REGULATORY INFORMATION

SARA 313 *(40 CFR 372.65C)* SUPPLIER NOTIFICATION

CAS No.	CHEMICAL/COMPOUND	% by WT	% Element
108-88-3	Toluene	5	
100-41-4	Ethylbenzene	2	
1330-20-7	Xylene	10	
95-63-6	1,2,4-Trimethylbenzene	2	
	Zinc Compound	3	1.6

CALIFORNIA PROPOSITION 65

WARNING: This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.

TSCA CERTIFICATION

All chemicals in this product are listed, or are exempt from listing, on the TSCA Inventory.

SECTION 16 — OTHER INFORMATION

This product has been classified in accordance with the hazard criteria of the Canadian Controlled Products Regulations (CPR) and the MSDS contains all of the information required by the CPR.

The above information pertains to this product as currently formulated, and is based on the information available at this time. Addition of reducers or other additives to this product may substantially alter the composition and hazards of the product. Since conditions of use are outside our control, we make no warranties, express or implied, and assume no liability in connection with any use of this information.

ITW Polymer Technologies

View MSDS : 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16

SECTION 1 - PRODUCT AND COMPANY IDENTIFICATION

Product Name:	AS-150/NS-100 YELLOW
MSDS Manufacturer Number:	AS104R
Manufacturer Name:	ITW Polymer Technologies
Address:	130 Commerce Drive Montgomeryville, PA 18936
General Phone Number:	(215) 855-8450
Emergency Phone Number:	(215) 855-8450
CHEMTREC:	For emergencies in the US, call CHEMTREC: 800-424-9300
Canutec:	In Canada, call CANUTEC: (613) 996-6666 (call collect)
MSDS Revision Date:	12/15/2006

HMIS

Health Hazard	1
Fire Hazard	3
REACTIVITY	1
Personal Protection	X

* Chronic Health Effects:

SECTION 2 - COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS#	Ingredient Percent
Xylene	1330-20-7	5 - 10 by weight
1-methoxy-2-propanol	107-98-2	5 - 10 by weight
Natural wollastonite	13983-17-0	1 - 5 by weight
Aluminum oxide	1344-28-1	5 - 10 by weight
Silicon carbide	409-21-2	5 - 10 by weight
Nepheline syenite	37244-96-5	10 - 30 by weight
Glass oxide	65997-17-3	1 - 5 by weight
Silica, crystalline (quartz)	14808-60-7	10 - 30 by weight
Ethylbenzene	100-41-4	1 - 5 by weight
Sulfur	7704-34-9	1 - 5 by weight
Titanium dioxide	13463-67-7	1 - 5 by weight
Amorphous Silica, Fused	60676-86-0	1 - 5 by weight
Nickel Oxide (Nickel Compound as NiO)	1313-99-1	0.1 - 1 by weight

SECTION 3 - HAZARDS IDENTIFICATION

Emergency Overview:	DANGER! Flammable. Irritant.
Route of Exposure:	Eyes. Skin. Inhalation. Ingestion.
Potential Health Effects:	
Eye:	May cause irritation.
Skin:	May cause irritation.
Inhalation:	Prolonged or excessive inhalation may cause respiratory tract irritation.

Ingestion:	May be harmful if swallowed. May cause vomiting.
Chronic Health Effects:	Prolonged or repeated contact may cause skin irritation.
Signs/Symptoms:	Overexposure may cause headaches and dizziness.
Target Organs:	Eyes. Skin. Respiratory system. Digestive system. Central nervous system.
Aggravation of Pre-Existing Conditions:	None generally recognized.

SECTION 4 - FIRST AID MEASURES

Eye Contact:	Immediately flush eyes with plenty of water for at least 15 to 20 minutes. Ensure adequate flushing of the eyes by separating the eyelids with fingers. Get immediate medical attention.
Skin Contact:	Immediately wash skin with plenty of soap and water for 15 to 20 minutes, while removing contaminated clothing and shoes. Get medical attention if irritation develops or persists.
Inhalation:	If inhaled, remove to fresh air. If not breathing, give artificial respiration or give oxygen by trained personnel. Seek immediate medical attention.
Ingestion:	If swallowed, do NOT induce vomiting. Call a physician or poison control center immediately. Never give anything by mouth to an unconscious person.
Other First Aid:	Due to possible aspiration into the lungs, DO NOT induce vomiting if ingested. Provide a glass of water to dilute the material in the stomach. If vomiting occurs naturally, have the person lean forward to reduce the risk of aspiration.

SECTION 5 - FIRE FIGHTING MEASURES

Flammable Properties:	Flammable.
Flash Point:	>81 °F
Auto Ignition Temperature:	Not determined.
Lower Flammable/Explosive Limit:	Not determined.
Upper Flammable/Explosive Limit:	Not determined.
Fire Fighting Instructions:	Evacuate area of unprotected personnel. Use cold water spray to cool fire exposed containers to minimize risk of rupture. Do not enter confined fire space without full protective gear. If possible, contain fire run-off water.
Extinguishing Media:	Use carbon dioxide (CO2) or dry chemical when fighting fires involving this material.
Protective Equipment:	As in any fire, wear Self-Contained Breathing Apparatus (SCBA), MSHA/NIOSH (approved or equivalent) and full protective gear.
Unusual Fire Hazards:	Sealed containers at elevated temperatures may rupture explosively and spread fire due to polymerization. Heating above 300 deg F in the presence of air may cause slow oxidative decomposition and above 500 deg F may cause polymerization.

SECTION 6 - ACCIDENTAL RELEASE MEASURES

Personnel Precautions:	Evacuate area and keep unnecessary and unprotected personnel from entering the spill area.
Environmental Precautions:	Avoid runoff into storm sewers, ditches, and waterways.
Spill Cleanup Measures:	Absorb spill with inert material (e,g., dry sand or earth), then place in a chemical waste container. Provide ventilation. Collect spill with a non-sparking tool. Place into a suitable container for disposal. Clean up spills immediately observing precautions in the protective equipment section. After removal, flush spill area with soap and water to remove trace residue. Flammable, eliminate ignition sources. Vapors can form an ignitable mixture with air. . Vapors can flow along surfaces to distant ignition sources and flash back. Ventilate area. Use proper personal protective equipment as listed in section 8.
Other Precautions:	Pump or shovel to storage/salvage vessels.

SECTION 7 - HANDLING and STORAGE

Handling:	Use with adequate ventilation. Avoid breathing vapor, aerosol or mist. Material will accumulate static charges which may cause an electrical spark (ignition source). Use proper grounding procedures. Do not reuse containers without proper cleaning or reconditioning.
Storage:	Store in a cool, dry, well ventilated area away from sources of heat, combustible materials, direct sunlight, and incompatible substances. Keep container tightly closed when not in use.
Special Handling Procedures:	Hazardous liquid or vapor residue may remain in emptied container. Do not reuse, heat, burn, pressurize, cut, weld, braze, solder, drill, grind, expose to sparks, flame, or ignition sources of empty containers without proper commercial cleaning or reconditioning.
Hygiene Practices:	Wash thoroughly after handling.

SECTION 8 - EXPOSURE CONTROLS, PERSONAL PROTECTION - EXPOSURE GUIDELINES

Engineering Controls:	Use appropriate engineering control such as process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below recommended exposure limits. Good general ventilation should be sufficient to control airborne levels. Where such systems are not effective wear suitable personal protective equipment, which performs satisfactorily and meets OSHA or other recognized standards. Consult with local procedures for selection, training, inspection and maintenance of the personal protective equipment.
Eye/Face Protection:	Wear appropriate protective glasses or splash goggles as described by 29 CFR 1910.133, OSHA eye and face protection regulation, or the European standard EN 166.
Skin Protection Description:	Wear appropriate protective gloves and other protective apparel to prevent skin contact. Consult manufacturer's data for permeability data.
Respiratory Protection:	A NIOSH approved air-purifying respirator with an organic vapor cartridge or canister may be permissible under certain circumstances where airborne concentrations are expected to exceed exposure limits. Protection provided by air purifying respirators is limited. Use a positive pressure air supplied respirator if there is any potential for an uncontrolled release, exposure levels are not known, or any other circumstances where air purifying respirators may not provide adequate protection.
Other Protective:	Facilities storing or utilizing this material should be equipped with an eyewash and a deluge shower safety station.

EXPOSURE GUIDELINES

Xylene :	
Guideline ACGIH:	ACGIH TLV-TWA 100 ppm
1-methoxy-2-propanol :	
Guideline ACGIH:	ACGIH TLV-TWA 100 ppm
Aluminum oxide :	
Guideline ACGIH:	ACGIH TLV-TWA 10 mg/m3
Guideline OSHA:	OSHA PEL-TWA 5 mg/m3
Silicon carbide :	
Guideline ACGIH:	ACGIH TLV-TWA 0.1 f/cc (fiberous form)
Guideline OSHA:	OSHA PEL-TWA 15 mg/m3
Silica, crystalline (quartz) :	
Guideline ACGIH:	ACGIH TLV-TWA 0.025 mg/m3
Guideline OSHA:	OSHA PEL-TWA [10 mg/m3]/[{% SiO2} + 2]
Ethylbenzene :	
Guideline ACGIH:	ACGIH TLV-TWA 100 ppm
Guideline OSHA:	OSHA PEL-TWA 100 ppm
Titanium dioxide :	
Guideline ACGIH:	ACGIH TLV-TWA 10 mg/m3

Notes :	Only established PEL and TLV values for the ingredients are listed.

SECTION 9 - PHYSICAL and CHEMICAL PROPERTIES

Physical State Appearance:	Paste.
Color:	Yellow
Boiling Point:	>240 °F
Melting Point:	Not determined.
Vapor Density:	3.7
Vapor Pressure:	8 mmHg
Evaporation Rate:	0.7
pH:	Not determined.
Molecular Formula:	Mixture
Molecular Weight:	Mixture
Flash Point:	>81 °F
Auto Ignition Temperature:	Not determined.
VOC Content:	2.8 lbs/gal (340 g/l)
Percent Solids by Weight	

SECTION 10 - STABILITY and REACTIVITY

Chemical Stability:	Stable under normal temperatures and pressures.
Hazardous Polymerization:	Not reported.
Conditions to Avoid:	Extreme heat, sparks, and open flame. Incompatible materials, oxidizers and oxidizing conditions.
Incompatible Materials:	Oxidizing agents. Strong acids and alkalis.

SECTION 11 - TOXICOLOGICAL INFORMATION

Xylene :

Eye:	Eye - Rabbit Standard Draize Test.: 5 mg/24H (RTECS)
Skin:	Rabbit Standard Draize Test.: 500 mg/24H (RTECS) Rabbit LD50: >1700 mg/kg [Details of toxic effects not reported other than lethal dose value.](RTECS) Rat TDLo: 920 uL/kg/1H [Skin and Appendages - primary irritation (after topical exposure)](RTECS)
Inhalation:	Inhalation. - Rat LC50: 5000 ppm/4H [Details of toxic effects not reported other than lethal dose value.] (RTECS)
Ingestion:	Oral - Rat LD50: 4300 mg/kg [Liver - other changes; Kidney/Ureter/Bladder - other changes] (RTECS) Oral - Mouse LD50: 2119 mg/kg [Details of toxic effects not reported other than lethal dose value.] (RTECS)

1-methoxy-2-propanol :

Eye:	Eye - Rabbit Standard Draize Test.: 500 mg/24H - [mild] (RTECS)
Skin:	Rabbit Open irritation test -: 500 mg - [mild] (RTECS) Rabbit LD50: 13 gm/kg - [Details of toxic effects not reported other than lethal dose value.](RTECS)
Inhalation:	Inhalation. - Rat LC50: 10000 ppm/5H - [Details of toxic effects not reported other than lethal dose value.] (RTECS)
Ingestion:	Oral - Rat LD50: 6600 mg/kg - [Brain and Coverings - other rat changes oral - general anesthetic Lungs, Thorax, or rat - dyspnea] (RTECS) Oral - Mouse LD50: 11700 mg/kg - [oral - convulsions or effect on seizure threshold oral - ataxia Lungs, Thorax, or rat - dyspnea] (RTECS)

Silica, crystalline (quartz) :

Inhalation:	Inhalation. - Rat TCLo - Lowest published toxic concentration: 1 mg/kg - [Lungs, Thorax, or Respiration - other changes Biochemical - Metabolism (Intermediary) - effect on inflammation or mediation of inflammation] (RTECS)
Ingestion:	Oral - Rat TDLo - Lowest published toxic dose: 120 gm/kg - [Gastrointestinal - hypermotility, diarrhea Gastrointestinal - other changes] (RTECS)
Carcinogenicity:	IARC: Group 1: Carcinogenic to humans. NTP: Reasonably anticipated to be a human carcinogen.

Ethylbenzene :

Eye:	Eye - Rabbit Standard Draize Test.: 500 mg (RTECS)
Skin:	Rabbit Open irritation test -: 15 mg/24H (RTECS) Rabbit LD50: 17800 uL/kg [Details of toxic effects not reported other than lethal dose value.](RTECS)
Inhalation:	Inhalation. - Rat LC50: 55000 mg/m3/2H [Details of toxic effects not reported other than lethal dose value.] (RTECS) Inhalation. - Mouse LC50: 35500 mg/m3/2H [Details of toxic effects not reported other than lethal dose value.] (RTECS)
Ingestion:	Oral - Rat LD50: 3500 mg/kg [Details of toxic effects not reported other than lethal dose value.] (RTECS)
Carcinogenicity:	IARC: Group 2B: Possibly carcinogenic to humans.

Sulfur :

Eye:	Eye - Human Standard Draize Test. : 8 ppm (RTECS)
Inhalation:	Inhalation. - Mammal species unspecified LC50: 1660 mg/m3 - [Details of toxic effects not reported other than lethal dose value.(RTECS)
Ingestion:	Oral - Human LDLo: 0.17 gm/kg - [Details of toxic effects not reported other than lethal dose value. (RTECS)

Titanium dioxide :

Skin:	Administration onto the skin - Human Standard Draize Test.: 300 ug/3D (intermittent) (RTECS)
Inhalation:	Inhalation. - Rat TCLo - Lowest published toxic concentration: 1 mg/kg - [Lungs, Thorax, or Respiration - other changes Biochemical - Metabolism (Intermediary) - effect on inflammation or mediation of inflammation] (RTECS)
Ingestion:	Oral - Rat TDLo - Lowest published toxic dose: 60 gm/kg - [Gastrointestinal - hypermotility, diarrhea Gastrointestinal - other changes] (RTECS)
Carcinogenicity:	IARC: Group 2B: Possibly carcinogenic to humans. NTP: Reasonably anticipated to be a human carcinogen.

Nickel Oxide (Nickel Compound as NiO) :

Ingestion:	Oral - Rat LDLo: 5 gm/kg [Details of toxic effects not reported other than lethal dose value.] (RTECS)
Carcinogenicity:	NTP: Reasonably anticipated to be a human carcinogen.

SECTION 12 - ECOLOGICAL INFORMATION

Ecotoxicity:	No ecotoxicity data was found for the product.
Environmental Fate:	No environmental information found for this product.

SECTION 13 - DISPOSAL CONSIDERATIONS

Waste Disposal:	Consult with the US EPA Guidelines listed in 40 CFR Part 261.3 for the classifications of hazardous waste prior to disposal. Furthermore, consult with your state and local waste requirements or guidelines, if applicable, to ensure compliance. Arrange disposal in accordance to the EPA and/or state and local guidelines.
RCRA Number:	D001
Important Disposal Information:	DANGER! Rags, steel wool and waste soaked with this product may spontaneously catch fire if improperly discarded or stored. To avoid a spontaneous combustion fire, immediately after use, place rags, steel wool or waste in a sealed, water-filled, metal container.

SECTION 14 - TRANSPORT INFORMATION

DOT Shipping Name:	Paint
DOT UN Number:	UN1263
DOT Hazard Class:	3
DOT Packing Group:	III

SECTION 15 - REGULATORY INFORMATION

Xylene :

TSCA Inventory Status:	Listed
SARA:	EPCRA - 40 CFR Part 372 - (SARA Title III) Section 313 Listed Chemical.
State Regulations:	Listed in the State of Massachusetts Hazardous Substance List. Listed in the New Jersey State Right to Know List. Listed in the Pennsylvania State Hazardous Substances List.

1-methoxy-2-propanol :

TSCA Inventory Status:	Listed
State Regulations:	Listed in the State of Massachusetts Hazardous Substance List. Listed in the Pennsylvania State Hazardous Substances List.

Aluminum oxide :

TSCA Inventory Status:	Listed
SARA:	EPCRA - 40 CFR Part 372 - (SARA Title III) Section 313 Listed Chemical.
State Regulations:	Listed in the State of Massachusetts Hazardous Substance List. Listed in the New Jersey State Right to Know List. Listed in the Pennsylvania State Hazardous Substances List.

Silicon carbide :

TSCA Inventory Status:	Listed
State Regulations:	Listed in the State of Massachusetts Hazardous Substance List. Listed in the Pennsylvania State Hazardous Substances List.

Glass oxide :

TSCA Inventory Status:	Listed

Silica, crystalline (quartz) :

TSCA Inventory Status:	Listed
State Regulations:	Listed in the State of Massachusetts Hazardous Substance List. Listed in the Pennsylvania State Hazardous Substances List.

Ethylbenzene :

TSCA Inventory Status:	Listed
SARA:	EPCRA - 40 CFR Part 372 - (SARA Title III) Section 313 Listed Chemical.
State Regulations:	Listed in the State of Massachusetts Hazardous Substance List. Listed in the New Jersey State Right to Know List. Listed in the Pennsylvania State Hazardous Substances List.

Sulfur :

State Regulations:	Listed in the State of Massachusetts Hazardous Substance List. Listed in the Pennsylvania State Hazardous Substances List.

Titanium dioxide :

TSCA Inventory Status:	Listed
State Regulations:	Listed in the State of Massachusetts Hazardous Substance List. Listed in the Pennsylvania State Hazardous Substances List.

Amorphous Silica, Fused :

TSCA Inventory Status:	Listed
State Regulations:	Listed in the State of Massachusetts Hazardous Substance List.

Nickel Oxide (Nickel Compound as NiO) :

State Regulations:	Listed in the State of Massachusetts Hazardous Substance List. Listed in the Pennsylvania State Hazardous Substances List.
Canadian Regulations.	WHMIS Hazard Class(es): B2 All components of this product are on the Canadian Domestic Substances List.

WHMIS Pictograms

SECTION 16 - ADDITIONAL INFORMATION

HMIS Fire Hazard:	3
HMIS Health Hazard:	1
HMIS Reactivity:	1
HMIS Personal Protection:	X
MSDS Revision Date:	12/15/2006
MSDS Author:	Actio Corporation
Disclaimer:	This Health and Safety Information is correct to the best of our knowledge and belief at the date of its publication but we cannot accept liability for any loss, injury or damage which may result from its use. The information given in the Data Sheet is designed only as a guidance for safe handling, storage and the use of the substance. It is not a specification nor does it guarantee any specific properties. All chemicals should be handled only by competent personnel, within a controlled environment.

ITEM: 5U705 - Spray Primer Flat Gray 15 Oz

PICK_REQ: 1078142790 **MATERIAL SAFETY DATA SHEET (MSDS)** **MSDS: B0793**

This MSDS should be attached or kept with the respective product with which it is associated.

MATERIAL SAFETY DATA SHEET - B0793

Associated Grainger Item: 5U705 - Spray Primer Flat Gray 15 Oz

MATERIAL SAFETY DATA SHEET

24 HOUR ASSISTANCE: 1-847-367-7700

RUST-OLEUM CORP.

WWW.RUSTOLEUM.COM

SECTION 1 - CHEMICAL PRODUCT / COMPANY INFORMATION

PRODUCT NAME:
RUST-OLEUM HIGH PERFORMANCE INDUSTRIAL ENAMEL AEROSOL - PRIMERS (HARD HAT)

IDENTIFICATION NUMBER: 209566, V2169838, V2182838

PRODUCT USE/CLASS: PRIMER/AEROSOL

SUPPLIER:
RUST-OLEUM CORPORATION
11 HAWTHORN PARKWAY
VERNON HILLS, IL 60061
USA

PREPARER: REGULATORY DEPARTMENT

REVISION DATE: 11/21/2006

MANUFACTURER:
RUST-OLEUM CORPORATION
11 HAWTHORN PARKWAY
VERNON HILLS, IL 60061
USA

SECTION 2 - COMPOSITION / INFORMATION ON INGREDIENTS

CHEMICAL NAME	CAS NUMBER	WEIGHT % LESS THAN	ACGIH TLV-TWA	ACGIH TLV-STEL	OSHA PEL-TWA	OSHA PEL-CEILING
LIQUEFIED PETROLEUM GAS	68476-86-8	30.0	1000 PPM	N.E	1000 PPM	N.E
ACETONE	67-64-1	25.0	500 PPM	750 PPM	750 PPM	N.E
MAGNESIUM SILICATE	14807-96-6	10.0	10 MG/M3	N.E.	15 MG/M3	N.E.
XYLENE	1330-20-7	10.0	100 PPM	150 PPM	100 PPM	N.E.
TITANIUM DIOXIDE	13463-67-7	10.0	10 MG/M3	N.E	10 MG/M3	N.E.
STODDARD SOLVENTS	8052-41-3	10.0	100 PPM	N.E.	500 PPM	N.E
N-BUTYL ACETATE	123-86-4	5.0	150 PPM	200 PPM	150 PPM	N.E.
ETHYLBENZENE	100-41-4	5.0	100 PPM	125 PPM	100 PPM	N.E
ZINC PHOSPHATE	7779-90-0	5.0	N.E	N.E.	N.E.	N.E
BASIC ZINC MOLYBDATE	61583-60-6	5.0	10 MG/M3	N.E.	10 MG/M3	N.E

SECTION 3 - HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW:
CONTENTS UNDER PRESSURE. HARMFUL IF INHALED. MAY AFFECT THE BRAIN OR NERVOUS SYSTEM CAUSING DIZZINESS, HEADACHE OR NAUSEA. VAPORS MAY CAUSE FLASH FIRE OR EXPLOSION. EXTREMELY FLAMMABLE LIQUID AND VAPOR. HARMFUL IF SWALLOWED.

EFFECTS OF OVEREXPOSURE - EYE CONTACT: CAUSES EYE IRRITATION.

EFFECTS OF OVEREXPOSURE - SKIN CONTACT:
PROLONGED OR REPEATED CONTACT MAY CAUSE SKIN IRRITATION. SUBSTANCE MAY CAUSE SLIGHT SKIN IRRITATION.

EFFECTS OF OVEREXPOSURE - INHALATION:
HIGH VAPOR CONCENTRATIONS ARE IRRITATING TO THE EYES, NOSE, THROAT AND LUNGS. AVOID BREATHING VAPORS OR MISTS. HIGH GAS, VAPOR, MIST OR DUST CONCENTRATIONS MAY BE HARMFUL IF INHALED. HARMFUL IF INHALED.

EFFECTS OF OVEREXPOSURE - INGESTION:
ASPIRATION HAZARD IF SWALLOWED; CAN ENTER LUNGS AND CAUSE DAMAGE. SUBSTANCE MAY BE HARMFUL IF SWALLOWED.

EFFECTS OF OVEREXPOSURE - CHRONIC HAZARDS:
IARC LISTS ETHYLBENZENE AS A POSSIBLE HUMAN CARCINOGEN (GROUP 2B).

MAY CAUSE CENTRAL NERVOUS SYSTEM DISORDER (E.G., NARCOSIS INVOLVING A LOSS OF COORDINATION, WEAKNESS, FATIGUE, MENTAL CONFUSION, AND BLURRED VISION) AND/OR DAMAGE. REPORTS HAVE ASSOCIATED REPEATED AND PROLONGED OCCUPATIONAL OVEREXPOSURE TO SOLVENTS WITH PERMANENT BRAIN AND NERVOUS SYSTEM DAMAGE. OVEREXPOSURE TO XYLENE IN LABORATORY ANIMALS HAS BEEN ASSOCIATED WITH LIVER ABNORMALITIES, KIDNEY, LUNG, SPLEEN, EYE AND BLOOD DAMAGE AS WELL AS REPRODUCTIVE DISORDERS. EFFECTS IN HUMANS, DUE TO CHRONIC OVEREXPOSURE, HAVE INCLUDED LIVER, CARDIAC ABNORMALITIES AND NERVOUS SYSTEM DAMAGE.

PRIMARY ROUTE(S) OF ENTRY: SKIN CONTACT, INHALATION, EYE CONTACT

SECTION 4 - FIRST AID MEASURES

FIRST AID - EYE CONTACT:
HOLD EYELIDS APART AND FLUSH WITH PLENTY OF WATER FOR AT LEAST 15 MINUTES. GET MEDICAL ATTENTION.

FIRST AID - SKIN CONTACT:
WASH WITH SOAP AND WATER. GET MEDICAL ATTENTION IF IRRITATION DEVELOPS OR PERSISTS.

FIRST AID - INHALATION:
IF YOU EXPERIENCE DIFFICULTY IN BREATHING, LEAVE THE AREA TO OBTAIN FRESH AIR. IF CONTINUED DIFFICULTY IS EXPERIENCED, GET MEDICAL ASSISTANCE IMMEDIATELY.

FIRST AID - INGESTION:

ASPIRATION HAZARD:
DO NOT INDUCE VOMITING OR GIVE ANYTHING BY MOUTH BECAUSE THIS MATERIAL CAN ENTER THE LUNGS AND CAUSE SEVERE LUNG DAMAGE. GET IMMEDIATE MEDICAL ATTENTION.

SECTION 5 - FIRE FIGHTING MEASURES

FLASH POINT (SETAFLASH): -156 F

LOWER EXPLOSIVE LIMIT: 0.9 %
UPPER EXPLOSIVE LIMIT: 22.0 %

EXTINGUISHING MEDIA: DRY CHEMICAL, FOAM, WATER FOG

UNUSUAL FIRE AND EXPLOSION HAZARDS:
PERFORATION OF THE PRESSURIZED CONTAINER MAY CAUSE BURSTING OF THE CAN. WATER SPRAY MAY BE INEFFECTIVE. CLOSED CONTAINERS MAY EXPLODE WHEN EXPOSED TO EXTREME HEAT. FLASH POINT IS LESS THAN 20 DEG. F.

EXTREMELY FLAMMABLE LIQUID AND VAPOR!

VAPORS MAY FORM EXPLOSIVE MIXTURES WITH AIR. VAPORS CAN TRAVEL TO A SOURCE OF IGNITION AND FLASH BACK. KEEP CONTAINERS TIGHTLY CLOSED. ISOLATE FROM HEAT, ELECTRICAL EQUIPMENT, SPARKS AND OPEN FLAME.

SPECIAL FIREFIGHTING PROCEDURES:
EVACUATE AREA AND FIGHT FIRE FROM A SAFE DISTANCE.

SECTION 6 - ACCIDENTAL RELEASE MEASURES

STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED:
REMOVE ALL SOURCES OF IGNITION, VENTILATE AREA AND REMOVE WITH INERT ABSORBENT AND NON-SPARKING TOOLS. CONTAIN SPILLED LIQUID WITH SAND OR EARTH. DO NOT USE COMBUSTIBLE MATERIALS SUCH AS SAWDUST. DISPOSE OF ACCORDING TO LOCAL, STATE (PROVINCIAL) AND FEDERAL REGULATIONS. DO NOT INCINERATE CLOSED CONTAINERS.

SECTION 7 - HANDLING AND STORAGE

HANDLING:
WASH HANDS BEFORE EATING. USE ONLY IN A WELL-VENTILATED AREA. WASH THOROUGHLY AFTER HANDLING. AVOID BREATHING VAPOR OR MIST. FOLLOW ALL MSDS/LABEL PRECAUTIONS EVEN AFTER CONTAINER IS EMPTIED BECAUSE IT MAY RETAIN PRODUCT RESIDUES.

STORAGE:
DO NOT STORE ABOVE 120 DEG. F. STORE LARGE QUANTITIES IN BUILDINGS DESIGNED AND PROTECTED FOR STORAGE OF NFPA CLASS I FLAMMABLE LIQUIDS. KEEP CONTAINERS TIGHTLY CLOSED. ISOLATE FROM HEAT, ELECTRICAL EQUIPMENT, SPARKS AND OPEN FLAME. CONTENTS UNDER PRESSURE. DO NOT EXPOSE TO HEAT OR STORE ABOVE 120 DEG. F.

SECTION 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION

ENGINEERING CONTROLS:
PREVENT BUILD-UP OF VAPORS BY OPENING ALL DOORS AND WINDOWS TO ACHIEVE CROSS-VENTILATION. USE PROCESS ENCLOSURES, LOCAL EXHAUST VENTILATION, OR OTHER ENGINEERING CONTROLS TO CONTROL AIRBORNE LEVELS BELOW RECOMMENDED EXPOSURE LIMITS. USE EXPLOSION-PROOF VENTILATION EQUIPMENT.

RESPIRATORY PROTECTION:
A NIOSH/MSHA APPROVED AIR PURIFYING RESPIRATOR WITH AN ORGANIC VAPOR CARTRIDGE OR CANISTER MAY BE PERMISSIBLE UNDER CERTAIN CIRCUMSTANCES WHERE AIRBORNE CONCENTRATIONS ARE EXPECTED TO EXCEED EXPOSURE LIMITS.

PROTECTION PROVIDED BY AIR PURIFYING RESPIRATORS IS LIMITED. USE A POSITIVE PRESSURE AIR SUPPLIED RESPIRATOR IF THERE IS ANY POTENTIAL FOR AN UNCONTROLLED RELEASE, EXPOSURE LEVELS ARE NOT KNOWN, OR ANY OTHER CIRCUMSTANCES WHERE AIR PURIFYING RESPIRATORS MAY NOT PROVIDE ADEQUATE PROTECTION. A RESPIRATORY PROTECTION PROGRAM THAT MEETS OSHA 1910.134 AND ANSI Z88.2 REQUIREMENTS MUST BE FOLLOWED WHENEVER WORKPLACE CONDITIONS WARRANT A RESPIRATOR'S USE.

SKIN PROTECTION:
NITRILE OR NEOPRENE GLOVES MAY AFFORD ADEQUATE SKIN PROTECTION. USE IMPERVIOUS GLOVES TO PREVENT SKIN CONTACT AND ABSORPTION OF THIS MATERIAL THROUGH THE SKIN.

EYE PROTECTION:
USE SAFETY EYEWEAR DESIGNED TO PROTECT AGAINST SPLASH OF LIQUIDS.

OTHER PROTECTIVE EQUIPMENT:
REFER TO SAFETY SUPERVISOR OR INDUSTRIAL HYGIENIST FOR FURTHER INFORMATION REGARDING PERSONAL PROTECTIVE EQUIPMENT AND ITS APPLICATION.

HYGIENIC PRACTICES:
WASH THOROUGHLY WITH SOAP AND WATER BEFORE EATING, DRINKING OR SMOKING.

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

BOILING RANGE: -34 - 900 F

ODOR: SOLVENT LIKE

APPEARANCE: LIQUID

SOLUBILITY IN H2O: SLIGHT

FREEZE POINT: ND

VAPOR PRESSURE:

PHYSICAL STATE: LIQUID

VAPOR DENSITY: HEAVIER THAN AIR

ODOR THRESHOLD: ND

EVAPORATION RATE: FASTER THAN ETHER

SPECIFIC GRAVITY: 0.8600

pH: NE

(SEE SECTION 16 FOR ABBREVIATION LEGEND)

SECTION 10 - STABILITY AND REACTIVITY

CONDITIONS TO AVOID:
AVOID TEMPERATURES ABOVE 120 DEG F. AVOID ALL POSSIBLE SOURCES OF IGNITION.

INCOMPATIBILITY:
INCOMPATIBLE WITH STRONG OXIDIZING AGENTS, STRONG ACIDS AND STRONG ALKALIES.

HAZARDOUS DECOMPOSITION:
WHEN HEATED TO DECOMPOSITION, IT EMITS ACRID SMOKE AND IRRITATING FUMES. BY OPEN FLAME, CARBON MONOXIDE AND CARBON DIOXIDE

HAZARDOUS POLYMERIZATION: WILL NOT OCCUR UNDER NORMAL CONDITIONS.

STABILITY: THIS PRODUCT IS STABLE UNDER NORMAL STORAGE CONDITIONS.

SECTION 11 - TOXICOLOGICAL INFORMATION

PRODUCT LD50: ND
PRODUCT LC50: ND

CHEMICAL NAME	LD50	LC50
LIQUIFIED PETROLEUM GAS	N.D	N.D.
ACETONE	N.D.	N.D.
MAGNESIUM SILICATE	N.D.	TCLO: 11 MG/M3 INH
XYLENE	N.D.	N.D.
TITANIUM DIOXIDE	>7500 MG/KG (ORAL, RAT)	N.D.
STODDARD SOLVENTS	N.D.	N.D.
N-BUTYL ACETATE	13100 MG/KG (ORAL, RAT)	2000 PPM (INH 4 HR, RAT)
ETHYLBENZENE	3500 MG/KG (ORAL, RAT)	N.D.
ZINC PHOSPHATE	N.D	N.D.
BASIC ZINC MOLYBDATE	N.D.	N.D

SECTION 12 - ECOLOGICAL INFORMATION

ECOLOGICAL INFORMATION: PRODUCT IS A MIXTURE OF LISTED COMPONENTS.

SECTION 13 - DISPOSAL INFORMATION

DISPOSAL INFORMATION:
DISPOSE OF MATERIAL IN ACCORDANCE TO LOCAL, STATE AND FEDERAL REGULATIONS AND ORDINANCES DO NOT ALLOW TO ENTER STORM DRAINS OR SEWER SYSTEMS.

SECTION 14 - TRANSPORTATION INFORMATION

DOT PROPER SHIPPING NAME: AEROSOL

DOT TECHNICAL NAME:

DOT HAZARD CLASS: 2.1

DOT UN/NA NUMBER: UN1950

PACKING GROUP:

HAZARD SUBCLASS:

RESP. GUIDE PAGE: 126

SECTION 15 - REGULATORY INFORMATION

CERCLA - SARA HAZARD CATEGORY:
THIS PRODUCT HAS BEEN REVIEWED ACCORDING TO THE EPA "HAZARD CATEGORIES" PROMULGATED UNDER SECTIONS 311 LAND 312 OF THE SUPERFUND AMENDMENT AND REAUTHORIZATION ACT OF 1986 (SARA TITLE III) AND IS CONSIDERED, UNDER APPLICABLE DEFINITIONS, TO MEET THE FOLLOWING CATEGORIES:
IMMEDIATE HEALTH HAZARD, CHRONIC HEALTH HAZARD, FIRE HAZARD

SARA SECTION 313:

LISTED BELOW ARE THE SUBSTANCES (IF ANY) CONTAINED IN THIS PRODUCT THAT ARE SUBJECT TO THE REPORTING REQUIREMENTS OF SECTION 313 OF TITLE III OF THE SUPERFUND AMENDMENT AND REAUTHORIZATION ACT OF 1986 AND 40 CFR PART 372:

CHEMICAL NAME	CAS NUMBER
XYLENE	1330-20-7
ETHYLBENZENE	100-41-4
ZINC PHOSPHATE	7779-90-0
BASIC ZINC MOLYBDATE	61583-60-6

TOXIC SUBSTANCES CONTROL ACT:

LISTED BELOW ARE THE SUBSTANCES (IF ANY) CONTAINED IN THIS PRODUCT THAT ARE SUBJECT TO THE REPORTING REQUIREMENTS OF TSCA 12(B) IF EXPORTED FROM THE UNITED STATES: NONE KNOWN

U.S. STATE REGULATIONS: AS FOLLOWS

NEW JERSEY RIGHT-TO-KNOW:
THE FOLLOWING MATERIALS ARE NON-HAZARDOUS, BUT ARE AMONG THE TOP FIVE COMPONENTS IN THIS PRODUCT.

CHEMICAL NAME	CAS NUMBER
MODIFIED ALKYD RESIN	PROPRIETARY

PENNSYLVANIA RIGHT-TO-KNOW:
THE FOLLOWING NON-HAZARDOUS INGREDIENTS ARE PRESENT IN THE PRODUCT AT GREATER THAN 3%.

CHEMICAL NAME	CAS NUMBER
MODIFIED ALKYD RESIN	PROPRIETARY
CALCIUM CARBONATE	1317-65-3
RED IRON OXIDE	1332-37-2
ACRYLIC RESIN	NOT AVAILABLE

CALIFORNIA PROPOSITION 65:

WARNING!

THIS PRODUCT CONTAINS A CHEMICAL(S) KNOWN BY THE STATE OF CALIFORNIA TO CAUSE CANCER.

THESE PRODUCTS CONTAIN NO KNOWN CHEMICALS KNOWN BY THE STATE OF CALIFORNIA TO CAUSE BIRTH DEFECTS OR OTHER REPRODUCTIVE HARM.

INTERNATIONAL REGULATIONS: AS FOLLOWS

CANADIAN WHMIS:
THIS MSDS HAS BEEN PREPARED IN COMPLIANCE WITH CONTROLLED PRODUCT REGULATIONS EXCEPT FOR THE USE OF THE 16 HEADINGS.

CANADIAN WHMIS CLASS: AB5, D2A, D2B

SECTION 16 - OTHER INFORMATION

HMIS RATINGS:

HEALTH	2
FLAMMABILITY	4
REACTIVITY	0
PERSONAL PROTECTION	X

VOLATILE ORGANIC COMPOUNDS, G/L: N.A.

REASON FOR REVISION:

LEGEND:
N.A. - NOT APPLICABLE
N.E. - NOT ESTABLISHED
N.D - NOT DETERMINED

THE INFORMATION CONTAINED ON THIS MSDS HAS BEEN CHECKED AND SHOULD BE ACCURATE. HOWEVER, IT IS THE RESPONSIBILITY OF THE USER TO COMPLY WITH ALL FEDERAL, STATE, AND LOCAL LAWS AND REGULATIONS.

MSDS # 0526

DOW CORNING

DOW CORNING CORPORATION
Material Safety Data Sheet

DOW CORNING(R) 1250 SURFACTANT

1. IDENTIFICATION OF THE SUBSTANCE AND OF THE COMPANY

Dow Corning Corporation
South Saginaw Road
Midland, Michigan 48686

24 Hour Emergency Telephone: (989) 496-5900
Customer Service: (989) 496-6000
Product Disposal Information: (989) 496-6315
CHEMTREC: (800) 424-9300

MSDS No : 01225294 Revision Date: 2002/04/03

Generic Description: Silicone resin solution.
Physical Form: Liquid
Color: Colorless to pale yellow
Odor: Solvent odor.

NFPA Profile: Health 2 Flammability 3 Instability/Reactivity 0

Note: NFPA = National Fire Protection Association

2. OSHA HAZARDOUS COMPONENTS

CAS Number	Wt %	Component Name
1330-20-7	30.0 - 60.0	Xylene
100-41-4	10.0 - 30.0	Ethylbenzene
3555-47-3	1.0 - 5.0	Tetra(trimethylsiloxy) silane
108-88-3	<1.0	Toluene

The above components are hazardous as defined in 29 CFR 1910.1200

3. EFFECTS OF OVEREXPOSURE

Acute Effects

Eye: Direct contact may cause severe irritation. Vapor may cause eye irritation.

Skin: May cause moderate irritation.

Inhalation: Vapor may irritate nose and throat. Overexposure by inhalation may cause drowsiness, dizziness, confusion or loss of coordination.

Oral: Aspiration of liquid while vomiting may injure lungs seriously. May cause vomiting.

Prolonged/Repeated Exposure Effects

Skin: Repeated or prolonged contact may cause defatting and drying of skin which may result in skin irritation and dermatitis. Overexposure may injure internally if absorbed.

Inhalation: Overexposure by inhalation may injure the following organ(s):Blood. Lungs. Liver. Kidneys. Bone marrow. Nervous system.

Oral: Repeated ingestion or swallowing large amounts may injure internally.

Signs and Symptoms of Overexposure

No known applicable information.

Medical Conditions Aggravated by Exposure

No known applicable information.

The above listed potential effects of overexposure are based on actual data, results of studies performed upon similar compositions, component data and/or expert review of the product. Please refer to Section 11 for the detailed toxicology information.

4. FIRST AID MEASURES

Eye:	Immediately flush with water for 15 minutes. Get medical attention.
Skin:	Remove from skin and wash thoroughly with soap and water or waterless cleanser. Get medical attention if irritation or other ill effects develop or persist.
Inhalation:	Remove to fresh air. Get medical attention if ill effects persist.
Oral:	Get immediate medical attention. Only induce vomiting at the instructions of a physician. Never give anything by mouth to an unconscious person.
Comments:	Treat according to person's condition and specifics of exposure.

5. FIRE FIGHTING MEASURES

Flash Point:	81 °F / 27.2 °C (Pensky-Martens Closed Cup)
Autoignition Temperature:	Not determined.
Flammability Limits in Air:	Not determined.
Extinguishing Media:	On large fires use dry chemical, foam or water spray. On small fires use carbon dioxide (CO2), dry chemical or water spray. Water can be used to cool fire exposed containers.
Fire Fighting Measures:	Self-contained breathing apparatus and protective clothing should be worn in fighting large fires involving chemicals. Determine the need to evacuate or isolate the area according to your local emergency plan. Use water spray to keep fire exposed containers cool.
Unusual Fire Hazards:	Vapors are heavier than air and may travel to a source of ignition and flash back. Static electricity will accumulate and may ignite vapors. Prevent a possible fire hazard by bonding and grounding or inert gas purge.

Hazardous Decomposition Products

Thermal breakdown of this product during fire or very high heat conditions may evolve the following hazardous decomposition products: Carbon oxides and traces of incompletely burned carbon compounds. Silicon dioxide.

Chlorine compounds. Metal oxides. Formaldehyde.

6. ACCIDENTAL RELEASE MEASURES

Containment/Clean up: Remove possible ignition sources. Determine whether to evacuate or isolate the area according to your local emergency plan. Observe all personal protection equipment recommendations described in Sections 5 and 8. For large spills, provide diking or other appropriate containment to keep material from spreading. If diked material can be pumped, store recovered material in appropriate container. Clean up remaining materials from spill with suitable absorbant. Clean area as appropriate since some silicone materials, even in small quantities, may present a slip hazard. Final cleaning may require use of steam, solvents or detergents. Dispose of saturated absorbant or cleaning materials appropriately, since spontaneous heating may occur. Local, state and federal laws and regulations may apply to releases and disposal of this material, as well as those materials and items employed in the cleanup of releases. You will need to determine which federal, state and local laws and regulations are applicable. Sections 13 and 15 of this MSDS provide information regarding certain federal and state requirements.

Note: See section 8 for Personal Protective Equipment for Spills. Call Dow Corning Corporation, (989) 496-5900, if additional information is required.

7. HANDLING AND STORAGE

Use with adequate ventilation. Traces of benzene (carcinogen) may form if heated in air above 300 F (149 C). Provide ventilation to control vapor exposure within inhalation guidelines when handling at elevated temperatures. Review the OSHA benzene regulation for detailed information on safe handling requirements. Avoid eye exposure. Avoid skin contact. Avoid breathing vapor, mist, dust, or fumes. Keep container closed. Do not take internally.

Static electricity will accumulate and may ignite vapors. Prevent a possible fire hazard by bonding and grounding or inert gas purge. Keep container closed and away from heat, sparks, and flame.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Component Exposure Limits

CAS Number	Component Name	Exposure Limits
1330-20-7	Xylene	Observe xylene limits. OSHA PEL (final rule) and ACGIH TLV: TWA 100 ppm, STEL 150 ppm.
100-41-4	Ethylbenzene	OSHA PEL (final rule): TWA 100 ppm, 435 mg/m3. ACGIH TLV: TWA 100 ppm, STEL 125 ppm.

Engineering Controls

Local Ventilation: Recommended.
General Ventilation: Recommended.

Personal Protective Equipment for Routine Handling

Eyes: Use chemical worker's goggles.

Skin:	Wash at mealtime and end of shift. Contaminated clothing and shoes should be removed as soon as practical and thoroughly cleaned before reuse. Chemical protective gloves are recommended.
Suitable Gloves:	Teflon(R). Polyvinylalcohol. Silver Shield(R). Viton(R). 4H(R).
Inhalation:	Use respiratory protection unless adequate local exhaust ventilation is provided or air sampling data show exposures are within recommended exposure guidelines. Industrial Hygiene Personnel can assist in judging the adequacy of existing engineering controls.
Suitable Respirator:	General and local exhaust ventilation is recommended to maintain vapor exposures below recommended limits. Where concentrations are above recommended limits as determined by air sampling or are unknown, appropriate respiratory protection should be worn. Follow OSHA Respirator Regulations (29 CFR 1910 134) and use NIOSH/MSHA approved respirators.

Personal Protective Equipment for Spills

Eyes:	Use full face respirator.
Skin:	Wash at mealtime and end of shift. Contaminated clothing and shoes should be removed as soon as practical and thoroughly cleaned before reuse. Chemical protective gloves are recommended.
Inhalation/Suitable Respirator:	Respiratory protection recommended. Follow OSHA Respirator Regulations (29 CFR 1910.134) and use NIOSH/MHSA approved respirators. Protection provided by air purifying respirators against exposure to any hazardous chemical is limited. Use a positive pressure air supplied respirator if there is any potential for uncontrolled release, exposure levels are unknown, or any other circumstance where air purifying respirators may not provide adequate protection.
Precautionary Measures:	Avoid eye exposure. Avoid skin contact. Avoid breathing vapor, mist, dust, or fumes. Keep container closed. Do not take internally. Use reasonable care.
Comments:	Traces of benzene (carcinogen) may form if heated in air above 300 F (149 C). Provide ventilation to control vapor exposure within inhalation guidelines when handling at elevated temperatures. Review the OSHA benzene regulation for detailed information on safe handling requirements. When heated to temperatures above 150 degrees C in the presence of air, product can form formaldehyde vapors. Formaldehyde is a potential cancer hazard, a known skin and respiratory sensitizer, and an irritant to the eyes, nose, throat, skin, and digestive system. Safe handling conditions may be maintained by keeping vapor concentrations within the OSHA Permissible Exposure Limit for formaldehyde.

Note: These precautions are for room temperature handling. Use at elevated temperature or aerosol/spray applications may require added precautions.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical Form:	Liquid
Color:	Colorless to pale yellow

Odor:	Solvent odor.
Specific Gravity @ 25°C:	1.00
Viscosity:	5 cSt
Freezing/Melting Point:	Not determined.
Boiling Point:	> 35C/95F
Vapor Pressure @ 25°C:	Not determined.
Vapor Density:	Not determined.
Solubility in Water:	Not determined.
pH:	Not determined.
Volatile Content:	Not determined.

Note: The above information is not intended for use in preparing product specifications. Contact Dow Corning before writing specifications.

10. STABILITY AND REACTIVITY

Chemical Stability:	Stable.
Hazardous Polymerization:	Hazardous polymerization will not occur.
Conditions to Avoid:	None.
Materials to Avoid:	Oxidizing material can cause a reaction.

11. TOXICOLOGICAL INFORMATION

Special Hazard Information on Components

Carcinogens

CAS Number	Wt %	Component Name	
100-41-4	10.0 - 30.0	Ethylbenzene	IARC Group 2B - Possibly Carcinogenic to Humans

Teratogens

CAS Number	Wt %	Component Name	
100-41-4	10.0 - 30.0	Ethylbenzene	Evidence of teratogenicity (birth defects) in laboratory animals

Mutagens

CAS Number	Wt %	Component Name	
100-41-4	10.0 - 30.0	Ethylbenzene	Genetically active in IN VIVO assay(s)

12. ECOLOGICAL INFORMATION

Environmental Fate and Distribution

Complete information is not yet available.

Environmental Effects

Complete information is not yet available.

Fate and Effects in Waste Water Treatment Plants

Complete information is not yet available.

Ecotoxicity Classification Criteria

Hazard Parameters (LC50 or EC50)	High	Medium	Low
Acute Aquatic Toxicity (mg/L)	<=1	>1 and <=100	>100
Acute Terrestrial Toxicity	<=100	>100 and <= 2000	>2000

This table is adapted from "Environmental Toxicology and Risk Assessment", ASTM STP 1179, p.34, 1993

This table can be used to classify the ecotoxicity of this product when ecotoxicity data is listed above. Please read the other information presented in the section concerning the overall ecological safety of this material

13. DISPOSAL CONSIDERATIONS

RCRA Hazard Class (40 CFR 261)

When a decision is made to discard this material, as received, is it classified as a hazardous waste? Yes

Characteristic Waste:
Ignitable: D001
D018

TCLP:
State or local laws may impose additional regulatory requirements regarding disposal

Call Dow Corning Corporate Environmental Management, (989) 496-6315, if additional information is required.

14. TRANSPORT INFORMATION

DOT Road Shipment Information (49 CFR 172.101)

Proper Shipping Name: XYLENE SOLUTION

Hazard Class: 3

UN/NA Number: UN1307

Packing Group: III

Ocean Shipment (IMDG)

Proper Shipping Name: XYLENE SOLUTION

Hazard Class: 3

UN Number:	1307
Packing Group:	III
Hazard Label(s):	FLAMMABLE LIQUID
Marine Pollutant:	Not Applicable

Air Shipment (IATA)

Proper Shipping Name:	XYLENE SOLUTION
Hazard Class:	3
UN Number:	1307
Packing Group:	III

Call Dow Corning Transportation, (989) 496-8577, if additional information is required.

15. REGULATORY INFORMATION

Contents of this MSDS comply with the OSHA Hazard Communication Standard 29 CFR 1910.1200.

TSCA Status: All chemical substances in this material are included on or exempted from listing on the TSCA Inventory of Chemical Substances.

EPA SARA Title III Chemical Listings

Section 302 Extremely Hazardous Substances:

None

Section 304 CERCLA Hazardous Substances:

CAS Number	Wt %	Component Name
1330-20-7	37.0	Xylene
100-41-4	11.0	Ethylbenzene
108-88-3	0.2	Toluene

Section 312 Hazard Class:

Acute: Yes
Chronic: Yes
Fire: Yes
Pressure: No
Reactive: No

Section 313 Toxic Chemicals:

CAS Number	Wt %	Component Name

1330-20-7	37.0	Xylene
100-41-4	11.0	Ethylbenzene

Supplemental State Compliance Information

California

Warning: This product contains the following chemical(s) listed by the State of California under the Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65) as being known to cause cancer, birth defects or other reproductive harm.

CAS Number	Wt %	Component Name	
108-88-3	<1.0	Toluene	Developmental toxin.

Massachusetts

CAS Number	Wt %	Component Name
1330-20-7	30.0 - 60.0	Xylene
100-41-4	10.0 - 30.0	Ethylbenzene

New Jersey

CAS Number	Wt %	Component Name
68988-56-7	40.0 - 70.0	Trimethylated silica
1330-20-7	30.0 - 60.0	Xylene
100-41-4	10.0 - 30.0	Ethylbenzene
3555-47-3	1.0 - 5.0	Tetra(trimethylsiloxy) silane

Pennsylvania

CAS Number	Wt %	Component Name
68988-56-7	40.0 - 70.0	Trimethylated silica
1330-20-7	30.0 - 60.0	Xylene
100-41-4	10.0 - 30.0	Ethylbenzene

16. OTHER INFORMATION

Prepared by: Dow Corning Corporation

These data are offered in good faith as typical values and not as product specifications. No warranty, either expressed or implied, is hereby made. The recommended industrial hygiene and safe handling procedures are believed to be generally applicable. However, each user should review these recommendations in the specific context of the intended use and determine whether they are appropriate.

(R) indicates Registered Trademark

MSDS # 0527

DOW CORNING

DOW CORNING CORPORATION
Material Safety Data Sheet

DOW CORNING(R) 1252 SURFACTANT

1. IDENTIFICATION OF THE SUBSTANCE AND OF THE COMPANY

Dow Corning Corporation
South Saginaw Road
Midland, Michigan 48686

24 Hour Emergency Telephone: (989) 496-5900
Customer Service: (989) 496-6000
Product Disposal Information: (989) 496-6315
CHEMTREC: (800) 424-9300

MSDS No : 01221604 Revision Date: 2002/02/22

Generic Description: Silicone resin solution
Physical Form: Liquid
Color: Colorless to pale yellow
Odor: Not available

NFPA Profile: Health 2 Flammability 2 Instability/Reactivity 0

Note: NFPA = National Fire Protection Association

2. OSHA HAZARDOUS COMPONENTS

CAS Number	Wt %	Component Name
6846-50-0	40.0 - 70.0	Trimethylpentanediol isobutyrate
3555-47-3	1.0 - 5.0	Tetra(trimethylsiloxy) silane
1330-20-7	<1.0	Xylene
107-46-0	<1.0	Hexamethyldisiloxane
100-41-4	<1.0	Ethylbenzene
108-88-3	<1.0	Toluene

The above components are hazardous as defined in 29 CFR 1910.1200.

3. EFFECTS OF OVEREXPOSURE

Acute Effects

Eye: Direct contact may cause mild irritation.

Skin: May cause moderate irritation.

Inhalation: Mist may irritate nose and throat.

Oral: Low ingestion hazard in normal use.

Prolonged/Repeated Exposure Effects

Skin: No known applicable information.

Inhalation: No known applicable information.

Oral: Repeated ingestion or swallowing large amounts may injure internally

Signs and Symptoms of Overexposure

No known applicable information.

Medical Conditions Aggravated by Exposure

No known applicable information

The above listed potential effects of overexposure are based on actual data, results of studies performed upon similar compositions, component data and/or expert review of the product. Please refer to Section 11 for the detailed toxicology information.

4. FIRST AID MEASURES

Eye: Immediately flush with water for 15 minutes.

Skin: Remove from skin and wash thoroughly with soap and water or waterless cleanser. Get medical attention if irritation or other ill effects develop or persist.

Inhalation: Remove to fresh air.

Oral: No first aid should be needed.

Comments: Treat according to person's condition and specifics of exposure.

5. FIRE FIGHTING MEASURES

Flash Point: 149.9 °F / 65.5 °C (Pensky-Martens Closed Cup)

Autoignition Temperature: Not determined.

Flammability Limits in Air: Not determined.

Extinguishing Media: On large fires use dry chemical, foam or water spray. On small fires use carbon dioxide (CO2), dry chemical or water spray. Water can be used to cool fire exposed containers.

Fire Fighting Measures: Self-contained breathing apparatus and protective clothing should be worn in fighting large fires involving chemicals. Determine the need to evacuate or isolate the area according to your local emergency plan. Use water spray to keep fire exposed containers cool.

Unusual Fire Hazards: None.

Hazardous Decomposition Products

Thermal breakdown of this product during fire or very high heat conditions may evolve the following hazardous decomposition products: Carbon oxides and traces of incompletely burned carbon compounds. Silicon dioxide. Chlorine compounds. Metal oxides. Formaldehyde.

6. ACCIDENTAL RELEASE MEASURES

Containment/Clean up: Determine whether to evacuate or isolate the area according to your local emergency plan. Observe all personal protection equipment recommendations described in Sections 5 and 8. For large spills, provide diking or other appropriate containment to keep material from spreading. If diked material can be pumped, store recovered material in appropriate container. Clean up remaining materials from spill with suitable absorbant. Clean area as appropriate since some silicone materials, even in small quantities, may present a slip hazard. Final cleaning may require use of steam, solvents or detergents. Dispose of saturated absorbant or cleaning materials appropriately, since spontaneous heating may occur. Local, state and federal laws and regulations may apply to releases and disposal of this material, as well as those materials and items employed in the cleanup of releases. You will need to determine which federal, state and local laws and regulations are applicable. Sections 13 and 15 of this MSDS provide information regarding certain federal and state requirements.

Note: See section 8 for Personal Protective Equipment for Spills. Call Dow Corning Corporation, (989) 496-5900, if additional information is required.

7. HANDLING AND STORAGE

Use with adequate ventilation. Traces of benzene (carcinogen) may form if heated in air above 300 F (149 C). Provide ventilation to control vapor exposure within inhalation guidelines when handling at elevated temperatures. Review the OSHA benzene regulation for detailed information on safe handling requirements. Avoid eye contact. Avoid skin contact. Avoid breathing mist. Keep container closed.

Static electricity will accumulate and may ignite vapors. Prevent a possible fire hazard by bonding and grounding or inert gas purge. Keep container closed and away from heat, sparks, and flame.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Component Exposure Limits

CAS Number	Component Name	Exposure Limits
100-41-4	Ethylbenzene	OSHA PEL (final rule): TWA 100 ppm, 435 mg/m3. ACGIH TLV: TWA 100 ppm, STEL 125 ppm.

Engineering Controls

Local Ventilation: Recommended.
General Ventilation: Recommended.

Personal Protective Equipment for Routine Handling

Eyes: Use proper protection - safety glasses as a minimum.

Skin: Wash at mealtime and end of shift. Contaminated clothing and shoes should be removed as soon as practical and thoroughly cleaned before reuse. Chemical protective gloves are recommended.

Suitable Gloves:	Neoprene Rubber(R).
Inhalation:	Use respiratory protection unless adequate local exhaust ventilation is provided or air sampling data show exposures are within recommended exposure guidelines. Industrial Hygiene Personnel can assist in judging the adequacy of existing engineering controls.
Suitable Respirator:	General and local exhaust ventilation is recommended to maintain vapor exposures below recommended limits. Where concentrations are above recommended limits as determined by air sampling or are unknown, appropriate respiratory protection should be worn. Follow OSHA Respirator Regulations (29 CFR 1910.134) and use NIOSH/MSHA approved respirators.

Personal Protective Equipment for Spills

Eyes:	Use full face respirator.
Skin:	Wash at mealtime and end of shift. Contaminated clothing and shoes should be removed as soon as practical and thoroughly cleaned before reuse. Chemical protective gloves are recommended.
Inhalation/Suitable Respirator:	Respiratory protection recommended. Follow OSHA Respirator Regulations (29 CFR 1910.134) and use NIOSH/MHSA approved respirators. Protection provided by air purifying respirators against exposure to any hazardous chemical is limited. Use a positive pressure air supplied respirator if there is any potential for uncontrolled release, exposure levels are unknown, or any other circumstance where air purifying respirators may not provide adequate protection.
Precautionary Measures:	Avoid eye contact. Avoid skin contact. Avoid breathing mist. Keep container closed. Use reasonable care.
Comments:	Traces of benzene (carcinogen) may form if heated in air above 300 F (149 C). Provide ventilation to control vapor exposure within inhalation guidelines when handling at elevated temperatures. Review the OSHA benzene regulation for detailed information on safe handling requirements. When heated to temperatures above 150 degrees C in the presence of air, product can form formaldehyde vapors. Formaldehyde is a potential cancer hazard, a known skin and respiratory sensitizer, and an irritant to the eyes, nose, throat, skin, and digestive system. Safe handling conditions may be maintained by keeping vapor concentrations within the OSHA Permissible Exposure Limit for formaldehyde.

Note: These precautions are for room temperature handling. Use at elevated temperature or aerosol/spray applications may require added precautions.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical Form:	Liquid
Color:	Colorless to pale yellow
Odor:	Not available
Specific Gravity @ 25°C:	1.055
Viscosity:	100 cSt
Freezing/Melting Point:	Not determined.

Boiling Point:	> 35C/95F
Vapor Pressure @ 25°C:	Not determined.
Vapor Density:	Not determined.
Solubility in Water:	Not determined.
pH:	Not determined.
Volatile Content:	Not determined.

Note: The above information is not intended for use in preparing product specifications. Contact Dow Corning before writing specifications.

10. STABILITY AND REACTIVITY

Chemical Stability:	Stable.
Hazardous Polymerization:	Hazardous polymerization will not occur
Conditions to Avoid:	None.
Materials to Avoid:	Oxidizing material can cause a reaction.

11. TOXICOLOGICAL INFORMATION

Special Hazard Information on Components

Carcinogens

CAS Number	Wt %	Component Name	
100-41-4	<1.0	Ethylbenzene	IARC Group 2B - Possibly Carcinogenic to Humans.

12. ECOLOGICAL INFORMATION

Environmental Fate and Distribution

Complete information is not yet available.

Environmental Effects

Complete information is not yet available.

Fate and Effects in Waste Water Treatment Plants

Complete information is not yet available.

Ecotoxicity Classification Criteria

Hazard Parameters (LC50 or EC50)	High	Medium	Low
Acute Aquatic Toxicity (mg/L)	<=1	>1 and <=100	>100
Acute Terrestrial Toxicity	<=100	>100 and <= 2000	>2000

This table is adapted from "Environmental Toxicology and Risk Assessment", ASTM STP 1179. p.34, 1993.

This table can be used to classify the ecotoxicity of this product when ecotoxicity data is listed above. Please read the other information presented in the section concerning the overall ecological safety of this material.

13. DISPOSAL CONSIDERATIONS

RCRA Hazard Class (40 CFR 261)

When a decision is made to discard this material, as received, is it classified as a hazardous waste? No

State or local laws may impose additional regulatory requirements regarding disposal.

Call Dow Corning Corporate Environmental Management, (989) 496-6315, if additional information is required.

14. TRANSPORT INFORMATION

DOT Road Shipment Information (49 CFR 172.101)

Proper Shipping Name:	COMBUSTIBLE LIQUID, N O S.
Hazard Technical Name:	XYLENE/HEXAMETHYLDISILOXANE
Hazard Class:	COMBUSTIBLE LIQUID
UN/NA Number:	NA1993
Packing Group:	III
Remarks:	Above applies only to containers over 119 gallons or 450 liters.

Ocean Shipment (IMDG)

Not subject to IMDG code.

Air Shipment (IATA)

Not subject to IATA regulations.

Call Dow Corning Transportation, (989) 496-8577, if additional information is required.

15. REGULATORY INFORMATION

Contents of this MSDS comply with the OSHA Hazard Communication Standard 29 CFR 1910.1200.

TSCA Status: All chemical substances in this material are included on or exempted from listing on the TSCA Inventory of Chemical Substances.

EPA SARA Title III Chemical Listings

Section 302 Extremely Hazardous Substances:

None.

Section 304 CERCLA Hazardous Substances:

CAS Number	Wt %	Component Name

1330-20-7	0.7	Xylene
100-41-4	0.3	Ethylbenzene

Section 312 Hazard Class:
Acute: Yes
Chronic: Yes
Fire: Yes
Pressure: No
Reactive: No

Section 313 Toxic Chemicals:

None present or none present in regulated quantities.

Supplemental State Compliance Information

California

Warning: This product contains the following chemical(s) listed by the State of California under the Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65) as being known to cause cancer, birth defects or other reproductive harm.

CAS Number	Wt %	Component Name	
108-88-3	<1.0	Toluene	Developmental toxin.

Massachusetts

No ingredient regulated by MA Right-to-Know Law present

New Jersey

CAS Number	Wt %	Component Name
6846-50-0	40.0 - 70.0	Trimethylpentanediol isobutyrate
68988-56-7	40.0 - 70.0	Trimethylated silica
3555-47-3	1.0 - 5.0	Tetra(trimethylsiloxy) silane
100-41-4	<1.0	Ethylbenzene

Pennsylvania

CAS Number	Wt %	Component Name

6846-50-0	40.0 - 70.0	Trimethylpentanediol isobutyrate
68988-56-7	40.0 - 70.0	Trimethylated silica

16. OTHER INFORMATION

Prepared by: Dow Corning Corporation

These data are offered in good faith as typical values and not as product specifications. No warranty, either expressed or implied, is hereby made. The recommended industrial hygiene and safe handling procedures are believed to be generally applicable. However, each user should review these recommendations in the specific context of the intended use and determine whether they are appropriate

(R) indicates Registered Trademark

APPENDIX I

BORING LOGS

Boring Log

Associates Inc.
46555 Humboldt Drive, Ste. 100
Novi, MI 48377
Phone: (248) 669-5140
Fax: (248) 669-5147

Project Number: 039.02922.8N01
Project Name: Lot 14
Site Location: Various Parcels
City: Tecumseh, MI
Casing: NA
Screen-Slot Size: NA

Boring Number: **GP-1**
Start Date: 12/15/08
Diameter: NA
Diameter: NA

FEET (BGS) - 0	SAMPLE TYPE	SAMPLE INTERVAL (BGS)	SAMPLE NUMBER	Rec.		LITHOLOGY DESCRIPTION	PID PPM	Borehole Construction
				12"		Asphalt		
2	HA	0-2'	1	12"		SAND with some gravel, moist (fill material)	0.1	
4	HA	2-4'	2	24"		SAND with some gravel, rocks and dry brick	0.6	← Bentonite
6	GP	4-6'	3	24"				
8	GP	6-8'	4	24"				
10	GP	8-10'	5	24"		Coarse SAND with some gravel and rocks	0.4	
12	GP	10-12'	6	24"				
14	GP	12-14'	7	24"		Coarse SAND, dry and brown	0.5	
16	GP	14-16'	8	24"				
18	GP	16-18'	9	24"				
20	GP	18-20'	10	24"		Coarse SAND, moist	0.6	
22	GP	20-22'	11	24"				
24	GP	22-24'	12	24"	▼	Coarse SAND, saturated.	0.3	
26	GP	24-26'	13	24"				
28	GP	26-28'	14	24"				
30	GP	28-30'	15	24"				
						EOB		

(HA) = HAND AUGER
(AK) = AIR KNIFE
(SS) = SPLIT SPOON
(qP) = Penetrometer Unconfined Compressive Strength
(DS) = DISTURBED SAMPLE
(GP) = GeoProbe
bpf = blows per foot

Borehole Observations After Drilling
Immediately after:
Hrs. after:
Backfill : Well Materials

(Rec.) = RECOVERY
(BGS) = Below Ground Surface
(NR) = NO RECOVERY
(NA) = NOT APPLICABLE
(EOB) = END OF BORING
(SAA) = Same As Above

Logged by: Andy Rauser
Drawn by: Nate Keller
Checked by:
Drilling Co.: Fibertec
Drill Rig Type: 6620 DT
Driller: Ryan
Assistant:

Boring Log

Associates Inc.
46555 Humboldt Drive, Ste. 100
Novi, MI 48377
Phone: (248) 669-5140
Fax: (248) 669-5147

Project Number: 039.02922.8N01
Project Name: Tecumseh Products
Site Location: Lot 24
City: Tecumseh, MI
Casing: NA
Screen-Slot Size: NA

Boring Number: **GP-2**
Start Date: 12/15/08
Diameter: NA
Diameter: NA

FEET (BGS) - 0	SAMPLE TYPE	SAMPLE INTERVAL (BGS)	SAMPLE NUMBER	Rec.	LITHOLOGY DESCRIPTION	PID PPM	Borehole Construction
				12"	Concrete		
2	HA	0-2'	1	12"	SAND, dark gray, with some clay and gravel (suspected fill)	1.5	
4	HA	2-4'	2	24"	CLAY, brown with some gravel and sand SAND with some gravel, brown	6.8	← Bentonite
6	GP	4-6'	3	24"			
8	GP	6-8'	4	24"			
10	GP	8-10'	5	24"	SAA	5.4	
12	GP	10-12'	6	24"			
14	GP	12-14'	7	24"		6.5	
16	GP	14-16'	8	24"			
18	GP	16-18'	9	24"			
20	GP	18-20'	10	24"	SAA	16.8	
22	GP	20-22'	11	24"			
24	GP	22-24'	12	24"			
					EOB		

(HA) = HAND AUGER
(AK) = AIR KNIFE
(SS) = SPLIT SPOON
(qP) = Penetrometer Unconfined Compressive Strength
(DS) = DISTURBED SAMPLE
(GP) = GeoProbe
bpf = blows per foot

Borehole Observations After Drilling
Immediately after:
Hrs. after:
Backfill : Well Materials

(Rec.) = RECOVERY
(BGS) = Below Ground Surface
(NR) = NO RECOVERY
(NA) = NOT APPLICABLE

(EOB) = END OF BORING
(SAA) = Same As Above

Logged by: Andy Rauser
Drawn by: Nate Keller
Checked by:
Drilling Co.: Fibertec
Drill Rig Type: 6620 DT
Driller: Ryan
Assistant:

Boring Log

Associates Inc.
46555 Humboldt Drive, Ste. 100
Novi, MI 48377
Phone: (248) 669-5140
Fax: (248) 669-5147

Project Number: 039.02922.8N01
Project Name: Tecumseh Products
Site Location: Lot 24
City: Tecumseh, MI
Casing: NA
Screen-Slot Size: NA

Boring Number: **GP-3**
Start Date: 12/15/08
Diameter: NA
Diameter: NA

FEET (BGS) - 0	SAMPLE TYPE	SAMPLE INTERVAL (BGS)	SAMPLE NUMBER	Rec.	LITHOLOGY DESCRIPTION	PID PPM	Borehole Construction
				12"	Concrete		
2	HA	0-2'	1	12"	SAND, dark gray, with some clay and gravel (suspected fill)	2.1	
4	HA	2-4'	2	24"	SAND with some gravel, brown	10.2	← Bentonite
6	GP	4-6'	3	24"			
8	GP	6-8'	4	24"			
10	GP	8-10'	5	24"	SAA	9.1	
12	GP	10-12'	6	24"			
14	GP	12-14'	7	24"		8.2	
16	GP	14-16'	8	24"			
18	GP	16-18'	9	24"			
20	GP	18-20'	10	24"	SAA	9.8	
22	GP	20-22'	11	24"			
24	GP	22-24'	12	24"			
					EOB		

(HA) = HAND AUGER
(AK) = AIR KNIFE
(SS) = SPLIT SPOON
(qP) = Penetrometer Unconfined Compressive Strength
(DS) = DISTURBED SAMPLE
(GP) = GeoProbe
bpf = blows per foot

Borehole Observations After Drilling
Immediately after:
Hrs. after:
Backfill : Well Materials

(Rec.) = RECOVERY
(BGS) = Below Ground Surface
(NR) = NO RECOVERY
(NA) = NOT APPLICABLE

(EOB) = END OF BORING
(SAA) = Same As Above

Logged by: Andy Rauser
Drawn by: Nate Keller
Checked by:
Drilling Co.: Fibertec
Drill Rig Type: 6620 DT
Driller: Ryan
Assistant:

Boring Log

Associates Inc.
46555 Humboldt Drive, Ste. 100
Novi, MI 48377
Phone: (248) 669-5140
Fax: (248) 669-5147

Project Number: 039.02922.8N01
Project Name: Tecumseh Products
Site Location: Lot 24
City: Tecumseh, MI
Casing: NA
Screen-Slot Size: NA

Boring Number: **GP-4**
Start Date: 12/15/08
Diameter: NA
Diameter: NA

FEET (BGS) - 0	SAMPLE TYPE	SAMPLE INTERVAL (BGS)	SAMPLE NUMBER	Rec.	LITHOLOGY DESCRIPTION	PID PPM	Borehole Construction
				12"	Concrete		
2	HA	0-2'	1	12"	SAND, dark gray, with some clay and gravel (suspected fill)	4.3	
4	HA	2-4'	2	24"	SAND with some gravel, brown	5.1	← Bentonite
6	GP	4-6'	3	24"			
8	GP	6-8'	4	24"			
10	GP	8-10'	5	24"			
12	GP				Direct push of Screen Point to collect water sample at 25-29'		
14	GP						
16	GP						
18	GP						
20	GP						
22	GP						
24	GP						
26	GP						
28	GP						
30	GP						
					EOB		

(HA) = HAND AUGER (DS) = DISTURBED SAMPLE
(AK) = AIR KNIFE (GP) = GeoProbe
(SS) = SPLIT SPOON bpf = blows per foot
(qP) = Penetrometer Unconfined Compressive Strength

Borehole Observations After Drilling
Immediately after:
Hrs. after:
Backfill : Well Materials

(Rec.) = RECOVERY
(BGS) = Below Ground Surface
(NR) = NO RECOVERY
(NA) = NOT APPLICABLE

(EOB) = END OF BORING
(SAA) = Same As Above

Logged by: Andy Rauser
Drawn by: Nate Keller
Checked by:
Drilling Co.: Fibertec
Drill Rig Type: 6620 DT
Driller: Ryan
Assistant:

Boring Log

Associates Inc.
46555 Humboldt Drive, Ste. 100
Novi, MI 48377
Phone: (248) 669-5140
Fax: (248) 669-5147

Project Number: 039.02922.8N01
Project Name: Tecumseh Products
Site Location: Lot 24
City: Tecumseh, MI
Casing: NA
Screen-Slot Size: NA

Boring Number: **GP-5**
Start Date: 12/15/08
Diameter: NA
Diameter: NA

FEET (BGS) - 0	SAMPLE TYPE	SAMPLE INTERVAL (BGS)	SAMPLE NUMBER	Rec.	LITHOLOGY DESCRIPTION	PID PPM	Borehole Construction
				12"	Concrete		
2	HA	0-2'	1	12"	SAND, dark gray, with some clay and gravel (suspected fill)	9.5	
4	HA	2-4'	2	24"	CLAY, brown with some gravel and sand SAND with some gravel, brown		← Bentonite
6	GP	4-6'	3	24"			
8	GP	6-8'	4	24"	CLAY with some sand, brown	1.9	
10	GP	8-10'	5	24"	Brown, fine and dry SAND		
12	GP	10-12'	6	24"	SAA	6.8	
14	GP	12-14'	7	24"			
16	GP						
18	GP				Direct push of Screen Point to collect water sample at 25-29'		
20	GP						
22	GP						
24	GP						
26	GP						
28	GP						
30	GP						
					EOB		

(HA) = HAND AUGER (DS) = DISTURBED SAMPLE
(AK) = AIR KNIFE (GP) = GeoProbe
(SS) = SPLIT SPOON bpf = blows per foot
(qP) = Penetrometer Unconfined Compressive Strength

Borehole Observations After Drilling
Immediately after:
Hrs. after:
Backfill : Well Materials

(Rec.) = RECOVERY
(BGS) = Below Ground Surface
(NR) = NO RECOVERY
(NA) = NOT APPLICABLE

(EOB) = END OF BORING
(SAA) = Same As Above

Logged by: Andy Rauser
Drawn by: Nate Keller
Checked by:
Drilling Co.: Fibertec
Drill Rig Type: 6620 DT
Driller: Ryan
Assistant:

Boring Log

Associates Inc.
46555 Humboldt Drive, Ste. 100
Novi, MI 48377
Phone: (248) 669-5140
Fax: (248) 669-5147

Project Number: 039.02922.8N01
Project Name: Tecumseh Products
Site Location: Lot 24
City: Tecumseh, MI
Casing: NA
Screen-Slot Size: NA

Boring Number: **GP-6**
Start Date: 12/15/08
Diameter: NA
Diameter: NA

FEET (BGS) - 0	SAMPLE TYPE	SAMPLE INTERVAL (BGS)	SAMPLE NUMBER	Rec.	LITHOLOGY DESCRIPTION	PID PPM	Borehole Construction
				12"	Concrete		
2	HA	0-2'	1	12"	SAND, dark gray, with some clay and gravel (suspected fill)	16.7	
4	HA	2-4'	2	24"	CLAY, brown with some gravel and sand SAND with some gravel, brown		
6	GP	4-6'	3	24"			← Bentonite
8	GP	6-8'	4	24"		19.9	
10	GP	8-10'	5	24"	SAA		
12	GP	10-12'	6	24"	Coarse, dry, brown SAND	26.1	
14	GP	12-14'	7	24"			
16	GP						
18	GP						
20	GP				Direct push of Screen Point to collect water sample at 25-29'		
22	GP						
24	GP						
26	GP						
28	GP						
30	GP						

EOB

(HA) = HAND AUGER (DS) = DISTURBED SAMPLE
(AK) = AIR KNIFE (GP) = GeoProbe
(SS) = SPLIT SPOON bpf = blows per foot
(qP) = Penetrometer Unconfined Compressive Strength

Borehole Observations After Drilling
Immediately after:
Hrs. after:
Backfill : Well Materials

(Rec.) = RECOVERY
(BGS) = Below Ground Surface
(NR) = NO RECOVERY
(NA) = NOT APPLICABLE

(EOB) = END OF BORING
(SAA) = Same As Above

Logged by: Andy Rauser
Drawn by: Nate Keller
Checked by:
Drilling Co.: Fibertec
Drill Rig Type: 6620 DT
Driller: Ryan
Assistant:

Boring Log

Associates Inc.
46555 Humboldt Drive, Ste. 100
Novi, MI 48377
Phone: (248) 669-5140
Fax: (248) 669-5147

Project Number: 039.02922.8N01
Project Name: Tecumseh Products
Site Location: Lot 24
City: Tecumseh, MI
Casing: NA
Screen-Slot Size: NA

Boring Number: **GP-7**
Start Date: 12/16/08
Diameter: NA
Diameter: NA

FEET (BGS) - 0	SAMPLE TYPE	SAMPLE INTERVAL (BGS)	SAMPLE NUMBER	Rec.	LITHOLOGY DESCRIPTION	PID PPM	Borehole Construction
				12"	Concrete		
2	HA	0-2'	1	12"	Dark brown, dry SAND with slag stone	16.2	
4	HA	2-4'	2	24"	dry sandy CLAY	10.8	
6	GP	4-6'	3	24"	Coarse, dry SAND with some gravel		← Bentonite
8	GP	6-8'	4	24"		10.2	
10	GP	8-10'	5	24"		22.3	
12	GP	10-12'	6	24"		21.2	
14	GP	12-14'	7	24"	SAA		
16	GP						
18	GP						
20	GP				Direct push of Screen Point to collect water sample at 25-29'		
22	GP						
24	GP						
26	GP						
28	GP						
30	GP						
					EOB		

(HA) = HAND AUGER (DS) = DISTURBED SAMPLE
(AK) = AIR KNIFE (GP) = GeoProbe
(SS) = SPLIT SPOON bpf = blows per foot
(qP) = Penetrometer Unconfined Compressive Strength

Borehole Observations After Drilling
Immediately after:
Hrs. after:
Backfill : Well Materials

(Rec.) = RECOVERY
(BGS) = Below Ground Surface
(NR) = NO RECOVERY
(NA) = NOT APPLICABLE

(EOB) = END OF BORING
(SAA) = Same As Above

Logged by: Andy Rauser
Drawn by: Nate Keller
Checked by:
Drilling Co.: Fibertec
Drill Rig Type: 6620 DT
Driller: Ryan
Assistant:

Boring Log

Associates Inc.
46555 Humboldt Drive, Ste. 100
Novi, MI 48377
Phone: (248) 669-5140
Fax: (248) 669-5147

Project Number: 039.02922.8N01
Project Name: Tecumseh Products
Site Location: Lot 24
City: Tecumseh, MI
Casing: NA
Screen-Slot Size: NA

Boring Number: **GP-8**
Start Date: 12/16/08
Diameter: NA
Diameter: NA

FEET (BGS) - 0	SAMPLE TYPE	SAMPLE INTERVAL (BGS)	SAMPLE NUMBER	Rec.	LITHOLOGY DESCRIPTION	PID PPM	Borehole Construction
				12"	Concrete		
2	HA	0-2'	1	12"	Fine, brown SAND (suspected fill material)	2.8	
4	HA	2-4'	2	24"	concrete pieces and gravel to 1' SAND with a little clay	8.8	
6	GP	4-6'	3	24"		2.7	
8	GP	6-8'	4	24"			
10	GP	8-10'	5	24"	Coarse, brown, dry SAND	5.5	← Bentonite
12	GP	10-12'	6	24"			
14	GP	12-14'	7	24"		4.4	
16	GP	14-16'	8	24"			
18	GP	16-18'	9	24"	SAA	7.5	
20	GP	18-20'	10	24"			
22	GP	20-22'	11	24"		9.5	
24	GP	22-24'	12	24"			
26	GP	24-26'	13	24"			
28	GP	26-28'	14	24"	SAA	5.4	
30	GP	28-30'	15	24"			
					EOB		

(HA) = HAND AUGER (DS) = DISTURBED SAMPLE
(AK) = AIR KNIFE (GP) = GeoProbe
(SS) = SPLIT SPOON bpf = blows per foot
(qP) = Penetrometer Unconfined Compressive Strength

Borehole Observations After Drilling
Immediately after:
Hrs. after:
Backfill : Well Materials

(Rec.) = RECOVERY
(BGS) = Below Ground Surface
(NR) = NO RECOVERY
(NA) = NOT APPLICABLE

(EOB) = END OF BORING
(SAA) = Same As Above

Logged by: Andy Rauser
Drawn by: Nate Keller
Checked by:
Drilling Co.: Fibertec
Drill Rig Type: 6620 DT
Driller: Ryan
Assistant:

Boring Log

Associates Inc.
46555 Humboldt Drive, Ste. 100
Novi, MI 48377
Phone: (248) 669-5140
Fax: (248) 669-5147

Project Number: 039.02922.8N01
Project Name: Tecumseh Products
Site Location: Lot 24
City: Tecumseh, Mi
Casing: NA
Screen-Slot Size: NA

Boring Number: **GP-9**
Start Date: 12/16/08
Diameter: NA
Diameter: NA

FEET (BGS) - 0	SAMPLE TYPE	SAMPLE INTERVAL (BGS)	SAMPLE NUMBER	Rec.	LITHOLOGY DESCRIPTION	PID PPM	Borehole Construction
				12"	Concrete		
2	HA	0-2'	1	12"	Brown SAND	2.2	
4	HA	2-4'	2	24"	Coarse SAND and gravel (suspected fill material)	2.4	
6	GP	4-6'	3	24"		5.3	
8	GP	6-8'	4	24"	Coarse SAND and gravel	5.1	
10	GP	8-10'	5	24"			← Bentonite
12	GP						
14	GP						
16	GP						
18	GP				Direct push of Screen Point to collect water sample at 25-29'		
20	GP						
22	GP						
24	GP						
26	GP						
28	GP						
30	GP						
					EOB		

(HA) = HAND AUGER (DS) = DISTURBED SAMPLE
(AK) = AIR KNIFE (GP) = GeoProbe
(SS) = SPLIT SPOON bpf = blows per foot
(qP) = Penetrometer Unconfined Compressive Strength

Borehole Observations After Drilling
Immediately after:
Hrs. after:
Backfill : Well Materials

(Rec.) = RECOVERY
(BGS) = Below Ground Surface
(NR) = NO RECOVERY
(NA) = NOT APPLICABLE

(EOB) = END OF BORING
(SAA) = Same As Above

Logged by: Andy Rauser
Drawn by: Nate Keller
Checked by:
Drilling Co.: Fibertec
Drill Rig Type: 6620 DT
Driller: Ryan
Assistant:

Boring Log

Associates Inc.
46555 Humboldt Drive, Ste. 100
Novi, MI 48377
Phone: (248) 669-5140
Fax: (248) 669-5147

Project Number: 039.02922.8N01
Project Name: Tecumseh Products
Site Location: Lot 24
City: Tecumseh, Mi
Casing: NA
Screen-Slot Size: NA

Boring Number: **GP-10**
Start Date: 12/16/08
Diameter: NA
Diameter: NA

FEET (BGS) - 0	SAMPLE TYPE	SAMPLE INTERVAL (BGS)	SAMPLE NUMBER	Rec.	LITHOLOGY DESCRIPTION	PID PPM	Borehole Construction
				12"	Asphalt		
2	HA	0-2'	1	12"	CLAY with some brick fragments (fill material)	0.3	
4	HA	2-4'	2	24"	Coarse SAND and gravel Coarse, brown, dry SAND and gravel	0.2	
6	GP	4-6'	3	24"			
8	GP	6-8'	4	24"		1.2	← Bentonite
10	GP	8-10'	5	24"	SAA		
12	GP	10-12'	6	24"		1.0	
14	GP	12-14'	7	24"			
16	GP	14-16'	8	24"		0.8	
18	GP	16-18'	9	24"			
20	GP	18-20'	10	24"	SAA		
22	GP	20-22'	11	24"		1.4	
24	GP	22-24'	12	24"			
					EOB		

(HA) = HAND AUGER (DS) = DISTURBED SAMPLE
(AK) = AIR KNIFE (GP) = GeoProbe
(SS) = SPLIT SPOON bpf = blows per foot
(qP) = Penetrometer Unconfined Compressive Strength

Borehole Observations After Drilling
Immediately after:
Hrs. after:
Backfill : Well Materials

(Rec.) = RECOVERY
(BGS) = Below Ground Surface
(NR) = NO RECOVERY
(NA) = NOT APPLICABLE

(EOB) = END OF BORING
(SAA) = Same As Above

Logged by: Andy Rauser
Drawn by: Nate Keller
Checked by:
Drilling Co.: Fibertec
Drill Rig Type: 6620 DT
Driller: Ryan
Assistant:

Boring Log

Associates Inc.
46555 Humboldt Drive, Ste. 100
Novi, MI 48377
Phone: (248) 669-5140
Fax: (248) 669-5147

Project Number: 039.02922.8N01
Project Name: Tecumseh Products
Site Location: Lot 24
City: Tecumseh, Mi
Casing: NA
Screen-Slot Size: NA

Boring Number: **GP-11**
Start Date: 12/16/08
Diameter: NA
Diameter: NA

FEET (BGS) - 0	SAMPLE TYPE	SAMPLE INTERVAL (BGS)	SAMPLE NUMBER	Rec.		LITHOLOGY DESCRIPTION	PID PPM	Borehole Construction
				12"		Asphalt		
2	HA	0-2'	1	12"		CLAY with some sand and gravel (suspected fill material)	0.0	
4	HA	2-4'	2	24"		Coarse, brown, dry SAND	0.0	
6	GP	4-6'	3	24"				
8	GP	6-8'	4	24"				← Bentonite
10	GP	8-10'	5	24"		SAA	2.4	
12	GP	10-12'	6	24"				
14	GP	12-14'	7	24"			1.8	
16	GP	14-16'	8	24"				
18	GP	16-18'	9	24"				
20	GP	18-20'	10	24"	▼	SAA	0.4	
22	GP	20-22'	11	24"				
24	GP	22-24'	12	24"				
						EOB		

(HA) = HAND AUGER (DS) = DISTURBED SAMPLE
(AK) = AIR KNIFE (GP) = GeoProbe
(SS) = SPLIT SPOON bpf = blows per foot
(qP) = Penetrometer Unconfined Compressive Strength

Borehole Observations After Drilling
Immediately after:
Hrs. after:
Backfill : Well Materials

(Rec.) = RECOVERY
(BGS) = Below Ground Surface
(NR) = NO RECOVERY
(NA) = NOT APPLICABLE

(EOB) = END OF BORING
(SAA) = Same As Above

Logged by: Andy Rauser
Drawn by: Nate Keller
Checked by:
Drilling Co.: Fibertec
Drill Rig Type: 6620 DT
Driller: Ryan
Assistant:

Boring Log

Associates Inc.
46555 Humboldt Drive, Ste. 100
Novi, MI 48377
Phone: (248) 669-5140
Fax: (248) 669-5147

Project Number: 039.02922.8N01
Project Name: Tecumseh Products
Site Location: Lot 24
City: Tecumseh, Mi
Casing: NA
Screen-Slot Size: NA

Boring Number: **GP-12**
Start Date: 12/16/08
Diameter: NA
Diameter: NA

FEET (BGS) - 0	SAMPLE TYPE	SAMPLE INTERVAL (BGS)	SAMPLE NUMBER	Rec.	LITHOLOGY DESCRIPTION	PID PPM	Borehole Construction
				12"	Asphalt		
2	HA	0-2'	1	12"	CLAY with some gravel, brick fragments and sand (fill material)	0.1	
4	HA	2-4'	2	24"	Coarse, brown SAND	10.5	
6	GP	4-6'	3	24"			
8	GP	6-8'	4	24"		22.5	
10	GP	8-10'	5	24"			← Bentonite
12	GP	10-12'	6	24"		10.2	
14	GP	12-14'	7	24"	SAA		
16	GP	14-16'	8	24"			
18	GP	16-18'	9	24"		49.1	
20	GP	18-20'	10	24"			
22	GP	20-22'	11	24"	SAA	17.2	
24	GP	22-24'	12	24"			
					EOB		

(HA) = HAND AUGER
(AK) = AIR KNIFE
(SS) = SPLIT SPOON
(qP) = Penetrometer Unconfined Compressive Strength
(DS) = DISTURBED SAMPLE
(GP) = GeoProbe
bpf = blows per foot

Borehole Observations After Drilling
Immediately after:
Hrs. after:
Backfill : Well Materials

(Rec.) = RECOVERY
(BGS) = Below Ground Surface
(NR) = NO RECOVERY
(NA) = NOT APPLICABLE

(EOB) = END OF BORING
(SAA) = Same As Above

Logged by: Andy Rauser
Drawn by: Nate Keller
Checked by:
Drilling Co.: Fibertec
Drill Rig Type: 6620 DT
Driller: Ryan
Assistant:

Boring Log

Associates Inc.
46555 Humboldt Drive, Ste. 100
Novi, MI 48377
Phone: (248) 669-5140
Fax: (248) 669-5147

Project Number: 039.02922.8N01
Project Name: Tecumseh Products
Site Location: Lot 24
City: Tecumseh, Mi
Casing: NA
Screen-Slot Size: NA

Boring Number: **GP-13**
Start Date: 12/16/08
Diameter: NA
Diameter: NA

FEET (BGS) - 0	SAMPLE TYPE	SAMPLE INTERVAL (BGS)	SAMPLE NUMBER	Rec.	LITHOLOGY DESCRIPTION	PID PPM	Borehole Construction
				12"	Concrete		
2	HA	0-2'	1	12"	Coarse, brown, dry SAND (suspected fill material)	0.9	
4	HA	2-4'	2	24"			
6	GP	4-6'	3	24"		0.1	
8	GP	6-8'	4	24"			← Bentonite
10	GP	8-10'	5	24"	SAA		
12	GP						
14	GP						
16	GP				Direct push of Screen Point to collect water sample at 25-29'		
18	GP						
20	GP						
22	GP						
24	GP						
26	GP						
28	GP						
30	GP						
					EOB		

(HA) = HAND AUGER (DS) = DISTURBED SAMPLE
(AK) = AIR KNIFE (GP) = GeoProbe
(SS) = SPLIT SPOON bpf = blows per foot
(qP) = Penetrometer Unconfined Compressive Strength

Borehole Observations After Drilling
Immediately after:
Hrs. after:
Backfill : Well Materials

(Rec.) = RECOVERY
(BGS) = Below Ground Surface
(NR) = NO RECOVERY
(NA) = NOT APPLICABLE

(EOB) = END OF BORING
(SAA) = Same As Above

Logged by: Andy Rauser
Drawn by: Nate Keller
Checked by:
Drilling Co.: Fibertec
Drill Rig Type: 6620 DT
Driller: Ryan
Assistant:

Boring Log

Associates Inc.
46555 Humboldt Drive, Ste. 100
Novi, MI 48377
Phone: (248) 669-5140
Fax: (248) 669-5147

Project Number: 039.02922.8N01
Project Name: Tecumseh Products
Site Location: Lot 24
City: Tecumseh, Mi
Casing: NA
Screen-Slot Size: NA

Boring Number: **GP-14**
Start Date: 12/22/08
Diameter: NA
Diameter: NA

FEET (BGS) - 0	SAMPLE TYPE	SAMPLE INTERVAL (BGS)	SAMPLE NUMBER	Rec.	LITHOLOGY DESCRIPTION	PID PPM	Borehole Construction
				12"	Concrete		
2	HA	0-2'	1	12"	SAND, slag stone, gravel, little clay (fill material)	47.2	
4	HA	2-4'	2	24"			
6	GP	4-6'	3	24"			
8	GP	6-8'	4	24"		10.1	
10	GP	8-10'	5	24"	SAA		← Bentonite
12	GP						
14	GP						
16	GP				Direct push of Screen Point to collect water sample at 25-29'		
18	GP						
20	GP						
22	GP						
24	GP						
26	GP						
28	GP						
30	GP						
					EOB		

(HA) = HAND AUGER (DS) = DISTURBED SAMPLE
(AK) = AIR KNIFE (GP) = GeoProbe
(SS) = SPLIT SPOON bpf = blows per foot
(qP) = Penetrometer Unconfined Compressive Strength

Borehole Observations After Drilling
Immediately after:
Hrs. after:
Backfill : Well Materials

(Rec.) = RECOVERY
(BGS) = Below Ground Surface
(NR) = NO RECOVERY
(NA) = NOT APPLICABLE

(EOB) = END OF BORING
(SAA) = Same As Above

Logged by: Andy Rauser
Drawn by: Andy Rauser
Checked by:
Drilling Co.: Fibertec
Drill Rig Type: 6620 DT
Driller: Ryan
Assistant:

Boring Log

Associates Inc.
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Novi, MI 48377
Phone: (248) 669-5140
Fax: (248) 669-5147

Project Number: 039.02922.8N01
Project Name: Tecumseh Products
Site Location: Lot 24
City: Tecumseh, Mi
Casing: NA
Screen-Slot Size: NA

Boring Number: **GP-15**
Start Date: 12/22/08
Diameter: NA
Diameter: NA

FEET (BGS) - 0	SAMPLE TYPE	SAMPLE INTERVAL (BGS)	SAMPLE NUMBER	Rec.	LITHOLOGY DESCRIPTION	PID PPM	Borehole Construction
				12"	Asphalt		
2	HA	0-2'	1	12"	SAND, brick fragments, slag stone, gravel (fill material)	1.4	
4	HA	2-4'	2	24"			
6	GP	4-6'	3	24"	CLAY fill, with gravel, sand, and brick fragments	0.9	
8	GP	6-8'	4	24"			← Bentonite
10	GP	8-10'	5	24"		2.8	
12	GP	10-12'	6	24"	Coarse SAND and gravel, brown	1.6	
14	GP	12-14'	7	24"	SAA		
16	GP	14-16'	8	24"		1.4	
18	GP	16-18'	9	24"			
20	GP	18-20'	10	24"			
22	GP	20-22'	11	24"	SAA	1.1	
24	GP	22-24'	12	24"			
					EOB		

(HA) = HAND AUGER (DS) = DISTURBED SAMPLE
(AK) = AIR KNIFE (GP) = GeoProbe
(SS) = SPLIT SPOON bpf = blows per foot
(qP) = Penetrometer Unconfined Compressive Strength

Borehole Observations After Drilling
Immediately after:
Hrs. after:
Backfill : Well Materials

(Rec.) = RECOVERY
(BGS) = Below Ground Surface
(NR) = NO RECOVERY
(NA) = NOT APPLICABLE

(EOB) = END OF BORING
(SAA) = Same As Above

Logged by: Andy Rauser
Drawn by: Andy Rauser
Checked by:
Drilling Co.: Fibertec
Drill Rig Type: 6620 DT
Driller: Ryan
Assistant:

Boring Log

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Phone: (248) 669-5140
Fax: (248) 669-5147

Project Number: 039.02922.8N01
Project Name: Tecumseh Products
Site Location: Lot 24
City: Tecumseh, Mi
Casing: NA
Screen-Slot Size: NA

Boring Number: **GP-16**
Start Date: 12/22/08
Diameter: NA
Diameter: NA

FEET (BGS) - 0	SAMPLE TYPE	SAMPLE INTERVAL (BGS)	SAMPLE NUMBER	Rec.	LITHOLOGY DESCRIPTION	PID PPM	Borehole Construction
				12"	Concrete		
2	HA	0-2'	1	12"	SAND and gravel, dark brown (fill material)	19.8	
4	HA	2-4'	2	24"	CLAY, brown, silty, with coarse gravel	2.4	
6	GP	4-6'	3	24"			
8	GP	6-8'	4	24"	Coarse SAND and gravel	0.1	
10	GP	8-10'	5	24"			← Bentonite
12	GP						
14	GP						
16	GP				Direct push of Screen Point to collect water sample at 25-29'		
18	GP						
20	GP						
22	GP						
24	GP						
26	GP						
28	GP						
30	GP						

EOB

(HA) = HAND AUGER (DS) = DISTURBED SAMPLE
(AK) = AIR KNIFE (GP) = GeoProbe
(SS) = SPLIT SPOON bpf = blows per foot
(qP) = Penetrometer Unconfined Compressive Strength

Borehole Observations After Drilling
Immediately after:
Hrs. after:
Backfill : Well Materials

(Rec.) = RECOVERY
(BGS) = Below Ground Surface
(NR) = NO RECOVERY
(NA) = NOT APPLICABLE

(EOB) = END OF BORING
(SAA) = Same As Above

Logged by: Andy Rauser
Drawn by: Andy Rauser
Checked by:
Drilling Co.: Fibertec
Drill Rig Type: 6620 DT
Driller: Ryan
Assistant:

Boring Log

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Phone: (248) 669-5140
Fax: (248) 669-5147

Project Number: 039.02922.8N01
Project Name: Tecumseh Products
Site Location: Lot 24
City: Tecumseh, Mi
Casing: NA
Screen-Slot Size: NA

Boring Number: **GP-17**
Start Date: 12/22/08
Diameter: NA
Diameter: NA

FEET (BGS) - 0	SAMPLE TYPE	SAMPLE INTERVAL (BGS)	SAMPLE NUMBER	Rec.	LITHOLOGY DESCRIPTION	PID PPM	Borehole Construction
				12"	Concrete		
2	HA	0-2'	1	12"		1.6	
4	HA	2-4'	2	24"	SAND, fine grain, brown, dry		
6	GP	4-6'	3	24"		6.0	
8	GP	6-8'	4	24"			← Bentonite
10	GP	8-10'	5	24"	SAND, with a little slag stone and gravel, dark brown (fill material)	4.2	
12	GP						
14	GP						
16	GP				Direct push of Screen Point to collect water sample at 25-29'		
18	GP						
20	GP						
22	GP						
24	GP						
26	GP						
28	GP						
30	GP						
					EOB		

(HA) = HAND AUGER (DS) = DISTURBED SAMPLE
(AK) = AIR KNIFE (GP) = GeoProbe
(SS) = SPLIT SPOON bpf = blows per foot
(qP) = Penetrometer Unconfined Compressive Strength

Borehole Observations After Drilling
Immediately after:
Hrs. after:
Backfill : Well Materials

(Rec.) = RECOVERY
(BGS) = Below Ground Surface
(NR) = NO RECOVERY
(NA) = NOT APPLICABLE

(EOB) = END OF BORING
(SAA) = Same As Above

Logged by: Andy Rauser
Drawn by: Andy Rauser
Checked by:
Drilling Co.: Fibertec
Drill Rig Type: 6620 DT
Driller: Ryan
Assistant:

Boring Log

Associates Inc.
46555 Humboldt Drive, Ste. 100
Novi, MI 48377
Phone: (248) 669-5140
Fax: (248) 669-5147

Project Number: 039.02922.8N01
Project Name: Tecumseh Products
Site Location: Lot 24
City: Tecumseh, Mi
Casing: NA
Screen-Slot Size: NA

Boring Number: **GP-18**
Start Date: 12/22/08
Diameter: NA
Diameter: NA

FEET (BGS) - 0	SAMPLE TYPE	SAMPLE INTERVAL (BGS)	SAMPLE NUMBER	Rec.	LITHOLOGY DESCRIPTION	PID PPM	Borehole Construction
				12"	Grass		
2	HA	0-2'	1	12"	CLAY with gravel and brick fragments, brown (fill material)		
4	HA	2-4'	2	24"		1.7	
6	GP	4-6'	3	24"			
8	GP	6-8'	4	24"	Coarse SAND and gravel, brown	1.1	← Bentonite
10	GP	8-10'	5	24"			
12	GP	10-12'	6	24"		0.5	
14	GP	12-14'	7	24"			
16	GP	14-16'	8	24"	SAA	3.4	
18	GP	16-18'	9	24"			
20	GP	18-20'	10	24"			
22	GP	20-22'	11	24" ▼		3.5	
24	GP	22-24'	12	24"			
					EOB		

(HA) = HAND AUGER
(AK) = AIR KNIFE
(SS) = SPLIT SPOON
(qP) = Penetrometer Unconfined Compressive Strength
(DS) = DISTURBED SAMPLE
(GP) = GeoProbe
bpf = blows per foot

Borehole Observations After Drilling
Immediately after:
Hrs. after:
Backfill : Well Materials

(Rec.) = RECOVERY
(BGS) = Below Ground Surface
(NR) = NO RECOVERY
(NA) = NOT APPLICABLE

(EOB) = END OF BORING
(SAA) = Same As Above

Logged by: Andy Rauser
Drawn by: Andy Rauser
Checked by:
Drilling Co.: Fibertec
Drill Rig Type: 6620 DT
Driller: Ryan
Assistant:

Boring Log

Associates Inc.
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Phone: (248) 669-5140
Fax: (248) 669-5147

Project Number: 039.02922.8N01
Project Name: Tecumseh Products
Site Location: Lot 24
City: Tecumseh, Mi
Casing: NA
Screen-Slot Size: NA

Boring Number: **GP-19**
Start Date: 12/22/08
Diameter: NA
Diameter: NA

FEET (BGS) - 0	SAMPLE TYPE	SAMPLE INTERVAL (BGS)	SAMPLE NUMBER	Rec.	LITHOLOGY DESCRIPTION	PID PPM	Borehole Construction
				12"	Concrete		
2	HA	0-2'	1	12"	CLAY with brick fragments and gravel (fill material)	2.6	
4	HA	2-4'	2	24"		1.4	
6	GP	4-6'	3	24"	Coarse SAND and gravel, brown		
8	GP	6-8'	4	24"		2.8	← Bentonite
10	GP	8-10'	5	24"			
12	GP						
14	GP						
16	GP				Direct push of Screen Point to collect water sample at 25-29'		
18	GP						
20	GP						
22	GP						
24	GP						
26	GP						
28	GP						
30	GP						
					EOB		

(HA) = HAND AUGER (DS) = DISTURBED SAMPLE
(AK) = AIR KNIFE (GP) = GeoProbe
(SS) = SPLIT SPOON bpf = blows per foot
(qP) = Penetrometer Unconfined Compressive Strength

Borehole Observations After Drilling
Immediately after:
Hrs. after:
Backfill : Well Materials

(Rec.) = RECOVERY
(BGS) = Below Ground Surface
(NR) = NO RECOVERY
(NA) = NOT APPLICABLE

(EOB) = END OF BORING
(SAA) = Same As Above

Logged by: Andy Rauser
Drawn by: Andy Rauser
Checked by:
Drilling Co.: Fibertec
Drill Rig Type: 6620 DT
Driller: Ryan
Assistant:

Boring Log

Associates Inc.
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Phone: (248) 669-5140
Fax: (248) 669-5147

Project Number: 039.02922.8N01
Project Name: Tecumseh Products
Site Location: Lot 24
City: Tecumseh, Mi
Casing: NA
Screen-Slot Size: NA

Boring Number: **GP-20**
Start Date: 12/22/08
Diameter: NA
Diameter: NA

FEET (BGS) - 0	SAMPLE TYPE	SAMPLE INTERVAL (BGS)	SAMPLE NUMBER	Rec.	LITHOLOGY DESCRIPTION	PID PPM	Borehole Construction
				12"	Concrete		
2	HA	0-2'	1	12"	Coarse SAND, brown (fill material)	1.3	
4	HA	2-4'	2	24"			
6	GP				Boring terminated due to water main at 6'		← Bentonite
8	GP						
10	GP						
12	GP						
14	GP						
16	GP						
18	GP						
20	GP						
22	GP						
24	GP						
26	GP						
28	GP						
30	GP						

(HA) = HAND AUGER (DS) = DISTURBED SAMPLE
(AK) = AIR KNIFE (GP) = GeoProbe
(SS) = SPLIT SPOON bpf = blows per foot
(qP) = Penetrometer Unconfined Compressive Strength

Borehole Observations After Drilling
Immediately after:
Hrs. after:
Backfill : Well Materials

(Rec.) = RECOVERY
(BGS) = Below Ground Surface
(NR) = NO RECOVERY
(NA) = NOT APPLICABLE

(EOB) = END OF BORING
(SAA) = Same As Above

Logged by: Andy Rauser
Drawn by: Andy Rauser
Checked by:
Drilling Co.: Fibertec
Drill Rig Type: 6620 DT
Driller: Ryan
Assistant:

Boring Log

Associates Inc.
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Novi, MI 48377
Phone: (248) 669-5140
Fax: (248) 669-5147

Project Number: 039.02922.8N01
Project Name: Tecumseh Products
Site Location: Lot 24
City: Tecumseh, Mi
Casing: NA
Screen-Slot Size: NA

Boring Number: **GP-21**
Start Date: 01/14/09
Diameter: NA
Diameter: NA

FEET (BGS) - 0	SAMPLE TYPE	SAMPLE INTERVAL (BGS)	SAMPLE NUMBER	Rec.	LITHOLOGY DESCRIPTION	PID PPM	Borehole Construction
				12"	Concrete		
2	HA	0-2'	1	12"	SAND, brown, little gravel	14.0	
4	HA	2-4'	2	24"		21.8	
6	GP	4-6'	3	24"	CLAY, little sand and gravel, brown (suspected fill material)	14.8	
8	GP	6-8'	4	24"		12.4	← Bentonite
10	GP	8-10'	5	24"			
12	GP	10-12'	6	24"	Coarse SAND and gravel, brown	17.7	
14	GP	12-14'	7	24"			
16	GP	14-16'	8	24"	Medium SAND, trace gravel	17.9	
18	GP	16-18'	9	24"			
20	GP	18-20'	10	24"			
22	GP	20-22'	11	24"	SAA, Saturated	14.6	
24	GP	22-24'	12	24"			
					EOB		

(HA) = HAND AUGER (DS) = DISTURBED SAMPLE
(AK) = AIR KNIFE (GP) = GeoProbe
(SS) = SPLIT SPOON bpf = blows per foot
(qP) = Penetrometer Unconfined Compressive Strength

Borehole Observations After Drilling
Immediately after:
Hrs. after:
Backfill : Well Materials

(Rec.) = RECOVERY
(BGS) = Below Ground Surface
(NR) = NO RECOVERY
(NA) = NOT APPLICABLE

(EOB) = END OF BORING
(SAA) = Same As Above

Logged by: Andy Rauser
Drawn by: Andy Rauser
Checked by:
Drilling Co.: Fibertec
Drill Rig Type: 6620 DT
Driller: Nick
Assistant:

Boring Log

Associates Inc.
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Novi, MI 48377
Phone: (248) 669-5140
Fax: (248) 669-5147

Project Number: 039.02922.8N01
Project Name: Tecumseh Products
Site Location: Lot 24
City: Tecumseh, Mi
Casing: NA
Screen-Slot Size: NA

Boring Number: **GP-22**
Start Date: 01/14/09
Diameter: NA
Diameter: NA

FEET (BGS) - 0	SAMPLE TYPE	SAMPLE INTERVAL (BGS)	SAMPLE NUMBER	Rec.	LITHOLOGY DESCRIPTION	PID PPM	Borehole Construction
				12"	Concrete		
2	HA	0-2'	1	12"	Fine SAND, brown, dry	3.2	
4	HA	2-4'	2	24"	Fill SAND, little clay, with gravel and debris (bolts) (fill material)		
6	GP	4-6'	3	24"		1.4	
8	GP	6-8'	4	24"	Medium to Coarse SAND, little gravel, brown		← Bentonite
10	GP	8-10'	5	24"		33.3	
12	GP						
14	GP						
16	GP				Direct push of Screen Point to collect water samples at 26' and 45'		
18	GP						
20	GP						
22	GP						
24	GP						
26	GP						
28	GP						
30	GP						

EOB 45'

(HA) = HAND AUGER (DS) = DISTURBED SAMPLE
(AK) = AIR KNIFE (GP) = GeoProbe
(SS) = SPLIT SPOON bpf = blows per foot
(qP) = Penetrometer Unconfined Compressive Strength

Borehole Observations After Drilling
Immediately after:
Hrs. after:
Backfill : Well Materials

(Rec.) = RECOVERY
(BGS) = Below Ground Surface
(NR) = NO RECOVERY
(NA) = NOT APPLICABLE

(EOB) = END OF BORING
(SAA) = Same As Above

Logged by: Andy Rauser
Drawn by: Andy Rauser
Checked by:
Drilling Co.: Fibertec
Drill Rig Type: 6620 DT
Driller: Ryan
Assistant:

Boring Log

Associates Inc.
46555 Humboldt Drive, Ste. 100
Novi, MI 48377
Phone: (248) 669-5140
Fax: (248) 669-5147

Project Number: 039.02922.8N01
Project Name: Tecumseh Products
Site Location: Lot 24
City: Tecumseh, Mi
Casing: NA
Screen-Slot Size: NA

Boring Number: **GP-23**
Start Date: 01/14/09
Diameter: NA
Diameter: NA

FEET (BGS) - 0	SAMPLE TYPE	SAMPLE INTERVAL (BGS)	SAMPLE NUMBER	Rec.	LITHOLOGY DESCRIPTION	PID PPM	Borehole Construction
				12"	Gravel		
2	HA	0-2'	1	12"		4.5	
4	HA	2-4'	2	24"	Sand/Clay/Gravel, some slag stone, reddish brown (fill material)		
6	GP	4-6'	3	24"		3.2	
8	GP	6-8'	4	24"	Coarse SAND and gravel		← Bentonite
10	GP	8-10'	5	24"		0.7	
12	GP						
14	GP						
16	GP				Direct push of Screen Point to collect water samples		
18	GP				at 26' and 35', attempted to collect at 45' but no water available		
20	GP						
22	GP						
24	GP						
26	GP						
28	GP						
30	GP						

EOB 45'

(HA) = HAND AUGER (DS) = DISTURBED SAMPLE
(AK) = AIR KNIFE (GP) = GeoProbe
(SS) = SPLIT SPOON bpf = blows per foot
(qP) = Penetrometer Unconfined Compressive Strength

Borehole Observations After Drilling
Immediately after:
Hrs. after:
Backfill : Well Materials

(Rec.) = RECOVERY
(BGS) = Below Ground Surface
(NR) = NO RECOVERY
(NA) = NOT APPLICABLE

(EOB) = END OF BORING
(SAA) = Same As Above

Logged by: Andy Rauser
Drawn by: Andy Rauser
Checked by:
Drilling Co.: Fibertec
Drill Rig Type: 6620 DT
Driller: Ryan
Assistant:

Boring Log

Associates Inc.
46555 Humboldt Drive, Ste. 100
Novi, MI 48377
Phone: (248) 669-5140
Fax: (248) 669-5147

Project Number: 039.02922.8N01
Project Name: Tecumseh Products
Site Location: Lot 24
City: Tecumseh, Mi
Casing: NA
Screen-Slot Size: NA

Boring Number: **GP-24**
Start Date: 01/14/09
Diameter: NA
Diameter: NA

FEET (BGS) - 0	SAMPLE TYPE	SAMPLE INTERVAL (BGS)	SAMPLE NUMBER	Rec.	LITHOLOGY DESCRIPTION	PID PPM	Borehole Construction
				12"	Gravel		
2	HA	0-2'	1	12"	CLAY with sand, brick fragments, and gravel, moist (fill material)		
4	HA	2-4'	2	24"		0.3	
6	GP	4-6'	3	24"			
8	GP	6-8'	4	24"		0.0	← Bentonite
10	GP	8-10'	5	24"			
12	GP	10-12'	6	24"	Medium SAND, saturated	0.0	
14	GP	12-14'	7	24"		0.0	

EOB

(HA) = HAND AUGER (DS) = DISTURBED SAMPLE
(AK) = AIR KNIFE (GP) = GeoProbe
(SS) = SPLIT SPOON bpf = blows per foot
(qP) = Penetrometer Unconfined Compressive Strength

Borehole Observations After Drilling
Immediately after:
Hrs. after:
Backfill : Well Materials

(Rec.) = RECOVERY
(BGS) = Below Ground Surface
(NR) = NO RECOVERY
(NA) = NOT APPLICABLE

(EOB) = END OF BORING
(SAA) = Same As Above

Logged by: Andy Rauser
Drawn by: Andy Rauser
Checked by:
Drilling Co.: Fibertec
Drill Rig Type: 6620 DT
Driller: Nick
Assistant:

Boring Log

Associates Inc.
46555 Humboldt Drive, Ste. 100
Novi, MI 48377
Phone: (248) 669-5140
Fax: (248) 669-5147

Project Number: 039.02922.8N01
Project Name: Tecumseh Products
Site Location: Lot 24
City: Tecumseh, Mi
Casing: NA
Screen-Slot Size: NA

Boring Number: **GP-25**
Start Date: 01/15/09
Diameter: NA
Diameter: NA

FEET (BGS) - 0	SAMPLE TYPE	SAMPLE INTERVAL (BGS)	SAMPLE NUMBER	Rec.	LITHOLOGY DESCRIPTION	PID PPM	Borehole Construction
				12"	Concrete		
2	HA	0-2'	1	12"	Silty CLAY, with sand and gravel, moist, dark gray (suspected fill material)	20.6	
4	HA	2-4'	2	24"			
6	GP	4-6'	3	24"			
8	GP	6-8'	4	24"	Coarse SAND and gravel, brown	13.5	← Bentonite
10	GP	8-10'	5	24"			
12	GP						
14	GP				Direct push of Screen Point to collect water sample at 25-29'		
16	GP						
18	GP						
20	GP						
22	GP						
24	GP						
26	GP						
28	GP						
30	GP						

EOB

(HA) = HAND AUGER (DS) = DISTURBED SAMPLE
(AK) = AIR KNIFE (GP) = GeoProbe
(SS) = SPLIT SPOON bpf = blows per foot
(qP) = Penetrometer Unconfined Compressive Strength

Borehole Observations After Drilling
Immediately after:
Hrs. after:
Backfill : Well Materials

(Rec.) = RECOVERY
(BGS) = Below Ground Surface
(NR) = NO RECOVERY
(NA) = NOT APPLICABLE

(EOB) = END OF BORING
(SAA) = Same As Above

Logged by: Andy Rauser
Drawn by: Andy Rauser
Checked by:
Drilling Co.: Fibertec
Drill Rig Type: 6620 DT
Driller: Nick
Assistant:

Boring Log

Associates Inc.
46555 Humboldt Drive, Ste. 100
Novi, MI 48377
Phone: (248) 669-5140
Fax: (248) 669-5147

Project Number: 039.02922.8N01
Project Name: Tecumseh Products
Site Location: Lot 13
City: Tecumseh, Mi
Casing: NA
Screen-Slot Size: NA

Boring Number: **GP-26**
Start Date: 01/15/09
Diameter: NA
Diameter: NA

FEET (BGS) - 0	SAMPLE TYPE	SAMPLE INTERVAL (BGS)	SAMPLE NUMBER	Rec.	LITHOLOGY DESCRIPTION	PID PPM	Borehole Construction
				12"	Asphalt		
2	HA	0-2'	1	12"	SAND with some Clay, brick fragments and gravel, reddish brown (fill material)	1.3	
4	HA	2-4'	2	24"			
6	GP	4-6'	3	24"		0.7	
8	GP	6-8'	4	24"			← Bentonite
10	GP	8-10'	5	24"	Coarse SAND and gravel	0.3	
12	GP	10-12'	6	24"			
14	GP	12-14'	7	24"		0.1	
16	GP						
18	GP						
20	GP						
22	GP				Direct push of Screen Point to collect water sample at 25-29'		
24	GP						
26	GP						
28	GP						
30	GP						
					EOB		

(HA) = HAND AUGER
(DS) = DISTURBED SAMPLE
(AK) = AIR KNIFE
(GP) = GeoProbe
(SS) = SPLIT SPOON
bpf = blows per foot
(qP) = Penetrometer Unconfined Compressive Strength

Borehole Observations After Drilling
Immediately after:
Hrs. after:
Backfill : Well Materials

(Rec.) = RECOVERY
(BGS) = Below Ground Surface
(NR) = NO RECOVERY
(NA) = NOT APPLICABLE

(EOB) = END OF BORING
(SAA) = Same As Above

Logged by: Andy Rauser
Drawn by: Andy Rauser
Checked by:
Drilling Co.: Fibertec
Drill Rig Type: 6620 DT
Driller: Nick
Assistant:

Boring Log

Associates Inc.
46555 Humboldt Drive, Ste. 100
Novi, MI 48377
Phone: (248) 669-5140
Fax: (248) 669-5147

Project Number: 039.02922.8N01
Project Name: Tecumseh Products
Site Location: Lot 24
City: Tecumseh, Mi
Casing: NA
Screen-Slot Size: NA

Boring Number: **GP-27**
Start Date: 01/15/09
Diameter: NA
Diameter: NA

FEET (BGS) - 0	SAMPLE TYPE	SAMPLE INTERVAL (BGS)	SAMPLE NUMBER	Rec.	LITHOLOGY DESCRIPTION	PID PPM	Borehole Construction
				12"	Concrete		
2	HA	0-2'	1	12"	SAND with slag stones and brick fragments	0.1	
4	HA	2-4'	2	24"	CLAY with gravel and brick fragments (fill material)	1.8	
6	GP	4-6'	3	24"			
8	GP	6-8'	4	24"	Coarse SAND and gravel, brown	0.7	← Bentonite
10	GP	8-10'	5	24"			
12	GP						
14	GP				Direct push of Screen Point to collect water sample at 25-29'		
16	GP						
18	GP						
20	GP						
22	GP						
24	GP						
26	GP						
28	GP						
30	GP						

EOB

(HA) = HAND AUGER (DS) = DISTURBED SAMPLE
(AK) = AIR KNIFE (GP) = GeoProbe
(SS) = SPLIT SPOON bpf = blows per foot
(qP) = Penetrometer Unconfined Compressive Strength

Borehole Observations After Drilling
Immediately after:
Hrs. after:
Backfill : Well Materials

(Rec.) = RECOVERY
(BGS) = Below Ground Surface
(NR) = NO RECOVERY
(NA) = NOT APPLICABLE

(EOB) = END OF BORING
(SAA) = Same As Above

Logged by: Andy Rauser
Drawn by: Andy Rauser
Checked by:
Drilling Co.: Fibertec
Drill Rig Type: 6620 DT
Driller: Nick
Assistant:

Boring Log

Associates Inc.
46555 Humboldt Drive, Ste. 100
Novi, MI 48377
Phone: (248) 669-5140
Fax: (248) 669-5147

Project Number: 039.02922.8N01
Project Name: Tecumseh Products
Site Location: Lot 24
City: Tecumseh, Mi
Casing: NA
Screen-Slot Size: NA

Boring Number: **GP-28**
Start Date: 01/15/09
Diameter: NA
Diameter: NA

FEET (BGS) - 0	SAMPLE TYPE	SAMPLE INTERVAL (BGS)	SAMPLE NUMBER	Rec.		LITHOLOGY DESCRIPTION	PID PPM	Borehole Construction
				12"		Concrete		
2	HA	0-2'	1	12"		SAND, with brick fragments, gravel, little Clay, reddish brown (fill material)	0.4	
4	HA	2-4'	2	24"				
6	GP	4-6'	3	24"			0.7	
8	GP	6-8'	4	24"		Coarse SAND and gravel		
10	GP	8-10'	5	24"			1.4	← Bentonite
12	GP	10-12'	6	24"			0.6	
14	GP	12-14'	7	24"		SAA		
16	GP	14-16'	8	24"			0.4	
18	GP	16-18'	9	24"				
20	GP	18-20'	10	24"			1.1	
22	GP	20-22'	11	24"	▼	Medium SAND, saturated		
24	GP	22-24'	12	24"			1.4	

Direct push of Screen Point to collect water samples at 26' and 45'

EOB 45'

(HA) = HAND AUGER (DS) = DISTURBED SAMPLE
(AK) = AIR KNIFE (GP) = GeoProbe
(SS) = SPLIT SPOON bpf = blows per foot
(qP) = Penetrometer Unconfined Compressive Strength

Borehole Observations After Drilling
Immediately after:
Hrs. after:
Backfill : Well Materials

(Rec.) = RECOVERY
(BGS) = Below Ground Surface
(NR) = NO RECOVERY
(NA) = NOT APPLICABLE

(EOB) = END OF BORING
(SAA) = Same As Above

Logged by: Andy Rauser
Drawn by: Andy Rauser
Checked by:
Drilling Co.: Fibertec
Drill Rig Type: 6620 DT
Driller: Nick
Assistant:

Boring Log

Associates Inc.
46555 Humboldt Drive, Ste. 100
Novi, MI 48377
Phone: (248) 669-5140
Fax: (248) 669-5147

Project Number: 039.02922.8N01
Project Name: Tecumseh Products
Site Location: Lot 24
City: Tecumseh, Mi
Casing: NA
Screen-Slot Size: NA

Boring Number: **GP-29**
Start Date: 01/15/09
Diameter: NA
Diameter: NA

FEET (BGS) - 0	SAMPLE TYPE	SAMPLE INTERVAL (BGS)	SAMPLE NUMBER	Rec.	LITHOLOGY DESCRIPTION	PID PPM	Borehole Construction
				12"	Concrete		
2	HA	0-2'	1	12"	SAND, with gravel, dark brown, moist	2.8	
4	HA	2-4'	2	24"	SAND, with gravel, reddish brown, moist (suspected fill material)	1.7	
6	GP	4-6'	3	24"		0.9	
8	GP	6-8'	4	24"	Coarse SAND and gravel, brown	1.4	← Bentonite
10	GP	8-10'	5	24"			
12	GP	10-12'	6	24"		1.1	
14	GP	12-14'	7	24"			
16	GP	14-16'	8	24"		1.3	
18	GP	16-18'	9	24"	SAA		
20	GP	18-20'	10	24"			
22	GP	20-22'	11	24"		1.1	
24	GP	22-24'	12	24"	Medium SAND, trace gravel, brown, Saturated	0.8	

Direct push of Screen Point to collect water samples at 26' and 45'

EOB 45'

(HA) = HAND AUGER (DS) = DISTURBED SAMPLE
(AK) = AIR KNIFE (GP) = GeoProbe
(SS) = SPLIT SPOON bpf = blows per foot
(qP) = Penetrometer Unconfined Compressive Strength

Borehole Observations After Drilling
Immediately after:
Hrs. after:
Backfill : Well Materials

(Rec.) = RECOVERY
(BGS) = Below Ground Surface
(NR) = NO RECOVERY
(NA) = NOT APPLICABLE

(EOB) = END OF BORING
(SAA) = Same As Above

Logged by: Andy Rauser
Drawn by: Andy Rauser
Checked by:
Drilling Co.: Fibertec
Drill Rig Type: 6620 DT
Driller: Nick
Assistant:

Boring Log

Associates Inc.
46555 Humboldt Drive, Ste. 100
Novi, MI 48377
Phone: (248) 669-5140
Fax: (248) 669-5147

Project Number: 039.02922.8N01
Project Name: Tecumseh Products
Site Location: Lot 24
City: Tecumseh, Mi
Casing: NA
Screen-Slot Size: NA

Boring Number: **GP-30**
Start Date: 01/15/09
Diameter: NA
Diameter: NA

FEET (BGS) - 0	SAMPLE TYPE	SAMPLE INTERVAL (BGS)	SAMPLE NUMBER	Rec.		LITHOLOGY DESCRIPTION	PID PPM	Borehole Construction
				12"		Concrete		
2	HA	0-2'	1	12"		SAND, fine grain, light brown	1.2	
4	HA					EOB		
6	GP					Refusal at 3 locations in room.		
8	GP							
10	GP							← Bentonite
12	GP							
14	GP							
16	GP							
18	GP							
20	GP							
22	GP							
24	GP							

(HA) = HAND AUGER (DS) = DISTURBED SAMPLE
(AK) = AIR KNIFE (GP) = GeoProbe
(SS) = SPLIT SPOON bpf = blows per foot
(qP) = Penetrometer Unconfined Compressive Strength

Borehole Observations After Drilling
Immediately after:
Hrs. after:
Backfill : Well Materials

(Rec.) = RECOVERY
(BGS) = Below Ground Surface
(NR) = NO RECOVERY
(NA) = NOT APPLICABLE

(EOB) = END OF BORING
(SAA) = Same As Above

Logged by: Andy Rauser
Drawn by: Andy Rauser
Checked by:
Drilling Co.: Fibertec
Drill Rig Type: 6620 DT
Driller: Nick
Assistant:

Boring Log

Associates Inc.
46555 Humboldt Drive, Ste. 100
Novi, MI 48377
Phone: (248) 669-5140
Fax: (248) 669-5147

Project Number: 039.02922.8N01
Project Name: Tecumseh Products
Site Location: Lot 24
City: Tecumseh, Mi
Casing: NA
Screen-Slot Size: NA

Boring Number: **HB-31**
Start Date: 02/02/09
Diameter: NA
Diameter: NA

FEET (BGS) - 0	SAMPLE TYPE	SAMPLE INTERVAL (BGS)	SAMPLE NUMBER	Rec.		LITHOLOGY DESCRIPTION	PID PPM	Borehole Construction
				3"		Grass / Topsoil		
0.5	HA	0-6"	1	3"		Topsoil		
						EOB		← Bentonite

(HA) = HAND AUGER
(AK) = AIR KNIFE
(SS) = SPLIT SPOON
(qP) = Penetrometer Unconfined Compressive Strength
(DS) = DISTURBED SAMPLE
(GP) = GeoProbe
bpf = blows per foot

Borehole Observations After Drilling
Immediately after:
Hrs. after:
Backfill :

(Rec.) = RECOVERY
(BGS) = Below Ground Surface
(NR) = NO RECOVERY
(NA) = NOT APPLICABLE
(EOB) = END OF BORING
(SAA) = Same As Above

Logged by: Andy Rauser
Drawn by: Andy Rauser
Checked by:
Drilling Co.:
Drill Rig Type:
Driller:
Assistant:

Boring Log

Associates Inc.
46555 Humboldt Drive, Ste. 100
Novi, MI 48377
Phone: (248) 669-5140
Fax: (248) 669-5147

Project Number: 039.02922.8N01
Project Name: Tecumseh Products
Site Location: Lot 24
City: Tecumseh, Mi
Casing: NA
Screen-Slot Size: NA

Boring Number: **HB-32**
Start Date: 02/02/09
Diameter: NA
Diameter: NA

FEET (BGS) - 0	SAMPLE TYPE	SAMPLE INTERVAL (BGS)	SAMPLE NUMBER	Rec.		LITHOLOGY DESCRIPTION	PID PPM	Borehole Construction
				3"		Gravel		
0.5	HA	0-6"	1	3"		Sand and Gravel		← Bentonite
						EOB		

(HA) = HAND AUGER
(DS) = DISTURBED SAMPLE
(AK) = AIR KNIFE
(GP) = GeoProbe
(SS) = SPLIT SPOON
bpf = blows per foot
(qP) = Penetrometer Unconfined Compressive Strength

Borehole Observations After Drilling
Immediately after:
Hrs. after:
Backfill :

(Rec.) = RECOVERY
(BGS) = Below Ground Surface
(NR) = NO RECOVERY
(NA) = NOT APPLICABLE

(EOB) = END OF BORING
(SAA) = Same As Above

Logged by: Andy Rauser
Drawn by: Andy Rauser
Checked by:
Drilling Co.:
Drill Rig Type:
Driller:
Assistant:

APPENDIX J

LABORATORY ANALYTICAL SUMMARY TABLES

Table 1 - Summary of Soil Analytical Results (Detected Metals)
Tecumseh Products
100 East Patterson Street
Tecumseh, Michigan

Analyte	Statewide Default Background Levels (mg/kg)	Residential & Commercial I Drinking Water Protection Criteria (DWPC) (mg/kg)	Residential & Commercial I Direct Contact Criteria (DCC) (mg/kg)	Soil Sample Location											
				GP-1 3-5' (mg/kg)	GP-3 6-8' (mg/kg)	GP-4 4-6' (mg/kg)	GP-6 3-5' (mg/kg)	GP-7 2-4' (mg/kg)	GP-9 5-7' (mg/kg)	GP-10 2-4' (mg/kg)	GP-12 5-7' (mg/kg)	GP-14 1-3' (mg/kg)	GP-15 3-5' (mg/kg)	GP-16 1-3' (mg/kg)	GP-17 3-5' (mg/kg)
Metals															
Arsenic	5.8	4.6	7.6	5.7	NA	**6.6**	5.8	2.3	3.8	NA	NA	NA	**6.1**	**14**	NA
Barium	75	1,300	37,000	65	NA	43	**160**	**93**	70	NA	NA	NA	67	16	NA
Cadmium	1.2	6	550	0.83	0.76	0.53	**1.3**	0.72	0.93	1	0.44	0.39	0.18	**1.5**	0.08
Chromium	18	30	2,500	7.1	4.2	6.2	15	7.3	5.6	6.1	3.8	6.8	6.6	7.8	10
Copper	32	5,800	20,000	12	NA	11	**89**	**41**	14	NA	NA	NA	11	6.2	NA
Lead	21	700	400	11	6.1	7	**55**	13	16	15	5.7	19	**28**	**49**	8.8
Selenium	0.41	4	2,600	**2.8**	NA	**3.5**	**3**	0.23	**0.81**	NA	NA	NA	**2.8**	**0.5**	NA
Zinc	47	2,400	170,000	18	NA	13	**110**	**100**	31	NA	NA	NA	32	18	NA

Notes:
1. Samples were collected on December 15, 16 and 22, 2008.
2. NA denotes "Not Analyzed". ND denotes the indicated laboratory parameter was not detected above the laboratory reported detection limit (RDL).
3. The cleanup criteria are derived from the MDEQ-RRD, Operational Memorandum No. 1 (Memo No. 1) dated December 10, 2004, as revised.
4. Shaded values are above one or more applicable cleanup criteria and bold font indicates a metal detected above the Default Background Level contained in Memo No. 1.
5. All samples were analyzed at Lakeland Analytical Laboratories, Inc. located in Pinckney, Michigan.
6. NLV = not likely to volatilize, ID= Insufficient data available to establish criteria..
7. mg/kg denotes milligrams per kilogram.

Table 1 - Summary of Soil Analytical Results (Detected Metals)(Continued)
Tecumseh Products
100 East Patterson Street
Tecumseh, Michigan

Analyte	Statewide Default Background Levels (mg/kg)	Residential & Commercial I Drinking Water Protection Criteria (DWPC) (mg/kg)	Residential & Commercial I Direct Contact Criteria (DCC) (mg/kg)	GP-21 3-5' (mg/kg)	GP-22 8-10' (mg/kg)	GP-23 3-5' (mg/kg)	GP-25 1-2' (mg/kg)	GP-26 3-5' (mg/kg)	GP-27 1-3' (mg/kg)	GP-28 21-23' (mg/kg)	GP-29 3-5' (mg/kg)	HB-31 6" (mg/kg)	HB-32 6" (mg/kg)
Metals													
Arsenic	5.8	4.6	7.6	NA	NA	NA	**5.6**	NA	**8.3**	NA	NA	NA	NA
Barium	75	13,000	37,000	NA	NA	NA	**130**	NA	**260**	NA	NA	NA	NA
Cadmium	1.2	6	550	0.47	0.55	0.22	**1.8**	0.39	**6.6**	0.34	1	**9**	NA
Chromium	18	30	2,500	8.8	6.8	16	11	11	16	4.7	11	**24**	NA
Copper	32	5,800	20,000	NA	NA	NA	**100**	NA	**110**	NA	NA	NA	NA
Lead	21	700	400	**46**	**48**	**50**	**110**	**89**	**170**	**27**	**140**	**110**	NA
Mercury	0.13	1.7	160	NA	NA	NA	ND	NA	0.11	NA	NA	NA	NA
Selenium	0.41	4	2,600	NA	NA	NA	**1.2**	NA	**1.8**	NA	NA	NA	NA
Zinc	47	2,400	1,700	NA	NA	NA	**160**	NA	**260**	NA	NA	NA	NA

Notes:
1. Samples were collected on December 15, 2008 or January 14 and 15, 2009.
2. NA denotes "Not Analyzed". ND denotes the indicated laboratory parameter was not detected above the laboratory reported detection limit (RDL).
3. The cleanup criteria are derived from the MDEQ-RRD, Operational Memorandum No. 1 (Memo No. 1) dated December 10, 2004, as revised.
4. Shaded values are above one or more applicable cleanup criteria and bold font indicates a metal detected above the Default Background Level contained in Memo No. 1.
5. All samples were analyzed at Lakeland Analytical Laboratories, Inc. located in Pinckney, Michigan.
6. NLV = not likely to volatilize, ID= Insufficient data available to establish criteria..
7. mg/kg denotes milligrams per kilogram.

Table 2 - Summary of Soil Analytical Results (VOCs)
Tecumseh Products
100 East Patterson Street
Tecumseh, Michigan

Analyte	Residential & Commercial I Drinking Water Protection Criteria (DWPC) (ug/kg)	Residential & Commercial I Direct Contact Criteria (DCC) (ug/kg)	Residential & Commercial I Soil Volatilization to Indoor Air Inhalation Criteria (SVIAIC) (ug/kg)	Sample Location										
				GP-1 3-5' (ug/kg)	GP-3 6-8' (ug/kg)	GP-4 4-6' (ug/kg)	GP-6 3-5' (ug/kg)	GP-7 2-4' (ug/kg)	GP-9 5-7' (ug/kg)	GP-10 2-4' (ug/kg)	GP-12 5-7' (ug/kg)	GP-14 1-3' (ug/kg)	GP-15 3-5' (ug/kg)	GP-16 1-3' (ug/kg)
VOCs														
n-Butylbenzene	1,600	2,500,000	ID	ND	ND	ND	ND	ND	ND	ND	ND	160	ND	ND
Chloroform	1,600	1,200,000	7,200	ND	ND	ND	ND	ND	ND	ND	ND	120	64	ND
cis-1-2-Dichloroethene	1,400	640,000	22,000	ND	ND	ND	150	ND	660	ND	ND	230	1,300	410
trans-1-2-Dichloroethene	2,000	1,400,000	23,000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	67
1,1-Dichloroethene	140	200,000	62	ND	ND	ND	ND	ND	240	ND	ND	90	360	ND
Ethylbenzene	1,500	140,000	87,000	ND	ND	ND	ND	ND	92	ND	ND	170	ND	ND
n-Propylbenzene	1,600	2,500,000	ID	ND	ND	ND	ND	ND	ND	ND	ND	300	ND	ND
Tetrachloroethene	100	88,000	11,000	ND	ND	ND	ND	ND	77	ND	ND	5900	1200	3300
Toluene	16,000	250,000	250,000	ND	ND	ND	ND	ND	120	ND	ND	310	110	78
1,1,1-Trichloroethane	4,000	460,000	250,000	ND	ND	ND	ND	ND	ND	ND	ND	3,800	8,800	ND
Trichloroethene	100	500,000	7,100	ND	260	ND	4,300	4,100	3,200	500	350	43,000	38,000	7,600
1,2,4-Trimethylbenzene	2,100	110,000	110,000	ND	ND	ND	ND	ND	ND	ND	ND	890	220	ND
1,3,5-Trimethylbenzene	1,800	94,000	94,000	ND	ND	ND	ND	ND	ND	ND	ND	190	ND	ND
Xylenes	5,600	150,000	150,000	ND	ND	ND	ND	ND	220	ND	ND	1500	930	310

Notes:
1. Samples were collected on December 15, 16 and 22, 2008, or January 14 and 15, 2009
2. NA denotes "Not Analyzed". ND denotes the indicated laboratory parameter was not detected above the laboratory reported detection limit (RDL)
3. The cleanup criteria are derived from the MDEQ-RRD, Operational Memorandum No. 1 (Memo No. 1) dated December 10, 2004, as revised
4. Shaded values are above one or more applicable cleanup criteria contained in Memo No. 1
5. All samples were analyzed at Lakeland Analytical Laboratories, Inc. located in Pinckney, Michigan
6. NLV = not likely to volatilize, ID= Insufficient data available to establish criteria..
7. Ug/kg denotes micrograms per kilogram.

Table 2 - Summary of Soil Analytical Results (VOCs)
Tecumseh Products
100 East Patterson Street
Tecumseh, Michigan

Analyte	Residential & Commercial I Drinking Water Protection Criteria (DWPC) (ug/kg)	Residential & Commercial I Direct Contact Criteria (DCC) (ug/kg)	Residential & Commercial I Soil Volatilization to Indoor Air Inhalation Criteria (SVIAIC) (ug/kg)	GP-17 3-5' (ug/kg)	GP-21 3-5' (ug/kg)	GP-22 8-10' (ug/kg)	GP-23 3-5' (ug/kg)	GP-25 1-2' (ug/kg)	GP-26 3-5' (ug/kg)	GP-27 1-3' (ug/kg)	GP-28 21-23' (ug/kg)	GP-29 3-5' (ug/kg)	HB-31 3-5' (ug/kg)	HB-32 3-5' (ug/kg)
VOCs														
n-Butylbenzene	1,600	2,500,000	ID	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA
Chloroform	1,600	1,200,000	7,200	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA
cis-1-2-Dichloroethene	1,400	640,000	22,000	ND	ND	ND	ND	3,400	ND	200	ND	ND	ND	NA
trans-1-2-Dichloroethene	2,000	1,400,000	23,000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA
1,1-Dichloroethene	140	200,000	62	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA
Ethylbenzene	1,500	140,000	87,000	ND	ND	ND	ND	ND	ND	64	ND	ND	ND	NA
n-Propylbenzene	1,600	2,500,000	ID	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA
Tetrachloroethene	100	88,000	11,000	ND	75	ND	ND	ND	ND	200	230	ND	ND	NA
Toluene	16,000	250,000	250,000	ND	ND	ND	ND	ND	ND	230	ND	ND	ND	NA
1,1,1-Trichloroethane	4,000	460,000	250,000	ND	4,600	4,000	260	ND	ND	540	2,900	ND	ND	NA
Trichloroethene	100	500,000	7,100	1,300	1,600	5,200	1,700	8,600	ND	4,500	940	ND	ND	NA
1,2,4-Trimethylbenzene	2,100	110,000	110,000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA
1,3,5-Trimethylbenzene	1,800	94,000	94,000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA
Xylenes	5,600	150,000	150,000	ND	ND	ND	ND	ND	ND	440	ND	ND	ND	NA

Notes:
1. Samples were collected on December 15, 16 and 22, 2008, or January 14 and 15, 2009
2. NA denotes "Not Analyzed". ND denotes the indicated laboratory parameter was not detected above the laboratory reported detection limit (RDL)
3. The cleanup criteria are derived from the MDEQ-RRD, Operational Memorandum No. 1 (Memo No. 1) dated December 10, 2004, as revised
4. Shaded values are above one or more applicable cleanup criteria contained in Memo No. 1
5. All samples were analyzed at Lakeland Analytical Laboratories, Inc. located in Pinckney, Michigan
6. NLV = not likely to volatilize, ID= Insufficient data available to establish criteria..
7. Ug/kg denotes micrograms per kilogram.

Table 3 - Summary of Soil Analytical Results (PNAs/SVOCs)
Tecumseh Products
100 East Patterson Street
Tecumseh, Michigan

Analyte	Residential & Commercial I Drinking Water Protection Criteria (DWPC) (ug/kg)	Residential & Commercial I Direct Contact Criteria (DCC) (ug/kg)	Residential & Commercial I Soil Volatilization to Indoor Air Inhalation Criteria (SVIAIC) (ug/kg)	Sample Location								
				GP-1 3-5' (ug/kg)	GP-3 6-8' (ug/kg)	GP-6 3-5' (ug/kg)	GP-7 2-4' (ug/kg)	GP-9 5-7' (ug/kg)	GP-10 2-4' (ug/kg)	GP-12 5-7' (ug/kg)	GP-14 1-3' (ug/kg)	GP-15 3-5' (ug/kg)
VOCs												
Anthracene	41,000	1,000,000,000	230,000,000	ND	ND	ND	ND	ND	ND	ND	ND	790
Acenaphthylene	5,900	1,600,000	1,600,000	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo(a)anthracene	NLL	20,000	NLV	ND	ND	ND	ND	ND	ND	ND	ND	1,200
Benzo(b)fluoranthene	NLL	20,000	ID	ND	ND	ND	ND	ND	ND	ND	ND	1,500
Benzo(k)fluoranthene	NLL	200,000	NLV	ND	ND	ND	ND	ND	ND	ND	ND	510
Benzo(ghi)perylene	NLL	2,500,000	NLV	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo(a)pyrene	NLL	2,000	NLV	ND	ND	ND	ND	ND	ND	ND	ND	1,200
Chrysene	NLL	2,000,000	ID	ND	ND	ND	ND	ND	ND	ND	ND	1,500
Dibenzo(ah)anthrene	NLL	2,000	NLV	ND	ND	ND	ND	ND	ND	ND	ND	ND
Fluoranthene	730,000	46,000,000	1,000,000,000	ND	ND	ND	ND	ND	ND	ND	ND	2,900
Fluorene	390,000	27,000,000	580,000,000	ND	ND	ND	ND	ND	ND	ND	ND	ND
Indeno(1,2,3-cd)pyrene	NLL	20,000	NLV	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Methylnaphthalene	57,000	8,100,000	ID	ND	ND	ND	ND	ND	ND	ND	ND	1,100
Naphthalene	35,000	16,000,000	250,000	ND	ND	ND	ND	ND	ND	ND	ND	1,800
Phenanthrene	56,000	1,600,000	2,800,000	ND	ND	ND	ND	ND	ND	ND	ND	3,200
Pyrene	480,000	29,000,000	1,000,000,000	ND	ND	ND	ND	ND	ND	ND	ND	2,800

Notes:
1. Samples were collected on December 15, 16 and 22, 2008, or January 15, 2009.
2. NA denotes "Not Analyzed". ND denotes the indicated laboratory parameter was not detected above the laboratory reported detection limit (RDL).
3. The cleanup criteria are derived from the MDEQ-RRD, Operational Memorandum No. 1 (Memo No. 1) dated December 10, 2004, as revised.
4. Shaded values are above one or more applicable cleanup criteria and bold font indicates a metal detected above the Default Background Level contained in Memo No. 1.
5. All samples were analyzed at Lakeland Analytical Laboratories, Inc. located in Pinckney, Michigan.
6. NLV = not likely to volatilize, NLL = not likelyl to leach, and ID= Insufficient data available to establish criteria.
7. Ug/kg denotes micrograms per kilogram.

Table 3 - Summary of Soil Analytical Results (PNAs/SVOCs)
Tecumseh Products
100 East Patterson Street
Tecumseh, Michigan

Analyte	Residential & Commercial I Drinking Water Protection Criteria (DWPC) (ug/kg)	Residential & Commercial I Direct Contact Criteria (DCC) (ug/kg)	Residential & Commercial I Soil Volatilization to Indoor Air Inhalation Criteria (SVIAIC) (ug/kg)	GP-16 1-3' (ug/kg)	GP-17 3-5' (ug/kg)	GP-21 3-5' (ug/kg)	GP-22 8-10' (ug/kg)	GP-23 3-5' (ug/kg)	GP-25 1-2' (ug/kg)	GP-26 3-5' (ug/kg)	GP-27 1-3' (ug/kg)	GP-28 21-23' (ug/kg)	GP-29 3-5' (ug/kg)	HB-31 6" (ug/kg)
VOCs														
Anthracene	41,000	1,000,000,000	230,000,000	ND	ND	ND	ND	ND	ND	400	ND	ND	ND	2,000
Acenaphthylene	5,900	1,600,000	1,600,000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	790
Benzo(a)anthracene	NLL	20,000	NLV	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	3,100
Benzo(b)fluoranthene	NLL	20,000	ID	ND	ND	ND	ND	ND	ND	500	ND	ND	ND	4,700
Benzo(k)fluoranthene	NLL	200,000	NLV	ND	ND	ND	ND	ND	ND	500	ND	ND	ND	3,500
Benzo(ghi)perylene	NLL	2,500,000	NLV	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1,900
Benzo(a)pyrene	NLL	2,000	NLV	ND	ND	ND	ND	ND	ND	570	ND	ND	ND	1,400
Chrysene	NLL	2,000,000	ID	ND	ND	ND	ND	ND	ND	610	ND	ND	ND	3,900
Dibenzo(ah)anthrene	NLL	2,000	NLV	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	680
Fluoranthene	730,000	46,000,000	1,000,000,000	ND	ND	ND	ND	ND	ND	2,300	ND	ND	ND	13,000
Fluorene	390,000	27,000,000	580,000,000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	730
Indeno(1,2,3-cd)pyrene	NLL	20,000	NLV	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	2,100
2-Methylnaphthalene	57,000	8,100,000	ID	1,400	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Naphthalene	35,000	16,000,000	250,000	1,500	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Phenanthrene	56,000	1,600,000	2,800,000	1,200	ND	ND	ND	ND	ND	1,500	ND	ND	ND	5,700
Pyrene	480,000	29,000,000	1,000,000,000	ND	ND	ND	ND	ND	ND	1,700	ND	ND	ND	11,000

Notes:
1. Samples were collected on December 15, 16 and 22, 2008, or January 15, 2009.
2. NA denotes "Not Analyzed". ND denotes the indicated laboratory parameter was not detected above the laboratory reported detection limit (RDL).
3. The cleanup criteria are derived from the MDEQ-RRD, Operational Memorandum No. 1 (Memo No. 1) dated December 10, 2004, as revised.
4. Shaded values are above one or more applicable cleanup criteria and bold font indicates a metal detected above the Default Background Level contained in Memo No. 1.
5. All samples were analyzed at Lakeland Analytical Laboratories, Inc. located in Pinckney, Michigan.
6. NLV = not likely to volatilize, NLL = not likelyl to leach, and ID= Insufficient data available to establish criteria.
7. Ug/kg denotes micrograms per kilogram.

Table 4 - Summary of Groundwater Analytical Results (Metals)

Tecumseh Products

100 East Patterson Street

Tecumseh, Michigan

Analyte	Residential & Commercial I Drinking Water Criteria (DWC) (ug/L)	Residential & Commercial I Groundwater Contact Criteria (GCC) (ug/L)	GP-1 (ug/L)	GP-2 (ug/L)	GP-3 (ug/L)	GP-4 (ug/L)	GP-5 (ug/L)	GP-6 (ug/L)	GP-7 (ug/L)	GP-8 (ug/L)	GP-9 (ug/L)	GP-10 (ug/L)	GP-11 (ug/L)	GP-12 (ug/L)	GP-13 (ug/L)	GP-14 (ug/L)
VOCs																
Barium	2000	14000000	110	NA	ND	NA	ND	NA	ND	NA	ND	ND	100	ND	ND	NA
Copper	1000	7400000	ND	NA	6	NA	10	NA	ND	NA	ND	11	ND	6	8	NA
Lead	4	ID	ND	ND	ND	ND	ND	3	ND	ND	ND	5	ND	ND	3	ND

Notes:

1. Samples were collected on December 15, 16 and 22, 2008, or January 14 and 15, 2009.
2. NA denotes "Not Analyzed". ND denotes the indicated laboratory parameter was not detected above the laboratory reported detection limit (RDL).
3. The cleanup criteria are derived from the MDEQ-RRD, Operational Memorandum No. 1 (Memo No. 1) dated December 10, 2004, as revised.
4. Shaded values are above one or more applicable cleanup criteria and bold font indicates a metal detected above the Default Background Level contained in Memo No. 1.
5. All samples were analyzed at Lakeland Analytical Laboratories, Inc. located in Pinckney, Michigan.
6. NLV = not likely to volatilize, ID= Insufficient data available to establish criteria..
7. Ug/L denotes micrograms per liter.

Table 4 - Summary of Groundwater Analytical Results (Metals)(Continued)

Tecumseh Products

100 East Patterson Street

Tecumseh, Michigan

Analyte	Residential & Commercial I Drinking Water Criteria (DWC) (ug/L)	Residential & Commercial I Groundwater Contact Criteria (GCC) (ug/L)	GP-15 (ug/L)	GP-16 (ug/L)	GP-17 (ug/L)	GP-18 (ug/L)	GP-19 (ug/L)	GP-20 (ug/L)	GP-21 (ug/L)	GP-22 (ug/L)	GP-23 (ug/L)	GP-24 (ug/L)	GP-25 (ug/L)	GP-26 (ug/L)	GP-27 (ug/L)	GP-28 (ug/L)	GP-29 (ug/L)
VOCs																	
Barium	2000	14000000	NA	ND	ND	NA	NA	NA	NA	ND	ND	ND	ND	NA	ND	NA	NA
Copper	1000	7400000	NA	ND	ND	NA	NA	NA	NA	ND	ND	ND	ND	NA	ND	NA	NA
Lead	4	ID	ND	ND	ND	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND

Notes:

1. Samples were collected on December 15, 16 and 22, 2008, or January 14 and 15, 2009.
2. NA denotes "Not Analyzed". ND denotes the indicated laboratory parameter was not detected above the laboratory reported detection limit (RDL).
3. The cleanup criteria are derived from the MDEQ-RRD, Operational Memorandum No. 1 (Memo No. 1) dated December 10, 2004, as revised.
4. Shaded values are above one or more applicable cleanup criteria and bold font indicates a metal detected above the Default Background Level contained in Memo No. 1.
5. All samples were analyzed at Lakeland Analytical Laboratories, Inc. located in Pinckney, Michigan.
6. NLV = not likely to volatilize, ID= Insufficient data available to establish criteria..
7. Ug/L denotes micrograms per liter.

Table 5 - Summary of Groundwater Analytical Results (VOCs, PNAs/SVOCs and Cyanide)

Tecumseh Products

100 East Patterson Street

Tecumseh, Michigan

	Residential & Commercial I			Sample Location															
Analyte	Drinking Water Criteria (DWC) (ug/L)	Groundwater Contact Criteria (GCC) (ug/L)	Groundwater Volatilization to Indoor Air Inhalation Criteria (GVIAIC) (ug/L)	GP-1 (ug/L)	GP-2 (ug/L)	GP-3 (ug/L)	GP-4 (ug/L)	GP-5 (ug/L)	GP-6 (ug/L)	GP-7 (ug/L)	GP-8 (ug/L)	GP-9 (ug/L)	GP-10 (ug/L)	GP-11 (ug/L)	GP-12 (ug/L)	GP-13 (ug/L)	GP-14 (ug/L)	GP-15 (ug/L)	GP-16 (ug/L)
VOCs																			
Benzene	5	11,000	5,600	ND	ND	ND	ND	ND	3	ND	ND	ND	ND	ND	ND	ND	ND	ND	9
n-Butylbenzene	80	5,900	ID	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	3	ND	ND	ND	ND	ND
Chloroethane	430	440,000	5,700,000	ND	ND	43	9	23	11	5	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroform	80	150,000	28,000	ND	ND	ND	ND	ND	ND	ND	ND	ND	1	ND	3	ND	ND	ND	ND
cis-1-2-Dichloroethene	70	200,000	93,000	ND	210	760	240	510	120	4	160	9	36	15	7	1	ND	120	3
1,1-Dichloroethane	880	2,400,000	1,000,000	ND	11	25	18	160	84	ND	9	89	3	ND	3	ND	8	31	30
1,1-Dichloroethene	7	11,000	200	ND	17	2	4	10	70	3	ND	26	76	3	320	6	31	12	2
trans-1,2-Dichloroethene	100	220,000	85,000	ND	4	27	22	12	1	ND	11	2	ND	ND	ND	ND	ND	3	1
Ethylbenzene	74	170,000	110,000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	3	ND	ND	ND	ND	3
n-Propylbenzene	80	15,000	ID	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	7	ND	ND	ND	ND	ND
Tetrachloroethene	5	12,000	25,000	ND	2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	12	3	ND
1,1,2-Trichloroethane	5	21,000	17,000	ND	ND	ND	ND	ND	ND	ND	ND	ND	4	ND	ND	ND	1	ND	2
Toluene	790	530,000	530,000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	3
1,1,1-Trichloroethane	200	1,300,000	660,000	ND	16	ND	ND	ND	60	3	ND	31	34	4	390	6	260	150	16
1,2,4-Trimethylbenzene	63	56,000	56,000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	64	ND	ND	ND	ND	4
1,3,5-Trimethylbenzene	72	61,000	61,000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	35	ND	ND	ND	ND	1
Trichloroethene	5	22,000	15,000	ND	920	510	320	660	550	300	49	540	370	100	530	210	190	450	8
Trichlorofluoromethane	2,600	1,100,000	110,000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Xylenes	280	190,000	190,000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	10
PNAs/SVOCs																			
2-Methylnaphthalene	260	25,000	ID	ND	ND	ND	ND	ND	ND	ND	7	ND	ND	ND	ND	ND	ND	ND	ND
Naphthalene	520	31,000	31,000	ND	ND	ND	ND	ND	ND	ND	10	ND	ND	ND	ND	ND	ND	ND	ND
Cyanide	200	57,000	NLV	NA	ND	ND	NA	NA	NA	ND	ND	ND	ND	ND	ND	NA	NA	NA	5

Notes: 1. Samples were collected on December 15, 16 and 22, 2008, or January 14 and 15, 2009.

2. NA denotes "Not Analyzed". ND denotes the indicated laboratory parameter was not detected above the laboratory reported detection limit (RDL).

3. The cleanup criteria are derived from the MDEQ-RRD, Operational Memorandum No. 1 (Memo No. 1) dated December 10, 2004, as revised.

4. Shaded values are above one or more applicable cleanup criteria and bold font indicates a metal detected above the Default Background Level contained in Memo No. 1.

5. All samples were analyzed at Lakeland Analytical Laboratories, Inc. located in Pinckney, Michigan.

6. NLV = not likely to volatilize, ID= Insufficient data available to establish criteria..

7. Ug/L denotes micrograms per liter.

Table 5 - Summary of Groundwater Analytical Results (VOCs, PNAs/SVOCs and Cyanide)(Continued)

Tecumseh Products

100 East Patterson Street

Tecumseh, Michigan

	Residential & Commercial I																			
Analyte	Drinking Water Criteria (DWC) (ug/L)	Groundwater Contact Criteria (GCC) (ug/L)	Groundwater Volatilization to Indoor Air Inhalation Criteria (GVIAIC) (ug/L)	GP-17 (ug/L)	GP-18 (ug/L)	GP-19 (ug/L)	GP-20 (ug/L)	GP-21 (ug/L)	GP-22 @26' (ug/L)	GP-22 @45' (ug/L)	GP-23 @26' (ug/L)	GP-23 @35' (ug/L)	GP-24 (ug/L)	GP-25 (ug/L)	GP-26 (ug/L)	GP-27 (ug/L)	GP-28 @26' (ug/L)	GP-28 @45' (ug/L)	GP-29 (ug/L)	GP-30 (ug/L)
VOCs																				
Benzene	5	11,000	5,600	ND	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA
n-Butylbenzene	80	5,900	ID	ND	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA
Chloroethane	430	440,000	5,700,000	ND	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA
Chloroform	80	150,000	28,000	ND	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA
cis-1-2-Dichloroethene	70	200,000	93,000	ND	1	ND	NA	ND	160	81	430	ND	ND	170	ND	ND	ND	ND	ND	NA
1,1-Dichloroethane	880	2,400,000	1,000,000	47	ND	ND	NA	47	160	6	32	ND	ND	87	ND	ND	23	ND	ND	NA
1,1-Dichloroethene	7	11000	200	18	ND	11	NA	920	210	10	ND	ND	ND	ND	ND	14	36	ND	ND	NA
trans-1,2-Dichloroethene	100	220,000	85,000	ND	ND	ND	NA	ND	ND	21	27	ND	ND	10	ND	ND	ND	ND	ND	NA
Ethylbenzene	74	170,000	110,000	ND	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA
n-Propylbenzene	80	15,000	ID	ND	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA
Tetrachloroethene	5	12,000	25,000	1	1	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	5	ND	ND	NA
1,1,2-Trichloroethane	5	21,000	17,000	ND	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA
Toluene	790	530,000	530,000	ND	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA
1,1,1-Trichloroethane	200	1,300,000	660,000	200	3	71	NA	8,500	3,500	38	ND	ND	ND	ND	ND	120	540	ND	ND	NA
1,2,4-Trimethylbenzene	63	56,000	56,000	ND	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA
1,3,5-Trimethylbenzene	72	61,000	61,000	ND	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA
Trichloroethene	5	22,000	15,000	200	190	86	NA	1,700	1600	560	300	ND	48	240	ND	170	110	ND	34	NA
Trichlorofluoromethane	2,600	1,100,000	1,100,000	ND	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA
Xylenes	280	190,000	190,000	ND	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA
PNAs/SVOCs																				
2-Methylnaphthalene	260	25,000	ID	ND	ND	ND	ND	ND	ND	NA	ND	NA	ND	ND	ND	ND	ND	NA	NA	NA
Naphthalene	520	31,000	31,000	ND	ND	ND	ND	ND	ND	NA	ND	NA	ND	ND	ND	ND	ND	NA	NA	NA
Cyanide	200	57,000	NLV	6	NA	NA	NA	NA	ND	NA	ND	NA	ND	ND	NA	ND	ND	NA	NA	NA

Notes:
1. Samples were collected on December 15, 16 and 22, 2008, or January 14 and 15, 2009.
2. NA denotes "Not Analyzed". ND denotes the indicated laboratory parameter was not detected above the laboratory reported detection limit (RDL).
3. The cleanup criteria are derived from the MDEQ-RRD, Operational Memorandum No. 1 (Memo No. 1) dated December 10, 2004, as revised.
4. Shaded values are above one or more applicable cleanup criteria and bold font indicates a metal detected above the Default Background Level contained in Memo No. 1.
5. All samples were analyzed at Lakeland Analytical Laboratories, Inc. located in Pinckney, Michigan.
6. NLV = not likely to volatilize, ID= Insufficient data available to establish criteria..
7. Ug/L denotes micrograms per liter.

Table 6 - Summary of Soil Borings, Evaluated Potential Environmental Concerns, Analytical Rationale/Field Screening Results

Tecumseh Products

100 East Patterson Street

Tecumseh, Michigan

Boring/Sample ID*	Purpose of Boring Location** and Potential Environmental Concern/s	Soil and Groundwater Sample (where collected) Laboratory Analysis	Rationale for Soil and/or Ground -water (where present) Sample Laboratory Analysis (based on potential environmental concern)	Rationale for Soil and/or Groundwater Sample Selected (based on field screening results) for Laboratory Analysis
GP-1 (3'-5' bgs)	Former foundry area	VOCs, SVOCs, Metals and/or PCBs	Common indicator parameters for commercial/industrial properties and processes.	Uncontrolled FILL with debris (i.e. brick fragments) to 6 feet bgs
GP-2 (GW sample only)	Wire stripping and/or paint use	VOCs, Metals and/or Cyanide	Common indicator parameters for commercial/industrial properties and processes.	Sampled groundwater at soil/groundwater interface
GP-3 (6'-8' bgs)	Wire stripping and/or paint use	VOCs, SVOCs/PNAs, Metals and/or Cyanide	Common indicator parameters for commercial/industrial properties and processes.	Possible uncontrolled FILL
GP-4 (4'-6' bgs)	General area coverage	VOCS, PNAs, Metals and/or PCBs	Common indicator parameters for commercial/industrial properties and processes.	Uncontrolled FILL with debris (i.e. brick fragments) and PID readings
GP-5 (GW sample only)	General area coverage	VOCs, SVOCs, and/or Metals	Common indicator parameters for commercial/industrial properties and processes.	General site coverage with groundwater sampled at soil/groundwater interface
GP-6 (3'-5' bgs)	Suspected down gradient of former fuel oil tank	VOCs, SVOCs, Metals and/or PCBs	Common indicator parameters for commercial/industrial properties and processes.	Uncontrolled FILL with debris (i.e. brick fragments) and PID readings
GP-7 (2'-4' bgs)	Foundry/paint line/oil house	VOCs, SVOCs, Metals, PCBs and/or Cyanide	Common indicator parameters for commercial/industrial properties and processes.	Possible uncontrolled FILL (sand with slag) and PID readings
GP-8 (GW only)	Sump, trench/solvent use	VOCs, SVOCs, Metals, PCBs and/or Cyanide	Common indicator parameters for commercial/industrial properties and processes.	Sampled groundwater at soil/groundwater interface
GP-9 (5'-7' bgs)	Sump, trench/solvent use	VOCs, PNAs, Metals and/or Cyanide	Common indicator parameters for commercial/industrial properties and processes.	Possible uncontrolled FILL and PID readings
GP-10 (2'-4' bgs)	Suspected downgradient of large ASTs/new waste water treatment plant	VOCs, SVOCs, Metals and/or Cyanide	Common indicator parameters for commercial/industrial properties and processes.	Uncontrolled FILL with debris (i.e. brick fragments) and PID readings
GP-11 (GW sample only)	Downgradient of hazardous materials storage building (55-gallon drums, etc.)	VOCs, SVOCs, Metals and Cyanide	Common indicator parameters for commercial/industrial properties and processes.	General site coverage with groundwater sampled at soil/groundwater interface
GP-12 (5'-7' bgs)	Suspected down gradient and general site coverage	VOCs, SVOCs/PNAs, Metals, PCBs and/or Cyanide	Common indicator parameters for commercial/industrial properties and processes.	Uncontrolled FILL with debris (i.e. brick fragments) and PID readings in vadose zone
GP-13 (GW sample only)	Paint lines and/or solvent use	VOCs, PNAs and Metals	Common indicator parameters for commercial/industrial properties and processes.	Possible uncontrolled FILL and general site coverage with groundwater sampled at soil/groundwater interface
GP-14 (1'-3' bgs)	Former Foundry Area and machining area	VOCs, SVOCs/PNAs, Metals and/or PCBs	Common indicator parameters for commercial/industrial properties and processes.	Possible uncontrolled FILL with slag at the surface, PID readings and general site coverage
GP-15 (3'-5' bgs)	Former foundry area and paint line with possible solvent use	VOCs, SVOCs/PNAs, Metals and/or PCBs	Common indicator parameters for commercial/industrial properties and processes.	Uncontrolled FILL with debris (i.e brick and slag) at the surface, and PID readings

Notes: If soil samples are collected, the soil sample depths are shown in parentheses next to the sample ID. The groundwater samples were generally collected from the saturated zones immediately below the vadose zone. However in select borings, groundater samples were collected from different depths within the saturated zone. Each of the above borings were located for general site coverage in addition to the purpose listed above.

Table 6 - Summary of Soil Borings, Evaluated Potential Environmental Concerns, Analytical Rationale/Field Screening Results (continued)

Tecumseh Products

100 East Patterson Street

Tecumseh, Michigan

Boring/Sample ID*	Purpose of Boring Location** and Potential Environmental Concern/s	Soil and Groundwater Sample (where collected) Laboratory Analysis	Rationale for Soil and/or Ground -water (where present) Sample Laboratory Analysis (based on potential environmental concern)	Rationale for Soil and/or Groundwater Sample Selected (based on field screening results) for Laboratory Analysis
GP-16 (1'-3' bgs)	Old waste water treatment plant with trenching, sump and possible UST	VOCs, SVOCs, Metals, PCBs and/or Cyanide	Common indicator parameters for commercial/industrial properties and processes.	Possible uncontrolled FILL and PID readings
GP-17 (3'-5' bgs)	Suspected down gradient of UST area and boiler room	VOCs, SVOCs/PNAs, Metals and/or Cyanide	Common indicator parameters for commercial/industrial properties and processes.	Possible uncontrolled FILL at the surface, PID readings and site coverage
GP-18 (GW only)	Suspected down gradient of railroad tracks, drum storage and near staining in basement	VOCs, PNAs and/or Metals	Common indicator parameters for commercial/industrial properties and processes.	Uncontrolled FILL with debris (i.e. brick fragments) and PID readings
GP-19 (GW sample only)	General coverage and down gradient of railroad tracks	VOCs, PNAs and Metals	Common indicator parameters for commercial/industrial properties and processes.	Uncontrolled FILL with debris (i.e. brick fragments) and PID readings
GP-20 (no sample collected)	General coverage	No samples recovered	Common indicator parameters for commercial/industrial properties and processes.	Boring was terminated at a depth of about 6 feet bgs due to the presence of a water main and no sample was collected
GP-21 (3'-5' bgs)	Suspected former solvent use/storage	VOCs, PNAs and/or Metals	Common indicator parameters for commercial/industrial properties and processes.	Possible uncontrolled FILL and PID readings
GP-22 (8'-10' bgs) GW sample at 26' & 45'	Suspected former solvent use/storage and downgradient of solvent use/storage	VOCs, SVOCs/PNAs, Metals and/or Cyanide	Common indicator parameters for commercial/industrial properties and processes.	Uncontrolled FILL with debris (i.e. steel bolts) and PID readings
GP-23 (3'-5' bgs) GW sample at 26' & 35'	Suspected area of former hazardous waste storage area	VOCs, SVOCs/PNAs, Metals and/or Cyanide	Common indicator parameters for commercial/industrial properties and processes.	Uncontrolled FILL with slag and elevated PID readings
GP-24 (GW sample only)	Down gradient of site and at suspected downgradient site boundary	VOCs, SVOCs/PNAs, Metals and Cyanide	Common indicator parameters for commercial/industrial properties and processes.	Uncontrolled fill with debris (i.e. brick fragments) at the surface and shallow water table
GP-25 (1'-2' bgs)	Dumpster/metal shavings storage area	VOCs, SVOCs, Metals, PCBs and/or Cyanide	Common indicator parameters for commercial/industrial properties and processes.	Dark gray color of the soils beneath the surficial concrete and PID readings
GP-26 (3'-5' bgs)	Former foundry	VOCs, SVOCs, Metals and PCBs	Common indicator parameters for commercial/industrial properties and processes.	Possible uncontrolled FILL with debris (i.e. brick fragments) and PID readings
GP-27 (1'-3' bgs)	Former foundry area and machining area	VOCs, SVOCs, Metals and/or Cyanide	Common indicator parameters for commercial/industrial properties and processes.	Uncontrolled FILL with debris (i.e. brick fragments and slag) and PID readings in vadose zone
GP-28 (21'-23' bgs) GW sample at 26' & 45'	Reported former and closed-in-place UST area with suspected UST per GPR Survey	VOCs, PNAs, Metals and/or Cyanide	Common indicator parameters for commercial/industrial properties and processes.	Uncontrolled FILL with debris (i.e. brick fragments) and PID readings
GP-29 (3'-5' bgs)	Used oil and empty drum area and railroad tracks	VOCs, PNAs and Metals	Common indicator parameters for commercial/industrial properties and processes.	Possible uncontrolled FILL and PID readings
GP-30 (boring refusal with no samples)	General coverage. No samples due to auger refusal	No samples collected due to refusal	NA	Boring was terminated at a depth of about 2 feet bgs due to refusaland no sample was collected
GP-31 (6-inches bgs) (soil only)	Missing/stressed vegetation	VOCs, PNAs and Metals	Common indicator parameters for commercial/industrial properties and processes.	Possible uncontrolled FILL and PID readings
GP-32 (6-inches bgs) (soil only)	Stressed vegetation and staining near electrial transformer	PCBs	Common indicator parameter for transformer oil	Possible uncontrolled FILL and PID readings

Notes: If soil samples are collected, the soil sample depths are shown in parentheses next to the sample ID. The groundwater samples were generally collected from the saturated zones immediately below the vadose zone. However in select borings, groundater samples were collected from different depths within the saturated zone. Each of the above borings were located for general site coverage in addition to the purpose listed above.

Table 7

Survey and Gauging Data

Client: Tecumseh Products Company **Location:** 100 East Patterson Road, Tecumseh, Michigan
Geologist: Andy Rauser
Date: 12/16/2008 (updated for 2/2/09) **Project:** 39.02922.8N01

Benchmark = Top step near Shipping 1

Description	Backsight Reading	Instrument Height	Foresight Reading	**Top of Casing Elevation**	Depth To Water 12/16/08	Depth To Water 2/2/09	**Groundwater Elevation 12/16/08**	**Groundwater Elevation 2/2/09**	Comments
BM*	1.53	101.53		100.00					
GP-12			3.22	98.31	21.12	20.98	77.19	77.33	
GP-10			2.63	98.90	21.62	21.49	77.28	77.41	
GP-11			2.46	99.07	21.78	21.63	77.29	77.44	

All Measurements in Feet