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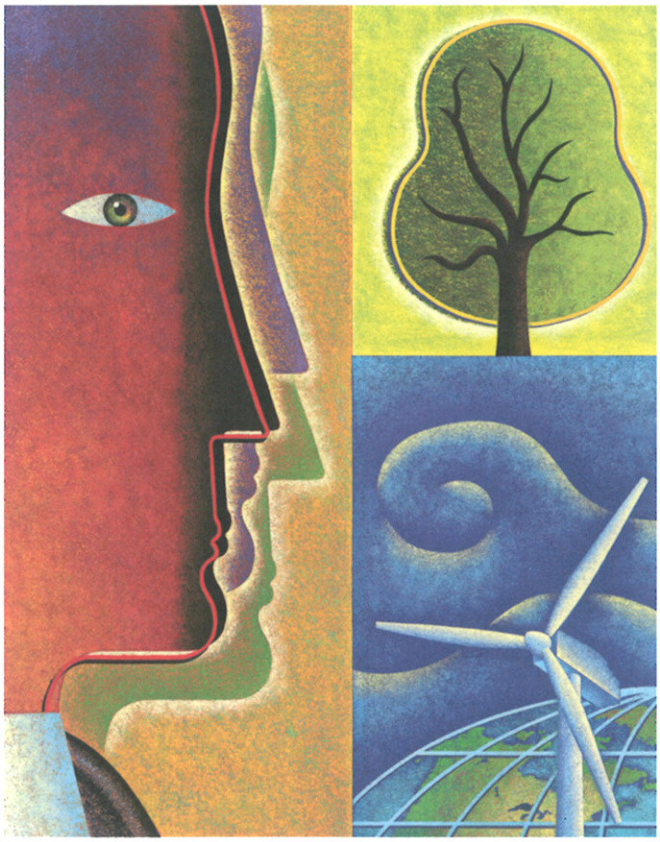
Revised Workplan To Administrative Order on Consent

USEPA Identification No.: ILD 006 114 169

Warner Electric Brake and Clutch Division
Roscoe, Illinois

April 2009



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Prepared For
Dana Corporation

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Section 1
Introduction

1.1 Project Purpose

The purpose of this Revised Workplan to the Administrative Order on Consent (Workplan) is to expedite environmental remediation of the former Warner Electric Brake and Clutch Division facility (Warner Electric or Warner) located in Roscoe, Illinois, by focusing environmental restoration efforts at on-site source areas where residual impacts remain, and updating the remedial approach to include newer advanced remedial technologies and appropriate risk assessment-based decision-making.

This revised Workplan modifies and amends the October 2007 workplan (RMT, 2007). It addresses comments and questions raised by the United States Environmental Protection Agency (USEPA) on the 2007 workplan, and describes the results of investigations and pilot-scale tests conducted at the site. This Workplan is also prepared to assist the USEPA in its review and modification updating the 1989 Administrative Order on Consent (CO) that currently guides remedial activities. Finally, this Workplan proposes final remedial design approaches and monitoring to advance the project to a point where groundwater is restored to potable standards.

Remedial efforts associated with this project have been conducted under the CO entered into by the USEPA Region 5 and Dana Corporation (Dana) on December 28, 1989. The purpose of the CO was to "reduce contaminant levels in groundwater in the vicinity of the facility to levels set forth in the CO." This has been accomplished through the capture and treatment of affected groundwater near the Rock River, approximately 1.25 miles downgradient from the former Warner Electric facility. However, this system, which has operated nearly continuously since 1991, has become increasingly inefficient and ineffective as concentrations of the hazardous constituents in groundwater have decreased over time. Additionally, the site conditions and the state of remedial technology have changed in the 18 years since the original system was installed. The majority of the remaining residual impacts associated with the Warner Electric facility are located on-site, and refocusing remedial efforts to the facility will expedite the attainment of appropriate remedial goals for the site. This workplan outlines an approach to reduce the mass loading of chlorinated volatile organic compounds (CVOCs) into the groundwater flow system and to increase the attenuation capacity of that flow system. These additional remedial actions will facilitate the transition from active remediation provided by the pump-and-treat system to monitored natural attenuation (MNA) and final closure.

Figure 1 shows the location of the facility, the approximate area of affected groundwater, and the location of the existing remediation system. Table 1 lists the hazardous constituents specified in the 1989 CO, as well as the "limits for hazardous waste constituents" (referred to as cleanup criteria in this Workplan). The "limits for hazardous waste constituents" are based on the Safe Drinking Water Act Maximum Contaminant Levels (MCLs) and are the cleanup criteria that must be met under the 1989 CO at the "plane or performance," which was generally recognized as the N1-60, -70, -80, and-100 well nest along Hononegah Road.

The hazardous constituents listed in the CO include 11 volatile organic compounds (VOCs) and chromium. Chromium, which was included in the list because it was identified as a characteristic hazardous waste handled at the facility, has not been detected in routine groundwater sampling associated with the facility and is not considered a pollutant of concern at the site. Of the 11 VOCs listed in the CO, two (dichlorodifluoromethane and methylene chloride) have been rarely detected and a third (toluene), while being detected occasionally, has a much higher cleanup criteria than the other VOCs. Therefore, the remaining eight CVOCs will act as the drivers for remedial activities. Nevertheless, all 11 hazardous constituents will continue to be evaluated as part of the long term groundwater monitoring program and sample results will need to meet the cleanup criteria listed in Table 1. Appendix A contains a copy of the 1989 CO.

1.2 Project Description

This project involves re-evaluating and redirecting both the existing off-site remedial activities and the future on-site remedial efforts associated with the former Warner Electric facility. The goal is to focus remediation toward cost-effective and efficient efforts that enable a more rapid restoration of off-site groundwater quality to limit risk exposures in the short term, to meet potable drinking water standards in the long term, and redevelopment of the closed facility into a beneficial use.

As part of the implementation of this Workplan, three new planes of performance are identified and appropriate cleanup criteria are developed to aid in assessing the success of the remedial efforts outlined in this Workplan. For groundwater, intermediate term goals are established to enable remediation to transition from the active efforts outlined in this Workplan to MNA. The ultimate goal of the remedial effort is to restore groundwater quality to drinking water standards and to enable reuse of the on-site building for commercial or industrial purposes. Figure 2 shows the position of the planes of performance, which are described in more detail below.

1. **The concrete floor in the on-site building** – At this plane of performance, RMT has developed cleanup criteria that will be protective of indoor air for commercial/industrial workers. Subsection 2.2 of this Workplan presents the cleanup criteria. As part of this

effort, we conducted both sub-slab vapor and indoor air sampling to assess background conditions and evaluate the attenuative capacity of the concrete floor at the facility. Subsection 1.5.1 of this Workplan summarizes this work, and Appendix B contains a detailed technical memorandum. The results of this effort will guide the timing of the shutdown of the full-scale soil vapor extraction (SVE) system that will be operated to reduce subsurface VOC soil concentrations. RMT conducted a pilot-scale SVE test to develop a design for the full-scale SVE program. Subsection 3.1 of this Workplan summarizes this work, and Appendix C contains a detailed technical memorandum.

2. **Site property boundary** – At this plane of performance, both the intermediate-term and the long-term cleanup criteria for groundwater quality are developed. The intermediate-term criteria are groundwater concentrations that are protective of infrequent, nonconsumptive groundwater use. Subsection 2.3 of this report summarizes this effort and presents the criteria. The long-term criteria will be groundwater concentrations that are protective of potable groundwater, and as a result, uses the current MCLs. To evaluate the level of effort needed to reduce on-site groundwater concentrations to the intermediate-term criteria, RMT conducted an enhanced *in situ* reductive dechlorination pilot test. Subsection 3.2 of this Workplan summarizes this work, and Appendix D contains a detailed technical memorandum.

3. **Rock River boundary** – At this plane of performance, cleanup criteria will be groundwater concentrations that are protective of the Rock River through discharge of groundwater to the river. Cleanup criteria will be the lower of the EPA-approved surface water ecological benchmarks, which are protective of ecological exposures, or ambient water quality criteria (AWQC), and is protective of human health through ingestion of aquatic organisms and surface water.

   As noted above, influent concentrations to the off-site remediation system have decreased over time to the point where these influent concentrations are now below the National Pollutant Discharge Elimination System (NPDES) effluent limits for the system. As a result, the system contributes virtually no benefit toward cleaning up the groundwater flowing through it. If the system were to be shut down, groundwater containing trace concentrations of the constituents presented in Table 1 would discharge directly into the Rock River.

   To better evaluate the distribution of affected groundwater near the Rock River, we temporarily discontinued operation of the remediation system for less than 90 days in 2008 and conducted screening-level sampling of the shallow aquifer. Subsection 1.5.5 of this Workplan summarizes this work, and Appendix E contains a detailed memorandum. The summary includes the recommended locations for permanent long-term monitoring wells.

   After the long-term monitoring wells along the Edgemere Terrace right-of-way (See Section 5 of this Workplan) are installed and sampled, the results will be compared with the new cleanup criteria. If the results show concentrations below the new cleanup criteria,

Dana will request authorization to idle the remediation system for 2 years while long-term sampling is being conducted (quarterly for the first year and semiannually for the second year).

If the data from the long-term sampling show that the groundwater concentrations have not met the new cleanup criteria, the remediation system will remain on-line and will continue to operate until the system and monitoring well data shows that the background concentrations have met the new cleanup criteria. At that time, the owner will request authorization to shut down the system and perform long-term groundwater sampling to show that groundwater conditions meet the criteria.

After review and approval of this Workplan, the full-scale implementation of the groundwater monitoring well network and enhanced on-site remedial efforts will be undertaken. Results of the full-scale program will be presented in a report to the EPA for comment and approval.

Following implementation of the amended remedy, and when both the off-site and on-site monitoring show that groundwater concentrations meet the risk based cleanup criteria, the remediation will be considered complete, and the site owner will seek closure of the CO.

1.3 Site History

The Warner Electric facility in Roscoe manufactured automotive parts from 1957 until 2004. As part of these operations, CVOCs trichloroethene (TCE); 1,1,1-trichloroethane (1,1,1-TCA); and methylene chloride were used to degrease automotive parts at the facility until 1994. Figure 3 shows the site layout, property boundaries, and wells.

In August 1983, an Illinois State Water Survey and the Illinois Environmental Protection Agency (IEPA) study of nitrate levels in Winnebago County identified groundwater affected with 1,1,1-TCA; TCE; and the TCE breakdown products cis-1,2-dichloroethene (cis-1,2-DCE) and vinyl chloride extending from the former Warner Electric facility toward the Rock River, approximately 1.25 miles to the south (Figure 1). Subsequently, several hydrogeological and water quality investigations were conducted in the vicinity of the Warner Electric facility by county and state agencies (IEPA, 1983; Wehrmann, 1984), and also by consultants to Warner (D'Appolonia, 1983), and consultants to Dana (Fehr-Graham, 1987; Weston, 1991a; Weston, 1991b).

Warner cleaned and closed utility trenches and floor drains in 1983. The trenches were used to convey noncontact cooling water, waste coolant, and other industrial wastes. Prior to the installation of the facility's wastewater treatment plant in 1977, industrial wastewater was conveyed to the polishing pond and east lagoon (Figure 3). These structures were closed in accordance with an IEPA-approved closure plan. In 1984, Warner installed a municipal water

supply system for residents of the Hononegah Country Estates and Moorehaven Subdivision, and the two on-site wastewater retention ponds were closed.

Dana purchased the Warner facility in 1985, and thereafter negotiated and signed the CO, described previously, with the USEPA Region 5. Under the CO, Dana installed and operated the groundwater remediation system downgradient of the facility near the Rock River. The system came online in 1991 and has operated nearly continuously since that time. Operating performance of the system is monitored in accordance with the NPDES Permit No. IL-0063682, issued on September 26, 1991. The current criteria for discontinuing operation of the system meets the *"limits of hazardous waste constituents "* in the plane of performance wells along Hononegah Road. This measure of success will be reviewed and revised during the activities outlined in this Workplan.

In April 1992, Dana submitted a revised Resource Conservation and Recovery Act (RCRA) Part B Post-Closure Permit Application to the IEPA for the two hazardous waste surface impoundments located at the facility. As part of the revised application, RMT prepared a comprehensive summary of groundwater quality data accumulated through quarterly sampling during the first 9 years of monitoring at the facility (RMT, 1992). The report showed that VOC concentrations in on-site and off-site wells had decreased one to three orders of magnitude since Dana implemented corrective measures at the facility.

In 1999, Dana sold the Warner facility to Colfax Corporation (Colfax), but retained responsibility for the enforceable terms of the CO. Between 1999 and 2002, Colfax, in conjunction with Dana, pursuant to the purchase agreement, operated and maintained the groundwater remediation system.

Following 2002, when Dana reacquired the facility from Colfax, a series of environmental investigations were performed at the site. The following is a summary of the investigations.

1.3.1 2002 Groundwater and Soil Investigations

During 2002, RMT and EK Industries, Inc. (EKI), on behalf of Dana and Colfax, respectively, conducted a series of environmental investigations that have updated and clarified the understanding of on-site and off-site conditions. RMT's work was performed in accordance with the *"Workplan for Groundwater Investigation, Warner Electric Facility, Roscoe, Illinois,"* dated July 8, 2002. The results of this effort were summarized in the September 10, 2002, Technical Memorandum to the USEPA. Figure 3 depicts the monitoring well locations, while Table 2 summarizes the laboratory results. The data show that several VOCs were present in the groundwater in excess of the cleanup criteria listed in the CO. A comparison of these results with historical results

shows that concentrations of VOCs have decreased substantially since monitoring began at the site in 1987. The decreasing concentrations are likely a result of a combination of source removal, biodegradation, and the high groundwater velocity flow rates through the area. It should be noted that wells MW-6S, -7S, -8S, -9S, -9D, -10S, -11D, and -12D are constructed with 6-inch–diameter steel casings and screens that make the collection of representative samples difficult and may give low bias to analytical results.

In 2002, EKI performed an on-site investigation during which water supply wells #1, #2, and #3, in addition to temporary wells in soil borings B-1 through B-10, shown on Figure 3, were sampled. Temporary 2-inch–diameter polyvinyl chloride (PVC) wells were installed in the borings, and groundwater samples were collected for VOC analysis. Table 3 summarizes the groundwater sampling results. At borings B-4 through B-9, TCE and/or cis-1,2-DCE were detected in groundwater samples above their current respective cleanup criteria listed in Table 1.

At borings B-5, B-7, and B-8, where total VOCs were detected above 100 µg/L in groundwater, soil samples were also analyzed for VOCs. Table 4 summarizes the soil sampling results and shows the presence of VOCs at concentrations generally ranging from <5 µg/kg to 50 µg/kg. None of the sample results suggested the presence of a substantial source area.

1.3.2 2003 Indoor Vapor Intrusion Investigation

Following a request from the USEPA, Dana retained RMT and MACTEC Engineering and Consulting, Inc. (MACTEC), to conduct a comprehensive indoor/outdoor air sampling program at six separate residences in Hononegah Estates. The sampling program assessed the potential for VOCs associated with the plume of affected groundwater and to see if it resulted in unacceptable indoor air concentrations in the residences. Prior to conducting the sampling program, Dana and the USEPA agreed upon sampling methods and screening levels for this effort (MACTEC, 2004).

Candidate residences were selected based on their proximity to the core of affected groundwater, where concentrations exceeded the USEPA screening criteria at the water table. Candidate residences were contacted by telephone to determine their interest in this voluntary program and then questioned to determine if their residence was suitable for testing. Figure 4 shows the locations of the six residences relative to the plume of affected groundwater.

During the November 2003 testing, indoor air samples were collected from the lowest living level (basement) and ground floor, as well as outside each residence. Time-

averaged samples were collected over a 24-hour period using Suma® canisters. Quality control samples included blanks and duplicates. At the conclusion of the testing program, the canisters were shipped to Air-Toxics, Inc. (Air Toxics), of Folsum, California, for laboratory analysis.

The laboratory results, summarized in Table 5, showed no detections in excess of the agreed-upon screening criteria established for this program. Based on these findings, no additional work was needed to address this issue.

1.3.3 2005 On-Site Groundwater Sampling

RMT conducted an additional round of on-site groundwater sampling from monitoring wells in October 2005 (with the exception of MW-11D and MW-12D). The wells were sampled using low-flow sampling techniques with a bladder pump. The sampling results are also included in Table 2.

Monitoring wells MW-1, MW-3AP2, MW-3P1, MW-4AP2, MW-6S, MW-7S, and MW-9S showed the presence of VOCs, although the only detection exceeding the cleanup criteria listed in the CO was TCE at MW-3AP2 (6.8 µg/L). Groundwater collected from MW-7S, a monitoring well located immediately downgradient of the former alleged source area, which exhibited the highest historical impact, showed significant reductions in VOC concentrations when compared with historical data. It should be noted that RMT has suggested that the highest detection of VOCs in MW-7S may have been erroneous. Also, 1,1,1-TCA was detected at MW-1, located upgradient of the manufacturing facility, indicating that an upgradient off-site VOC source may be present. Groundwater elevation data collected during October 2005 indicate a south-southwesterly groundwater flow direction within the sandy unconsolidated aquifer (Figure 5). This flow is consistent with previous sampling events.

1.3.4 2006 Soil-Gas Sampling Investigation

In early 2006, Dana conducted a passive soil-gas (PSG) sampling program to identify potential source areas at the former Warner facility. The PSG survey was performed by RMT using EMFLUX® soil-gas sampling cartridges provided by Beacon Environmental Services (BEACON). Figure 6 depicts the PSG sample locations and the distribution of the mass total CVOCs detected during this program. PSG samples 60, 61, 62, and 73 contained the highest mass of CVOCs and are proximate to the location of the former TCE Storage Area, and the hydraulic and cutting oils storage areas south of the building. These locations represent potential source areas. The data show a steep decline in CVOC mass south of the TCE Storage Area, with a more gradual decline to the north.

A second potential source area exists near former Vapor Degreaser #1231, where PSG samples 24, 25, and 29 showed a noticeable mass of TCE, and to a lesser extent, cis-1,2-DCE. Substantial VOC mass was also detected in samples 26, 31, 33, 40, 45, and 47, located in the central portion of the building, west of the floor drain network. Historical drawings show that PSG sample locations 26, 31, 40, and 45 were installed just outside of the eastern wall of the original Warner Electric facility building. PSG samples 33, 47, and 60 were installed just outside of the eastern wall of the first expansion to the original Warner Electric facility building.

In addition to identifying the potential source areas outlined above, Figure 6 also shows several areas where little, if any, CVOC mass was detected. This includes much of the northern and eastern portions of the building, and the area south of the former tank area outside the southern wall of the building, including the wastewater treatment facility.

The distribution of VOC mass detected during the PSG program correlates well with the south-southwesterly groundwater flow direction beneath the facility and VOC detections in monitoring wells MW-3AP2, MW-6, MW-7S, and MW-9S/D.

The results of the PSG program were used to conduct a focused soil and groundwater sampling program that was intended to assess the nature of impacts in the potential source areas.

1.3.5 2006 On-Site Soil and Groundwater Investigation

Following recommendations from the PSG survey, Dana conducted a focused soil and groundwater sampling program in 2006 to assess the nature of impacts in the shallow source area. The subsurface investigation was performed by RMT using Matrix Environmental (Matrix) to perform drilling, sampling, and field laboratory analysis, and using PACE Laboratories (PACE) for fix-based confirmation analysis. As part of this effort, a series of 12 soil borings (B-11 through B-17, PSG81, PSG82, PSG83, PSG104, and one location labeled "downgradient") were drilled and sampled. Figure 7 depicts the locations of the borings, and Tables 6 and 7 summarize the analytical results.

Overall, the soil sample results showed limited impacts. Figures 8 and 9 show the distribution of VOCs in cross section. Soil samples from borings B-11 and B-12, located near the former tank area south of the building, contained elevated VOC concentrations (greater than 10 mg/kg) in shallow soil (less than 2 feet below the surface paving), and from a fine-grained silty soil layer encountered at a depth of 9 to 11.5 feet. Deep soil samples from these borings showed much lower concentrations (less than 0.02 mg/kg). The other borings also showed lower VOC concentrations (less than 0.050 mg/kg).

The shallow groundwater results show that elevated levels of cis-1,2-DCE and TCE are present in the area surrounding the former TCE Storage Area south of the building and along the eastern wall of the first addition to the facility. The highest concentrations of TCE form a narrow elongated zone of affected groundwater that extends from B-13 (eastern edge of first addition to the facility, north of the former tanks) to PSG-104 (south of the former tanks), with concentrations decreasing downgradient, as shown on Figure 10. The shallow groundwater results correlate with soil data results around the former tank storage area and with the PSG survey. Sample results from B-15 suggest that a separate TCE source area may exist near Vapor Degreaser 1231. While this matches the passive soil-gas survey results, it is not consistent with the soil data collected at this location. This suggests that a minor source exists at this location.

To assess groundwater quality near the property boundary, a boring was advanced along the groundwater flow line downgradient from B-12 and B-13 and approximately 40 feet west of monitoring well nest MW-3AP2/MW-3P1. The groundwater sample from this boring, labeled "DOWNGRADIENT," showed a TCE concentration (15 µg/L) above those historically detected at MW-3AP2 and well below those detected at PSG-104 during vertical groundwater profiling. Figure 10 shows the location of the "DOWNGRADIENT" sample, and the well nest MW-3AP2/MW3PI. These data, along with the groundwater results from PSG81, PSG82, PSG83, and PSG104, suggest that the affected groundwater area forms a narrow plume as it migrates downgradient from the facility. The results from location B15 suggests that a separate, isolated source may exist in this area. Subsection 1.5.3 of this Workplan presents additional profiling performed in 2008 that clarifies the areas of affected groundwater.

1.3.6 2007 Workplan To Amend Consent Order

During 2007, Dana prepared and submitted to the USEPA a comprehensive workplan to address on-site and off-site remediation. The workplan was structured to provide data and information that would enable the USEPA to revise the CO, which governs on-site remedial efforts, by refocusing remediation away from the largely ineffective off-site remediation system and towards on-site remedial efforts where the limited source area mass remains.

1.3.7 2008 Investigation and Pilot-Scale Remediation Tests

To advance the shift to on-site remediation, Dana voluntarily undertook investigation work, risk evaluations, and pilot-scale remediation testing outlined in the 2007 workplan prior to formal USEPA approval of the workplan activities. Investigation activities included indoor air and sub-slab soil-gas testing at the facility as well as groundwater

screening along three separate transects to define the precise position of the core of affected groundwater under nonpumping conditions. Risk evaluations included the development of indoor air, groundwater, and surface water screening levels that are suitable as points of comparison for data collected during full-scale remedial actions to assess remedial success. Pilot-scale testing at the Dana facility included both SVE for remediation of vadose zone soil and *in situ* lactate/zero valent iron (ZVI) injection into shallow affected groundwater to enhance naturally occurring reductive dechlorination. Both efforts showed that they are capable of addressing the limited residual source area soil and groundwater impacts associated with the facility. The results from these efforts are discussed in Subsection 1.5 of this Workplan and are used to develop the full-scale remedial designs presented in Section 3 of this Workplan.

1.4 Conceptual Model of Hydrogeologic Regime

The geology and hydrogeology of northern Winnebago County have been well studied (Berg, 1984; Wehrmann, 1984). The Warner Electric facility is located on the outwash plain associated with the Rock River bedrock valley. The bedrock valley is 1½ to 2 ½ miles wide and 200 to 300 feet deep, and was incised by the ancient Rock River during periods of intense glacial melting. Available soil boring and well logs show that the Warner Electric facility is underlain by 250 to 300 feet of valley fill, sand, and gravel. Below the overburden, the St. Peter Sandstone, the Franconia and Potasi Formations, and the Galesville Sandstone were encountered at depths of 270 feet, 440 feet, and 500 feet below ground surface (bgs), respectively, during the installation of Production Well #4, located on the northwestern corner of the Warner Electric property (Figure 3).

Numerous investigations conducted at the site have confirmed its position, overlying the outwash plain that is associated with the Rock River bedrock valley Weston (1991a), EKI (2003), and RMT (2006a) all reported that unconsolidated deposits underlying the site consist of sand, gravel, cobbles, and boulders to a depth of 130 feet bgs. Water supply well logs suggest that the coarse-grained material is underlain by approximately 40 feet of gravelly clay followed by an additional 100 feet of sand and gravel.

The textural condition of more near-surface soil is of more importance to the remedial efforts at the site. A close inspection of vadose zone soil shows that the facility is underlain by silty sand and poorly graded sand, which extend from the ground surface to a depth of 5 to 10 feet. During the 2006 investigation, a thin silt layer was observed near the bottom of the silty sand zone. Because this layer could affect the performance of the SVE system planned for the site, its lateral extent and continuity were evaluated with a series of four soil borings (SD-01 through SD-04), which were drilled south of the TCE Storage Area in 2008. Figure 11 shows the depth of the silty layer found in these four borings and the 14 other borings drilled north of the TCE

Storage Area (B-13 through B-17, EX-1, MP-1 through MP-4, and MW-101 through MW-104). Figure 11 shows that the silty layer was not encountered at seven locations, occurs at depths ranging from 2 to 15 feet, and has variable thickness. This suggests that the layer is discontinuous beneath the facility and will not impede the performance of the SVE system planned for the source area. Below the mixed silty sand, sand, and silt, poorly and well graded sand and gravel extend to the water table.

Groundwater generally occurs at a depth of 24 to 30 feet bgs in the surficial aquifer, which extends to the confining unit at 130 feet bgs at the Warner Electric facility. Figure 5 shows that groundwater in the underlying sand and gravel flows to the south-southwest with a horizontal hydraulic gradient of approximately 0.002. This is consistent with previous studies. Results of pumping tests performed on Production Well #3, located on Warner Electric property, and on the recovery well located in the Moorehaven subdivision, show that the hydraulic conductivity of the upper sand and gravel unit ranges from 1.5×10^{-1} to 2.7×10^{-1} cm/s. RMT used the horizontal hydraulic gradient, an assumed effective porosity of 0.25, and a range of hydraulic conductivity to estimate the horizontal groundwater flow rate. The flow rate in the upper glacial aquifer is estimated at 1 to 6 feet/day. These values are consistent with the reported values of D'Appolonia (1983) and Weston (1991b).

Given this geologic and hydrogeologic setting, the analytical data from the site, which is discussed in detail below, show that a limited release of CVOCs, specifically TCE, occurred at the site. The data suggest that the releases occurred at three separate areas beneath the facility. The releases were limited in mass, and while they may have occurred as isolated dense nonaqueous-phase liquids (DNAPL), there was not sufficient entry pressure to penetrate the water table. As a result, the majority of CVOC mass associated with the release is confined to the subsurface vadose zone underlying the site and to shallow groundwater migrating downgradient from the site. The groundwater data show that reductive dechlorination is naturally occurring, albeit at levels that are not adequately robust to meet the MCL cleanup criteria listed in Table 1.

Stable to declining CVOC concentrations in downgradient monitoring wells indicate that the mass loading of CVOCs to the groundwater flow system is equal to, or less than, the flow systems attenuation capacity. That is to say that the rate of degradation of CVOCs in groundwater is equal to, or greater than, the rate that CVOCs are entering the groundwater flow system. The source of CVOCs to groundwater on-site can be either from vapor phase migration or from groundwater contact with source-area residuals. While the data shows off-site groundwater CVOC concentrations are decreasing with time, there appears to be sufficient residual CVOC mass remaining in the on-site source area for groundwater concentrations to remain above cleanup criteria for an extended period. For this reason, active remediation (SVE

and enhanced reductive dechlorination) will be conducted at the site to reduce the mass of CVOCs entering the aquifer, thus enhancing the attenuation capacity of the aquifer. The end result will be to expedite the timeframe in which MNA can act to restore groundwater quality to the MCL cleanup criteria.

1.5 Distribution of Impacts

This section summarizes the distribution of CVOCs in indoor air, sub-slab vapor, soil, and groundwater. Tables 2 through 10 present tabulated summaries of the data collected between 2001 and 2008. These tables present an up-to-date representation of the distribution of affected media associated with the site. Overall, the data show limited impacts. While sub-slab vapors do show substantial levels of impact, the indoor air largely meets the cleanup criteria established for the project. Affected soil is largely restricted to shallow depths and limited areas where fine-grained soil was encountered. Affected groundwater is limited to water table samples collected at, or downgradient from, locations where soil impacts are present. The data show no evidence of deep groundwater impact.

1.5.1 Indoor Air and Sub-Slab Vapors

Figure 12 shows the location of the indoor air and subslab vapor sample points, while Tables 8 and 9 summarize the results of sub-slab vapor and indoor air laboratory analyses, respectively. Appendix B contains a detailed technical memorandum describing the sampling program, which was conducted in accordance with the 2007 Workplan (RMT, 2007). As expected, TCE; cis-1,2-DCE; 1,1,1-TCA; and 1,1-dichloroethane (1,1-DCA) were the compounds most commonly detected. Other detected compounds included 1,2-dichlorobenzene; tetrachloroethane (PCE); trans-1,2-dichloroethene (trans-1,2-DCE), toluene; and vinyl chloride.

The sub-slab results show a distribution that is consistent with the 2006 PSG survey, with the highest concentrations (100,000s $\mu g/m^3$) at sampling points SS-07, SS-08, and SS-09, where passive soil-gas sampling had shown an elevated mass of CVOCs. Sampling points distributed across the remainder of the site showed lower concentrations, although SS-03, SS-04, SS-05, and SS-06, located within the source area defined during the PSG survey, showed concentrations in the 10,000s $\mu g/m^3$. Sampling points SS-01, SS-02, and SS-10 showed lower concentrations, less than 5,000 $\mu g/m^3$. This distribution of data confirms that the area planned for SVE remediation, within the 50,000-nanogram mass boundary developed from the PSG survey, appears to be appropriate and, along with reducing CVOC source mass contribution to the shallow water table, the SVE should also reduce sub-slab vapor concentrations and lead to reduced indoor air concentrations.

The indoor air results showed much lower concentrations with a relatively homogeneous distribution, reflecting attenuation across the concrete floor and air mixing in the open building. TCE was detected in all of the interior samples, including BKGD-1, with concentrations ranging from 8.7 to 16 μg/m^3 (VOCs were not detected in the outdoor background sample [BKGD-02]). The compounds cis-1,2-DCE; 1,1,1-TCA; and toluene were also detected in more than one sample, albeit at substantially lower concentrations of <2.5 μg/m^3, <1 μg/m^3, and <15 μg/m^3, respectively. Toluene, which was detected in all of the indoor air samples, was only detected in four sub-slab samples, including the duplicate sample collected at SS-09. No other parameter was detected so widely in indoor air samples, while being detected in only limited subsurface samples. This suggests that the indoor toluene detection may represent a separate indoor fugitive emission. However, the cleanup criterion for toluene is expected to be well above the concentrations detected at the site, and as a result, it will not drive site remediation.

As noted, the lower indoor air concentrations reflect the attenuative capacity of the concrete floor. Statistical analysis of the data shows that the sub-slab–to–indoor air attenuation factor median values for TCE; cis-1,2-DCE; and 1,1,1-TCA range from 0.00006 to 0.006, with an average value of 0.004. These results are consistent with the recent USEPA literature on sub-slab vapor–indoor air attenuation factors, with a median value of 0.005 and a 95th percentile value of 0.1 (USEPA, 2008).

1.5.2 Soil

Table 6 and Figure 7 summarize the distribution of soil VOCs in soil, while Figures 8 and 9 show the distribution of VOCs in cross section. Soil samples from borings B-11 and B-12, located near the former TCE Storage Area south of the building, contained TCE at concentrations above 1 mg/kg, suggesting that a shallow source area may be present in that area. However, samples from SD-1, SD-2, and SD-4, collected outside the building and south of the TCE Storage Area showed no detectable CVOCs. This reflects the limited extent and isolated nature of the source area impacts. Samples with elevated concentrations (greater than 10 mg/kg) were collected from shallow soil (less than 2 feet below the surface paving), or from the fine-grained silty soil layer encountered at a depth of 9 to 11.5 feet. Deep soil samples from these borings showed much lower concentrations (less than 0.02 mg/kg). The other borings also showed lower VOC concentrations (less than 0.050 mg/kg).

The limited detections of degradation byproducts (*e.g.*, cis-1,2-DCE or vinyl chloride) in the soil samples show that reductive dechlorination is not active in the vadose zone above the water table.

1.5.3 On-Site Shallow Groundwater

Shallow groundwater samples have been collected from permanent and temporary monitoring wells screened at and below the water table (up to 83 feet deep). Figure 13 depicts the on-site locations where groundwater samples have been collected. The data are summarized in the tables as follows:

- Table 2 presents the data from permanent monitoring wells collected between 2001 and 2005.
- Table 3 presents the 2002 screening data collected by EKI from temporary wells in large diameter (8-inch–diameter) boreholes.
- Table 7 presents the 2006 screening data collected by RMT from temporary wells in narrow diameter (1-inch–diameter) boreholes.
- Table 10 presents the 2008 screening data collected by RMT from temporary wells in narrow diameter (1-inch–diameter) boreholes.

The principal effort was performed in 2008 when a screening program, consisting of 30 temporary well borings (AA-1 through AA-30) with a total of 90 samples, was conducted near the downgradient property boundary as depicted on Figure 13. Figure 14 depicts the results along transects A1-A1′ and A2-A2′ and shows three separate cores of affected groundwater with concentrations ranging from the 10s to 100s µg/L. As shown on Figure 13, these cores represent the center of three shallow, separate narrow elongated zones of affected groundwater that extends from the facility to the southwest and are centered on the area surrounding the former TCE Storage Area south of the building and Vapor Degreaser 1231. CVOC concentrations in these zones of affected groundwater can exceed 1,000 µg/L as shown in Tables 7 and 10. The shallow groundwater results correlate with the soil data results around the former TCE Storage Area and with the PSG survey. No CVOC affected groundwater was detected in the shallow screening samples collected downgradient from the former wastewater lagoons in the vicinity of temporary wells AA-11 through AA-19.

Reductive dechlorination is naturally occurring in the shallow groundwater. Directly beneath the building, TCE is the predominant VOC detected. However, downgradient from the building, the affected groundwater shows a shift in the CVOC signature with an increase in the degradation byproduct cis-1,2-DCE. Near the property boundary at AA-29, the TCE to cis-1,2-DCE ratio ranges from 1.4-to-1 to 1-to-1.1. These data suggest that, while reductive dechlorination occurs at the site, it is not adequately robust to reduce concentrations to levels where MNA can complete groundwater remediation and restore concentrations to the cleanup criteria specified in the CO.

1.5.4 On-Site Deep Groundwater

Deep groundwater samples were collected from screened intervals 25 and 50 feet below the water table at PSG82, PSG104, and AA30 directly downgradient from the former TCE Storage Area, where shallow groundwater contained elevated concentrations of CVOCs above 1,000 μg/L. Results from this effort are depicted on Figure 15 and in Tables 7 and 10. With one exception, the deep groundwater sample results did not show detectable concentrations of VOCs. The one exception occurred at PSG-104, where the sample from 51 to 55 feet bgs (~25 feet below the water table) contained 1 μg/L of cis-1,2-DCE. This single data point, very close to the detection limit, is not considered reliable evidence of deep penetration of site-related VOCs into the water table aquifer.

1.5.5 Off-Site Groundwater

Monthly influent sampling from the remediation system, quarterly groundwater sampling from monitoring wells, and the 2002 and 2008 off-site groundwater investigations demonstrate that the plume of affected groundwater is well defined and exhibits substantially decreasing VOC concentrations over time. Figure 16 depicts the concentration trend for TCE in N1-60, which historically, until it was abandoned in 2005 as a result of the expansion of Hononegah Road by the Winnebago County Road Commission, showed the highest concentrations of CVOC in the monitoring system. In the late 1980s, concentrations routinely exceeded 1,000 μg/L at N1-60. However, concentrations dropped to approximately 200 to 400 μg/L in the 1990s. Concentrations continued to fall slowly from 2000 through 2005, when they were detected at 20 to 30 μg/L when the monitoring well was abandoned due to road expansion. Concentrations of the degradation byproduct, cis-1,2-DCE, shown on Figure 16, decreases over time, albeit not as dramatically as the TCE concentrations. This likely reflects more complex, possibly aerobic degradation, although the most important aspect is that the cis-1,2-DCE concentrations measured since 2001 have remained well below the 70 μg/L MCL. Vinyl chloride is generally not detected in the groundwater samples.

A similar decreasing concentration trend has been observed in the influent to the remediation system. Figure 17 depicts the concentrations of TCE and cis-1,2-DCE, the two VOCs detected at the highest concentrations in the effluent since 2002. These results, coupled with the system pumping rate, demonstrate that the influent water quality since late 2005 has met the mass-based NPDES discharge limits for the system effluent. Substantial environmental restoration has been accomplished on the influent, which now renders continued remediation of the off-site groundwater by the

implemented pump-and-treat technology an ineffective and inefficient remedy to achieve the "limits of hazardous waste constituents" outlined in the 1989 CO for the site.

To address this condition and better locate permanent monitoring wells, a detailed groundwater screening program was performed in 2008 along Hononegah Road and Edgemere Terrace (see Figures 2, 18, and 19). Appendix E of this Workplan presents a detailed technical memorandum on the sampling program, which is summarized below.

A total of 68 groundwater samples were collected from 17 borings along transects BB' and CC'. Figures 18 and 19 depict the location of the transects while Figure 20 depicts the results, which show that, at a distance of approximately 3,500 feet downgradient from the facility boundary, the separate areas of affected groundwater commingle to form a single plume. Transect BB' shows that the core of affected groundwater is approximately 200 feet wide with a thickness of 35 feet. The position of the core is consistent with advective flow of impacted water through the shallow aquifer along groundwater flow lines. Accreting recharge at the water table surface, with distance downgradient from the site, results in the center of the plume residing deeper in the flow system at these downgradient locations. As with the data collected near the facility, there is no evidence of DNAPL. More importantly, attenuation of the plume results in a reduction in the TCE and cis-1,2-DCE concentrations below 21 μg/L and 13 μg/L, respectively.

Transect CC' shows conditions approximately 2,500 feet further downgradient, where the plume core retains the nominal dimensions of 200 feet in width and 35 feet in thickness. In this area, the core of the plume is approximately 300 feet east of the recovery well. This shift to the east likely reflects conditions associated with the shutdown of the recovery well, although there may be some influence of the flooding on the Rock River (approximately 500 feet further downgradient from the CC' transect) that occurred during the time frame of the sampling. It should be noted that, during the 2002 screening program, CVOC concentrations of 4 to 25 μg/L were reported in samples from a temporary located near the recovery well. During the 2002 screening program, the remediation system was not shut down. Most importantly, the 2008 results show TCE (maximum 24 μg/L) and cis-1,2-DCE (maximum 18.5 μg/L) concentrations remain low.

Overall, the results show that reductive dechlorination continues to reduce the concentration of TCE and cis-1,2-DCE in the plume. With distance downgradient from the facility, CVOC concentrations decrease, and the individual plumes coalesce into a single core of affected groundwater. Near the Rock River, CVOC concentrations have been substantially attenuated and, as discussed later in this Workplan, are below the ecological and human health screening concentrations. It is important to note that this

distribution of affected groundwater is not consistent with a condition that would suggest measurable impacts associated with the Warner Electric facility that could be expected in the Rock River.

1.6 Existing and Historical Remedial Efforts

1.6.1 On-Site Remedial Efforts

A series of on-site remedial measures were completed at the Warner Electric facility. In 1983, Warner Electric cleaned and closed utility trenches and floor drains within the facility. The trenches had been used to convey noncontact cooling water, waste coolant, and other industrial wastes to two on-site retention ponds. Following cleaning, the trenches were filled with concrete.

In 1983, Warner Electric also cleaned and closed the two on-site wastewater retention ponds (polishing pond and east lagoon) shown on Figure 2. These ponds, which were clay lined, were cleaned by excavating and removing approximately 14,583 tons of waste sediment. As part of the closure, the structures were capped with clay and converted to storm water retention basins. The closure was performed in accordance with an IEPA-approved closure plan.

In 1992, Warner Electric abandoned two 9,000-gallon fuel oil underground storage tanks (USTs), which were abandoned in place. Abandonment consisted of the removal of waste product, followed by pressure-washing of the inside of the tank. Waste product and cleaning fluids were removed from the tanks. Inspection of the inside of the tanks showed no evidence of holes or defects. The tanks were encased in concrete, which made it difficult to access soil backfill for testing. However, in the pipe trough leading from the tanks, soil was tested. After initial results showed low-level photoionization detection (PID) readings and total petroleum hydrocarbon (TPH) detections, approximately 3 cubic yards of soil were removed for disposal. Testing after this removal showed only trace-level detections (PID readings of 7 instrument units and a TPH concentration of 8 mg/kg). On January 23, 1993, the IEPA issued a "no further action" letter for this project.

1.6.2 Groundwater Remediation System

Dana constructed the groundwater recovery and treatment system, located at 11272 Edgemere Terrace, Roscoe, Illinois (Figure 1), pursuant to the CO. The system came on-line on November 11, 1991, and has operated nearly continuously since that time. Groundwater is extracted at a nominal rate of 360 gallons per minute (gpm) from

a single 8-inch–diameter well, which is screened from 30 to 100 feet bgs in the sandy overburden aquifer. Following treatment by air stripping, the water is discharged to the Rock River under NPDES permit number IL0068632.

Until late 2006, air from the stripper was treated with activated carbon to remove VOCs before discharge to the atmosphere. However, as VOC concentrations decreased, the mass of VOCs in the air fell to a level below the *de minimis* requirement. In response to this, Dana requested, and the IEPA granted, a permit modification that allowed Dana to discontinue carbon treatment of the air discharge.

Over the 18-year history of the system, concentrations of VOCs in the influent have decreased substantially. Laboratory results in 1991 and 1992 showed concentrations of 3 to 5 μg/L for 1,1,1-TCA; 20 to 30 μg/L for cis-1,2-DCE; and 300 to 500 μg/L for TCE. Over time, in response to on-site remedial activities, the concentrations have dropped substantially. Figure 17, which depicts the concentration trend for TCE and cis-1,2-DCE (the remaining detectable VOCs in the system influent since 2002), also shows that the influent concentrations to the system have decreased to the point where they are now below the equivalent mass-based discharge limits for the NPDES permit. Although the NPDES discharge limits are not the remediation criteria outlined in the 1989 CO, these low influent concentrations, coupled with the on-site investigation findings, suggest that environmental restoration would be better served if remedial efforts were refocused on-site where a greater mass of VOC constituents remains and serves as residual sources for releases to groundwater.

Operation of this system has prevented the discharge of even trace levels of site-related impacts into the Rock River for the past 18 years. This condition, coupled with the fact that there was never a discharge or release of source area impacts to the river (the source is approximately 1.25 miles north of the river), supports the position that there is a reasonable basis upon which to conclude that there are no measurable adverse impacts on the river (or in river sediment) that could be attributable to the Warner Electric site.

1.7 Remediation Objectives

The objective of the activities described in this Workplan is to expedite the closure of the environmental issues at the Roscoe site by focusing remedial activities at the former Warner Electric site on reducing the CVOC source mass and the CVOC mass loading to the groundwater flow system. The plan also increases the attenuation capacity of the groundwater flow system and discontinues inefficient remedial efforts at the distal end of the plume of affected groundwater. As part of this effort, ecological screening evaluations and human health risk analyses have been performed to develop risk-based intermediate cleanup criteria against

which the remedial efforts will be judged. The specific objectives for the remedial efforts outlined in this Workplan are as follows:

- **Unsaturated soil** – The objective of the SVE system is to reduce the mass of site-related CVOCs in the vadose zone beneath the facility to a level where the remaining CVOC affected soil does not represent an unacceptable risk to indoor air intrusion, nor does it represent an unacceptable source loading to the groundwater flow system.
- **On-site groundwater** – The objective of the enhanced bioremediation program is to reduce the CVOC residual mass in the saturated source area and to increase the attenuation capacity of the groundwater flow system to a level where the remaining affected groundwater does not represent an unacceptable risk to the identified receptors and monitored natural attenuation can restore groundwater concentrations to drinking water standards.
- **Off-site groundwater** – The remedial objective for off-site groundwater is two-fold. In the intermediate term, the objective is to meet the risk-based cleanup criteria developed as part of this Workplan for nonpotable groundwater use. In the long term, the objective is to restore groundwater quality to potable water quality standards.
- **Surface water** – The remedial objective for surface water in the Rock River is to meet applicable water quality criteria that will be protective of ecological receptors and human health.

Section 2
Risk Assessment and Modeling

Ecological and human health risk evaluations have been conducted to develop project-specific risk-based cleanup criteria. These criteria, which will supplement the "limits for hazardous waste constituent" presented in the 1989 CO, have been tailored to the exposure pathways and populations that are at risk of exposure from affected soil and groundwater, both on-site and off-site. Within this section, a conceptual site model (CSM) provides a framework and understanding of the sources, fate and transport, exposure routes, and potential receptors on- and off-site. From this CSM, we have developed the project-specific indoor air cleanup criteria as well as intermediate cleanup goals for groundwater that will serve as the triggers to allow final remediation by MNA. Final groundwater remediation goals will remain as EPA MCLs. Finally, our analysis of conditions at the Rock River shows that the combination of USEPA Region 5 Ecological Screening Criteria and IEPA AWQC serve as adequate cleanup criteria for groundwater discharge to the Rock River.

2.1 Conceptual Site Model

This CSM describes the existing knowledge of environmental transport and exposure pathways between contaminant sources and human receptors. This CSM is an integral part of the risk assessment and is based on presently available site characterization data. Should conditions at the site change, the CSM will be revised as appropriate. Figure 21 summarizes the CSM. The four main components of the CSM are as follows:

1. VOC sources
2. Site-related VOCs
3. VOC release and migration pathways
4. Potential receptors and routes of exposure

Each of the components of the CSM for the former Warner Electric facility are discussed below.

2.1.1 VOC Sources

The source areas are well defined and concentrated in areas historically linked to the manufacture of automotive parts that represent sources of VOCs at the former Warner Electric facility. These areas include the TCE Storage Area in the southern portion of the facility and the former vapor degreaser. Materials used during manufacturing operations may have been accidentally released at these locations.

2.1.2 Site-related VOCs

As described in Section 1 of this Workplan, 11 chlorinated VOCs and one metal (chromium) were identified in the 1989 CO as hazardous constituents (see Table 1). The CVOCs represent the regulatory drivers for this project and will be the focus of the risk assessment activities. The CVOCs represent either major components or biodegradation products of solvents employed in historical manufacturing operations at the facility. These CVOCs were detected in elevated concentrations in on-site soil and on-and off-site groundwater during several site investigations conducted since 1983.

2.1.3 VOC Release and Migration Pathways

The mechanisms of VOC release at a site are linked to historical manufacturing operations. VOCs may have leached from equipment or waste generated at the facility, or they may have been released to subsurface soil from storage tanks, drains, and degreasers. Once released, VOCs could migrate or be transported between environmental media. The major routes of migration from the former Warner Electric facility are as follows:

- Volatilization into ambient air from subsurface soil and groundwater
- Indoor air vapor intrusion
- Leaching from subsurface soil to groundwater
- Vertical and lateral transport in groundwater with discharge to surface water

Fugitive dust emissions and surface water runoff are not significant migration pathways because the area where releases have occurred is entirely paved.

An overview of the potential migration pathways with subsurface soil and groundwater media at the former Warner Electric facility is presented below.

Subsurface Soil

Following on-site release to the subsurface soil, migration of VOCs occurred via the following two primary mechanisms:

1. Infiltration of water containing dissolved-phase concentrations through the unsaturated zone
2. Migration of vapor-phase VOCs through the unsaturated zone

The migration of free-phase DNAPLs through the unsaturated or the saturated zone has not been documented at the site. While it is possible that limited DNAPL ganglia extend vertically downward from the source area, the data

collected at the site suggest that these ganglia, if present, are immobile and isolated, and are not reflective of overall conditions at the site.

Groundwater results do not suggest that DNAPL penetrated the water table. There is little evidence of DNAPL at this site. The maximum CVOC soil concentrations (20 to 25 mg/kg) collected in source areas are well below the 100s to 1,000s of mg/kg that would be expected if maximum residual concentrations were present in soil. Likewise, the maximum concentration of affected groundwater (~1 mg/L) is well below the 1 to 10 percent solubility "rule of thumb" (~10 to 100 mg/L) for CVOCs that is suggestive of DNAPL presence. Furthermore, the lack of detectable CVOCs from deep groundwater samples collected more than 20 feet below the water table shows that deep groundwater impacts, which are typically reflective of the presence of DNAPL, do not occur at the site.

Infiltration – CVOCs, which make up the majority of constituents of potential concern (COPCs), are sparingly soluble in water (on the order of 100 to 1,000 mg/L). As infiltrating water from precipitation or melted snow moves through the soil column, the chlorinated organic solvents partition into the water and are then transported to the water table. VOCs in soil vapor that come into direct contact with the water table can partition into groundwater and provide another means for affecting groundwater quality.

Soil vapor – Soil vapor migration via air diffusion is a significant transport mechanism for CVOCs in vadose zone soil at the site. Soil vapor migration occurs by diffusion as a result of the concentration difference between the source mass and the surrounding area. In the vadose zone, the high vapor pressure and the relatively low water solubility of the chlorinated organic solvents allow these compounds to migrate through the soil as volatilized constituents. VOCs in soil vapor will migrate and spread out in all directions by air diffusion. Site characteristics such as soil moisture content, soil temperature, the presence or absence of an impermeable surface cover, and the age of the release can all affect the distance traveled by soil vapor contaminants. At the former Warner Electric facility, the buildings and pavement at the site form a relatively impermeable surface cover above the source areas. This likely increases the distance a vapor will travel laterally by impeding vapors from escaping to the atmosphere.

While vapor intrusion into the former Warner Electric facility has not been documented at this time, the proximity of the source areas to the building and

the extensive surface cover (building floor and asphalt) at the facility make vapor intrusion likely. Vapor intrusion occurs as VOCs migrate into a building via advective/convective transport following diffuse migration of VOCs through the soil column. As affected soil vapor migrates near a building floor, convective air movement within the soil column transports the vapors through cracks between the foundation and the basement slab floor. The convective migration is induced by a negative pressure within the structure caused by a combination of wind effects and stack effects due to building heating and mechanical ventilation.

Groundwater

The VOCs reach the water table as either dissolved-phase VOCs in groundwater recharge, vapor-phase VOCs in soil vapor, or as DNAPL. At this site, all of the VOCs migrate in groundwater as dissolved-phase impacts.

Dissolved-phase – Even though the CVOCs have limited solubility in water, the dissolved-phase concentrations exceeds the cleanup criteria established in the CO. In the dissolved phase, the VOCs exist as uncharged, non-polar molecules, which are advectively transported with groundwater flow. Dissolved phase CVOCs are subject to attenuation and reductive dechlorination.

Surface Water, Sediment, and Aquatic Organisms

CVOCs detected within site groundwater are collected by the groundwater remediation system before they would discharge with groundwater to the Rock River, located approximately 1.25 miles south of the facility. If the remediation system is shut down, the affected groundwater would discharge to the river. If discharged to surface water, CVOCs will evaporate into the atmosphere. They would not adsorb into the sediment or bioconcentrate in aquatic organisms to any significant degree.

Sampling at the groundwater remediation system shows that concentrations of CVOCs have substantially declined over the past 20 years. As part of the Workplan activities, the system will be temporarily shut down to enable a detailed assessment of groundwater quality and a comparison to cleanup criteria. Ultimately, upon completion of the groundwater remediation, VOC concentrations in groundwater that will discharge into the river will be below the lower of the ecological benchmark levels or human health criteria.

2.1.4 Potential Receptors and Routes of Exposure

VOCs released from the facility may potentially impact human receptors working and/or residing in the vicinity of the site. Site physical and operational characteristics determine which segments of the human populations have realistic probabilities of exposure to contaminants released from the site. The following subsections discuss potentially exposed populations and routes by which receptors may become exposed to site-related constituents at the former Warner Electric facility.

Current Site Conditions and Land Use

The former Warner Electric facility is located at the intersection of McCurry Road and Highway 251 in a rural portion of the village of Roscoe, Illinois. Land use immediately to the east and west of the site is industrial (a railroad and a gravel pit, respectively). To the north, there is residential development beyond McCurry Road (this area is hydraulically upgradient from the site). Agricultural land surrounds the site directly south and to the southwest. However, the agricultural land to the south of the facility is zoned for industrial use, and the land 400 feet to the southwest is zoned for a Planned Unit Development, which will be a mixture of commercial and residential developments. The portion of this area immediately north of Hononegah Road contains a commercial strip mall. South of Hononegah Road, land use is residential (Hononegah Estates and the Moorehaven Subdivisions). These two subdivisions are located hydraulically downgradient of the site. The Rock River is located south of these residential areas.

Currently, the former Warner Electric facility is closed. The site is fenced and access is controlled by a locked gate. The ground surface at, and around, the source areas is covered with either buildings or pavement. No workers are currently employed at the site. Accordingly, pathways through which facility workers might potentially be exposed to contaminants released from the site are incomplete. Although unauthorized entry to the site might occur, potential exposure of trespassers to site-specific contaminants through direct contact with surface soil and/or inhalation of fugitive dust would not occur because the site is paved. In addition, any infrequent presence of trespassers at the site, for short duration, would, at most, result in minimal exposure to volatile emissions from subsurface soil and groundwater.

Groundwater at, and downgradient of, the facility contains TCE; 1,1,1-TCA; and their biodegradation products in a narrow zone of affected groundwater, shown on Figure 9. The concentrations, which reach ~1 mg/L on-site, attenuate

with distance downgradient to levels approaching MCLs in the Hononegah and Moorehaven Subdivisions. Residents and businesses overlying the affected groundwater obtain their potable water supply from the North Park Public Water District. An indoor air sampling program, focused on residents within the plume area, showed no unacceptable indoor air concentrations.

The current potential exposure route associated with the affected groundwater is the non-potable use of water for lawn watering and swimming pools. Accordingly, local children and adult residents may be exposed to CVOCs in groundwater by incidental ingestion, dermal contact, and inhalation.

After flowing through the residential area, the groundwater remediation system currently collects the affected groundwater prior to its discharge to the Rock River. In the future, the groundwater remediation system will be shut down, if it can be shown that the discharge of untreated water does not pose unacceptable risk to the public or the environment. The river is used for recreational activities and fishing. Because of the attenuation of VOCs as they traverse in groundwater, dilution upon release to the river, and high evaporation rates from surface water, potential exposure during swimming or boating is expected to be low. Due to low potential of CVOCs to bio-accumulate in aquatic organisms, the potential for significant exposure to site VOCs through fish ingestion is also considered to be low. CVOCs are not expected to adsorb into sediment; therefore, potential human health risks or health hazards associated with a dermal exposure pathway is not expected to be significant.

Future Site Conditions and Land Use

It is anticipated that the facility will be used for commercial or industrial activities in the future. Therefore, occupational receptors, including facility workers, construction workers, and utility/maintenance workers, may be exposed to site-related contaminants. The predominant potential exposure route for future facility workers would be the inhalation of CVOCs, potentially emanating from groundwater and subsurface soil into indoor and ambient air. Construction workers and utility/maintenance workers are not expected to be exposed to indoor air emissions, but rather through direct contact with soil during construction activities and/or installation, or through the repair of utility lines. Inhalation of VOCs in ambient air and fugitive dust created through the excavation of soil is also a potential exposure pathway for these receptors.

Proposed remediation of groundwater is intended to restore the local groundwater aquifer to beneficial use. Therefore, under future conditions, potential exposure of residential receptors through potable and non-potable water use is not expected to be associated with adverse health effects. Reduction of CVOCs in groundwater would further diminish the potential release of contaminants to the Rock River. Accordingly, future human exposure to site-related constituents through contact with surface water during recreational activities, or ingestion of fish, is not expected to be significant.

Overall, the complete exposure pathways identified for each human receptor under the current and future land use assumptions are as follows:

- **Current Land Use - Local Residents – Adult and Child**
  - Inhalation of VOCs in indoor air
  - Inhalation of VOCs from groundwater (non-potable water use)
  - Ingestion of groundwater (non-potable water use)
  - Dermal contact with groundwater (non-potable water use)
  - Inhalation of VOCs from surface water
  - Ingestion of surface water
  - Dermal contact with surface water
  - Ingestion of fish
- **Future Land Use - Facility Worker**
  - Inhalation of ambient concentrations of VOCs
  - Inhalation of VOCs in indoor air
- **Future Land Use - Construction Worker and Utility/Maintenance Worker**
  - Inhalation of ambient concentrations of VOCs and dust from subsurface soil
  - Incidental ingestion of subsurface soil
  - Dermal contact with subsurface soil
  - Inhalation of VOCs from groundwater
  - Incidental ingestion of groundwater
  - Dermal contact with groundwater
- **Future Land Use - Local Residents – Adult and Child**
  - Inhalation of VOCs in indoor air

- Inhalation of VOCs from groundwater (potable and non-potable water use)
- Ingestion of groundwater (potable and non-potable water use)
- Dermal contact with groundwater (potable and non-potable water use)
- Inhalation of VOCs from surface water
- Ingestion of surface water
- Dermal contact with surface water
- Ingestion of fish

2.2 Indoor Air Cleanup Criteria

Table 11 presents the indoor air cleanup criteria for the 11 site-related VOCs. These criteria were developed using equations adopted from *the Risk Assessment Guidance for Superfund, Volume 1, Part B (RAGs)* (USEPA, 1991) and assume that future use of the facility will be commercial or industrial.

Specifically, the cleanup criteria were generated by solving the risk assessment algorithms for the concentration term with a predetermined level of cancer risk (1E-05) and the hazard index (HI=1). The equations and parameters used in derivation of the indoor air cleanup criteria are presented in the footnotes of Table 11. The parameters used in these equations are USEPA-approved default exposure values applicable for industrial/commercial workers.

Inhalation toxicity values for VOCs used in derivation of the criteria were obtained from the R*egional Screening Levels for Chemical Contaminants at Superfund Sites* prepared by the Oak Ridge Laboratory (June, 2008). The hierarchy of sources of toxicity values used in this document are in accordance with USEPA Guidance – *Human Toxicity Values in Superfund Risk Assessment* (USEPA, 2003). When appropriate, cleanup criteria were derived for both carcinogenic and noncarcinogenic effects, and the lower of the two values was used as a final indoor air cleanup criterion.

2.3 Intermediate Groundwater Cleanup Criteria for Off-Site Exposure

Intermediate groundwater cleanup criteria have been developed to serve as a bridge between active groundwater remediation to reduce source area concentrations, and passive MNA, which will act to restore groundwater to MCL concentrations. Since the area downgradient from the site is served by a public water supply, intermediate cleanup goals must be protective of non-

potable groundwater exposures and must enable the long term goal of meeting potable groundwater standards through MNA.

To assess the concentration that would be protective of non-potable groundwater exposures, a risk evaluation was conducted for exposure to TCE and cis-1,2-DCE, the VOCs with the highest off-site concentration, which assumed affected water would be used to fill a residential swimming pool.

To assess the concentration needed to enable monitored natural attenuation to complete remediation, the BIOCHLOR simulation model was used to predict the source area concentration that would allow for natural attenuation to restore groundwater concentrations to the MCLs at the property boundary 600 feet downgradient from the source area.

2.3.1 Protection of Nonpotable Groundwater Exposures

The intermediate cleanup goals for nonpotable exposure to groundwater for TCE and cis-1,2 DCE were developed using equations adopted from *the Risk Assessment Guidance for Superfund, Volume 1, Part B (RAGs)* (USEPA, 1991), and assumptions regarding the current and future off-site groundwater use. Specifically, the analysis assumes that affected off-site groundwater will not be used as a source of potable water, but may be used to fill residential swimming pools. Accordingly, the intermediate criteria for TCE and cis-1,2-DCE were derived for residential adults and children who may be exposed to affected groundwater through incidental ingestion, dermal contact, and inhalation of vapors while swimming.

Table 12 presents the equations and parameters used in derivation of intermediate criteria. The risk assessment algorithms assume a predetermined cancer level risk of 1×10^{-5} and a hazard index of 1. Exposure parameters used in these equations are a combination of default parameters (e.g., body weight, averaging time, exposure duration), obtained from USEPA-approved sources and site-specific parameters (e.g., exposure frequency or exposure time) selected based on professional judgment. Table 12 includes the exposure parameters used in derivation of the non-potable groundwater cleanup criteria as well as their sources and assumptions.

The algorithms also utilize volatilization factors (VFs) to determine the potential of TCE and cis-1,2-DCE to volatilize from surface water to ambient air. Table 13 presents the equations and parameters used in the derivation of VFs, which were calculated using methods adopted from the *Handbook of Chemical Property Estimation Methods* (Lyman, 1990). The unique aspect of modeling a swimming pool required the assignment of the

pool area (assumed to be 10 m by 15 m) and water velocity (5.29×10^{-5} m/s, based on pump capacity of three turnovers per day).

Toxicity values for TCE and cis-1,2-DCE were obtained from the R*egional Screening Levels for Chemical Contaminants at Superfund Sites* prepared by the Oak Ridge Laboratory (June, 2008).

Concentrations in groundwater for cis-1,2-DCE and TCE were derived for both children and adult receptors for carcinogenic and noncarcinogenic effects, as appropriate. The lowest value derived for each constituent was selected as an intermediate cleanup criterion. Because there are no cancer toxicity values for cis-1,2-DCE, the criteria for this constituent was calculated considering only the noncarcinogenic effects. In contrast, the criteria for TCE was driven by its carcinogenic potency. Table 12 shows that the intermediate cleanup criteria for TCE and cis-1,2-DCE are 1,900 μg/L and 6,100 μg/L, respectively. These concentrations exceed the measured concentrations observed both on- and off-site, indicating that current potential use of impacted groundwater by local residential for non-potable water consumption will not result in adverse health effects.

2.3.2 BIOCHLOR Modeling To Support Monitored Natural Attenuation

RMT used the USEPA BIOCHLOR Natural Attenuation Decision Support System, Version 2.2, model (BIOCHLOR) (USEPA, 2000b) to evaluate the natural attenuation of TCE at, and downgradient from, the Warner Electric facility. The objective of this evaluation was to establish an intermediate cleanup goal for TCE in groundwater proximal to the sources at the facility, which would allow for the suspension of active remedial efforts and enable MNA in the shallow aquifer to complete remediation by restoring groundwater to MCLs at the property boundary, approximately 600 feet downgradient from the source. Since TCE was the compound with the highest concentration and lowest MCL, and since there is no indication that cis-1,2-DCE accumulates in groundwater during the reductive dechlorination process, the modeling effort focused on TCE as the constituent that will drive remedial efforts to the intermediate cleanup criterion.

Appendix F contains a detailed summary of this modeling effort, including baseline and predictive model outputs. Overall, the analysis conservatively shows that, if the source area TCE concentration was reduced to 100 μg/L, the concentration 600 feet downgradient, at the property line, would reach the 5 μg/L MCL. Based on this analysis, we have established an intermediate cleanup goal of 100 μg/L for TCE in groundwater at the source area of the Warner Electric facility.

2.4 Intermediate Cleanup Criteria for Protection of Discharge to Rock River

This section presents the intermediate cleanup criteria for groundwater at the distal end of the plume, near the Rock River. At this location, the exposure pathway of concern is the discharge of impacted groundwater to the Rock River. To address this, RMT derived intermediate groundwater cleanup criteria for the hazardous waste constituents listed in Table 1, which are protective of both ecological and human health exposures in the Rock River. For purposes of this evaluation, it is conservatively assumed that affected groundwater at the distal end of the plume discharges into the Rock River and represents the maximum exposure point concentration in the river. Long term cleanup criteria for all affected groundwater will remain the potable drinking water standards outlined in Table 1.

Table 14 presents the cleanup goals for discharge to the river. For ecological exposures, the USEPA Region 5 ecological screening limits (ESLs) have been adopted as points of comparison to evaluate the need for continued operation of the existing groundwater remediation system. The USEPA Region 5 ESLs are protective benchmarks used to determine the potential for adverse effects on ecological receptors. Constituents detected below these benchmarks are considered as not having adverse effects on the receptors.

Although the USEPA Region 5 has not developed ESLs for cis-1,2-DCE or dichlorodifluoromethane, the agency has provided the following screening levels, which will be used for this project:

CONSTITUENT	SCREENING VALUE	SOURCE
cis-1,2-Dichloroethene	0.620 mg/L	IDEM Chronic Aquatic Life[(1)(2)]
Dichlorodifluoromethane	1.96 mg/L	Region 6 Chronic Aquatic Life[(3)]

(1) Indiana Department of Environmental Management.
(2) U.S. EPA. Great Lakes Initiative Clearing House. Accessed December 18, 2007. http://cfpub.epa.gov/gliclear/criterial quary.cfn
(3) Oak Ridge National Laboratory. RAIS Ecological Benchmark Tool. Accessed December 4, 2007. http://rais.ornl.gov/cgi-bin/eco/ECO select

For human health exposures, the lowest of the IEPA AWQC will be used as points of comparison to evaluate the need for continued operation of the existing groundwater remediation system. The IEPA AWQC are protective benchmarks used to determine the potential for adverse effects on human receptors. Constituents detected below these benchmarks are considered as not having adverse effects on the receptors.

Once groundwater monitoring in the new permanent monitoring wells specified in Section 5 of this Workplan show concentrations that meet these cleanup criteria, the existing groundwater remediation system will be shut down and mothballed while long-term monitoring is conducted to demonstrate that the groundwater quality continues to meet the cleanup criteria

while MNA reduces the concentrations to MCLs. If the long-term monitoring shows that concentrations do not meet the intermediate criteria, the wells will be resampled. If the resampling effort confirms that the concentrations do not meet the cleanup criteria, the remediation system will be restarted and operated until such time that the criteria are met in the monitoring wells.

2.5 Long-Term Groundwater Cleanup Criteria

The long-term groundwater cleanup criteria for this project will be to restore groundwater quality to potable use. As a result, the long-term cleanup criteria for the hazardous waste constituents listed in Table 1 will remain in place and be equivalent to the USEPA MCLs.

Section 3
Summary of Pilot-Scale Testing to Support On-Site Remedial Efforts

During 2008, Dana conducted pilot-scale SVE and *in situ* enhanced reductive dechlorination pilot studies to assist in the evaluation of these remedial approaches. This section discusses the results of these tests.

3.1 Soil Vapor Extraction Test

The pilot-scale SVE program was conducted in the vicinity of boring B-12, where PSG results showed the highest VOC mass (Figure 22). Appendix C presents a detailed technical memorandum summarizing the installation of the SVE system, the step and constant rate tests, and the interpretation of the results.

3.1.1 Soil Vapor Extraction System Design

Figure 23 presents a schematic process instrumentation diagram for the SVE system, which consists of the following components:

- 60 Horsepower positive displacement rotary lobe type vacuum blower and foot-mounted motor
- Two vapor-phase, granular-activated carbon (GAC) canisters (diameter 72″, height 73″), each containing approximately 4,000 lbs VC-Sorb 4 X 8 coconut shell activated carbon
- Vapor-phase flow meters
- Vertical silencer
- Electrical control panel
- Miscellaneous piping, tubing, connectors, and valves

The SVE well points include a shallow well (total depth of approximately 6 feet bgs), an intermediate well (total depth of approximately 12 feet bgs), and a deep SVE well (total depth of approximately 20 feet bgs).

The extraction wells are constructed of 4-inch–diameter PVC pipe. Screen lengths of 5 feet were used for the extraction wells. The wells were valved and manifolded together to allow for individual or combined operation, and to allow the extraction wells

to be turned off independently during full-scale operation. The off-gas from the SVE system was treated to acceptable levels using a vapor-phase granular-activated carbon treatment system.

The area of influence for the pilot-scale test was evaluated using a series of three monitoring probe nests. Figure 22 depicts the monitoring probe nests and SVE extraction wells. The monitoring probes were constructed with narrow-diameter PVC (nominal 1.25-inch–diameter) and 3- to 5-foot–long screens. Air pressure readings were collected from the monitoring points.

3.1.2 Soil Vapor Extraction Pilot-Scale Test Permitting

Before conducting the SVE test, a Joint Construction and Lifetime Operating Permit was obtained from the IEPA. The permit, I.D. Number 201810AAK, issued on January 3, 2008, required that carbon absorption be added to the system to reduce CVOC emissions. The technical memorandum in Appendix C contains a copy of the permit. The permit language states that volatile organic materials (VOMs) may be emitted at up to 8.0 lbs/hr. VOMs are equivalent to VOCs. Inlet samples collected during the test showed VOM recovery rates ranging from 1.4 to 2.1 lb/hour. The exhaust emission rate ranged from 0.02 to 0.1 lb/hour, well below the permitted limit. Although the inlet recovery rates were below the 8.0 lbs/hr rate, concurrent extraction from up to eight SVE wells during the full-scale system operation may require continued carbon treatment of the system exhaust.

3.1.3 Soil Vapor Extraction Pilot-Scale Test Results

Separate tests were conducted for the shallow, intermediate, and deep extraction points. At each point, a step and constant rate test was conducted. The following summarizes the results of the pilot-scale testing:

Test on Shallow Extraction Well

- Vacuums for the shallow well point step test were 4, 7.6, and 8.7 inches of mercury (in Hg), as measured at the wellhead. The corresponding wellhead flow rates stabilized at 198, 319, and 363 standard cubic feet per minute (scfm). Stabilization was typically achieved within 30 minutes, due to the granular nature of the formation.
- The constant rate test operated at an applied vacuum of 9.2 in Hg for approximately 1 hour. The corresponding flow rate was 380 scfm.
- Total VOCs in the inlet remained steady, at approximately 200 ppmv, for the entire test. As expected, the laboratory results showed that TCE and

cis-1,2-DCE were detected at the highest concentrations (> 95% of the total). The maximum VOC recovery rate was 1.5 lbs/hr, and the TCE recovery rate was 1.2 lbs/hr.

- Total VOCs in the exhaust fluctuated between 2 and 11 ppmv. The VOC emission rate was between 0.02 and 0.08 lbs/hr, well below the permit limit of 8 lbs/hr.
- The radius of influence for the constant rate test was approximately 50 feet, based on 1% of the source vacuum at this distance (Buscheck and Peargin, 1991).

Test on Intermediate Extraction Well

- Applied vacuums for the intermediate well point step test were 4.5, 7.2, and 9 in Hg, as measured at the wellhead. The corresponding wellhead flow rates stabilized at 224, 354, and 434 scfm. Stabilization was again achieved within 30 minutes.
- The constant rate test operated at an applied vacuum of 11.2 in Hg for approximately 1 hour. The corresponding flow rate was 560 scfm.
- Total VOCs in the inlet remained steady, between 180 and 190 ppmv. TCE and cis-1,2-DCE were again the CVOCs with the highest concentrations (> 95% of the total). The maximum VOC recovery rate was 2.1 lbs/hr, and the TCE recovery rate ranged from 1.7 to 1.8 lbs/hr.
- Total VOCs in the exhaust fluctuated between 5 and 9 ppmv. The VOC emission rate was between 0.06 and 0.10 lbs/hr, well below the permit limit of 8 lbs/hr.
- The radius of influence for the constant rate test was approximately 70 feet, based on 1% of the source vacuum at this distance.

Test on Soil Vapor Extraction -Deep

- The applied vacuums for the deep well point step test were 4, 7, and 9.5 in Hg, as measured at the wellhead. The corresponding wellhead flow rates stabilized at 376, 525, and 618 scfm. Stabilization was achieved within 30 minutes.
- The constant rate test operated at an applied vacuum of 12 in Hg for approximately 1 hour. The corresponding flow rate was 772 scfm.
- Total VOCs in the inlet were between 90 and 120 ppmv. TCE and cis-DCE were again the CVOCs with the highest concentrations (> 95% of the total).

The maximum VOC recovery rate was 1.7 lbs/hr, and the TCE recovery rate ranged from 1.1 to 1.4 lbs/hr.

- Total VOCs in the exhaust fluctuated between 2 and 5 ppmv. The VOC emission rate was between 0.03 and 0.07 lbs/hr, well below the permit limit of 8 lbs/hr.
- The radius of influence for the deep constant rate test was approximately 80 feet, based on 1% of the source vacuum at this distance.

3.1.4 Soil Vapor Extraction Pilot-Scale Test Conclusions and Recommendations for Full-Scale Implementation

Overall, the results show that SVE is a viable technology for the site to remove TCE, and related degradation byproducts, from the vadose zone soil beneath the facility. The radius of influence (ROI) for the SVE system design is based on process outlined by Buscheeck and Peargrin (1991). In this method, noramalized vacuum levels, measured at the three monitoring points, are plotted as a function of distance away from the extraction well. Buscheeck and Peargrin have shown that the ROI of a given system is the distance where one percent of the applied vacuum was measured. The ROI calculations showed ranges of 50 to 80 feet (50 feet shallow, 70 feet intermediate, and 80 feet deep).

In the west area, the 70 feet ROI was used because the passive soil gas data showed much lower levels of VOCs in the shallow soil. In the eastern area, where more substantial TCE mass is located, RMT selected the more conservative 50 foot radius, in addition to shallow and intermediate nested SVE wells at select locations to provide greater flexibility in operating the SVE system. Figure 24 depicts the layout of the SVE wells, based on these recommendations, and shows a total of 18 wells (including EX-1, -2, and -3 installed for the pilot-scale test).

Regardless of which zone was being used for extraction, the system influence extended across the shallow, intermediate, and deep zones. This suggests that the silt layers, typically observed at approximately 9 to 10 feet bgs, are not acting as confining layers. Based on this finding, RMT recommends single wells, with screens positioned at approximately 10 to 20 feet bgs. This well configuration should be sufficient for SVE at most locations. In the area of highest CVOC mass, in the eastern area near the former TCE Storage Area, RMT recommends installation of separate shallow (4 to 9 feet deep bgs) and deep (15 to 20 feet bgs) extraction wells. These nested wells will offer greater flexibility during the full-scale system operation in the area most likely to require extended treatment.

The vacuum blower installed for the test has a rated capacity of 1,200 scfm at 15 in Hg. During the pilot-scale test, the blower was operated at 380 to 770 scfm, with 9.2 to 12 in Hg during the constant rate tests and a generated ROI ranging from 50 to 80 feet. Given that the ROI may increase over time and our experience with sites similar to Warner Electric, we expect that a discharge rate of 150 scfm will achieve the 50 to 70 foot ROI. Based on this, we anticipate that the system will likely be able to concurrently treat eight extraction wells.

Professional judgment suggests that the anticipated cleanup time frame for each extraction well is approximately 12 to 18 months. Assuming operation of eight wells concurrently, we estimate that the cleanup duration will be on the order of 3 to 4 years. During full-scale system operation, cycling the extraction well operation when inlet concentrations show reduced CVOC recovery, will lead to maximum CVOC removal and faster cleanup. Additional operational efficiency may be gained by directing the treated system exhaust (heated as a result of compression in the blower) into the subsurface. This approach would likely provide the most benefit at extraction points showing substantial rebound during the cycled system operation.

The inlet recovery rates were below the IEPA limit of 8 lbs/hr of VOMs. This suggests that off-gas treatment with carbon may not be necessary. However, if extraction is conducted at up to eight wells simultaneously during the full-scale system operation, the 8 lbs/hr emission rate may be exceeded and carbon treatment of the off gas would be needed. This will need to be addressed in a permit amendment prior to development of the full-scale system.

3.2 Enhanced *In situ* Reductive Dechlorination Pilot Test

3.2.1 Pilot-Scale Test Design

The enhanced *in situ* reductive dechlorination pilot test evaluated the reductive dechlorination technology and verified design parameters such as frequency, volume, and concentration of the injected constituents. Appendix D presents a detailed technical memorandum summarizing the injections performed for the test and subsequent groundwater monitoring.

Figure 25 shows the area RMT selected for the test. It is immediately upgradient of boring B-13, where elevated concentrations of TCE were detected during the 2006 groundwater sampling event, for the pilot-scale injection. The injection system was sized and positioned to extend approximately 40 feet across the plume (perpendicular to groundwater flow). RMT selected a mixture of lactate and zero-valent iron (ZVI) for this

injection program. The lactate and iron form a suitable electron donor, and as our experience has shown, has substantial residency time in the aquifer.

To monitor the results of the test, four 2-inch–diameter water table monitoring wells (MW-101, MW-102., MW-103, and MW-104) were installed at distances of 0, 20, 50, and 80 feet downgradient from the injection zone. These distances were selected on the basis of the high flow rates associated with the site (1 to 6 feet per day). Appendix D contains the boring logs, well construction reports, and well development documentation for the wells.

Redox Tech, LLC, performed the pilot-scale lactate-ZVI injections from September 22, through September 25, 2008. Geoprobe® injections were performed at 24 RMT-specified locations, spaced on approximately 5-foot centers, in an array of three rows, perpendicular to groundwater flow. The rows, each with eight injection points, were staggered to decrease the amount of water avoiding contact with the injection solution while passing through the injection zone. The array of injection points extended approximately 40 feet and spanned the majority of the upgradient end of the projected 1,000 μg/L TCE plume (see Figure 25). This width enabled adequate characterization of the success of the test at the downgradient monitoring points.

RMT coordinated the use of a water truck that was filled with water from the facility's fire loop. An on-site water source was necessary for mixing with the injection chemicals, in trailer-mounted tanks, to achieve the desired solution, and promote the dispersion of the chemicals throughout the aquifer. Metering pumps and miscellaneous tubing and valves were used to inject the solution into the Geoprobe® drill rods. Non-chlorinated water was used since it was readily available and is less disruptive to native bacterial populations.

The lactate-ZVI solution (U.S. Patent Nos. 6,001,252 and 6,472,198) was injected at depths of 35, 33, 31, 29, 27, and 25 feet bgs. The following is a summary of the injection at each depth of each injection point:

- 10.5 gallons of groundwater were added to the mixing vessel.
- 3.5 gallons of the patented mixture of lactates, fatty acids, and a phosphate buffer were added to the vessel. The lactates and fatty acids serve as electron donors for reductive dechlorination of the chlorinated solvents. The phosphate buffer brings the solution to a neutral pH, which is necessary for anaerobic microorganisms to perform effectively.
- 22 pounds of ZVI were added by Redox Tech, LLC. Research has shown that providing ZVI enhances reductive dechlorination. A reductive dechlorination

process occurs on the surface of the granular iron, with the iron acting as an electron donor.

- Approximately 1.7 grams of yeast extract were added to the solution. Research has shown that providing trace nutrients is essential for enhancing anaerobic biodegradation. Yeast extract is a simple way to provide all the necessary nutrient constituents without preparing individual solutions.
- Approximately 18.2 grams of sodium sulfite were added to the solution. This addition helps to scavenge and remove oxygen from the water and create more favorable conditions for anaerobic organisms.

The volume of liquid injected during the pilot-scale test (~270 ft^3), represents less than 1 percent of the volume of water that discharged through the treatment zone during the period of groundwater sampling associated with the pilot-scale test. Based on this, RMT would attribute less than 1 percent of the reduction in CVOC concentrations to dilution.

3.2.2 Permitting

Injection wells are typically permitted as Class V injection wells under the State of Illinois' Underground Injection Control (UIC) Program. This designation is used for aquifer remediation-related wells, which consist of wells used to prevent, control, or remediate aquifer pollution. Class V wells are Rule Authorized, and the Well Inventory Information, which identifies the type of Class V well and the nature of the injection activity, must be submitted prior to beginning injection. Appendix D contains a copy of the Well Inventory Information for the Warner Electric facility, which was provided to the IEPA prior to injection. The IEPA has made no further requests for information regarding this effort.

3.2.3 Pilot-Scale Test Results

Success of the reductive dechlorination was measured from groundwater samples collected at the injection zone (MW-101) and at downgradient monitoring points (MW-102, -103, and -104). Monitoring was conducted before and after the lactate solution injections, to evaluate temperature, pH, conductivity, oxygen reduction potential (ORP), and the concentrations of dissolved oxygen (DO), iron, manganese, nitrate, sulfate, and CVOCs. The objective of the pilot test was to determine if the process of biodegradation of TCE and its breakdown products at the former Warner Electric site could be accelerated with the addition of the lactate solution, and if so, what the preliminary design for the full-scale program should be. No specific numeric performance goals were set for the pilot test.

Table 15 presents the results of groundwater sampling conducted for this pilot-scale injection test and includes field parameters from groundwater sampling (temperature, pH, and conductivity), inorganic parameters showing the reduction-oxidation (redox) condition of groundwater (dissolved oxygen, ORP), inorganic indicators (sulfate, dissolved iron, dissolved manganese, and nitrate), and CVOCs (1,1,1-TCA; 1,1-DCA; PCE; TCE; cis-1,2-DCE; trans-1,2-DCE; and vinyl chloride). Results for other VOCs, which are listed as hazardous constituents in the CO for the site, but were not detected in laboratory samples, are included in the laboratory data reports presented in Appendix D. Figures 26 through 29 show trends in ORP; TCE; and cis-1,2-DCE over the course of the sampling program.

The initial background sampling round, conducted on September 16, 2008, immediately following well development, showed anomalously low CVOC concentrations (TCE ranged from 35.7 to 172 μg/L, and cis-1,2-DCE ranged from 3 to 27.4 μg/L). After reviewing the results, it was determined that the low concentrations reflected excessive mixing of groundwater within the wells during development. To address this, a second background sampling event was conducted 10 days later on September 26. While this second event was conducted immediately following the pilot-scale injection program, the field parameters reflecting redox conditions at MW-102, -103, and -104 showed that the groundwater had not yet been affected by the injection program. MW-101, which was installed within the injection zone, was notably affected by lactate and could not be resampled. During this second background sampling event, CVOC concentrations were notably higher (TCE ranged from 106 to 356 μg/L, and cis-1,2-DCE ranged from 17.1 to 59.3 μg/L). These second round results are considered the background concentrations for purposes of evaluating the pilot-scale test.

During the September 26 sampling event, vertical stratification of affected groundwater was evaluated by collecting shallow and deep samples in wells MW-102 and MW-103. The results, noted in Table 15 with S* and D*, did not show evidence of stratification, and as a result, the shallow and deep sampling effort was not repeated.

To assess the success of the pilot-scale test, the monitoring wells were sampled at 2 weeks (10/8), 6 weeks (11/6), 9 weeks (11/24), and 12 weeks (12/15) following the pilot-scale injection. Results from these sampling events are listed in Table 15, and the concentration trends for TCE; cis-1,2-DCE; and ORP are depicted on Figures 26 through 29. These parameters were selected for graphing as they reflect the change in the oxidation state of the shallow aquifer and show reduction in CVOC concentrations.

All four figures show that the redox state of the groundwater decreased from +200 to +300 mVolts to -200 to -400 mVolts. This reflects a strong shift to a reduced state in the

aquifer, which is much more conducive to reductive dechlorination. This is also reflected in the DO concentrations. Table 15 shows that the DO levels ranged from 1.5 to 8 mg/L before the injection. Following the injection, the DO level decreased to less than 0.5 mg/L in all wells. At MW-104, the most distant well from the injection zone, the decrease was not observed until the November 24 and December 15 sampling events. This is consistent with the travel time estimates for the shallow groundwater.

More importantly, Table 15 and Figures 26 through 29 also show a dramatic decrease in CVOC concentrations. At MW-101, in the injection zone, CVOC concentrations decreased by more than 10 times. The lack of cis-1,2-DCE rebound suggests that abiotic degradation, in addition to reductive dechlorination, is contributing to the decrease in concentrations. This enhances the existing active reductive dechlorination occurring at the site, which is summarized in Subsections 1.5.3 and 1.5.4 of this Workplan. With distance downgradient from the injection zone, the reduced CVOC concentrations are somewhat less dramatic, but continue to show levels 3 to 4 times lower than they were prior to the injection.

The results are consistent with the conceptual model for the site where dissolved phase CVOC affected groundwater undergoes limited reductive dechlorination with distance downgradient from the source area. The pilot-scale test has shown that the level of reductive dechlorination can be markedly enhanced, to a level where, with time, MNA can be expected to complete restoration of groundwater quality to drinking water standards.

3.2.4 Recommendations for Full-Scale Design

Overall, the pilot-scale injection program shows that ongoing reductive dechlorination at the site can be stimulated to result in dramatic decreases in CVOC concentrations in the shallow aquifer. Using enhanced reductive dechlorination to reduce CVOC concentrations to levels below 100 µg/L should enable final remediation of the affected groundwater to be addressed through MNA.

Figure 30 shows the proposed layout of injection points for a full-scale enhanced bioremediation system. Multiple injections are planned for the area of affected groundwater near the former TCE Storage Area. Given the lower level of affected groundwater, beneath the western portion of the building, only single injection zones are planned for these areas. At each point, RMT recommends injecting a mixture of lactate, ZVI, yeast extract, and sodium sulfite in accordance with the pilot-scale test procedures at the six depth ranges listed previously. Monitoring of the full-scale system should be conducted at new monitoring wells installed at, and downgradient of, each

injection zone, as shown on Figure 30. Property boundary monitoring wells, recommended in Section 5 of this Workplan, would supplement the monitoring system and serve as locations for MNA monitoring.

Section 4
Institutional Controls

Following the implementation and completion of the full-scale on-site corrective measures, residual impacts may remain in the subsurface soil or groundwater at concentrations above the cleanup criteria established as part of this Workplan. To minimize the potential for exposure of these affected media, institutional controls will, if necessary, be used to limit the potential for human exposure.

Institutional controls are non-engineering measures designed to prevent or limit exposure to hazardous substances left in place at a site. For the former Warner Electric site, the following institutional controls are most likely to be employed:

- Easements or restrictive covenants, which would be attached to the deed for the property. These would identify the area of affected soil or groundwater and restrict activities that could result in human exposure to the affected media.
- Zoning ordinance, which would control the type of growth and development that could occur on the site.
- Municipal ordinance, which would restrict the installation of water supply wells on properties where affected groundwater is attenuating. This control is effectively in place through the Winnebago County Ordinance Code 86-107, which restricts installation of water supply wells over a portion of the county, including the area of affected groundwater associated with the former Warner Electric site.

Section 5
Long-Term Groundwater Monitoring

This section describes the long-term and the closure groundwater monitoring programs. Dana has conducted extensive groundwater screening to characterize the nature and extent of affected groundwater at, and downgradient from, the Warner Electric facility. The extensive database generated during this effort, coupled with the groundwater remediation system operations data that are routinely recorded, allows Dana to focus the long-term monitoring program on a limited number of wells with only periodic sample collection.

5.1 Permanent Monitoring Well Network

Long-term monitoring will be performed at a series of 12 permanent monitoring wells (10 individual wells and 1 well nest) that will be installed along the three transects where temporary well sampling was conducted. Permanent wells on the AA' transect will evaluate water quality as it moves downgradient toward the facility boundary. Permanent wells on the BB' transect will evaluate water quality immediately upgradient of the residential area in Hononegah Estates. Permanent wells on the CC' transect will evaluate water quality near the Rock River. The following list, along with Table 16 and Figures 13, 18, and 19 summarize the well locations and screen depths:

5.1.1 Source Area Monitoring Wells

- Three single wells, screened from 25 to 35 feet will be installed in the area immediately downgradient from the area of enhanced reductive dechlorination at the Warner Electric facility (Figure 30). The screens will intersect the core of affected groundwater, and sampling of these wells will enable evaluation of the adequacy of the *in situ* remediation program.

5.1.2 AA' Transect Monitoring Wells

- A single well will be installed at AA-02 screened from 32 to 37 feet (Figure 13). This well will monitor affected groundwater emanating from the area near former TCE vapor degreaser #1231. The screen will intersect the area of highest CVOC concentrations detected in this area of affected groundwater (AA-02 35 feet).
- A single well will be installed at AA-05 screened from 35 to 40 feet (Figure 13). This well will monitor affected groundwater emanating from the area near PSG-40 and PSG-45. The screen will intersect the area of highest CVOC concentrations detected in this area of affected groundwater (AA-05 35 feet and AA-05 40 feet).

- A well nest will be installed at AA-29 with screens at 25 to 35 feet (water table) and 40 to 45 feet (Figure 13). This well nest will be located at the property boundary. The screens will intersect the water table and the area of highest CVOC concentrations emanating from the former TCE storage area.

5.1.3 BB' Transect Monitoring Wells

- Individual wells will be installed within the core of affected groundwater at BB-04 (80 to 85 feet) and at BB-05 (65 to 70 feet, Figure 18) to monitor long-term natural attenuation of the plume.
- Individual wells will also be installed outside the core at BB-03 (70 to 75 feet) and at BB-06 (70 to 75 feet). Figure 18 depicts the well locations. These wells will be located near Hononegah Road and will enable monitoring of the affected groundwater as it migrates into the Hononegah Estates subdivision.

5.1.4 CC' Transect Monitoring Wells

- Individual wells will be installed within the core of affected groundwater at CC-07 (50 to 55 feet) and at CC-08 (50 to 55 feet, Figure 19) to monitor long-term natural attenuation of the plume.
- Individual wells will also be installed outside the core at CC-03 (70 to 75 feet) and at CC-09 (80 to 85 feet). Figure 19 depicts the well locations. These wells will be located along Edgemere Terrace and will evaluate the core of the affected groundwater as it migrates toward the Rock River.

5.2 Long-Term Monitoring Program

Dana will focus the long-term monitoring program on the following three areas:

- Meeting intermediate cleanup criteria at the on-site source area
- Meeting long-term groundwater cleanup goals at the facility property boundary and Hononegah Road
- Meeting the cleanup criteria for discharge to the Rock River

Initially, groundwater samples will be collected from the permanent monitoring wells on a quarterly basis for the first year. The data results from the first year will be reviewed to establish an acceptable frequency for the second and subsequent years. Given the stable nature of the plume of affected groundwater, it is anticipated that semi-annual sampling frequency will be employed for the second year. Sampling frequency will be reviewed every 5 years. It is anticipated that the frequency will be reduced to an annual basis after 5 years until long-term cleanup criteria are met.

Samples will be collected using low-flow sampling procedures with a bladder pump, or other positive displacement pump. Samples will be analyzed for 11 VOCs using USEPA Method 8260 and for chromium using USEPA Method 6010 with Quantitation Limits that are below the MCL cleanup criteria. Quality control samples will include trip blanks, blind duplicates, as well as laboratory method blanks and surrogate recovery samples.

Section 6
References

Berg, R.C., J.P. Kempton, and A.N. Stecyk. 1984. Geology for planning in Boone and Winnebago Counties. Illinois Department of Energy and Natural Resources, State Geological Survey Division, Circular 531, 69p.

Bradley, P.M. and F.H. Chapelle. 1996. Anaerobic mineralization of vinyl chloride in Fe(III)-reducing sediments. *Environmental Science and Technology.* Volume 30. Pages 2084-2086.

Bradley, P.M. and F.H. Chapelle. 1997. Kinetics of DCE and VC mineralization under methanogenic and Fe(III)-reducing conditions. *Environmental Science and Technology.* Volume 31. Pages 2692-2696.

Buscheck, T. and T.R. Peargin. 1991. Summary of a nation-wide vapor extraction system performance study. *Proceedings: Petroleum Hydrocarbons and Organic Chemicals in Ground Water*. NGWA/API, Dublin, Ohio. pp. 205-19. November 1991.

D'Appolonia. 1983. Site investigation/interim remedial measure, Warner Electric Brake and Clutch Company, Roscoe, Illinois. September 1983.

EKI. 2002. Supplemental work plan for investigating the potential for volatile organic chemicals in groundwater, Warner Electric, Inc., 5253 McCurry Road, Roscoe, Illinois. August 2002.

EKI. 2003. Evaluation of available data regarding historical use and release of chlorinated solvents to the subsurface at the Former Dana Corporation Facility (Warner Electric, Inc.), Roscoe, Illinois. May 2003.

Fehr-Graham. 1987. Groundwater monitoring and trend analysis, Warner Electric Brake and Clutch Company.

IEPA. 1983. Preliminary hydrogeologic investigation of TCE contamination near Roscoe, Winnebago County. August 1983.

Lyman, W.J., W.F. Reehl, and D.H. Rosenblatt (eds). 1990. Handbook of chemical property estimation methods. American Chemical Society. Washington, DC.

New York State Department of Health. 2005. Guidance for evaluating soil vapor intrusion in the State of New York – *DRAFT*. February 2005

RMT. 1992. Summary of the groundwater quality in the vicinity of the Dana Corporation, Warner Electric Division, Roscoe, Illinois. June 1992.

RMT. 2002a. Workplan for groundwater investigation, Warner Electric Facility, Roscoe, Illinois. July 2002.

RMT. 2002b. Data summary from monitoring well sampling, Warner Electric, Roscoe, Illinois. September 2002.

RMT. 2003. Conclusions from temporary well groundwater sampling program, Warner Electric, Roscoe, Illinois. February 2003.

RMT. 2006a. On-site soil and groundwater investigation results, former Warner Electric Brake and Clutch Division, Roscoe, Illinois. August 2006.

RMT. 2006b. Passive soil gas survey at the Warner Electric Brake and Clutch Division property, Roscoe, Illinois. August 2006.

RMT. 2007. Workplan to amend administrative order on consent. Warner Electric Brake and Clutch Division, Roscoe, Illinois. October 2007.

USDOE. 2002. Enhanced *in situ* bioremediation, Innovative Technology Summary Report, DOE/EM-0624. July 2000.

USEPA. 1983. RCRA 3008(h) Consent Order ILD 006 114 169 between USEPA and Dana Corporation, Warner Electric Division. December 28, 1983.

USEPA. 1985. Guidelines for deriving numerical national water quality criteria for the protection of aquatic organisms and their uses. Office of Research and Development.

USEPA. 1986. Quality criteria for water. Office of Water Regulations and Standards. EPA 440/5-86-001.

USEPA. 1991. Risk assessment guidance for Superfund Volume I – Human health evaluation manual (Part B, Development of risk-based preliminary remediation goals). Office of Emergency and Remedial Response. Publication # 9285.7-01B.

USEPA. 2000a. Engineered approaches to *in situ* bioremediation of chlorinated solvents: fundamentals and field applications, Office of Solid Waste and Emergency Response (5102G), EPA 542-R-00-008. July 2000.

USEPA. 2000b. *BIOCHLOR natural attenuation decision support system, users manual, Version 1.0,* EPA/600/R-00/008, Washington, DC 20460. EPA, Office of Research and Development.

USEPA. 2002. OSWER draft guidance for evaluating the vapor intrusion to indoor air pathway from groundwater and soils (Subsurface vapor intrusion guidance). November 2002. EPA 530-D-02-004.

USEPA. 2004. *Preliminary remediation goals table- USEPA Region 9.*

USEPA. 2008. U.S. EPA's vapor intrusion database – preliminary evaluation of attenuation factors – draft document. U.S. EPA Office of Solid Waste, Washington, DC, March 4, 2008.

Wehrmann., A.H. 1984. Investigation of a volatile organic chemical plume in northern Winnebago County, Illinois. ENR Document no. 84/09, Southwest Contract Report 346, 83 p.

Weston. 1991a. Warner Electric Part B closure permit application.

Weston. 1991b. Pump test reduction summary. Technical File Notes, 17 p.

Table 1
Hazardous Constituents Cleanup Criteria
Former Warner Electric Facility - Roscoe, Illinois

HAZARDOUS CONSTITUENT	CLEANUP CRITERIA (µg/L)	USEPA REGION 5 ESL[1] (µg/L)	IEPA WATER QUALITY CRITERIA (lowest value) (µg/L)
Trichloroethylene	5[2]	47	25[9]
1,1,1-Trichloroethane	200[2]	76	390[10]
Vinyl chloride	2[2]	930	120[9]
Methylene chloride	10[5]	940	340[9]
Tetrachloroethylene	5[3]	45	150[10]
cis-1,2-Dichloroethylene	70[3]	620[4]	1100[10]
Dichlorodifluoromethane	7000[5]	1960[6]	NA
trans-1,2-Dichloroethylene	100[3]	970	34,000[11]
1,1-Dichloroethane	200[7]	47	2,000[10]
1,4-Dichlorobenzene	75[2]	9.4	620[10]
Toluene	2,000[3]	253	NA
Chromium	50[8]	42	NA

Notes:
(1) ESL = ecological screening level.
(2) Maximum Contaminant Level (MCL) promulgated under the Safe Drinking Water Act.
(3) Proposed MCL for the USEPA.
(4) Indiana Department of Environmental Management chronic aquatic life, USEPA. *Great Lakes Initiative Clearing House*. Accessed 12/18/07. http://cfpub.epa.gov/gliclear/criteria_qeury.cfn.
(5) Health-based limit for systemic toxicant established by the USEPA.
(6) Region 6 Chronic Aquatic Life. Oak Ridge National Laboratory. *RAIS Ecological Benchmark Tool*. Accessed 12/4/07. http:/raus,irbk,giv/cgibin/eco/ECO select.
(7) No limit or criterion established by the USEPA; limit indicated shall be used for this Consent Order.
(8) Maximum concentration of constituents for groundwater protection (40 CFR 264.94).
(9) Illinois Water Quality Criteria, Human Nonthreshold Criterion (Illinois Pollution Control Board (IPCB) regulations at 35 IAC 302.210, Nov. 11, 2008.
(10) Illinois Water Quality Criteria, Aquatic Life Criteria – Chronic (Illinois Pollution Control Board (IPCB) regulations at 35 IAC 302.210, Nov. 11, 2008.
(11) Illinois Water Quality Criteria, Human Threshold Criterion (Illinois Pollution Control Board (IPCB) regulations at 35 IAC 302.210, Nov. 11, 2008.

Table 2
2001 to 2005 Summary of Volatile Organic Compounds in Monitoring and Production Wells
Former Warner Electric Facility
Roscoe, Illinois

MONITORING LOCATION	DATE COLLECTED	cis-1,2-DICHLOROETHENE	1,1-DICHLOROETHANE	1,1-DICHLOROETHENE	TETRACHLOROETHENE (PCE)	trans-1,2-DICHLOROETHENE	1,1,1-TRICHLOROETHANE	TRICHLOROETHENE (TCE)	VINYL CHLORIDE
MW-1	07/11/02	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0
	10/03/05	<0.50	<0.50	<0.50	<0.50	<0.50	**0.65**	<0.20	<0.20
MW-2P1	07/11/02	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0
	10/03/05	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.20	<0.20
MW-2AP2	07/11/02	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0
	10/03/05	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.20	<0.20
MW-3P1	07/12/05	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	**1.0**	<2.0
	10/07/05	<0.50	<0.50	<0.50	**1.2**	<0.50	<0.50	<0.20	<0.20
MW-3AP2	07/12/02	**3.2**	**2.2**	<1.0	<1.0	<1.0	**1.9**	**5.5**	<2.0
	10/11/05	**3.4**	<0.50	<0.50	<0.50	<0.50	<0.50	**6.8**	<0.20
MW-4P1	07/11/02	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0
	10/06/05	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.20	<0.20
MW-4AP2	07/11/02	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	**1.4**	<2.0
	10/06/05	<0.50	<0.50	<0.50	**0.61**	<0.50	<0.50	**1.0**	<0.20
MW-5P1	07/11/02	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0
	10/06/05	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.20	<0.20
MW-5AP2	07/11/02	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0
	10/06/05	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.20	<0.20
MW-6S	10/30/01	**5.8**	<1.0	<1.0	<1.0	<1.0	<1.0	**5.4**	<2.0
	01/22/02	**3.6**	<0.25	<0.25	<0.25	<0.25	<0.25	**3.4**	<0.25
	07/17/02	**1.3**	<1.0	<1.0	<1.0	<1.0	<1.0	**1.8**	<2.0
	10/07/05	**3.5**	<0.50	<0.50	<0.50	<0.50	<0.50	**1.9**	<0.20
MW-7S	10/30/01	**530**	**5.4**	<5.0	<5.0	<5.0	**22**	<5.0	<10
	01/22/02	**370**	**3.7**	**1.0**	<0.25	**2.6**	**26**	**1.1**	<0.1
	07/17/02	**78**	**1.2**	<1.0	<1.0	<1.0	**7.8**	<1.0	<2.0
	10/11/05	**16**	**0.71**	<0.50	<0.50	<0.50	**2.7**	<0.20	<0.20
MW-7D	10/30/01	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0
	01/22/02	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25
	07/17/02	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0
	10/06/05	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.20	<0.20
Consent Order Cleanup Criteria		**70**	**200**	**NA**	**5**	**100**	**200**	**5**	2

Table 2
2001 to 2005 Summary of Volatile Organic Compounds in Monitoring and Production Wells
Former Warner Electric Facility
Roscoe, Illinois

MONITORING LOCATION	DATE COLLECTED	cis-1,2-DICHLOROETHENE	1,1-DICHLOROETHANE	1,1-DICHLOROETHENE	TETRACHLOROETHENE (PCE)	trans-1,2-DICHLOROETHENE	1,1,1-TRICHLOROETHANE	TRICHLOROETHENE (TCE)	VINYL CHLORIDE
MW-8S	10/30/01	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0
	01/22/02	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25
	07/17/02	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0
	10/06/05	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.20	<0.20
MW-9S	10/30/01	**8.9**	<1.0	<1.0	<1.0	<1.0	**6.8**	<1.0	<2.0
	01/22/02	**9**	<0.25	<0.25	<0.25	<0.25	**7.4**	<0.25	<0.25
	07/17/02	**4**	**2.3**	<1.0	<1.0	<1.0	**7.4**	<1.0	<2.0
	10/11/05	<0.50	<0.50	<0.50	<0.50	<0.50	**1.6**	<0.20	<0.20
MW-9D	10/30/01	<1.0	<1.0	<1.0	<1.0	<1.0	**2.4**	<1.0	<2.0
	01/22/02	<0.25	<0.25	<0.25	<0.25	<0.25	**2.0**	<0.25	<0.25
	07/17/02	<1.0	**2.1**	<1.0	<1.0	<1.0	**2.4**	<1.0	<2.0
	10/11/05	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.20	<0.20
MW-10S	10/30/01	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0
	01/22/02	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25
	07/17/02	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0
	10/06/05	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	**0.66**	<0.20
MW-11D	06/19/02	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
MW-12D	06/19/02	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Supply Well 1	06/11/02[1]	<0.25	<0.25	<0.25	**26**	<0.25	<0.25	**0.27**	<0.25
	06/11/02[2]	<0.25	<0.25	<0.25	**0.45**	<0.25	<0.25	<0.25	<0.25
	06/19/02	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Supply Well 2	06/11/02[1]	<0.25	<0.25	<0.25	**53**	<0.25	<0.25	**0.48**	<0.25
	06/11/02[2]	<0.25	<0.25	<0.25	**0.61**	<0.25	<0.25	<0.25	<0.25
	06/19/02	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Supply Well 3	06/20/02	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Consent Order Cleanup Criteria		**70**	**200**	**NA**	**5**	**100**	**200**	**5**	2

Notes:

All concentrations expressed in micrograms per liter (µg/L).

Detected concentrations in bold font.

Shaded cell indicates concentration above Class I Groundwater Quality Standards.

Class I Groundwater Quality Standards from section 620.410 of Illinois Administration Code Title 35 part 620, as amended February 5, 2002.

Samples from October 2001 through January 2002 and on June 19 and 20, 2002, were collected by Fehr-Graham and EKI.

Samples from June 11, 2002 and July 2002 through October 2005 and on June 11, 2002, were collected by RMT.

[1] Denotes first sample collected on that date.

[2] Denotes second subsequent sample collected on that date, 45 minutes after the first sample.

Table 3
EKI 2002 VOC Screening Results From Temporary Wells
Former Warner Electric Facility
Roscoe, Illinois

SAMPLE ID[2]	SAMPLE DEPTH (ft bgs)	DATE SAMPLED	VOC BY EPA 8260 B (µg/L)										
			BROMODICHLORO-METHANE	CHLOROFORM	1,1-DCA	cis-1,2-DCE	trans-1,2-DCE	1,2-DCP	METHYLENE CHLORIDE	PCE	1,1,1-TCA	TCE	OTHER VOCS[3]
Groundwater Samples													
B-1-GW-Purged	30-40	9/18/02	<2.00[4]	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	**2.35**	<2.00	ND
B-2-GW-Purged	30-40	9/13/02	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	**3.82**	ND
B-3-GW-Purged2	30-40	9/12/02	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	**2.77**	**2.89**	ND
B-4-GW-Purged	29-39	9/11/02	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	**31.4**	**26.6**	ND
B-4-GW-Purged2	29-39	9/11/02	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	**29.6**	**25.8**	ND
B-5-GW[6]	0-40	9/10/02	**5.13**[5]	**3.83**	**2.34**	**48.7**	<2.00	<2.00	<2.00	**3.87**	**69.3**	**505**	ND
B-5-GW-Purged	25-35	9/12/02	<2.00	**2.11**	**2.08**	**23.2**	<2.00	<2.00	<2.00	**3.88**	**51.0**	**283**	ND
B-6-GW-Purged	30-40	9/13/02	<2.00	<2.00	<2.00	**2.81**	<2.00	<2.00	<2.00	<2.00	<2.00	**5.93**	ND
B-7-GW-Grab	30-40	9/16/02	<2.00	<2.00	**5.66**	**141**	<2.00	<2.00	**2.7**[7]	<2.00	**4.17**	**260**	ND
B-7-GW-Purged	30-40	9/16/02	<2.00	<2.00	<2.00	**169**	<2.00	<2.00	<2.00	<2.00	**2.87**	**304**	ND
B-7-GW-Purged2	30-40	9/16/02	<2.00	<2.00	**4.15**	**168**	<2.00	<2.00	<2.00	<2.00	**3.16**	**280**	ND
B-8-GW-Grab	23-33	9/17/02	<2.00	<2.00	**2.08**	**397**	<2.00	**4.47**	**2.7**[7]	<2.00	<2.00	**172**	ND
B-8-GW-Purged	23-33	9/17/02	<2.00	<2.00	<2.00	**291**	<2.00	**3.64**	<2.00	<2.00	<2.00	**152**	ND
B-8-GW-Purged2	23-33	9/17/02	<2.00	<2.00	<2.00	**354**	<2.00	**4.52**	**2.54**[7]	<2.00	<2.00	**170**	ND
B-9-GW-Purged	30-40	9/18/02	<2.00	<2.00	<2.00	**9.26**	<2.00	<2.00	<2.00	**2.05**	**6.07**	**39.1**	ND
B-10-GW-Purged	25-35	9/17/92	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	**2.30**	ND
Quality Assurance/Quality Control Water Samples													
Trip Blank 1[8]	--	9/12/02	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	ND
Trip Blank 2	--	9/13/02	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	ND
Trip Blank 3	--	9/18/02	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	**2.62**[7]	<2.00	<2.00	<2.00	ND
ERG-1[9]	--	9/11/02	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	ND
ERB-2[10]	--	9/13/02	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	ND
FB-1[11]	--	9/13/02	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	<2.00	ND

Footnotes:

(1) Chemical analyses of soil samples were performed by Great Lakes Analytical of Buffalo Grove, Illinois.

(2) Sample IDs provide in formation pertaining to the type of sample or collection method, as follows:
- Purged = sample was collected after purging a minimum of three casing volumes of water from temporary well.
- Purged2 = duplicate purge sample.
- Grab = sample was collected prior to purging water from temporary well.
- Grab2 = duplicate grab sample.

(3) Refer to laboratory data sheets in EKI report for reporting limits of individual VOCs.

(4) Less than symbol ("<") denotes that the compound was not present above the laboratory reporting limit indicated.

(5) **Bold** indicates that the analyte was detected.

(6) Groundwater sample B-5-GW is a grab sample that was collected through the inside of the hollow-stemmed augers, prior to construction of the temporary well.

(7) The Great Lakes Analytical reports that that (1) the concentration of the analyte detected in the sample is characteristic of a laboratory artifact, and/or (2) the method blank associated with this sample contains this analyte. Due to the detection of methylene in the method blank, this result may be considered "Not Detected."

(8) Trip blank water samples consist of deionized water prepared by the laboratory.

(9) ERT-1 water sample consists of distilled water pumped through decontaminated downhole pump. Pump was used to purge groundwater prior to collecting "purged" samples.

(10) ERG-2 water sample consists of distilled water placed in Teflon® bailer and dispensed into sample container. New, unused Teflon® bailers were used to collect groundwater samples.

(11) FB-1 water sample consists of distilled water purged directly into sample container. Sample FB-1 was collected before collecting groundwater samples at boreholes B-2, located inside the Warner Electric Building.

Notes:

ft bgs = feet below ground surface.
VOC = volatile organic compounds.
µg/L = micrograms per liter.
µg/L = micrograms per liter.
DCA = dichloroethane.
DCE = dichloroethene.
DCP = dichloropropane.
PCE = tetrachloroethene.
TCA = trichloroethane.
TCE = trichloroethene.

Table 4
EKI 2002 VOC Results From Soil Borings
Former Warner Electric Facility
Roscoe, Illinois

SAMPLE ID	SAMPLE DEPTH (ft bgs)	DATE SAMPLED	VOCs by EPA 8260 (µg/kg)[2]												
			ACETONE	CARBON DISULFIDE	1,1-DCA	cis-1,2-DCE	ETHYL-BENZENE	METHYLENE CHLORIDE	PCE	TOLUENE	1,1,1-TCA	TCE	VINYL CHLORIDE	TOTAL XYLENES	OTHER VOCS[3]
B-5-5.5	5.5-6	9/10/02	**48.8**[4]	<5.27	<5.27	<5.27	<5.27	**6.58**[6][7]	<5.27	<5.27	<5.27	<5.27	<5.27	<10.5	ND
B-5-10.5	10.5-11	9/10/02	<25.6[5]	<5.11	<5.11	<5.11	<5.11	**6.19**[6][7]	<5.11	**9.37**	<5.11	**22**	<5.11	<10.2	ND
B-5-15	15-15.5	9/10/02	<26.0	<5.20	<5.20	<5.20	<5.20	**7.95**[6][7]	<5.20	<5.20	<5.20	**10**	<5.20	<10.4	ND
B-7-5	5-5.5	9/16/02	**53.6**	**8.69**	**110**	**23**	<5.01	**10.9**[6][7]	**6.3**	<5.01	**155**	**30.4**	**24.9**	**26.4**	ND
B-7-10	10-10.5	9/16/02	<25.9	<5.19	<5.19	**8.99**	<5.19	**10.5**[6][7]	<5.19	**6.25**	<5.19	**18.1**	<5.19	<10.4	ND
B-7-15	15-15.5	9/16/02	**34.2**	<5.61	<5.61	**34.6**	<5.61	**8.86**[6][7]	<5.61	**9.10**	<5.61	**48.2**	<5.61	<11.2	ND
B-8-5	5-5.5	9/17/02	<31.1	<6.22	<6.22	<6.22	<6.22	**13.1**[6][7]	<6.22	**8.30**	<6.22	<6.22	<6.22	<12.4	ND
B-8-10	10-10.5	9/17/02	<36.6	<7.33	<7.33	<7.33	**21.8**	**11.7**[6][7]	<7.33	**39.8**	<7.33	<7.33	<7.33	**27.0**	ND
B-8-15	15-15.5	9/17/02	<26.8	<5.35	<5.35	<5.35	<5.35	**10.4**[6][7]	<5.35	**9.31**	<5.35	<5.35	<5.35	<10.7	ND

Notes:

ft bgs = feet below ground surface.
VOC = volatile organic compounds.
mg/kg = milligrams per kilogram.
ND = not detected.
DCA = dichloroethane.
DCE = dichloroethane.
PCE = tetrachloroethene.
TCA = trichloroethane.
TCE = trichloroethene.

Footnotes:

(1) Chemical analyses of soil samples were performed by Great Lakes Analytical of Buffalo Grove, Illinois.
(2) Concentrations reported as dry weight in accordance with EPA Method 8260B.
(3) Refer to laboratory data sheets in EKI report for reporting limits of individual VOCs analyzed by EPA Method 8260B.
(4) **Bold** indicates that the analyte was detected.
(5) Less than symbol ("<") denotes that the compound was not present above the laboratory reporting limit indicated.
(6) The concentration of the analyte detected in the sample is characteristic of a laboratory artifact.
(7) The method blank associated with this sample contains this analyte; therefore, the result should be considered "Not Detected."

Table 5
MACTEC 2004 Indoor/Outdoor Air Sampling Data
Former Warner Electric Facility
Roscoe, Illinois

ADDRESS	SAMPLE LOCATION	START DATE/TIME		END DATE/TIME		DURATION (h:m)	TEMPERATURE (K)	BAROMETRIC PRESSURE (mm Hg)	CONCENTRATION, MICROGRAMS PER CUBIC METER						COMMENT
									cis-1,2-DCE	Q	1,1,1-TCA	Q	TCE	Q	
Residence 1	Outside-Patio	11/17/03	15:55	11/18/03	15:28	23:33	285	733	0.14	U	0.19	U	0.19	U	Rain overnight
11673 Wild Deer Trail	Lower Level	11/17/03	16:32	11/18/03	15:32	23:00	291	733	0.14	U	**0.30**		**0.22**		
	Lower Level	11/17/03	16:28	11/17/03	16:38	0:10	291	740	0.11	U	**0.27**		**0.23**		
	Dining Room	11/17/03	16:42	11/18/03	15:38	22:56	293	733	0.15	U	**0.27**		0.20	U	
Residence 2	Outside-Patio	11/18/03	10:00	11/19/03	9:58	23:58	281	733	0.13	U	0.18	U	0.17	U	
11639 Wild Deer Trail	Outside (LD)	11/18/03	10:00	11/19/03	9:58	23:58	281	733	0.13	U	0.18	U	0.17	U	
	Basement	11/18/03	10:26	11/19/03	10:00	23:34	291	734	0.12	U	**0.35**		**0.26**		
	Basement	11/18/03	10:25	11/18/03	10:32	0:07	291	730	0.12	U	**0.36**		0.16	U	
	Living Room	11/18/03	10:37	11/19/03	10:01	23:24	294	734	0.15	U	**0.44**		0.20		
Residence 3	Outside-Patio	11/19/03	16:27	11/20/03	16:32	24:05	281	737	0.13	U	0.19	U	0.19	U	
11646 Wild Deer Trail	Basement	11/19/03	16:49	11/20/03	16:35	23:46	291	737	0.14	U	**0.44**		0.20	U	
	Basement	11/19/03	16:49	11/19/03	16:54	0:05	291	737	0.12	U	**0.50**		0.16	U	
	Family Room	11/19/03	16:57	11/20/03	16:36	23:39	295	737	0.15	U	**0.53**		0.20	U	
Residence 4	Outside-Deck	11/18/03	11:28	11/19/03	11:28	24:00	281	733	0.14	U	0.19	U	0.19	U	
11607 Wild Deer Trail	Basement	11/18/03	11:48	11/19/03	11:31	23:43	291	734	0.14	U	**0.26**		**0.21**		
	Basement (D)	11/18/03	11:48	11/19/03	11:31	23:43	291	734	0.15	U	**0.29**		**0.27**		
	Basement	11/18/03	11:43	11/18/03	11:51	0:08	291	730	0.12	U	**0.31**		**0.17**		
	Living Room	11/18/03	11:54	11/19/03	11:33	23:39	294	734	0.15	U	**0.30**		**0.21**		
Residence 5	Outside	11/17/03	18:06	11/18/03	18:03	23:57	286	733	0.23	U	0.32	U	0.31	U	Rain Overnight
4889 Crown Point Road	Lower Level	11/17/03	18:28	11/18/03	18:05	23:37	291	733	0.14	U	0.20	U	0.20	U	
	Lower Level (D)	11/17/03	18:28	11/18/03	18:05	23:37	291	733	0.14	U	0.20	U	0.20	U	
	Lower Level	11/17/03	18:22	11/17/03	18:31	0:09	291	739	0.11		**0.16**		0.15	U	
	Living Room	11/17/03	18:35	11/18/03	18:08	23:33	295	733	0.14	U	0.18	U	0.18	U	
Residence 6	Outside	11/17/03	19:05	11/18/03	18:58	23:53	286	732	0.31	U	0.42	U	0.42	U	Rain Overnight
4839 Wild Deer Trail	Basement	11/17/03	19:19	11/18/03	18:58	23:39	291	732	0.14	U	**0.84**		0.20	U	
	Basement (LD)	11/17/03	19:19	11/18/03	18:58	23:39	291	732	0.14	U	**0.76**		0.20	U	
	Basement	11/17/03	19:16	11/17/03	19:24	0:08	291	738	0.11	U	**0.50**		0.15	U	
	Office	11/17/03	19:29	11/18/03	19:01	23:32	293	732	0.14	U	**6.3**		0.19	U	
Risk Screening Concentration, micrograms per cubic meter at actual temperature and pressure									35		2,200		1.0		

Table 6
2006 Summary of Screening Results for Volatile Organic Compounds in Soil
Former Warner Electric Facility
Roscoe, Illinois

MONITORING LOCATION	SAMPLE DEPTH (feet)	DATE COLLECTED	1,1-DICHLOROETHANE	1,1-DICHLOROETHENE	cis-1,2-DICHLOROETHENE	trans-1,2-DICHLOROETHENE	TETRACHLOROETHENE (PCE)	1,1,1-TRICHLOROETHANE	TRICHLOROETHENE (TCE)	VINYL CHLORIDE
B-11/PSG-73[1]	1 - 2(1)	05/08/06	<0.57	<0.50	<0.46	<0.58	<0.70	<0.50	**27 J**	<1.20
	11.5(2)	05/08/06	<0.11	<0.10	**1.3**	<0.12	<0.14	<0.10	**2.2 J**	<0.24
	29.5	05/08/06	<0.006	<0.005	<0.005	<0.006	<0.007	<0.005	**0.006 J***	<0.012
B-12/PSG-60[1]	1(1)	05/08/06	<0.57	<0.50	<0.46	<0.58	<0.70	<0.50	**4.7**	<1.20
	1*	05/08/06	**0.0011**	<0.0010	**0.19**[3]	<0.0010	**0.0086**	<0.0010	**6.6**[3]	<0.0010
	9 - 10(1)	05/08/06	<0.57	<0.50	**0.52**	<0.58	<0.70	<0.50	**23 J**	<1.20
	18(2)	05/08/06	<0.11	<0.10	<0.09	<0.12	<0.14	<0.10	**0.57**	<0.24
	25	05/08/06	<0.006	<0.005	**0.005**	<0.006	<0.007	<0.005	**0.018**	<0.012
B-13/PSG-47	3 - 4	05/09/06	<0.006	<0.005	<0.005	<0.006	<0.007	<0.005	**0.024**	<0.012
	19 - 20	05/09/06	<0.006	<0.005	<0.005	<0.006	<0.007	<0.005	**0.008**	<0.012
	30 - 31	05/09/06	<0.006	<0.005	<0.005	<0.006	<0.007	<0.005	<0.007	<0.012
B-14/PSG-33	4	05/09/06	<0.006	<0.005	<0.005	<0.006	<0.007	<0.005	**0.010**	<0.012
	18	05/09/06	<0.006	<0.005	<0.005	<0.006	<0.007	<0.005	**0.004 J***	<0.012
	30	05/09/06	<0.006	<0.005	<0.005	<0.006	<0.007	<0.005	<0.007	<0.012
B-15/PSG-25	1	05/11/06	<0.006	<0.005	<0.005	<0.006	**0.004 J***	**0.004 J***	**0.050**	<0.012
	1*	05/11/06	<0.0012[4]	<0.0012[4]	**0.016**[4]	<0.0012[4]	**0.04**[4]	**0.081**[4]	**0.65**[5]	<0.0012[4]
	6	05/11/06	<0.006	<0.005	<0.005	<0.006	<0.007	<0.005	**0.005 J***	<0.012
	20	05/11/06	<0.006	<0.005	<0.005	<0.006	<0.007	<0.005	<0.007	<0.012
B-16/PSG-31	1	05/11/06	<0.006	<0.005	<0.005	<0.006	<0.007	<0.005	<0.007	<0.012
	18	05/11/06	<0.006	<0.005	<0.005	<0.006	<0.007	<0.005	<0.007	<0.012
	30	05/11/06	<0.006	<0.005	<0.005	<0.006	<0.007	<0.005	<0.007	<0.012
B-17/PSG-45	1	05/11/06	<0.006	<0.005	<0.005	<0.006	<0.007	<0.005	**0.009**	<0.012
	14	05/11/06	<0.006	<0.005	<0.005	<0.006	<0.007	<0.005	<0.007	<0.012
	30	05/11/06	<0.006	<0.005	<0.005	<0.006	<0.007	<0.005	<0.007	<0.012

Notes:

All concentrations expressed in milligrams per kilogram (mg/kg).

Detected concentrations in bold font.

*Confirmation sample analyzed at fixed-base laboratory Environmental Science Corporation. All other samples analyzed at MATRIX Environmental on-site mobile laboratory.

J = Estimated value outside of calibration range.

J* = Reported value above laboratory method detection limit but below reporting limit.

[1] Dilution factor of 100 for all analytes.

[2] Dilution factor of 20 for all analytes.

[3] Dilution factor of 86 for individual analyte.

[4] Dilution factor of 1.16 for individual analyte.

[5] Dilution factor of 50 for individual analyte.

Table 7
2006 Summary of Screening Results for Volatile Organic Compounds in Groundwater
Former Warner Electric Facility
Roscoe, Illinois

MONITORING LOCATION	SCREEN INTERVAL (feet)	DATE COLLECTED	1,1-DICHLOROETHANE	1,1-DICHLOROETHENE	cis-1,2-DICHLOROETHENE	trans-1,2-DICHLOROETHENE	TETRACHLOROETHENE (PCE)	1,1,1-TRICHLOROETHANE	TRICHLOROETHENE (TCE)	VINYL CHLORIDE
B-11/PSG-73	30 - 32	05/08/06	**2**	<1	**510**	<1	<1	<1	**510**	<2
B-12/PSG-60[(1)]	31 - 34	05/08/06	<10	<10	**43**	<10	<10	<10	**320**	<20
B-12/PSG-60*	31 - 34	05/08/06	<10	<10	**37**	<10	<10	<10	**240**	<10
B-13/PSG-47	30 - 32	05/09/06	**3**	<1	**130 J**	<1	<1	**3**	**1500 J**	<2
B-14/PSG-33	30 - 32	05/09/06	<1	<1	**2**	<1	<1	<1	**67**	<2
B-15/PSG-25	28 - 32	05/11/06	<1	**2**	**6**	<1	**4**	**49**	**250[(2)]**	<2
B-16/PSG-31	32 - 34	05/11/06	<1	<1	<1	<1	<1	<1	**2**	<2
B-17/PSG-45	32 - 34	05/11/06	<1	<1	<1	<1	<1	<1	<1	<2
PSG-34	30 - 32	05/10/06	<1	<1	<1	<1	<1	<1	**3**	<2
PSG-81[(1)]	31 - 35	05/10/06	<10	<10	**330**	<10	<10	<10	**400**	<20
PSG-81	51 - 55	05/10/06	<1	<1	<1	<1	<1	<1	<1	<2
PSG-81	76 - 80	05/10/06	<1	<1	<1	<1	<1	<1	<1	<2
PSG-82	31 - 35	05/10/06	**5**	<1	**240[(2)]**	<1	<1	**3**	**410[(2)]**	<2
PSG-82*[(1)]	31 - 35	05/10/06	<10	<10	**240**	<10	<10	<10	**380**	<10
PSG-82	51 - 55	05/10/06	<1	<1	<1	<1	<1	<1	<1	<2
PSG-82	76 - 80	05/10/06	<1	<1	<1	<1	<1	<1	<1	<2
PSG-83	30 - 34	05/09/06	<1	<1	**50**	<1	<1	**3**	**260**	<2
PSG-83	51 - 55	05/09/06	<1	<1	<1	<1	<1	<1	<1	<2
PSG-104	31 - 35	05/10/06	**3**	<1	**1,000[(2)]**	**3**	<1	<1	**710[(2)]**	**3**
PSG-104	51 - 55	05/10/06	<1	<1	**1**	<1	<1	<1	<1	<2
PSG-104	76 - 80	05/10/06	<1	<1	<1	<1	<1	<1	<1	<2
Downgradient	35	05/11/06	<1	<1	**13**	<1	<1	<1	**15**	<2

Notes:

All concentrations expressed in micrograms per liter (μg/L).

Detected concentrations in bold font.

*Confirmation sample analyzed at fixed-base laboratory Environmental Science Corporation. All other samples analyzed at MATRIX Environmental on-site mobile laboratory.

J = Estimated value outside of calibration range.

J* = Reported value above laboratory method detection limit but below reporting limit.

(1) Dilution factor of 10 for all analytes.

(2) Dilution factor of 10 for individual analyte.

Table 8
Sub-Slab Soil Vapor Sample Summary
Former Warner Electric Facility
Roscoe, Illinois

Sub-Slab Sample Designation	Hazardous Waste Constituent and Detected Concentration ($\mu g/m^3$)										
	Freon 12 (Dichlorodifluoromethane)	Vinyl Chloride	Methylene Chloride	trans-1,2-Dichloroethene	1,1-Dichloroethane	cis-1,2-Dichloroethene	1,1,1-Trichloroethane	Trichloroethene	Tetrachloroethene	Toluene	1,4-Dichlorobenzene
SS-01	<15	<7.8	<10	**58**	**150**	**2700**	**2000**	**150**	<21	**15**	<18
SS-01 (Lab Dup)	<15	<7.8	<10	**56**	**150**	**2700**	**2000**	**140**	<21	**12**	<18
SS-02	<18	<9.2	<12	<14	**17**	<14	**1400**	**4700**	**170**	<14	<22
SS-03	<96	**520**	<67	<77	**180**	**920**	**11000**	**27000**	**370**	<73	<120
SS-04	<110	**200**	<76	<87	**150**	**1900**	**4000**	**34000**	**450**	<83	<130
SS-05	<55	<28	<38	**58**	**69**	**4700**	**530**	**17000**	**200**	<42	<66
SS-06	<250	<130	<180	<200	**300**	**4700**	**990**	**67000**	<350	<190	<310
SS-07	<1500	<780	<1000	<1200	**2200**	**65000**	**4000**	**530000**	<2100	<1100	<1800
SS-08	<3800	<2000	<2700	<3100	<3100	**120000**	<4200	**900000**	<5200	<2900	<4600
SS-09	<1600	<810	<1100	<1200	**9200**	**130000**	**56000**	**640000**	<2100	<1200	<1900
Dup-02 (SS-09)	<2000	<1000	<1400	<1600	**1700**	**61000**	**3900**	**430000**	<2700	**3400**	<2400
SS-10	<3.8	<2	<2.7	<3.1	<3.1	**5.0**	**96**	**1000**	**140**	**21**	**18**
Mean	--	--	--	--	--	**30000**	**5600**	**212000**	**--**	**--**	**--**
Median	--	--	--	--	--	**3700**	**2100**	**31000**	**--**	**--**	**--**

Notes 1. < indicates compound was not detected above the listed detection limit.
2. Dup indicates duplicate sample.
3. -- indicates that the value was not calculated. Where calculated, 1/2 the detection limit was used.

Prepared by: JAB 6/15/08
QC'd by: SAK 6/20/08, JMO 7/8/08

I:\WPMSN\PJT\00-02541\30\000254130-012.XLS

Table 9
Indoor Air Sample Summary
Former Warner Electric Facility
Roscoe, Illinois

	Hazardous Waste Constituent and Detected Concentration (μg/m^3)										
Indoor Sample Designation	**Freon 12 (Dichlorodifluoromethane)**	**Vinyl Chloride**	**Methylene Chloride**	**trans-1,2-Dichloroethene**	**1,1-Dichloroethane**	**cis-1,2-Dichloroethene**	**1,1,1-Trichloroethane**	**Trichloroethene**	**Tetrachloroethene**	**Toluene**	**1,4-Dichlorobenzene**
IN-01	<3.9	<2	<2.7	<3.1	<3.2	**1.2 J**	<4.3	**11**	<5.4	**0.62 J**	<4.8
IN-02	<4.0	<2	<2.8	<3.2	<3.2	**0.96 J**	<4.4	**9.5**	<5.5	**1.2 J**	<4.8
IN-03	<3.8	<1.9	<2.6	<3	<3.1	**1.0 J**	<4.1	**10**	<5.2	**0.72 J**	<4.6
IN-04	<3.8	<1.9	<2.6	<3	<3.1	**14 J7**	**0.83 J**	**11**	<5.2	**0.69 J**	<4.6
IN-05	<3.7	<1.9	<2.6	<3	<3	**1.7 J**	**0.66 J**	**12**	<5	**0.76 J**	<4.5
IN-06	<3.9	<2	<2.7	<3.1	<3.2	**1.2 J**	**0.54 J**	**10**	<5.4	**1.1 J**	<4.8
IN-07	<4.2	<2.1	<2.9	<3.3	<3.4	**1.3 J**	<4.6	**12**	<5.7	**1.2 J**	<5
IN-08	<3.6	<1.9	<2.5	<2.9	<3	**1.5 J**	**0.52 J**	**13**	**5.8**	**15**	<4.4
IN-09	<3.8	<1.9	<2.6	<3	<3.1	**2.1 J**	**0.56 J**	**16**	<5.2	**1.1 J**	<4.6
Dup-01 (IN-09)	<4	<2.1	<2.8	<3.2	<3.3	**1.3 J**	<4.5	**11**	<5.6	**1.4 J**	<4.9
IN-10	<4.2	<2.1	<2.9	<3.3	<3.4	**1.4 J**	<4.6	**11**	<5.7	**2.5 J**	<5
IN-10 (Lab Dup)	<4.2	<2.1	<2.9	<3.3	<3.4	**1.4 J**	**0.66 J**	**11**	<5.7	**1.2 J**	<5
BKGD-01	<3.8	<2	<2.7	<3.1	<3.1	**0.97 J**	<4.2	**8.7**	<5.2	**0.94 J**	<4.6
BKGD-02	<4	<2.1	<2.8	<3.2	<3.3	<3.2	<4.5	<4.4	<5.6	<3.1	<4.9
BKGD-02A	<3.3	<1.7	<2.3	<2.6	<2.7	<2.6	<3.6	<3.6	<4.5	<2.5	<4
Mean (no background)	--	--	--	--	--	**1.3**	**1.2**	**11.3**	**--**	**--**	**--**
Median (no background)	--	--	--	--	--	**1.3**	**0.7**	**11.0**	**--**	**--**	**--**

Notes 1. < indicates compound was not detected above the listed detection limit.
2. Dup indicates duplicate sample.
3. -- indicates that the value was not calculated. Where calculated, 1/2 the detection limit was used.
4. J indicates estimated result where reported concentration is between the method detection limit and the reporting limit.
5. J7 indicates result shows interference from coeluted compound. Result is biased high and is not considered a valid result.

Prepared by: JAB 6/15/08
QC'd by: SAK 6/20/08, JMO 7/8/08

Table 10
Groundwater Screening Summary
Former Warner Electric Facility

Sample Designation		Analyte (µg/L)				
Boring Location	Sample Depth (ft)	Trichloroethene	cis-1,2-Dichloroethene	1,1-Dichloroethane	1,1,1-Trichloroethane	Toluene
AA-01	30	-	7	-	-	-
	40	-	-	-	-	-
AA-02	30	-	19	-	4	-
	35	-	66	-	10	-
Field Dup	35	-	69	-	10	-
	40	-	41	-	16	-
	45	1	-	-	-	-
	50	-	-	-	-	-
AA-03	30	1	-	-	-	-
	35	11	8	-	6	-
AA-04	30	-	-	-	-	-
	35	2	2	-	-	-
AA-05	30	1	2	-	-	-
	35	23	42	-	-	-
	40	18	28	-	-	-
	45	10	9	-	-	-
	50	2	-	-	-	-
AA-06	30	-	-	-	-	-
	35	-	-	-	-	-
AA-07	30	1	-	-	-	-
Field Dup	30	1	-	-	-	-
Lab Dup*	30	-	-	-	-	-
	35	1	-	-	-	-
Lab Dup*	35	1.1	-	-	-	-
AA-08	30	3	2	--	-	-
	35	35	45	-	-	-
AA-09	30	2	-	-	-	-
	35	49	18	-	-	-
AA-10	30	1	-	-	-	-
	35	6	1	-	-	-
AA-11	30	1	-	-	-	-
	35	1	-	-	-	-
AA-12	30	1	-	-	-	-
	35	4	-	-	-	-
AA-13	30	-	-	-	-	-
	35	-	-	-	-	-
AA-14	30	-	-	-	-	-
Field Dup	30	-	-	-	-	-
	35	-	-	-	-	-
Field Dup	35	-	-	-	-	-
Lab Dup*	35	-	-	-	-	-
AA-15	30	-	-	-	-	-
Field Dup	30	-	-	-	-	-
	35	-	-	-	-	-
Field Dup	35	-	-	-	-	-

Table 10
Groundwater Screening Summary
Former Warner Electric Facility

Sample Designation		Analyte (µg/L)				
Boring Location	Sample Depth (ft)	Trichloroethene	cis-1,2-Dichloroethene	1,1-Dichloroethane	1,1,1-Trichloroethane	Toluene
AA-16	30	-	-	-	-	-
	35	-	-	-	-	-
AA-17	30	-	-	-	-	-
	35	-	-	-	-	-
AA-18	30	-	-	-	-	-
	35	-	-	-	-	-
AA-19	30	-	-	-	-	-
	35	-	-	-	-	-
AA-20	30	-	-	-	2	-
	35	-	-	-	3	-
AA-21	30	-	-	-	-	-
	35	-	-	-	-	-
AA-22	30	-	-	-	-	-
	35	-	-	-	-	-
AA-23	30	-	-	-	-	-
	35	-	-	-	-	-
AA-24	30	-	-	-	-	-
	35	-	-	-	-	-
AA-25	30	-	-	-	-	-
	35	-	-	-	-	-
AA-26	30	-	-	-	-	-
	35	-	-	-	-	-
AA-27	30	-	2	-	-	-
	35	-	5	-	-	-
	40	-	-	-	-	-
	45	-	-	-	-	-
	50	-	-	-	-	-
AA-28	30	-	-	-	-	-
	35	4	11	-	-	-
	40	6	20	-	-	-
	45	8	6	-	-	-
	50	3	2	-	-	-
AA-29	30	79	55	2	-	-
	35	140	120	2	-	-
	40	758	568	-	-	-
	45	308	334	-	-	-
	50	366	252	-	-	-
AA-30	30	64	40	-	-	-
	40	334	372	-	-	-
	45	540	390	-	-	-
	50	328	200	-	-	-
	60	-	-	-	-	-
	70	-	-	-	-	-
	80	-	-	-	-	-
	90	-	-	-	-	-
BB-01	35	-	-	-	-	-
	50	2	2	-	-	-
	70	2	2	-	1	-

Table 10
Groundwater Screening Summary
Former Warner Electric Facility

Sample Designation		Analyte (µg/L)				
Boring Location	Sample Depth (ft)	Trichloroethene	cis-1,2-Dichloroethene	1,1-Dichloroethane	1,1,1-Trichloroethane	Toluene
BB-02	35	-	-	-	-	-
Lab Dup*	35	-	-	-	-	-
	50	3	4	-	-	-
Lab Dup*	50	-	1.7	-	-	-
	70	5	4	-	1	-
Lab Dup*	70	5.6	3.6	-	-	-
BB-03	35	3	2	-	-	-
	50	7	7	-	2	-
	70	7	4	-	1	-
	85	4	3	-	1	-
BB-04	35	6	3	-	-	-
Lab Dup*	35	5.6	2.9	-	-	-
	50	10	5	-	1	-
Lab Dup*	50	15.5	7.3	-	1.3	-
	70	18	11	-	1	-
Lab Dup*	70	20.9	12.7	-	1.2	-
*	80	19	10.2	-	1.1	-
Lab Dup*	80	19.5	10.4	-	1.3	-
*	90	13.1	6.9	-	-	-
*	110	10.7	5.5	-	1.1	-
BB-05	35	4	1	-	-	-
Lab Dup	35	2.6	-	-	-	-
	50	14	6	-	-	-
Lab Dup	50	12.8	5.3	-	-	-
	70	21	13	-	-	-
Field Dup	70	21	13	-	-	-
Lab Dup*	70	20.5	13.1	-	-	-
*	80	9.7	7.7	-	-	-
*	90	8.1	6.4	-	-	-
*	110	2.1	1.8	-	-	-
BB-06	35	-	-	-	-	-
	50	2	-	-	-	-
	70	2	2	-	-	-
BB-07	40	-	-	-	-	1.1
	50	1.2	-	-	-	1.3
	60	-	-	-	-	1.3
	70	-	-	-	-	1.4
	90	-	-	-	-	-
CC-01	20	3	4	-	-	-
	35	5	7	-	-	-
Field Dup	35	6	8	-	-	-
	55	7	6	-	1	-
	70	5	3	-	1	-

Table 10
Groundwater Screening Summary
Former Warner Electric Facility

Sample Designation		Analyte (µg/L)				
Boring Location	Sample Depth (ft)	Trichloroethene	cis-1,2-Dichloroethene	1,1-Dichloroethane	1,1,1-Trichloroethane	Toluene
CC-02	20	3	4	-	-	-
	35	5	9	-	1	-
	55	6	5	-	1	-
CC-03	20	-	-	-	-	-
	35	-	-	-	-	-
	55	2	1	-	-	-
	70	2	1	-	-	-
CC-04	20	-	-	-	-	-
	35	-	-	-	-	-
	55	-	-	-	1	-
CC-05	20	-	-	-	-	-
	35	-	-	-	-	-
	55	-	-	-	-	-
CC-06	35	-	-	-	-	-
	55	-	-	-	-	-
	70	-	-	-	-	-
CC-07 *	35	9.2	8.1	-	-	-
*	50	24	18.5	-	2.2	-
*	60	23.6	14.2	-	1.7	-
*	70	13.1	7.8	-	1.1	-
*	90	8.3	5.2	-	1	-
CC-08 *	35	6	5	-	-	1.4
*	50	18.3	12.3	-	-	-
*	60	15.5	10.2	-	-	1
*	70	10.8	7.8	-	-	-
*	90	1.8	1.3	-	-	-
CC-09 *	40	-	-	-	-	-
*	60	2.3	1.9	-	-	-
*	80	4.2	3.9	-	-	-
Lab Dup*	80	4.6	3.9	-	-	-
*	100	1.4	1	-	-	-
CC-10 *	40	-	-	-	-	-
*	60	-	-	-	-	-
*	80	-	-	-	-	-
*	100	-	-	-	-	-
HEMW 1*	60	-	-	-	-	-
2*	75	-	-	-	-	-
Lab Dup 2*	75	-	-	-	-	-
3*	90	-	-	-	-	-
4*	115	-	-	-	-	-

Notes:
1. All concentrations expressed in micrograms per liter (µg/L).
2. - indicates the parameter was not detected.
3. * Indixcates sample analyzed at PACE Analytical Services fixed-base laboratory. All other samples analyzed at MATRIX Environmental on-site mobile laboratory.
4. J = Estimated value outside of calibration range.
5. J* = Reported value above laboratory method detection limit but below reporting limit.
6. Field Dup indicates field screening duplicate analysis.
7. Lab Dup indicates fiix based laboratory duplicate analysis.

Table 11
Industrial Cleanup Goals for Indoor Air
Former Warner Electric Facility
Roscoe, Illinois

Constituent	RfCi (mg/m^3)	IUR $(ug/m^3)^{-1}$	Non-cancer Cleanup Goal (ug/m^3)	Cancer Cleanup Goal (ug/m^3)	Final Cleanup Goal (ug/m^3)
Trichloroethylene	6.00E-01	2.00E-06	876	20.44	**20.4**
1,1,1-Trichloroethane	5.00E+00	NA	7300	NA	**7300**
Vinyl Chloride	1.00E-01	4.40E-06	146	9.29	**9.29**
Methylene Chloride	1.10E+00	4.70E-07	1606	86.98	**87**
Tetrachloroethylene	2.70E-01	5.90E-06	394.2	6.93	**6.93**
cis-1,2-Dichloroethylene	NA	NA	NA	NA	**NA**
Dichlorodifluoromethane	2.00E-01	NA	292	NA	**292**
trans-1,2-Dichloroethylene	6.00E-02	NA	87.6	NA	**87.6**
1,1-Dichloroethane	5.00E-01	1.60E-06	730	25.55	**25.6**
1,4-Dichlorobenzene	8.00E-01	1.10E-05	1168	3.72	**3.72**
Toluene	5.00E+00	NA	7300	NA	**7300**

Toxicity values from Regional Screening Concentration Tables on-line- http://www.epa.gov/reg3hwmd/risk/human/rb-concentration_table.htm

$$\text{Noncancer Cleanup Goal in Air} = \frac{\text{THI} * \text{ATnc} * 365 \text{ days/year} \times 1000 \text{ ug/mg}}{\text{ED} * \text{EF} * 1/\text{RFCi}}$$

$$\text{Cancer Cleanup Goal in Air} = \frac{\text{TR} * \text{ATc} * 365 \text{ days/year}}{\text{ED} * \text{EF} * \text{IUR}}$$

THI = Target Hazard Index (unitless)	1
ATnc = Averaging Time for Noncarcinogens (years)	25
ED = Exposure Duration (years)	25
EF = Exposure Frequency (days)	250
RfCi = Inhalation Reference Concentration (mg/m^3)	constituent-specific
TR = Target Risk Level (unitless)	1.00E-05
ATc = Averaging Time for Carcinogens (years)	70
IUR = Inhalation Unit Risk (ug/m^3)	constituent-specific

Table 12
Non-potable Groundwater Cleanup Criteria - Swmimming Pool Scenario
Former Warner Electric Facility
Roscoe, Illinois

Parameter	Permeability Coefficient (cm/hr)	RfD_o (mg/kg-d)	RfD_i (mg/kg-d)	CSFo $(mg/kg\text{-}d)^{-1}$	CSFin $(mg/kg\text{-}d)^{-1}$	VF (L/m^3)	Recreational -Child		Recreational -Adult		Final Cleanup Goal (mg/L)
							Noncancer (mg/L)	Cancer (mg/L)	Noncancer (mg/L)	Cancer (mg/L)	
cis-1,2-dichloroethene	7.70E-03	1.00E-02	NA	NA	NA	4.39E-05	6.1	NA	15.0	NA	**6.1**
Trichloroethene	1.20E-02	NA	1.70E-01	1.30E-02	7.00E-03	3.78E-05	438163	4.3E+00	1534185	1.9E+00	**1.9**

Tocicity values from Regional Risk-based Concentrations - on line:www.epa.gov/reg3hwmd/risk/human/rb-concentration_table/Generic_Tables/index.htm

Surface Water

Non-carcinogenic Effects:

$$C = \frac{THQ*ATn*BW}{EF*ED*ET*[(1/RfD_o*IR)+(1/RfD_o*SFA*PC*CF)+(1/RfD_i*InhR*VF)]}$$

Carcinogenic Effects:

$$C = \frac{TR*ATc*BW}{EF*ED*ET*[(CSF_o*IR)+(CSF_o*SFA*PC*CF)+(CSF_i*InhR*VF)]}$$

where:	**Residential - Child**	**Residential - Adult**
THQ = Target Hazard Quotient (unitless)	1.0	1.0
TR = Target Risk (unitless)	1.00E-05	1.00E-05
AT_n = Averaging Time (days), noncarcinogens	2,190	10,950
AT_n = Averaging Time (days), carcinogens	25,550	25,550
BW = Body Weight (kg)	15	70
EF_r = Exposure Frequency (days/year)	45	45
ED = Exposure Duration (years)	6	30
RfDo = Oral Reference Dose (mg/kg-day)	Chemical-specific	Chemical-specific
CSF_o = Oral Cancer Slope Factor	Chemical-specific	Chemical-specific
IR= Ingestion Rate of water (L/hour)	0.05	0.05
PC = Permeability Coefficient (cm/hr)	Chemical-specific	Chemical-specific
SFA= Skin Surface Area (cm^2/day)	6,500	18,150
ET = Exposure Time (hours)	2	2
CF = Conversion Factor (L/cm^3)	1.00E-03	1.00E-03
RfDi = Oral Reference Dose (mg/kg-day)	Chemical-specific	Chemical-specific
CSFi = Inhalation Slope Factor	Chemical-specific	Chemical-specific
InhR = Inhalation Rate (m^3/hour)	0.625	0.833

Table 13
Derivation of Surface Water-to-Air Volatilization Factors for Recreational Exposure
Former Warner Electric Facility
Roscoe, Illinois

Parameter	MW (unitless)	H' (unitless)	K_I (cm/hr)	K_g (cm/hr)	K_L (cm/hr)	VF (L/m^3)
Organics						
cis-1,2-Dichloroethene	96.9	1.87E-01	6.32E-03	2.94E+03	6.32E-03	4.39E-05
Trichloroethene	131	4.28E-01	5.44E-03	2.53E+03	5.44E-03	3.78E-05

The following values were used in calculation of water-to-air VF for construction workers exposure:

A= Surface water area (cm^2)	1.50E+06	assumed pool's dimentions of 10 m by 15 m
V_{curr} = Current velocity of water (m/sec)	5.29E-05	based on pump capacity (3 turnovers/day)
V_{wind} = Wind velocity (m/sec)	6	(annual average wind velocity)
Z = Depth of water (m)	1.52	
LS = Width of contaminated area (m)	10	
V = Average wind speed in mixing zone (m/s)	3	(1/2 of the average wind speed)
M = Mixing height (m)	2	
MW = Molecular weight (unitless)	See Above	
H' = Henry's Law Constant (unitless)	See Above	
CF = Conversion Factor (L/cm^3)	0.001	

Calculation of liquid-phase mass transfer coefficient - K_I (cm/hr)

For compounds with MW>65

$K_I = 23.51 * (v_{curr}^{0.969}/z^{0.673}) * [(32/MW)^{0.5} e^{0.526 * (Vwind - 1.9)}]$ cm/hr

For compounds with MW<65

$K_I = 20 * (44/MW)^{0.5}$ cm/hr

Calculation of overall mass transfer coefficient - K_L (cm/hr)

$$K_L = \frac{H' * K_g * K_I \text{ cm/hr}}{H' * K_g + K_I}$$

Calculation of water-to-air volatilization factor for construction workers exposure - VF (L/m^3)

$$VF = \frac{K_I * A * 0.001 (L/cm^3)}{3{,}600 \text{ s/hr} * LS * V * M}$$

Table 14
Intermediate Cleanup Criteria for Groundwater to Surface Water Discharge at Rock River
Former Warner Electric Facility
Roscoe, Illinois

HAZARDOUS CONSTITUENT	SURFACE WATER CLEANUP CRITERIA (µg/L)
Trichloroethylene	25[1,3]
1,1,1-Trichloroethane	76[2]
Vinyl chloride	120[1,3]
Methylene chloride	340[1,3]
Tetrachloroethylene	45[2]
cis-1,2-Dichloroethylene	620[2,4]
Dichlorodifluoromethane	1960[2,5]
trans-1,2-Dichloroethylene	970[2]
1,1-Dichloroethane	47[2]
1,4-Dichlorobenzene	9.4[2]
Toluene	253[2]
Chromium	42[2]

Notes:

(1) Lowest IEPA ambient water quality criteria.

(2) USEPA Region 5 ecological screening level.

(3) Illinois Water Quality Criteria, Human Nonthreshold Criterion (Illinois Pollution Control Board (IPCB) regulations at 35 IAC 302.210, Nov. 11, 2008.

(4) Indiana Department of Environmental Management chronic aquatic life, USEPA. *Great Lakes Initiative Clearing House*. Accessed 12/18/07 http://cfpub.epa.gov/gliclear/criteria_qeury.cfn

(5) Region 6 Chronic Aquatic Life. Oak Ridge National Laboratory. *RAIS Ecological Benchmark Tool*. Accessed 12/4/07. http:/raus,irbk,giv/cgibin/eco/ECO select.

Table 15
Summary of *In situ* Groundwater Sampling Results
Former Warner Electric Facility
Roscoe, Illinois

		Field Parameters						Inorganics				Volatile Organic Compounds						
PARAMETER		Depth To Water	Sample Temperature	pH	Conductivity	ORP	Dissolved Oxygen	Dissolved Iron	Dissolved Manganese	Nitrate	Sulfate	1,1,1-TCA	1,1-DCA	PCE	TCE	cis-1,2-DCE	trans-1,2-DCE	Vinyl Chloride
Well	Date	Feet	°C	Std. Units	µmhos/cm	mV	mg/L	µg/L	µg/L	mg/L	mg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
MW-101	9/16/2008	25.59	14	6.65	840	311	1.5-2.0	NM	NM	NM	NM	<1.0	<1.0	<1.0	35.7	3	<1.0	<1.0
	9/26/2008	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NA	NA	NA	NA	NA	NA	NA
	10/8/2008	26.04	14.6	6.24	2,280	-569	1.46	327,000	5,440	<0.40	29.3	<1.0	1.4	<1.0	134	45.7	<1.0	<1.0
	11/6/2008	26.65	13.9	7.12	940	-130	1.01	35,700	863	0.73	13.2	<1.0	<1.0	<1.0	7.0	<1.0	<1.0	<1.0
	11/24/2008	27.00	13.3	7.71	825	-255	0.16	14,700	273	0.51	11.6	<1.0	<1.0	<1.0	12.9	3.2	<1.0	<1.0
	12/15/2008	27.25	12.9	7.82	788	-273	0.20	12,600	126	<0.40	9.5	<1.0	<1.0	<1.0	6.4	1.3	<1.0	<1.0
MW-102	9/16/2008	25.40	14	6.49	854	331	1.5-2.0	NM	NM	NM	NM	1.8	<1.0	<1.0	80.7	14.9	<1.0	<1.0
	9/26/2008 (S*)	NM	15.6	6.96	855	270	8.83	NM	NM	NM	NM	2.3	1	<1.0	106	17.1	<1.0	<1.0
	9/26/2008 (D*)	NM	15.2	6.97	855	263	7.92	NM	NM	NM	NM	2.6	1.2	<1.0	128	21.8	<1.0	<1.0
	10/8/2008	25.93	14.5	6.9	1,012	-284	1.84	1,230	953	<0.40	22.7	2.1	<1.0	<1.0	100	16.2	<1.0	<1.0
	11/6/2008	26.51	14.4	6.97	858	-205	0.45	2,470	1,570	<0.40	12.1	1	<1.0	<1.0	75.4	11.5	<1.0	<1.0
	11/24/2008	26.85	13.1	7.07	837	-229	0.25	6,300	810	<0.40	9.6	<1.0	<1.0	<1.0	43.7	11.7	<1.0	<1.0
	12/15/2008	27.25	12.5	7.15	725	-210	0.33	4,760	613	<0.40	10.5	<1.0	<1.0	<1.0	23.3	7.0	<1.0	<1.0
MW-103	9/16/2008	25.4	14.3	6.65	864	344	1.5-2.5	NM	NM	NM	NM	1.3	<1.0	<1.0	132	23.1	<1.0	<1.0
	9/26/2008	NM	14.2	6.93	867	243	8.68	NM	NM	NM	NM	<5.0	<5.0	<5.0	230	39.9	<5.0	<5.0
	10/8/2008	25.96	14.1	6.88	984	-93	3.9	969	758	2.3	22.6	1.3	<1.0	<1.0	149	23.3	<1.0	<1.0
	11/6/2008	26.57	14.4	6.89	906	-200	1.2	2,440	1,340	0.41	12.2	1.1	<1.0	<1.0	120	19.7	<1.0	<1.0
	11/24/2008	26.86	13.4	6.88	948	-244	0.31	2,770	1,170	<0.40	7.3	<1.0	<1.0	<1.0	78.2	23.3	<1.0	<1.0
	12/15/2008	27.27	13.5	7.14	774	-223	0.22	3,240	512	<0.40	4.4	<1.0	<1.0	<1.0	62.0	44.8	<1.0	<1.0
MW-104	9/16/2008	25.47	14.3	6.79	842	337	1.5-2.0	NM	NM	NM	NM	1.4	1	<1.0	172	27.4	<1.0	<1.0
	9/26/2008 (S*)	NM	14.8	6.87	868	166	8.42	NM	NM	NM	NM	<5.0	<5.0	<5.0	356	59.3	<5.0	<5.0
	9/26/2008 (D*)	NM	14.5	6.8	858	176	7.78	NM	NM	NM	NM	<5.0	<5.0	<5.0	256	41.2	<5.0	<5.0
	10/8/2008	26.01	14.1	7.13	849	226	8.25	1,250	47.7	5.9	22.2	<2.0	<2.0	<2.0	157	21.7	<2.0	<2.0
	11/6/2008	26.62	14.6	6.82	954	-127	3.15	<100	830	1.3	22.2	<2.5	<2.5	<2.5	150	51.4	<2.5	<2.5
	11/24/2008	26.95	12	6.64	893	-158	0.92	644	950	<0.40	12.6	1.8	<1.0	<1.0	126.0	51	<1.0	<1.0
	12/15/2008	27.34	12.6	7.03	759	-201	0.46	557	800	<0.40	10.5	1.5	<1.0	<1.0	109.0	34.9	<1.0	<1.0

Notes: 1. S* indicates the samples was collected from the top of the water column in the well (less than 2 feet below the top of well screen.

2. D* indicates the samples was collected from the bottom of the water column in the well (less than 2 feet below the bottom of the well screen.

3. NM indicates not measured

4. < indicates parameter was not detected above the listed method detection limit.

Table 16
Proposed Long Term Monitoring Well Locations
Fomer Warner Electric
Roscoe, Illinois

Well Location	Coordinates (X, Y Meters)	Screen Depth (feet bgs)	Rationale
Wells Immediaely Downgradient From Source Area			
AA-02	334231.32738, 4700493.6139	32 to 37	Monitor groundwater downgradient from former TCE vapor degreaser #1231 near property boundary.
AA-05	334273.077912, 4700468.24055	35 to 40	Monitor groundwater downgradient of PSG samples 40 and 45 near property boundary.
AA-29	334307.95863, 4700423.97934	25 to 35	Monitor shallow affected groundwater emanating from the former TCE storage area near property boundary.
AA-29	334307.95863, 4700423.97934	40 to 45	Monitor deep affected groundwater emanating from the former TCE storage area near property boundary.
Wells Located At Hononegah Road			
BB-03	333823.764344, 4699554.33855	70 to 75	Monitor western boundary of area of affected groundwater near Hononegah Road.
BB-04	333846.206303, 4699534.69869	80 to 85	Monitor core of affected groundwater near Hononegah Road.
BB-05	333869.913713, 4699515.54173	65 to 70	Monitor core of affected groundwater near Hononegah Road.
BB-06	333894.235475, 4699497.17104	70 to 75	Monitor eastern boundary of area of affected groundwater near Hononegah Road.
Wells Located At Distal End of Plume Near Hononegah Road			
CC-03	333638.258638, 4698956.17001	70 to 75	Monitor distal end of plume upgradient of extraction well.
CC-07	333712.392228, 4698926.31082	50 to 55	Monitor core of affected groundwater at distal end of plume upgradient from Rock River.
CC-08	333749.254165, 4698922.54816	50 to 55	Monitor core of affected groundwater at distal end of plume upgradient from Rock River.
CC-09	333781.524114, 4698920.96421	80 to 85	Monitor easten boundary of affected groundwater at distal end of plume upgradient of Rock River.

Notes: 1. Coordinates are in NAD 83 UTM Zone 16N.
2. PSG indicates passive soil gas sampler.

I:\WPMSN\PJT\00-02541\30\000254130-010.XLS 4/16/2009
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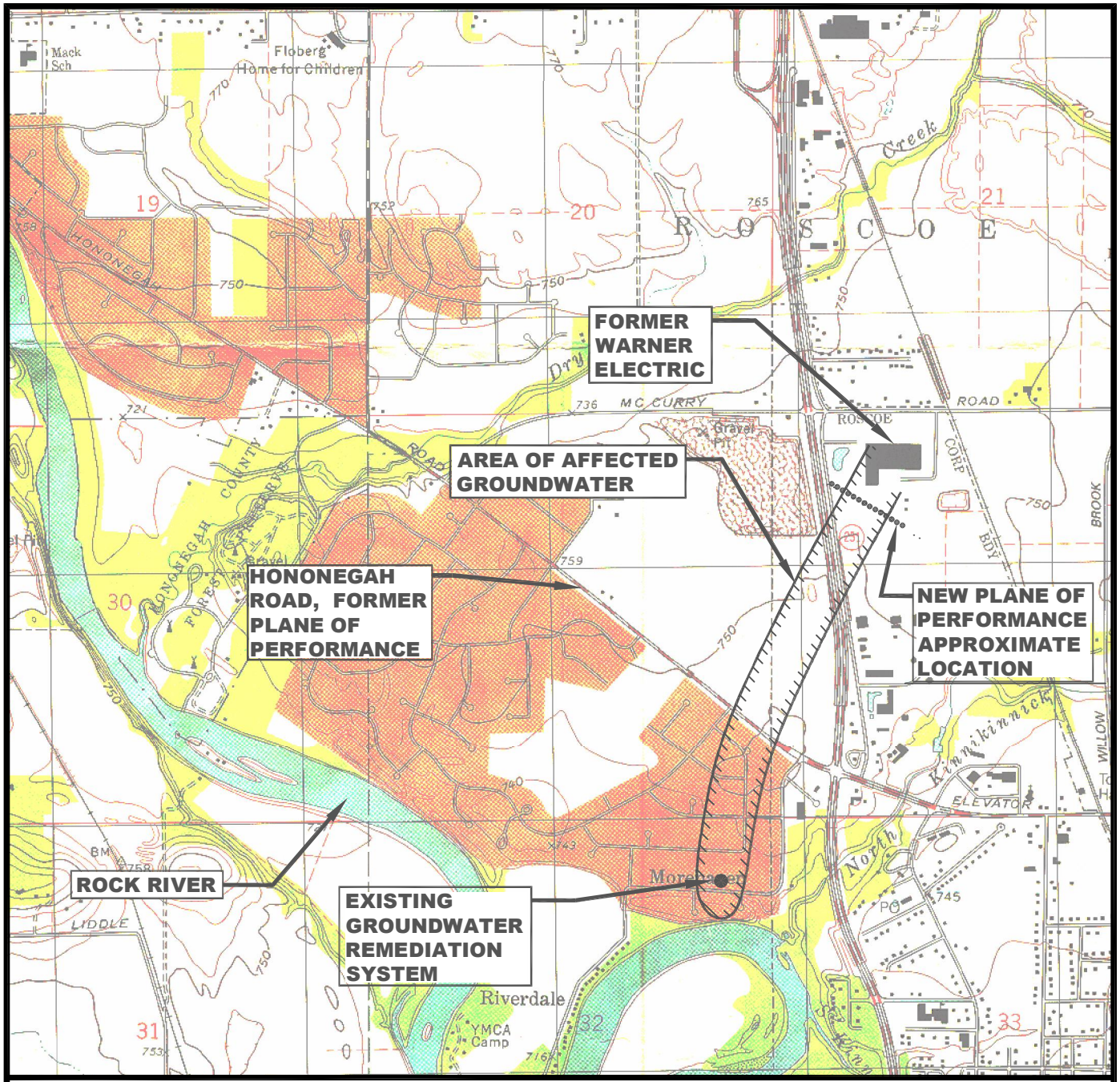
Operator Name: fitzgere Scale: 1"=2000'



SOURCE: SOUTH BELOIT, ILLINOIS
U.S.G.S. 7.5 MINUTE QUADRANGLE

LOCATION: NW1/4, NW1/4, SECTION 28,
RANGE 12E, TOWNSHIP 46N.

ILLINOIS

0 2000 4000

SCALE: 1"= 2000'

N

RMT

DANA CORPORATION
WARNER ELECTRIC
ROSCOE, ILLINOIS

SITE LOCATION MAP

DRAWN BY:	FITZGERALD
APPROVED BY:	JAB
PROJECT N0.	02541.30
FILE NO.	25413001.DWG
DATE:	APRIL 2009

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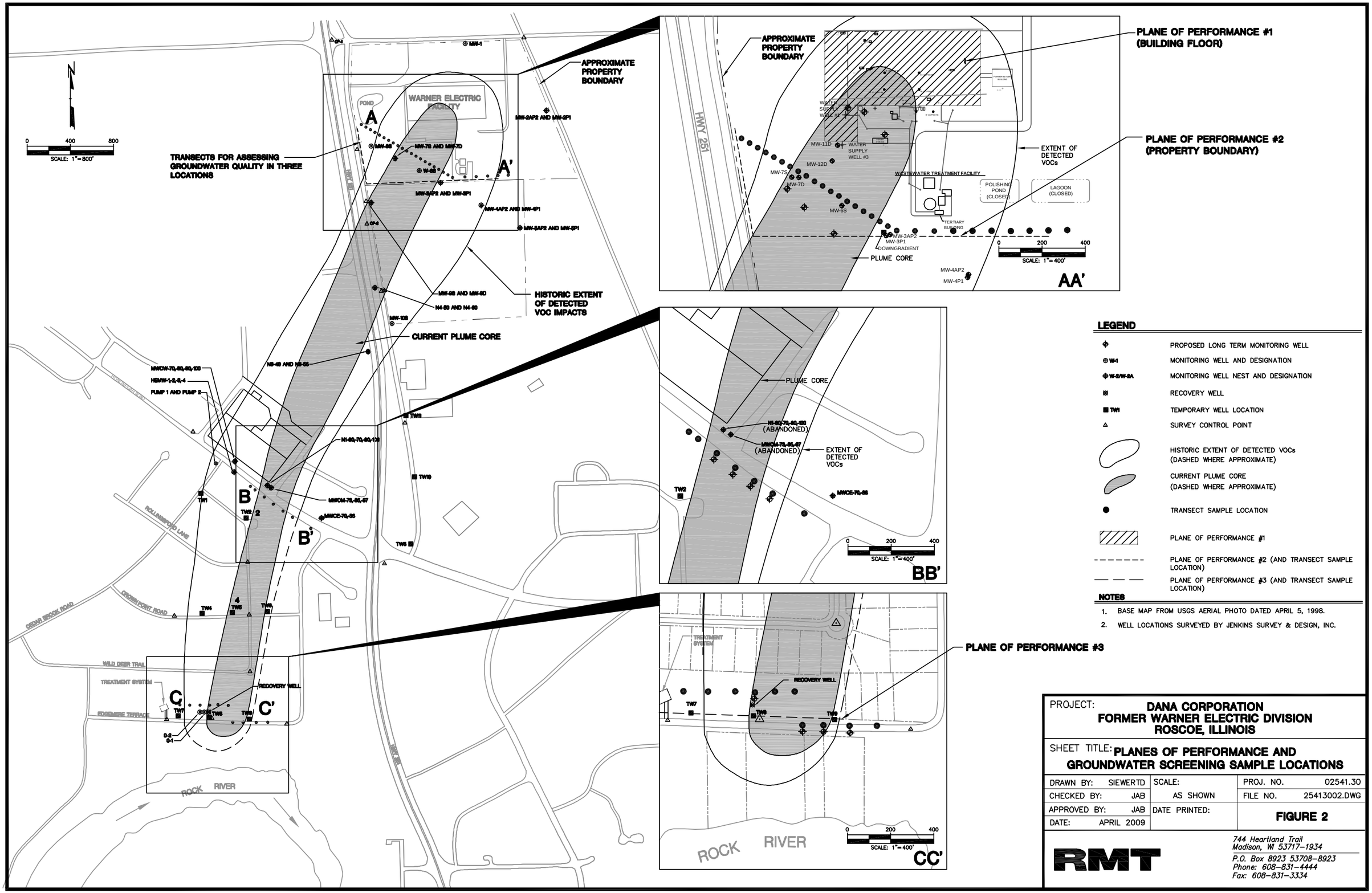

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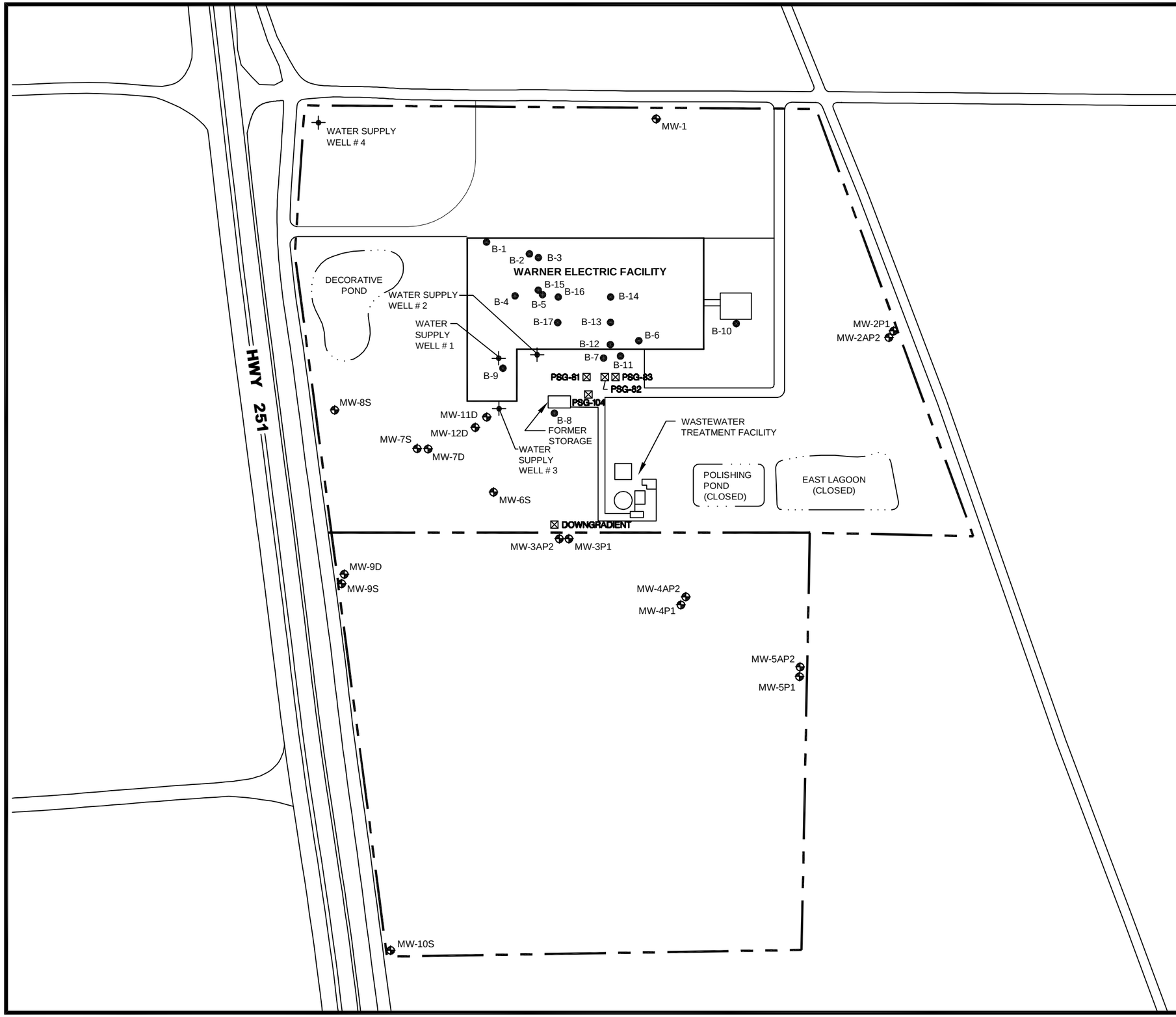

LEGEND

- APPROXIMATE SITE BOUNDARY
- B-5 ● BORING LOCATION AND NUMBER (EKI DRILLED B-1 TO B-10 IN 2002, AND RMT DRILLED B-11 TO B-17 IN 2006)
- MW-9D,S ⊕ MONITORING WELL LOCATION AND NUMBER (S / AP2 = SHALLOW, D / P1 = DEEP)
- ✦ EXISTING HISTORICAL WATER SUPPLY WELL
- PSG-104 ⊠ TEMPORARY WELL LOCATION (RMT, 2006) WITH SHALLOW AND DEEP GROUNDWATER SAMPLING

NOTES

1. BASE MAP DEVELOPED FROM SITE PLAN PREPARED BY ERLER & KALINOWSKI, INC., PROJECT NO. A20007.02, DATED MAY 2003.

N

0 300' 400'

SCALE IN FEET

PROJECT: **DANA CORPORATION FORMER WARNER ELECTRIC DIVISION ROSCOE, ILLINOIS**

SHEET TITLE: **SITE PLAN**

DRAWN BY: SIEWERTD	SCALE:	PROJ. NO.	02541.25
CHECKED BY: JAB	AS SHOWN	FILE NO.	25412513.DWG
APPROVED BY: JAB	DATE PRINTED:	**FIGURE 3**	
DATE: APRIL 2009			

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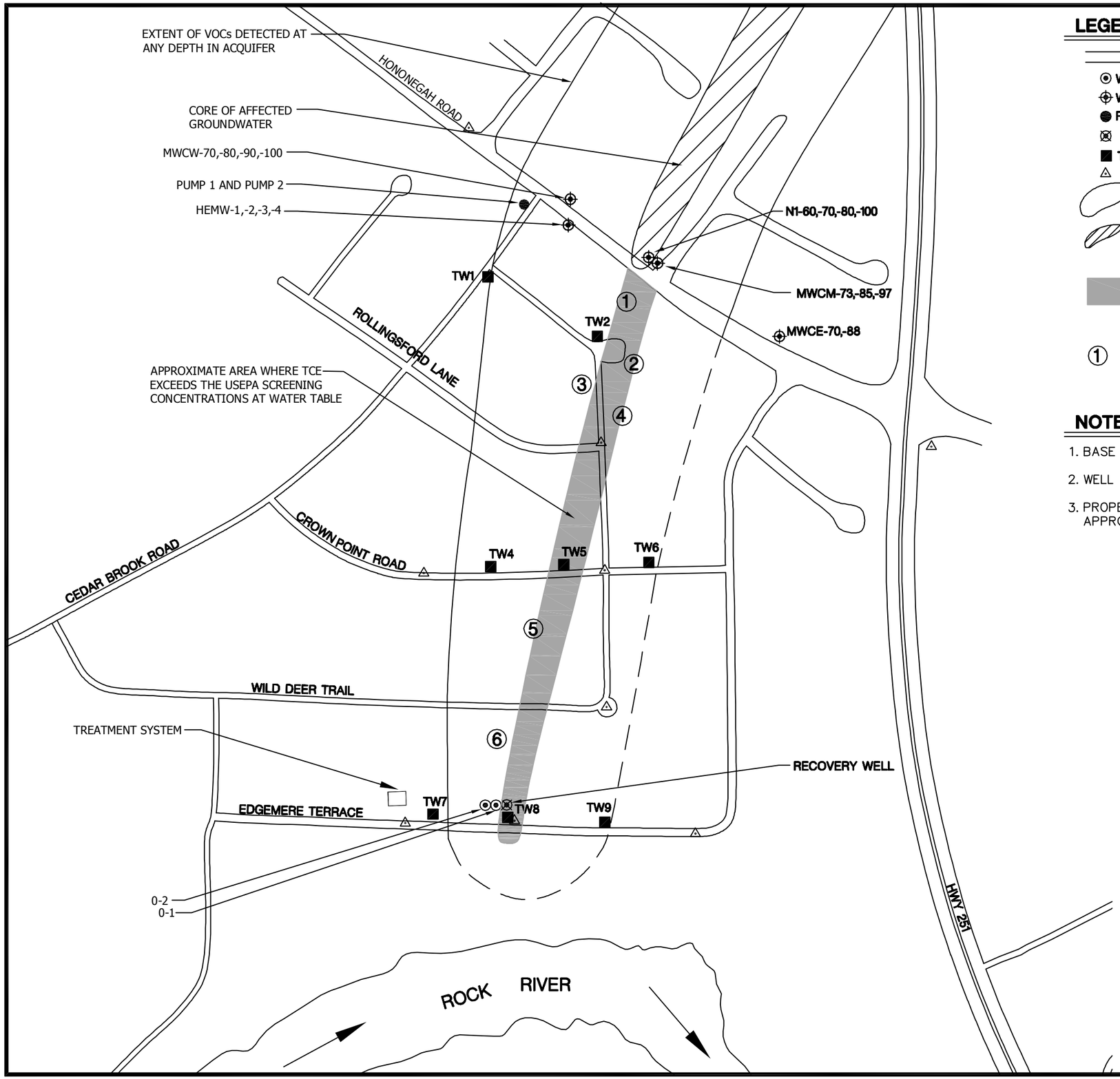
J:\02541\25\25412513.dwg Monday, April 13, 2009 12:46 PM METZA
Drawing Name: J:\02541\25\2541251 3.dwg
Operator Name: siewertd
Scale: 1"=1'



LEGEND

	ROADWAY
W-1	MONITORING WELL AND DESIGNATION
W-2/W-2A	MONITORING WELL NEST AND DESIGNATION
PUMP 1 AND PUMP 2	NORTH PARK WATER DISTRICT STANDBY SUPPLY WELLS
	RECOVERY WELL
TW1	TEMPORARY WELL LOCATION
	SURVEY CONTROL POINT
	EXTENT OF DETECTED VOCs AT ANY DEPTH IN AQUIFER (DASHED WHERE APPROXIMATE)
	EXTENT OF VOCs GREATER THAT 100 ug/L (DASHED WHERE APPROXIMATE)
	APPROXIMATE AREA WHERE TCE GROUNDWATER CONCENTRATIONS EXCEED THE USEPA GENERIC SCREENING LEVEL FOR INDOOR AIR INTRUSION (5ug/L) AT THE WATER TABLE
1	LOCATION AND DESIGNATION OF RESIDENCE WHERE INDOOR AIR SAMPLING WAS PERFORMED

NOTES

1. BASE MAP FROM USGS AERIAL PHOTO DATED APRIL 5, 1998.
2. WELL LOCATIONS SURVEYED BY JENKINS SURVEY & DESIGN, INC.
3. PROPERTY BOUNDRIES ARE BASED ON ROSCOE TOWNSHIP PLAT MAP AND ARE APPROXIMATE.

N

0 400 800

SCALE: 1"= 400'

PROJECT: **DANA CORPORATION**
FORMER WARNER ELECTRIC DIVISION
ROSCOE, ILLINOIS

SHEET TITLE: **INDOOR AIR SAMPLE LOCATIONS**

DRAWN BY: FITZGERALD	SCALE:	PROJ. NO.	02541.25
CHECKED BY: JAB	1" = 400'	FILE NO.	25412514.DWG
APPROVED BY: JAB	DATE PRINTED:	**FIGURE 4**	
DATE: APRIL 2009			

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J:\02541\25\25412514.dwg Monday, April 13, 2009 12:47 PM METZA
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Operator Name: FITZGERE
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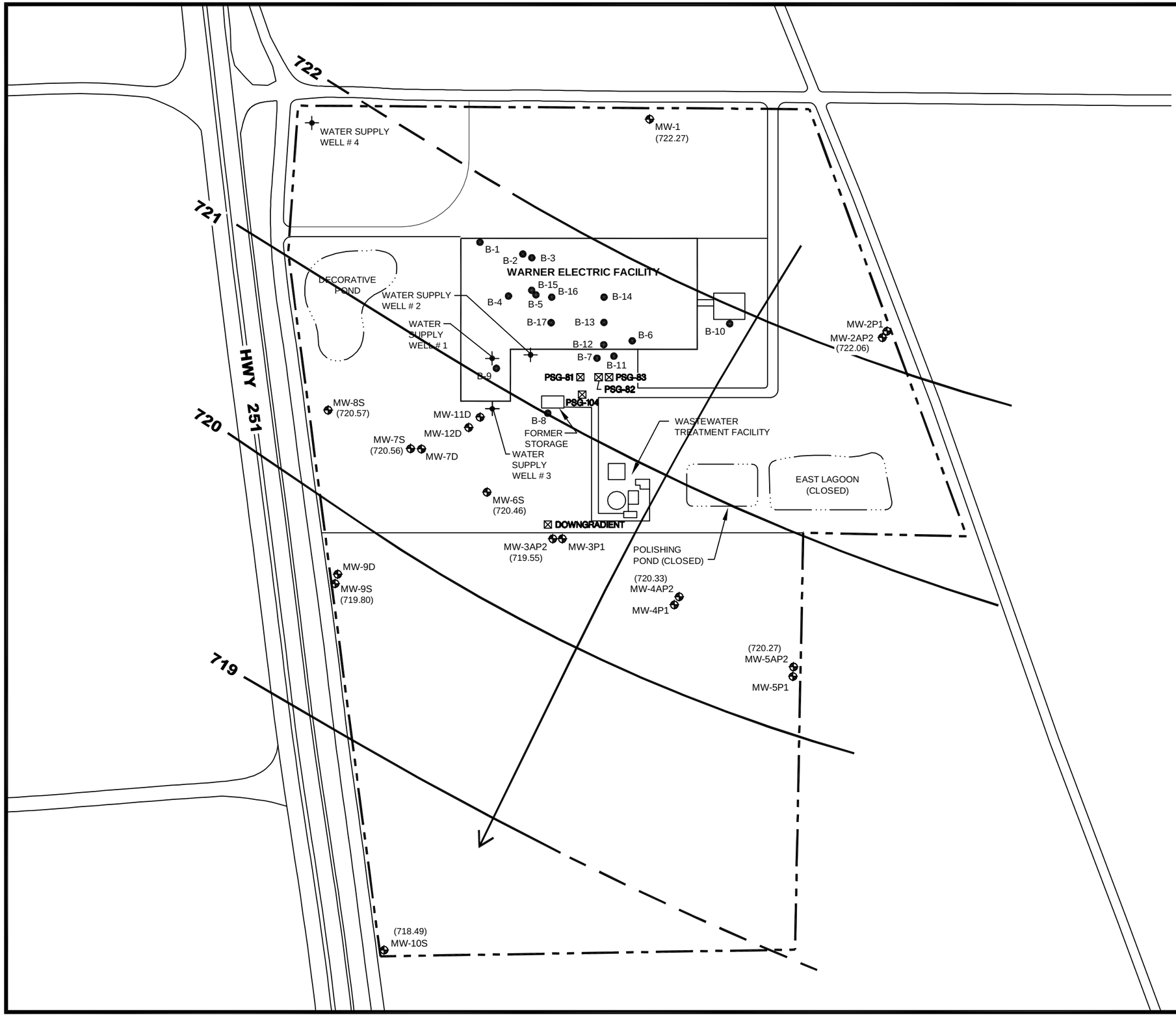

LEGEND

— — —	APPROXIMATE SITE BOUNDARY
B-5 ●	BORING LOCATION AND NUMBER
MW-9D,S ⊕	MONITORING WELL LOCAITON AND NUMBER (S / AP2 = SHALLOW, D / P1 = DEEP)
✦	EXISTING HISTORICAL WATER SUPPLY WELL
720 ———	GROUNDWATER CONTOUR LINE
(722.06)	GROUNDWATER ELEVATION
——→	GROUNDWATER FLOW DIRECTION
B-14 ●	BORING LOCATION (RMT, 2006) WITH SHALLOW GROUNDWATER SAMPLING
PSG-104 ⊠	TEMPORARY WELL LOCATION (RMT, 2006) WITH SHALLOW AND DEEP GROUNDWATER SAMPLING

NOTES

1. BASE MAP DEVELOPED FROM SITE PLAN PREPARED BY ERLER & KALINOWSKI, INC., PROJECT NO. A20007.02, DATED MAY 2003.

N

0 300' 400'

SCALE IN FEET

PROJECT: **DANA CORPORATION FORMER WARNER ELECTRIC DIVISION ROSCOE, ILLINOIS**

SHEET TITLE: **SHALLOW GROUNDWATER CONTOUR MAP OCTOBER 2005**

DRAWN BY: SIEWERTD	SCALE:	PROJ. NO.	02541.25
CHECKED BY: JAB	AS SHOWN	FILE NO.	25412521.DWG
APPROVED BY: JAB	DATE PRINTED:	**FIGURE 5**	
DATE: APRIL 2009			

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J:\02541\25\25412521.dwg Monday, April 13, 2009 12:47 PM METZA
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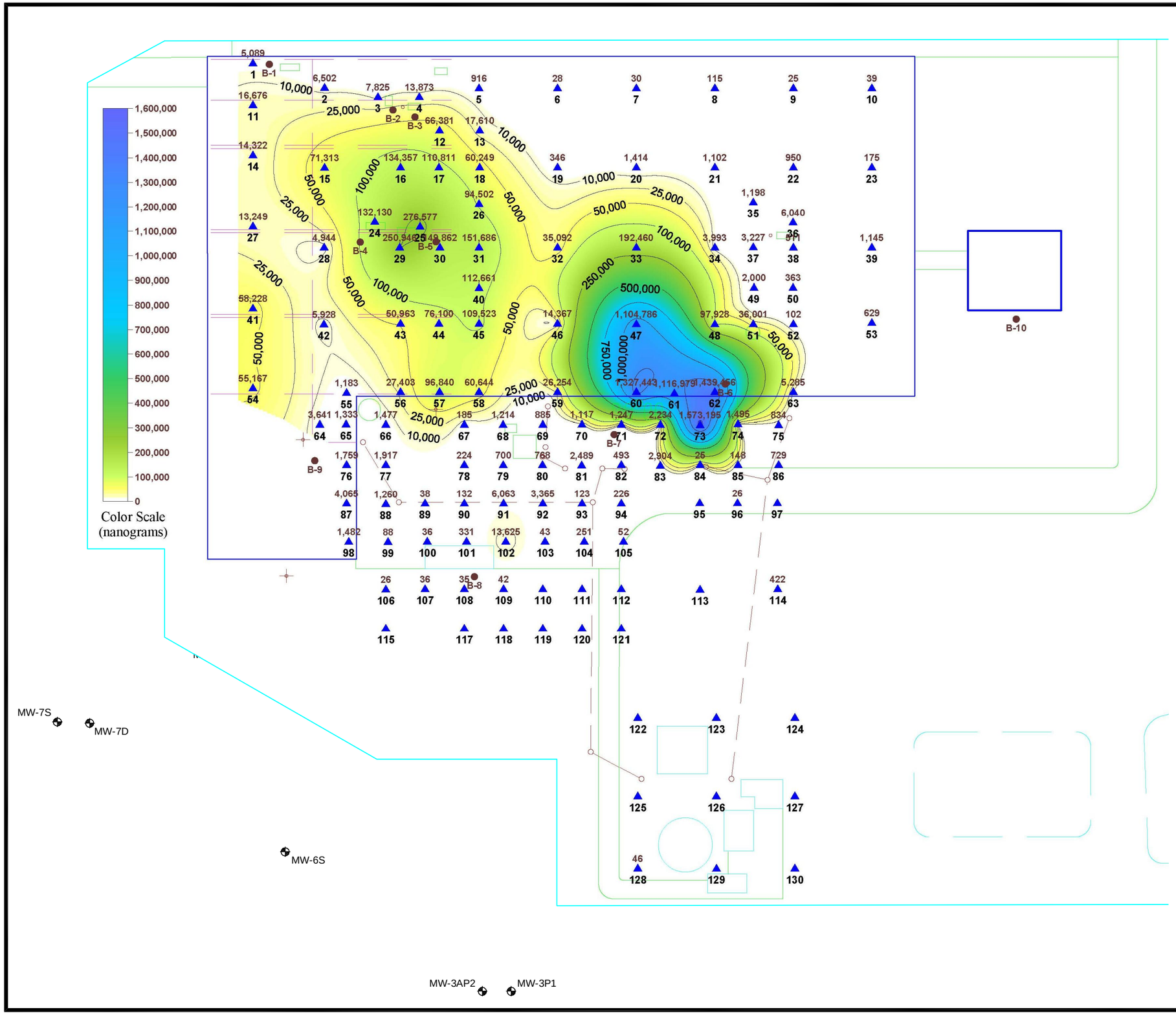

LEGEND

MW-9D,S	MONITORING WELL LOCATION AND NUMBER (S / AP2 = SHALLOW, D / P1 = DEEP)
	EXISTING HISTORICAL WATER SUPPLY WELL
B-5	EXISTING SOIL BORING LOCATION AND NUMBER
16,676	MASS OF TOTAL VOCs (IN NANOGRAMS) DETECTED IN PSG SAMPLE
11	SOIL GAS SAMPLING LOCATION
	PORTION OF INDUSTRIAL SEWER LINE AFTER 1977 per AS BUILT DRAWING DATED NOV. 1984 WARNER ELEC. BRAKE & CLUTCH CO. SEWER LINE REVISIONS
	TRENCH SYSTEM (ABANDONED)

NOTES

1. BASE MAP DEVELOPED FROM SITE PLAN PREPARED BY ERLER & KALINOWSKI, INC., PROJECT NO. A20007.02, DATED MAY 2003
2. STORAGE TANKS SHOWN ARE NOT TO SCALE.
3. SOIL GAS SAMPLE PREFIX (SG -) NOT INCLUDED IN MAP LABELS FOR THE PURPOSE OF SIMPLIFICATION.

N

0 100' 200'

SCALE IN FEET

PROJECT: **DANA CORPORATION FORMER WARNER ELECTRIC DIVISION ROSCOE, ILLINOIS**

SHEET TITLE: **PASSIVE SOIL GAS SURVEY TOTAL VOCs**

DRAWN BY: SIEWERTD	SCALE: AS SHOWN	PROJ. NO.	02541.25
CHECKED BY: JAB		FILE NO.	25412517.DWG
APPROVED BY: JAB	DATE PRINTED:	**FIGURE 6**	
DATE: APRIL 2009			

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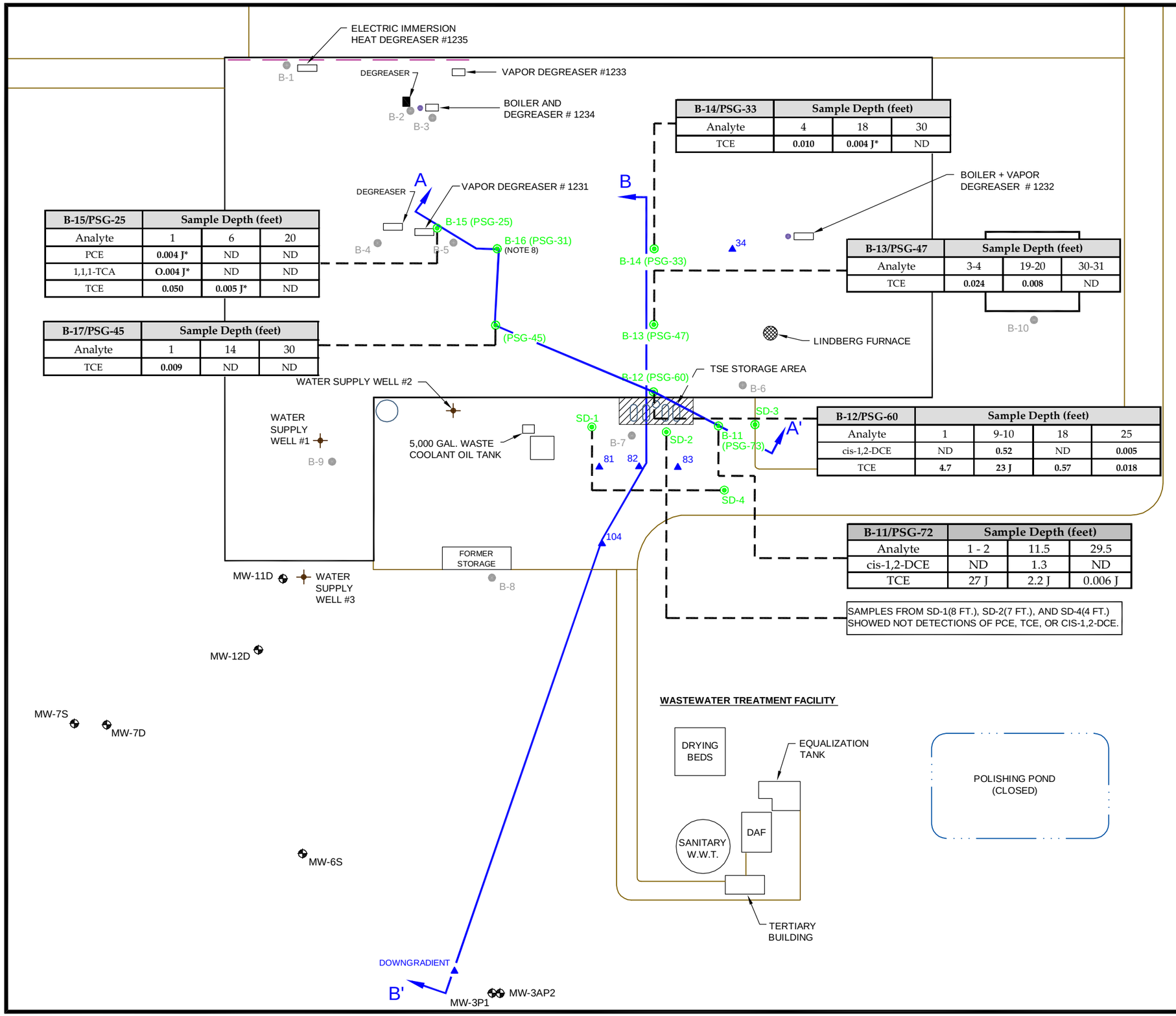

B-14/PSG-33	Sample Depth (feet)		
Analyte	4	18	30
TCE	0.010	0.004 J*	ND

B-15/PSG-25	Sample Depth (feet)		
Analyte	1	6	20
PCE	0.004 J*	ND	ND
1,1,1-TCA	O.004 J*	ND	ND
TCE	0.050	0.005 J*	ND

B-13/PSG-47	Sample Depth (feet)		
Analyte	3-4	19-20	30-31
TCE	0.024	0.008	ND

B-17/PSG-45	Sample Depth (feet)		
Analyte	1	14	30
TCE	0.009	ND	ND

B-12/PSG-60	Sample Depth (feet)			
Analyte	1	9-10	18	25
cis-1,2-DCE	ND	0.52	ND	0.005
TCE	4.7	23 J	0.57	0.018

B-11/PSG-72	Sample Depth (feet)		
Analyte	1 - 2	11.5	29.5
cis-1,2-DCE	ND	1.3	ND
TCE	27 J	2.2 J	0.006 J

SAMPLES FROM SD-1(8 FT.), SD-2(7 FT.), AND SD-4(4 FT.) SHOWED NOT DETECTIONS OF PCE, TCE, OR CIS-1,2-DCE.

LEGEND

- MW-9D,S — MONITORING WELL LOCATION AND NUMBER (S / AP2 = SHALLOW, D / P1 = DEEP)
- B-11 (PSG-73) — SOIL / GROUNDWATER SAMPLE LOCATION ADVANCED AT SOIL GAS SAMPLE LOCATION (RMT, 2006)
- HISTORICAL WATER SUPPLY WELL
- B-5 — SOIL BORING LOCATION AND NUMBER (EKI, 2003)
- A A' — CROSS SECTION LOCATOR

NOTES

1. BASE MAP DEVELOPED FROM SITE PLAN PREPARED BY ERLER & KALINOWSKI, INC., PROJECT NO. A20007.02, DATED MAY 2003
2. STORAGE TANKS ARE SHOWN NOT TO SCALE.
3. SOIL GAS SAMPLE PREFIX (PSG -) NOT INCLUDED IN MAP LABELS FOR THE PURPOSE OF SIMPLIFICATION.
4. LOCATIONS SHOWN IN BLUE DENOTE LOCATIONS WHERE ONLY GROUNDWATER PROFILING WAS PERFORMED IN MAY 2006.
5. LOCATIONS SHOWN IN GREEN DENOTE LOCATIONS WHERE WATER AND SOIL SAMPLES WERE COLLECTED IN MAY 2006.
6. ANALYTICAL RESULTS IN mg/kg.
7. ONLY ANALYTES WITH AT LEAST ONE DETECTION DISPLAYED.
8. SOIL SAMPLES ANALYZED, NO DETECTIONS.

N

0 100' 200'

SCALE IN FEET

PROJECT: **DANA CORPORATION FORMER WARNER ELECTRIC DIVISION ROSCOE, ILLINOIS**

SHEET TITLE: **VOCs IN SOIL**

DRAWN BY: FITZGERALD	SCALE: 1" = 100'	PROJ. NO.	02541.30
CHECKED BY: SW		FILE NO.	25413003.DWG
APPROVED BY: JAB	DATE PRINTED:	**FIGURE 7**	
DATE: APRIL 2009			

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1143 Highland Drive, Suite B
Ann Arbor, MI 48108-2237
Phone: 734-971-7080
Fax: 734-971-9022

PLOT DATA
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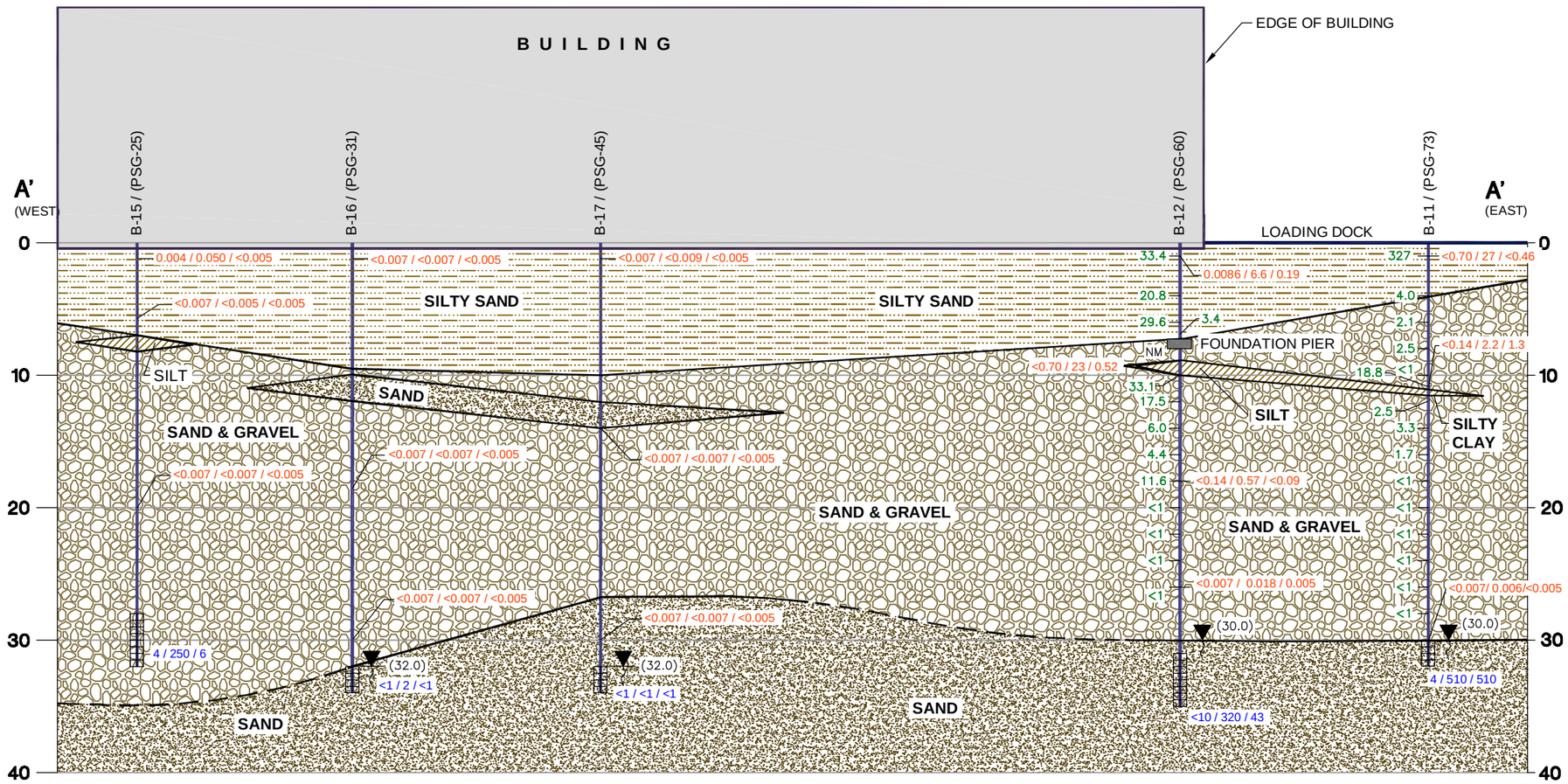

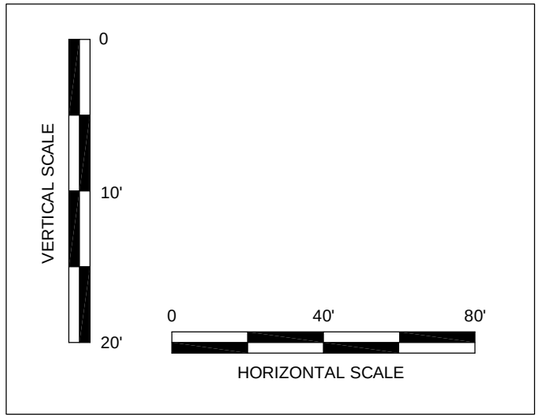

LEGEND

- APPROXIMATE GROUND SURFACE
- STRATIGRAPHIC CONTACT (DASHED WHERE INFERRED)
- 2.1 — PID RESULTS FOR FIELD-SCREENED SOIL SAMPLES
- <0.007 / <0.007 / <0.005 — PCE / TCE / CIS-1,2-DCE CONCENTRATIONS IN UNSATURATED SOIL, (mg/kg)
- <1 / 2 / <1 — PCE/TCE/CIS-1,2-DCE CONCENTRATIONS IN GROUNDWATER, (ug/L)
- (32.0) — DEPTH (BELOW GROUND SURFACE) AT WHICH SATURATED SOIL WAS ENCOUNTERED.
- NM — NOT MEASURED
- BORING LOCATION
- SAMPLE LOCATION
- BOTTOM OF BORING
- SCREEN POINT SAMPLER DEPTH
- SAND AND GRAVEL
- SILT / SILTY CLAY
- SILTY SAND
- SAND

NOTES

1. SOIL AND GROUNDWATER SAMPLES WERE COLLECTED BETWEEN MAY 8-11, 2006.
2. THE PID WAS NOT FUNCTIONING ON MAY 11, 2006 DURING DRILLING OF B-15, B-16, AND B-17; OLFACTORY EVIDENCE OF IMPACTS WERE OBSERVED AT B-15 IN SOIL FROM 0-6.5 FEET BELOW GROUND SURFACE (BGS) AND AT B-16 IN SOIL FROM 0-2 FEET BGS; ODORS WERE NOT OBSERVED AT B-17.
3. FIGURE 7 SHOWS THE CROSS SECTION LOCATIONS.

PROJECT: **DANA CORPORATION FORMER WARNER ELECTRIC DIVISION ROSCOE, ILLINOIS**

SHEET TITLE: **GEOLOGIC CROSS SECTION A-A'**

DRAWN BY: SIEWERTD	SCALE:	PROJ. NO.	02541.25
CHECKED BY: JAB	AS SHOWN	FILE NO.	25412522.DWG
APPROVED BY: JAB	DATE PRINTED:	**FIGURE 8**	
DATE: APRIL 2009			

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PLOT DATA
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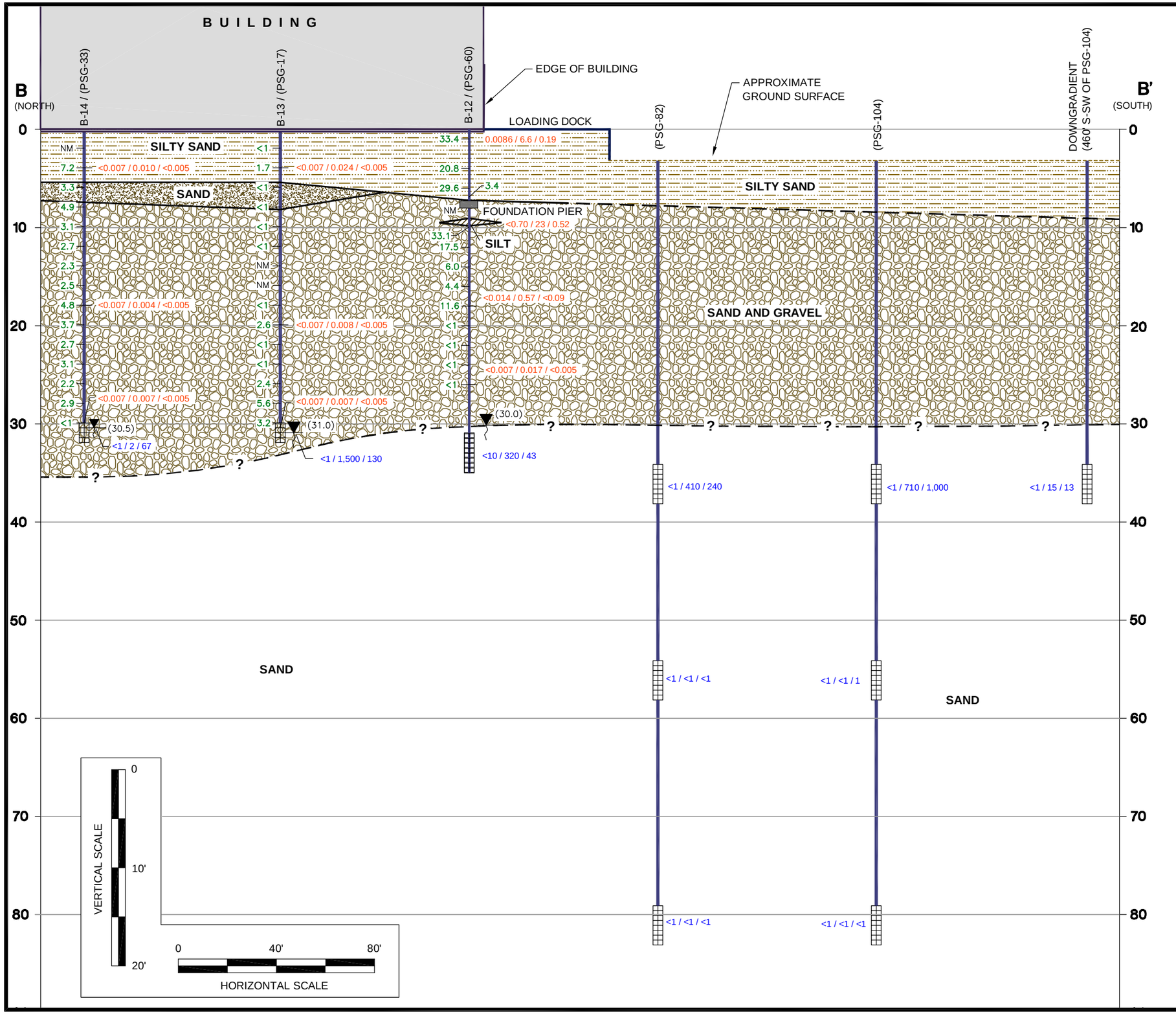

LEGEND

- APPROXIMATE GROUND SURFACE
- STRATIGRAPHIC CONTACT (DASHED WHERE INFERRED)
- 2.1 — PID RESULTS FOR FIELD-SCREENED SOIL SAMPLES
- <0.007 / <0.007 / <0.005 — PCE / TCE / CIS-1,2-DCE CONCENTRATIONS IN UNSATURATED SOIL, (mg/kg)
- <1 / 2 / <1 — PCE/TCE/CIS-1,2-DCE CONCENTRATIONS IN GROUNDWATER, (ug/L)
- (32.0) — DEPTH (BELOW GROUND SURFACE) AT WHICH SATURATED SOIL WAS ENCOUNTERED.
- NM — NOT MEASURED
- BORING LOCATION
- SAMPLE LOCATION
- BOTTOM OF BORING
- SCREEN POINT SAMPLER DEPTH
- SAND AND GRAVEL
- SILT / SILTY CLAY
- SILTY SAND
- SAND

NOTES

1. SOIL AND GROUNDWATER SAMPLES WERE COLLECTED BETWEEN MAY 8-11, 2006.
2. FIGURE 7 SHOWS THE CROSS SECTION LOCATIONS.

PROJECT: **DANA CORPORATION FORMER WARNER ELECTRIC DIVISION ROSCOE, ILLINOIS**

SHEET TITLE: **GEOLOGIC CROSS SECTION B -B'**

DRAWN BY: SIEWERTD	SCALE:	PROJ. NO.	02541.25
CHECKED BY: JAB	AS SHOWN	FILE NO.	25412522.DWG
APPROVED BY: JAB	DATE PRINTED:	**FIGURE 9**	
DATE: APRIL 2009			

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PLOT DATA
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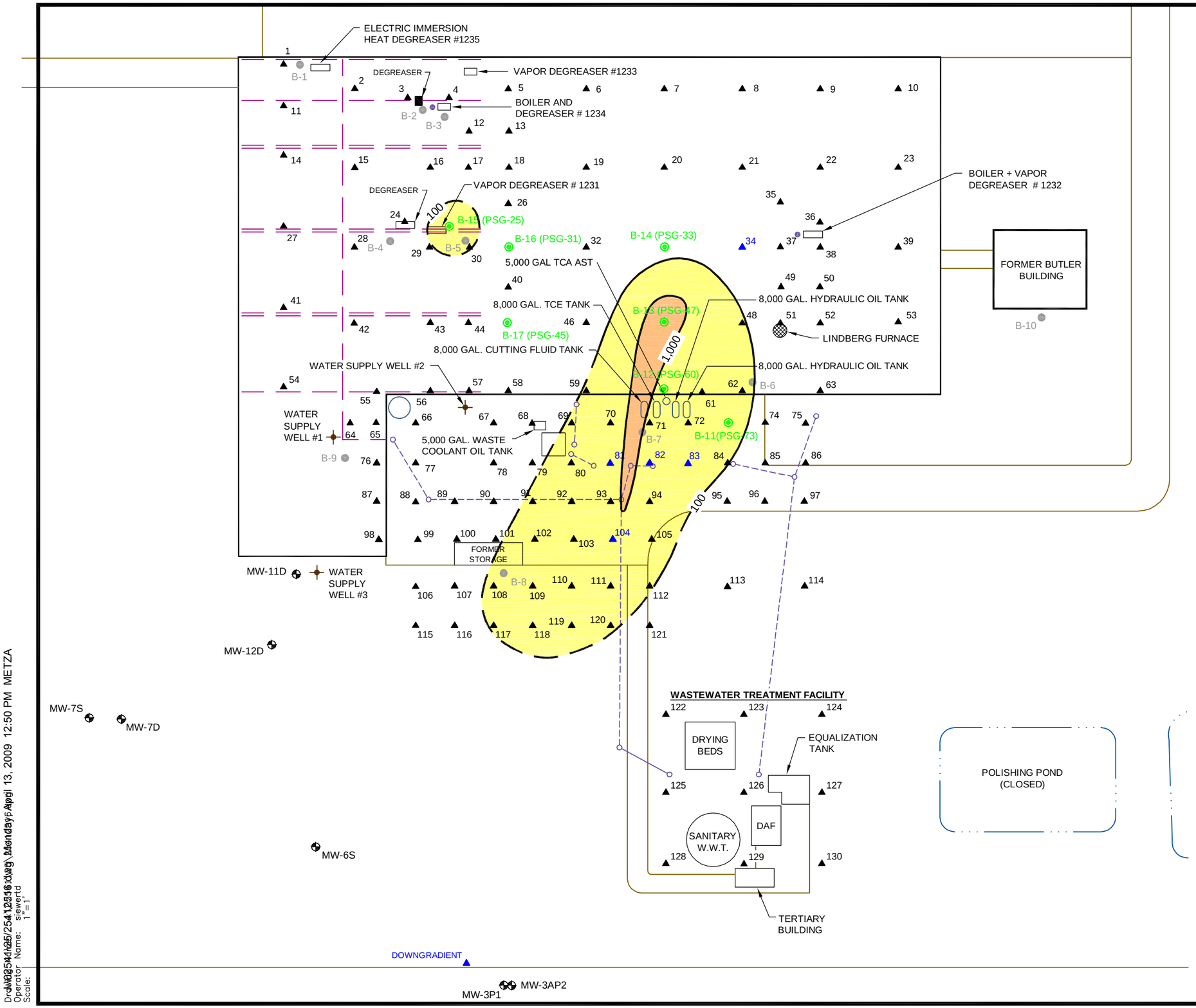


LEGEND

- MW-9D,S — MONITORING WELL LOCATION AND NUMBER (S / AP2 = SHALLOW, D / P1 = DEEP)
- B-11 (PSG-73) — SOIL / GROUNDWATER SAMPLE LOCATION ADVANCED AT SOIL GAS SAMPLE LOCATION (RMT, 2006)
- HISTORICAL WATER SUPPLY WELL
- B-5 — SOIL BORING LOCATION AND NUMBER (EKI, 2003)
- 11 — SOIL GAS SAMPLING LOCATION
- PORTION OF INDUSTRIAL SEWER LINE AFTER 1977 per AS BUILT DRAWING DATED NOV. 1984 WARNER ELEC. BRAKE & CLUTCH CO. SEWER LINE REVISIONS
- TRENCH SYSTEM (ABANDONED)

NOTES

1. BASE MAP DEVELOPED FROM SITE PLAN PREPARED BY ERLER & KALINOWSKI, INC., PROJECT NO. A20007.02, DATED MAY 2003
2. STORAGE TANKS ARE SHOWN NOT TO SCALE.
3. SOIL GAS SAMPLE PREFIX (PSG -) NOT INCLUDED IN MAP LABELS FOR THE PURPOSE OF SIMPLIFICATION.
4. LOCATIONS SHOWN IN BLUE DENOTE LOCATIONS WHERE ONLY GROUNDWATER PROFILING WAS PERFORMED IN MAY 2006.
5. LOCATIONS SHOWN IN GREEN DENOTE LOCATIONS WHERE WATER AND SOIL SAMPLES WERE COLLECTED IN MAY 2006.
6. GROUNDWATER CONCENTRATIONS IN ug/L.

TCE CONCENTRATIONS (ug/L)

- 100 - 1,000
- > 1,000

N

0 100' 200'

SCALE IN FEET

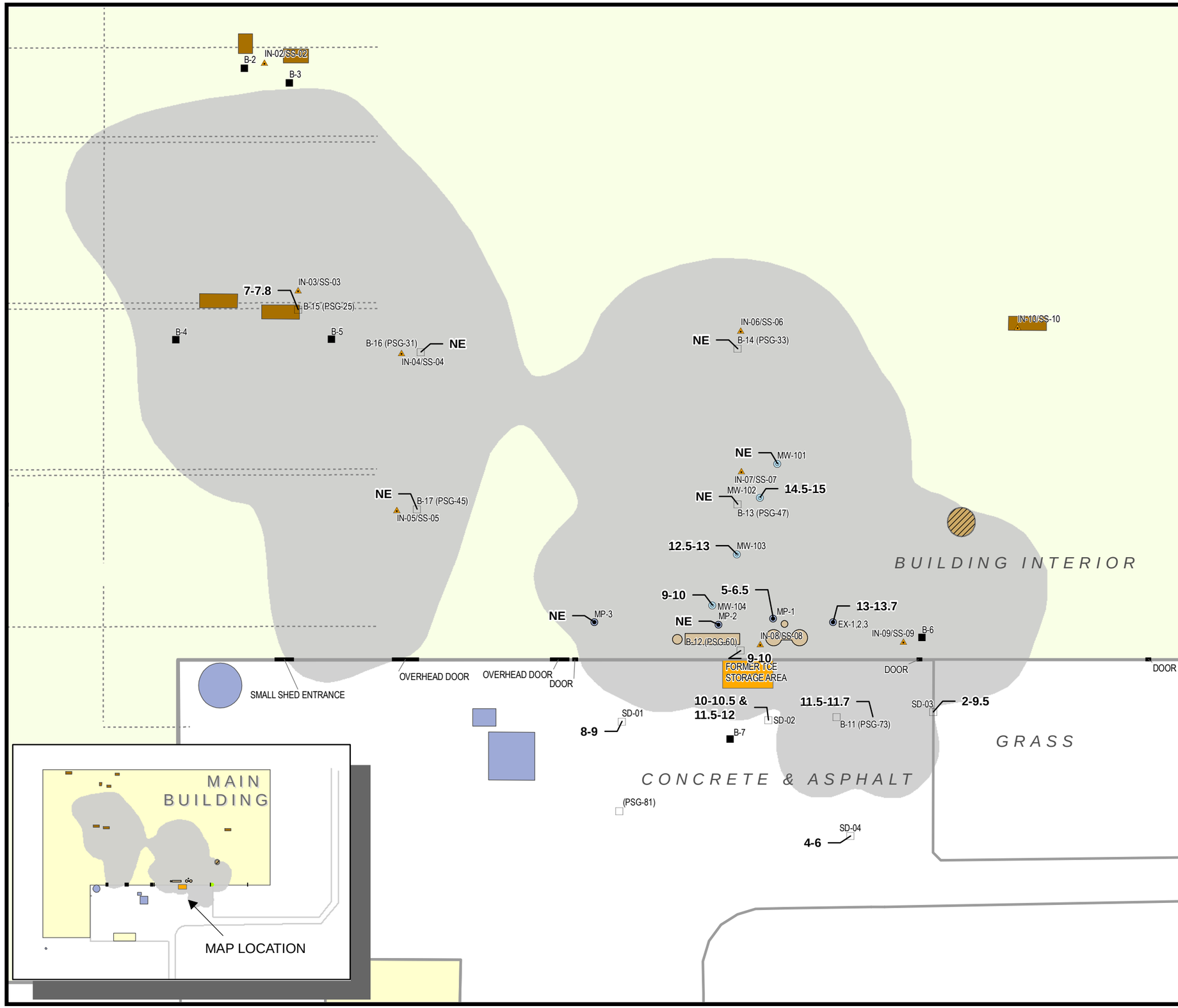
PROJECT: **DANA CORPORATION FORMER WARNER ELECTRIC DIVISION ROSCOE, ILLINOIS**

SHEET TITLE: **TCE IN SHALLOW GROUNDWATER**

DRAWN BY: SIEWERTD	SCALE:	PROJ. NO.	02541.25
CHECKED BY: JAB	AS SHOWN	FILE NO.	25412516.DWG
APPROVED BY: JAB	DATE PRINTED:	**FIGURE 10**	
DATE: APRIL 2009			

RMT
744 Heartland Trail
Madison, WI 53717-1934
P.O. Box 8923 53708-8923
Phone: 608-831-4444
Fax: 608-831-3334

PLOT DATA
Drawing: 25412516.dwg, Monday, April 13, 2009 12:50 PM METZA
Operator Name: siewertd
Scale: 1" = 1'



LEGEND

- LIMITS OF SOIL REQUIRING SVE REMEDIATION
- DEEP SOIL VAPOR EXTRACTION WELL NEST & MONITORING POINTS
- GROUNDWATER SCREENING SAMPLE
- MONITORING WELL
- SOIL GAS & SUBSLAB SOIL VAPOR SAMPLE LOCATION
- SOIL BORING LOCATION BY EKI (NO LOG AVAILABLE)
- SOIL BORING LOCATION BY RMT (LOG AVAILABLE)
- DOOR
- BUILDING OUTLINES
- SOIL GAS EXTRACTION SYSTEM
- FORMER TCE STORAGE AREA
- FORMER DEGREASER LOCATION
- FORMER FURNACE LOCATION
- FORMER TANK LOCATION
- ROAD/ASPHALT EDGE
- TRENCH SYSTEM (ABANDONED)

NOTES

1. MONITORING POINTS LOCATED BY GPS, "DISTANCE –FROM-POINT" MEASUREMENTS OR FROM APPROXIMATION.

N

0 50 100 FEET

1 " = 50 '
1:600

PROJECT: **DANA CORPORATION FORMER WARNER ELECTRIC DIVISION ROSCOE, ILLINOIS**

SHEET TITLE: **SILT LAYER THICKNESS AND DISTRIBUTION**

DRAWN BY:	MCKEEFRY J	SCALE:		PROJ. NO.	00-02541.30
CHECKED BY:	BUSS J		AS NOTED	FILE NO.	025413007.mxd
APPROVED BY:	RICE J	DATE PRINTED:		**FIGURE 11**	
DATE:	APRIL 2009		4/14/2009		

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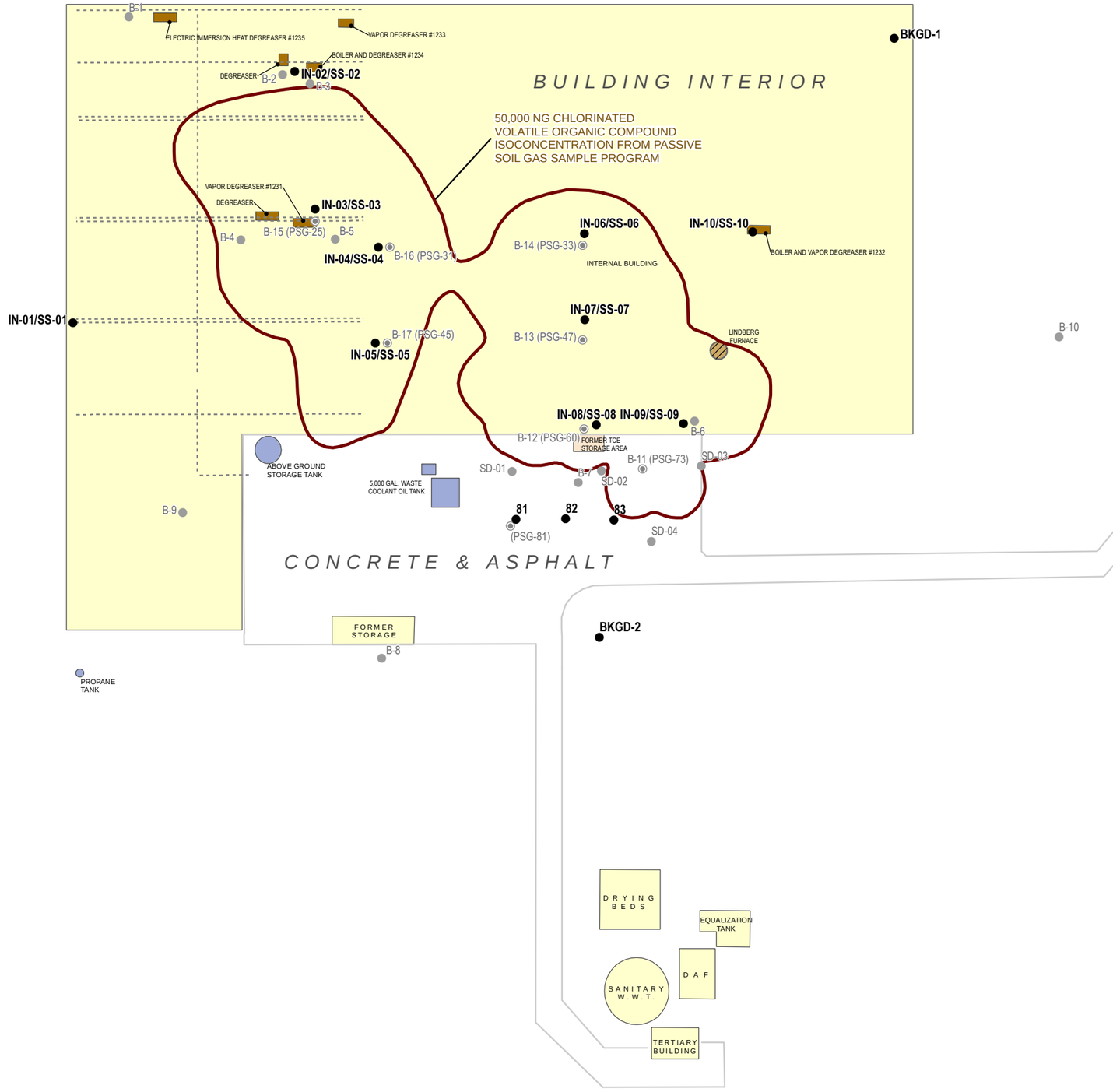
D:\02541\30\MXD\025413007.mxd 4/14/2009 13:19:14

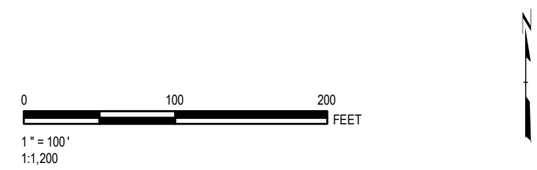


LEGEND

- SOIL GAS & SUBSLAB SOIL VAPOR SAMPLE LOCATION; SOIL GAS SAMPLING LOCATION
- SOIL BORING LOCATION (EKI, 2003)
- SOIL/GROUNDWATER SAMPLE LOCATION. ADVANCED AT SOIL GAS SAMPLE LOCATION (RMT 2006)
- SOIL GAS SAMPLE ISOCONCENTRATION
- ROAD/ASPHALT EDGE
- TRENCH SYSTEM (ABANDONED)

NOTES

1. BASE MAP DEVELOPED FROM SITE PLAN PREPARED BY ERLER & KALINOWSKI, INC. PROJECT NO A20007.02 DATED MAY 2003
2. SOIL GAS SAMPLE PREFIX (PSG-) NOT INCLUDED IN SOME MAP LABELS FOR SIMPLIFICATION.
3. STORAGE TANKS NOT SHOWN TO SCALE.
4. SVE WELL NEST AND MONITORING POINTS TO BE INSTALLED BY OTHERS.
5. ALL LOCATIONS ARE APPROXIMATE. CONSULT AND COORDINATE WITH OWNER OR RMT FOR ALL TIE-INS AND BUILDING PENETRATIONS.



PROJECT:

DANA CORPORATION
FORMER WARNER ELECTRIC DIVISION
ROSCOE, ILLINOIS

SHEET TITLE:

INDOOR AIR AND SUB-SLAB VAPOR SAMPLE LOCATIONS

DRAWN BY:	MCKEEFRY J	SCALE:	AS NOTED	PROJ. NO.	00-02541.30
CHECKED BY:	GLIJER B			FILE NO.	25413009.mxd
APPROVED BY:	BUSS J	DATE PRINTED:	4/14/2009	**FIGURE 12**	
DATE:	APRIL 2009				

RMT

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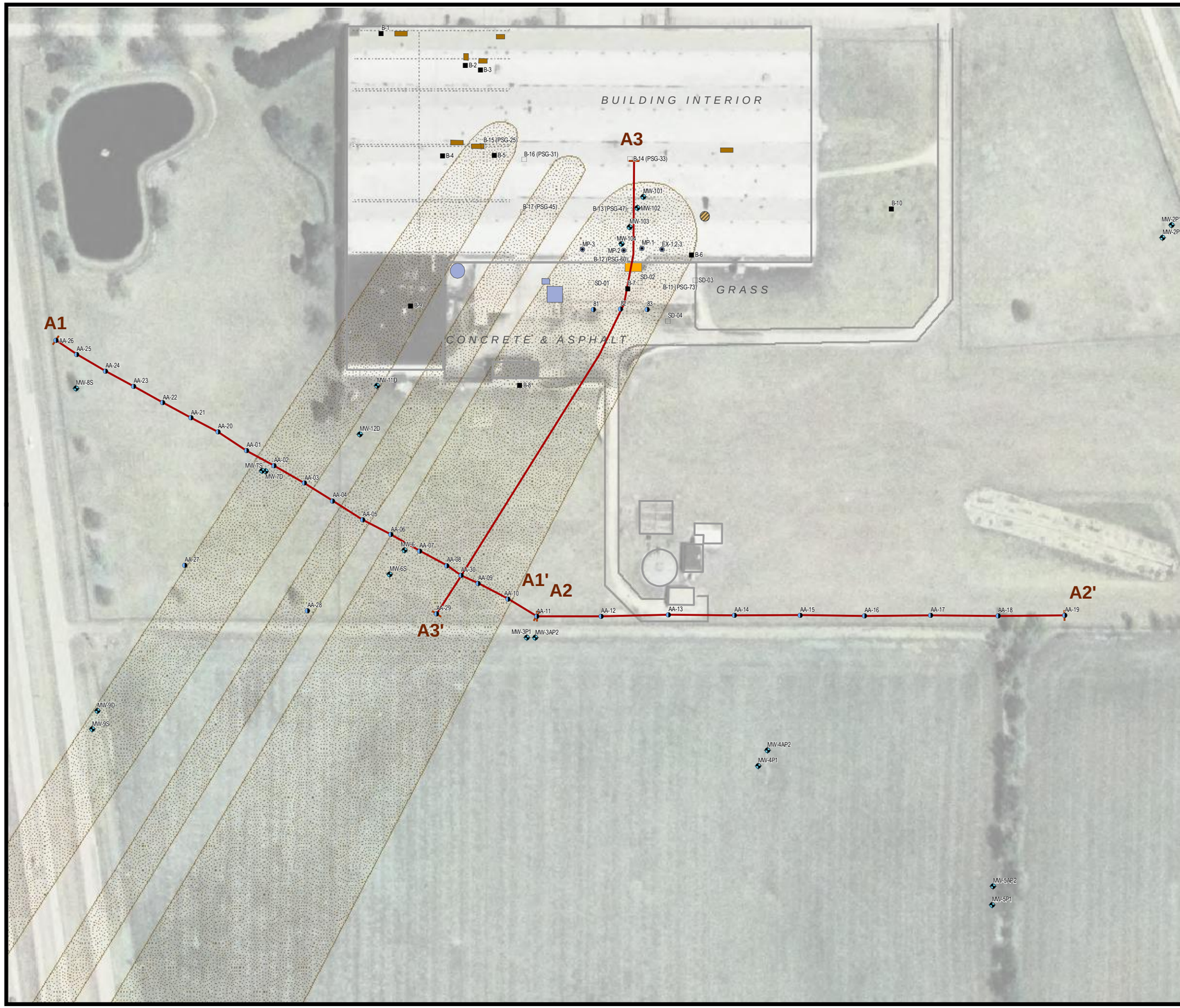

LEGEND

- DEEP SOIL VAPOR EXTRACTION WELL NEST & MONITORING POINTS
- GROUNDWATER SCREENING SAMPLE; SOIL GAS SAMPLING LOCATION
- EXISTING MONITORING WELL
- SOIL BORING LOCATION BY EKI (NO LOG AVAILABLE)
- SOIL BORING LOCATION BY RMT (LOG AVAILABLE)
- FORMER TCE STORAGE AREA
- FORMER DEGREASER LOCATION
- FORMER FURNACE LOCATION
- FORMER TANK LOCATION
- ROAD/ASPHALT EDGE
- TRENCH SYSTEM (ABANDONED)
- AREA OF AFFECTED GROUNDWATER

NOTES

1. MONITORING POINTS LOCATED BY GPS, "DISTANCE –FROM-POINT" MEASUREMENTS OR FROM APPROXIMATION.

N

0 150 300 FEET

1 " = 150 '
1:1,800

PROJECT:
DANA CORPORATION
FORMER WARNER ELECTRIC DIVISION
ROSCOE, ILLINOIS

SHEET TITLE:
CORE OF AFFECTED GROUNDWATER AT FACILITY

DRAWN BY:	MCKEEFRY J	SCALE:		PROJ. NO.	00-02541.30
CHECKED BY:	RICE J		AS NOTED	FILE NO.	025413014.mxd
APPROVED BY:	BUSS J	DATE PRINTED:		**FIGURE 13**	
DATE:	APRIL 2009		4/14/2009		

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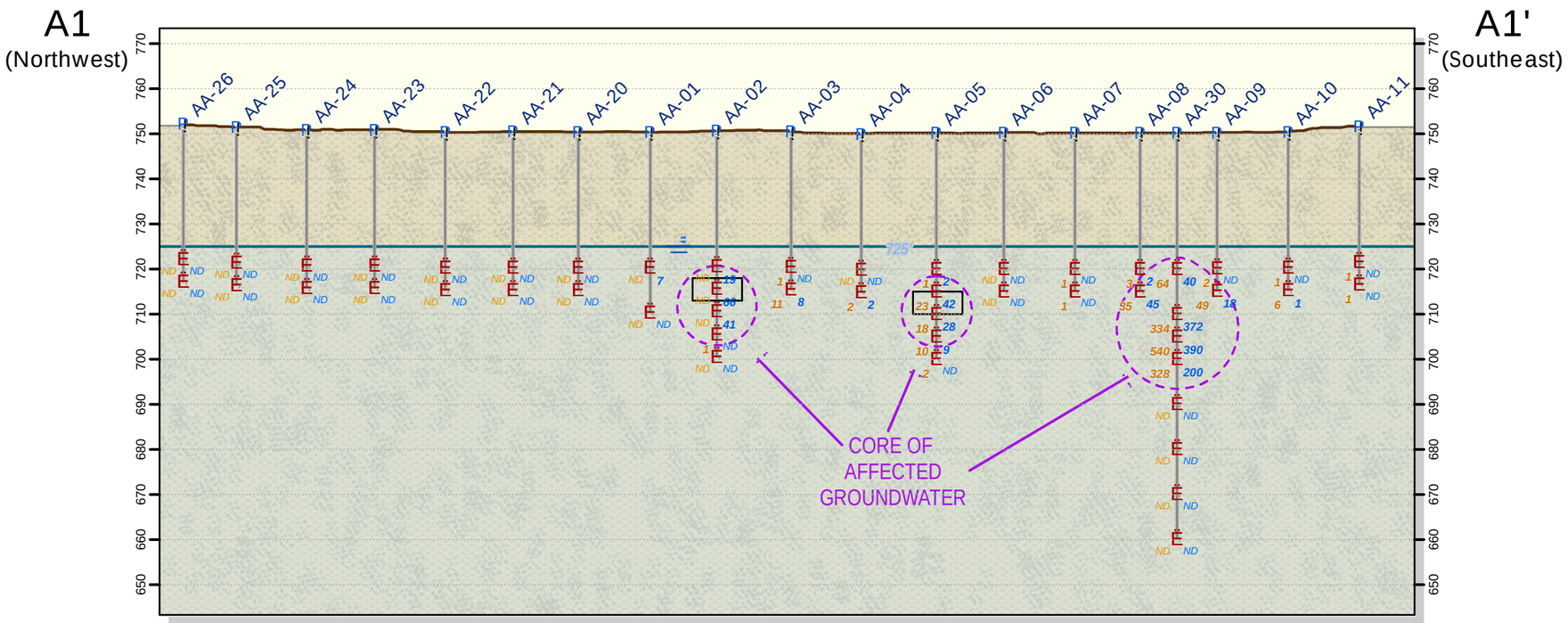

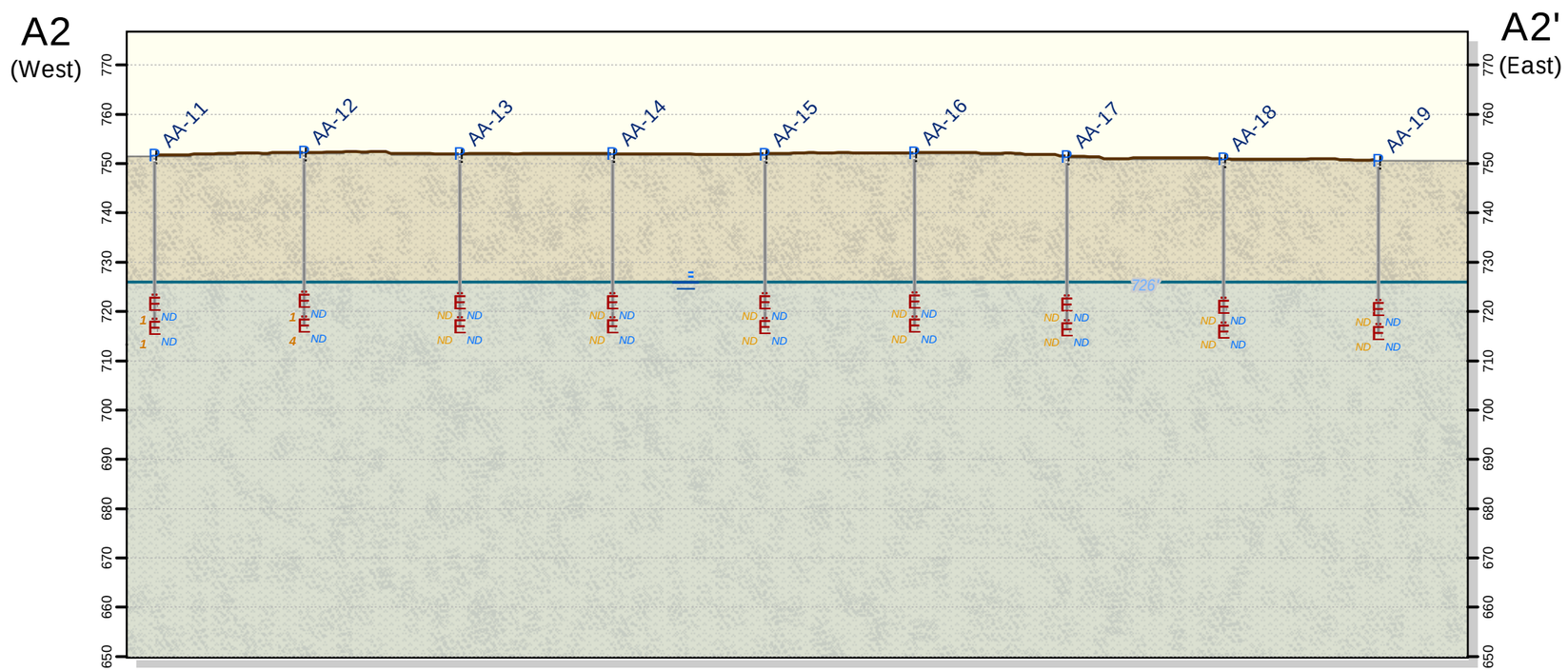

LEGEND

- BORING LOCATION
- GROUNDWATER SAMPLE LOCATION
  TCE (µg/L) DCE (µg/L)
- GROUND SURFACE PROFILE
- WATER TABLE
- PROPOSED WELL SCREEN INTERVAL
- CORE OF AFFECTED GROUNDWATER

NOTES

1. SAMPLE CHEMICAL RESULTS SUPPLIED BY MATRIX ENVIRONMENTAL, LLC AND PACE ANALYTICAL SERVICES, INC.
2. PROFILES AND ELEVATION INFORMATION BASED ON DATA FROM THE USGS NATIONAL ELEVATION DATASET (PIXEL RESOLUTION = 1/9 ARCSECOND).
3. CROSS SECTIONS HAVE APPROXIMATE 3.3 VERTICAL EXAGGERATION. HORIZONTAL UNITS ARE IN FEET, VERTICAL UNITS ARE IN FEET (MSL).

0 100 200 FEET

1" EQUALS ~100' HORIZONTAL
1" EQUALS ~30 ' VERTICAL
SCALE IS APPROXIMATE

PROJECT: **DANA HOLDING CORPORATION**
FORMER WARNER ELECTRIC DIVISION
ROSCOE, ILLINOIS

SHEET TITLE: **TEMPORARY WELL SAMPLE RESULTS**
TRANSECTS A1 - A1' AND A2 - A2'

DRAWN BY:	PAPEZ J	SCALE:		PROJ. NO.	00-002541.30
CHECKED BY:	JAB	AS NOTED		FILE NO.	254130xsec01.mxd
APPROVED BY:	JAB	DATE PRINTED:		**FIGURE 14**	
DATE:	APRIL 2009	4/14/2009			

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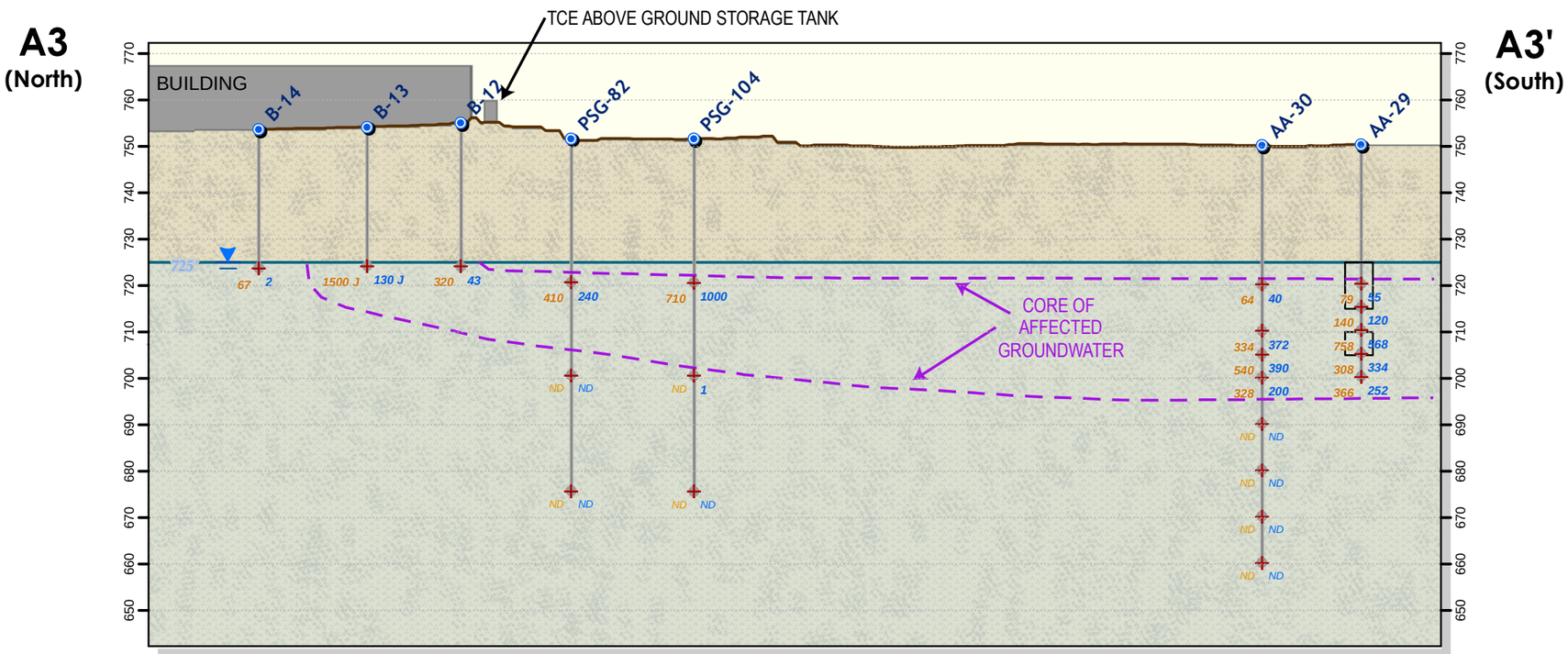

LEGEND

- BORING LOCATION
- GROUNDWATER SAMPLE LOCATION
  TCE (µg/L) DCE (µg/L)
- GROUND SURFACE PROFILE
- WATER TABLE
- PROPOSED WELL SCREEN INTERVAL
- CORE OF AFFECTED GROUNDWATER

NOTES

1. SAMPLE CHEMICAL RESULTS SUPPLIED BY MATRIX ENVIRONMENTAL, LLC AND PACE ANALYTICAL SERVICES, INC.
2. PROFILES AND ELEVATION INFORMATION BASED ON DATA FROM THE USGS NATIONAL ELEVATION DATASET (PIXEL RESOLUTION = 1/9 ARCSECOND).
3. CROSS SECTIONS HAS APPROXIMATE 3.3 VERTICAL EXAGGERATION. HORIZONTAL UNITS ARE IN FEET, VERTICAL UNITS ARE IN FEET (MSL).

0 100 200
FEET

1" EQUALS ~100' HORIZONTAL
1" EQUALS ~30 ' VERTICAL
SCALE IS APPROXIMATE

PROJECT:
DANA HOLDING CORPORATION
FORMER WARNER ELECTRIC DIVISION
ROSCOE, ILLINOIS

SHEET TITLE:
TEMPORARY WELL SAMPLE RESULTS
TRANSECT A3 - A3'

DRAWN BY:	PAPEZ J	SCALE:		PROJ. NO.	00-002541.30
CHECKED BY:	JAB	AS NOTED		FILE NO.	254130xsec03.mxd
APPROVED BY:	JAB	DATE PRINTED:	4/14/2009	**FIGURE 15**	
DATE:	APRIL 2009				

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Fax: 608-831-3334

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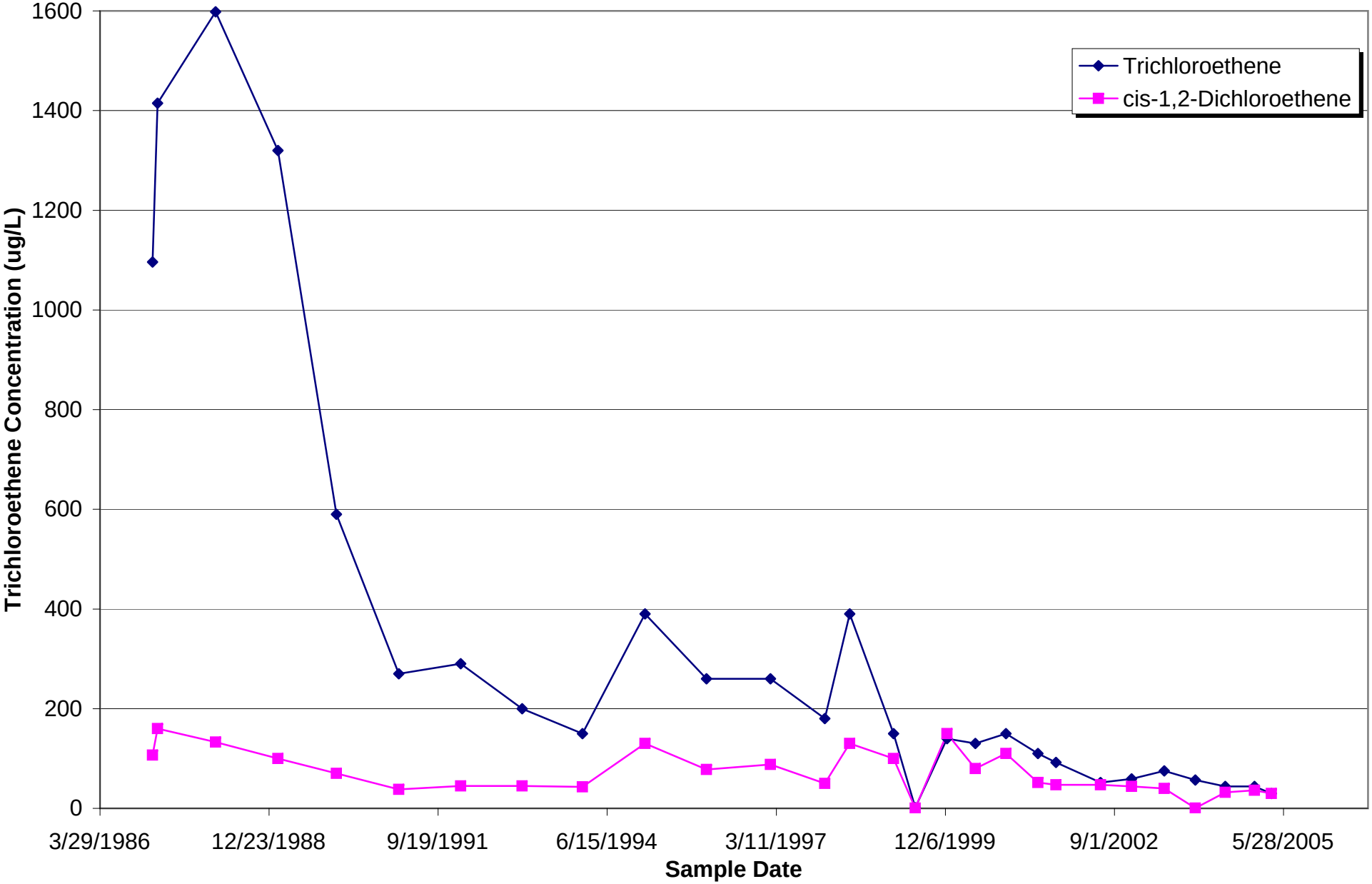
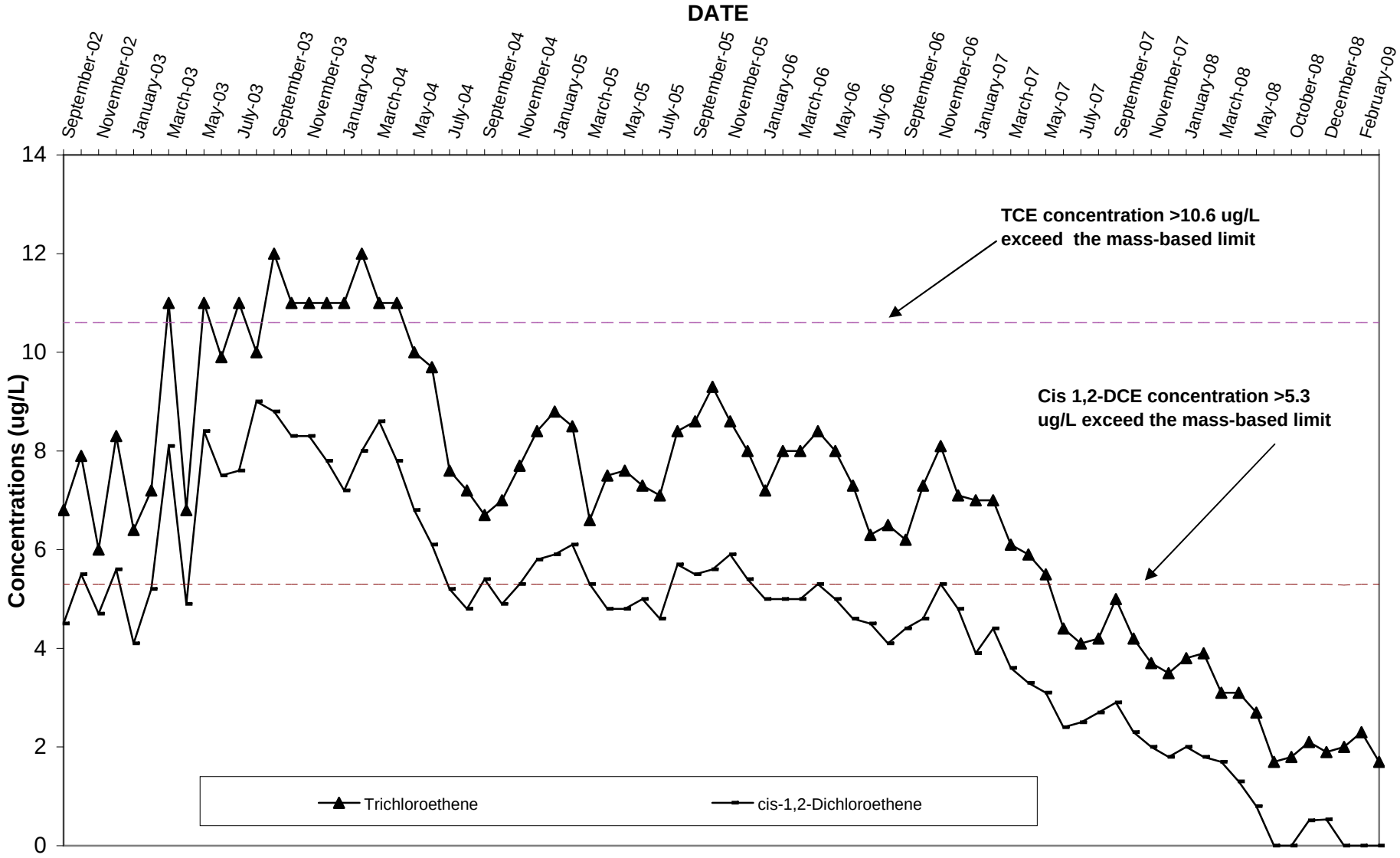
Figure 16
Monitoring Well N1-60 TCE and cis-1,2-DCE Concentration Trend
Former Warner Electric, Roscoe, Illinois



I:\WPMSN\PJT\00-02541\30\000254130-002.XLS

Figure 17
Influent Concentration Trend - Groundwater Remediation System
Former Warner Electric, Roscoe, Illinois



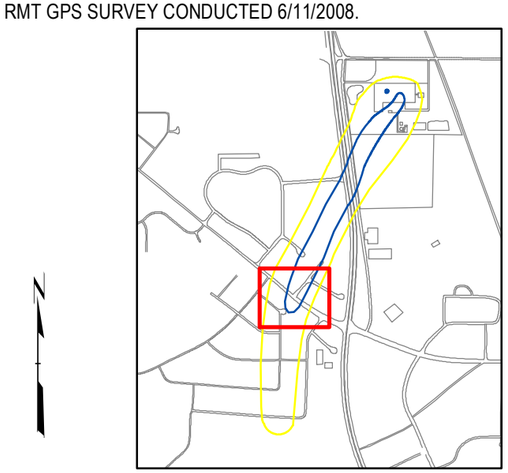
I:\WPMSN\PJT\00-02541\30\000254130-013.XLS

LEGEND

- TEMPORARY WELL LOCATION
- PROPOSED LONG-TERM MONITORING WELL
- RMT GPS SURVEY LINE
- EXTENT OF DETECTED VOCS
- EXTENT OF VOCS GREATER THAN 100 µg/L
- TRANSECT LINE

NOTES

1. BASE MAP IMAGERY FROM USDA – NATIONAL AGRICULTURE IMAGERY PROGRAM (JULY 2006), PAN SHARPENED WITH ILLINOIS NATIONAL AERIAL PHOTOGRAPHY PROGRAM IMAGERY (SPRING 2005).
2. RMT GPS SURVEY CONDUCTED 6/11/2008.



0 100 200 FEET

1 " = 100 '
1:1,200

PROJECT: DANA HOLDING CORPORATION
FORMER WARNER ELECTRIC DIVISION
ROSCOE, ILLLINOIS

SHEET TITLE: GROUNDWATER SCREENING TRANSECT
B-B'

DRAWN BY: PAPEZ J	SCALE: AS NOTED	PROJ. NO. 00-002541.30	
CHECKED BY: JAB		FILE NO. 25413006.mxd	
APPROVED BY: JAB	DATE PRINTED: 4/14/2009	FIGURE 18	
DATE: APRIL 2009			

RMT

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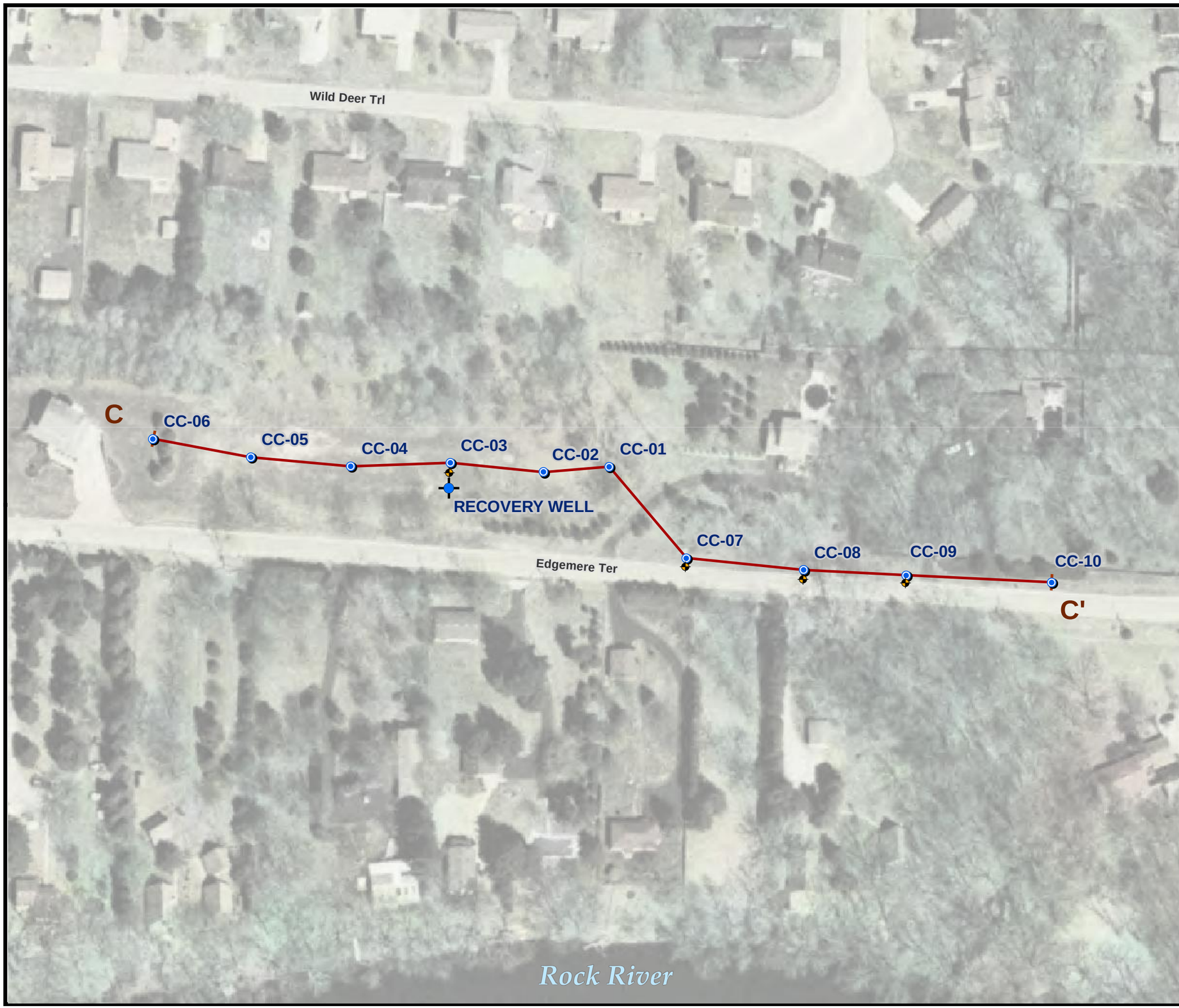
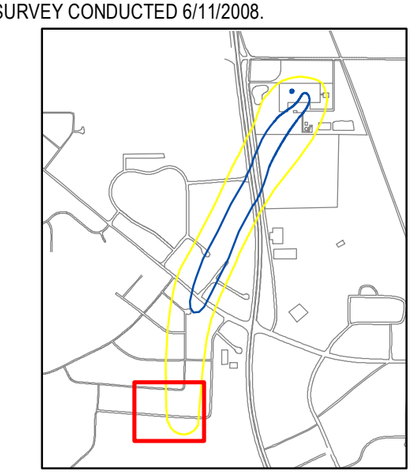


LEGEND

- TEMPORARY WELL LOCATION
- PROPOSED LONG-TERM MONITORING WELL
- TRANSECT LINE
- RECOVERY WELL

NOTES

1. BASE MAP IMAGERY FROM USDA – NATIONAL AGRICULTURE IMAGERY PROGRAM (JULY 2006), PAN SHARPENED WITH ILLINOIS NATIONAL AERIAL PHOTOGRAPHY PROGRAM IMAGERY (SPRING 2005).
2. RMT GPS SURVEY CONDUCTED 6/11/2008.



0 100 200 FEET

1 " = 100 '
1:1,200

PROJECT: **DANA HOLDING CORPORATION FORMER WARNER ELECTRIC DIVISION ROSCOE, ILLLINOIS**

SHEET TITLE: **GROUNDWATER SCREENING TRANSECT C-C'**

DRAWN BY:	PAPEZ J	SCALE:	AS NOTED	PROJ. NO.	00-002541.30
CHECKED BY:	JAB			FILE NO.	25413005.mxd
APPROVED BY:	JAB	DATE PRINTED:	4/14/2009	**FIGURE 19**	
DATE:	APRIL 2009				

RMT

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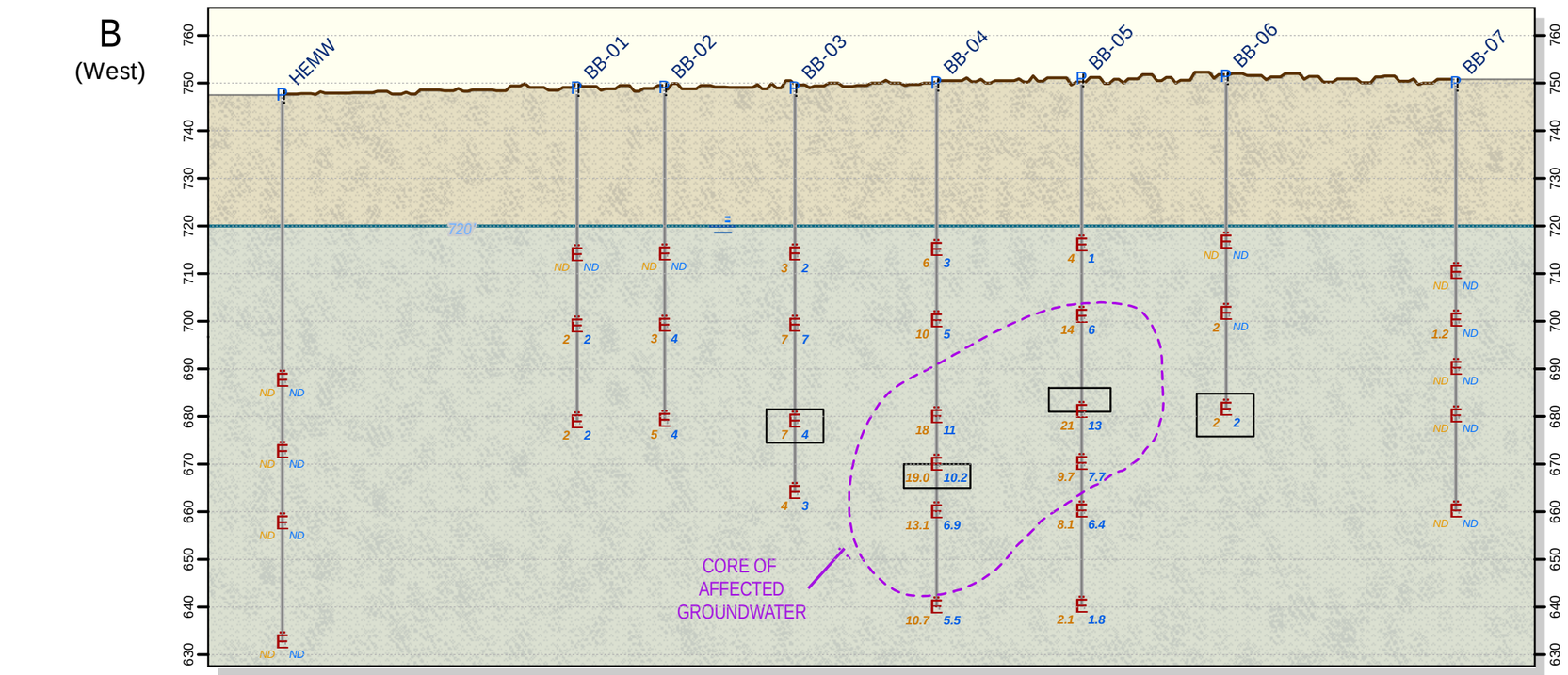

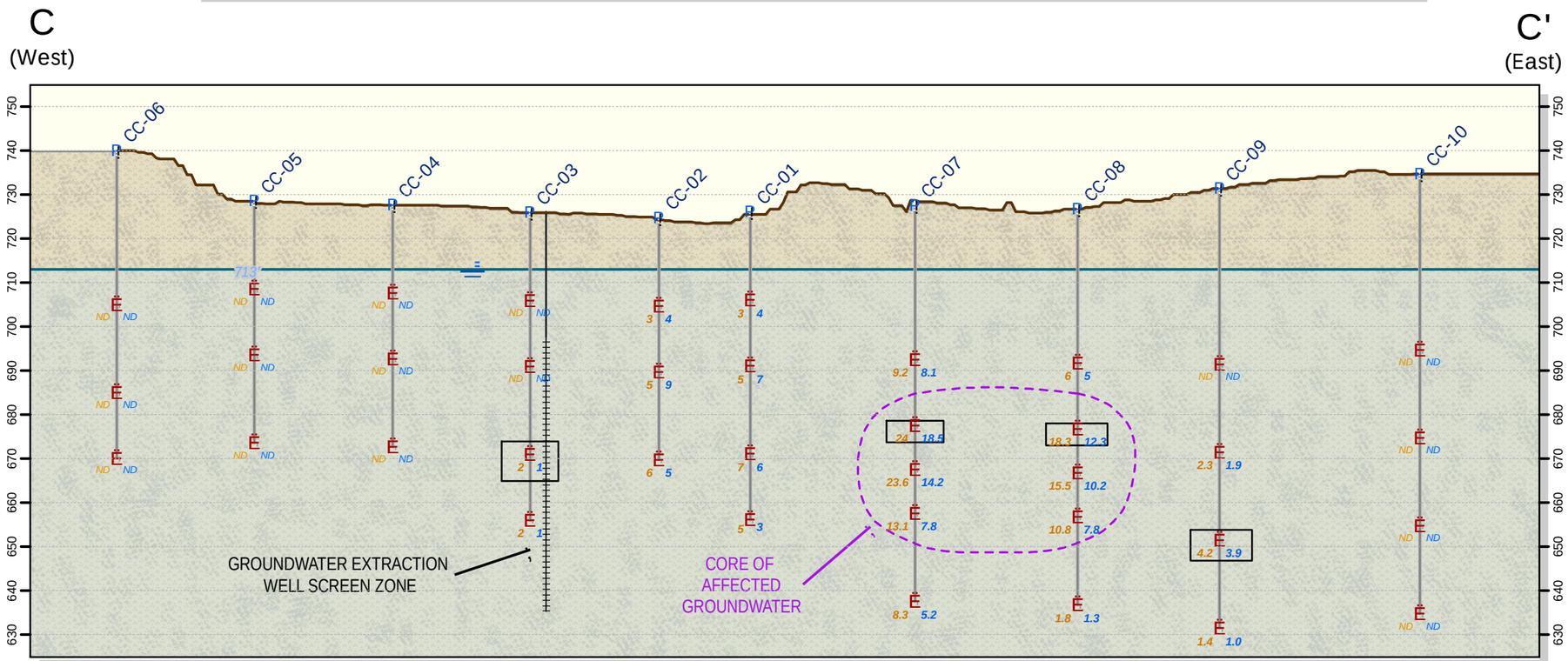

LEGEND

- BORING LOCATION
- GROUNDWATER SAMPLE LOCATION
  TCE (µg/L) DCE (µg/L)
- GROUND SURFACE PROFILE
- WATER TABLE
- PROPOSED WELL SCREEN INTERVAL
- CORE OF AFFECTED GROUNDWATER

NOTES

1. SAMPLE CHEMICAL RESULTS SUPPLIED BY MATRIX ENVIRONMENTAL, LLC AND PACE ANALYTICAL SERVICES, INC.
2. PROFILES AND ELEVATION INFORMATION BASED ON DATA FROM THE USGS NATIONAL ELEVATION DATASET (PIXEL RESOLUTION = 1/9 ARCSECOND).
3. CROSS SECTIONS HAVE APPROXIMATE 3.3 VERTICAL EXAGGERATION. HORIZONTAL UNITS ARE IN FEET, VERTICAL UNITS ARE IN FEET (MSL).

0 100 200 FEET

1" EQUALS ~100' HORIZONTAL
1" EQUALS ~30 ' VERTICAL
SCALE IS APPROXIMATE

PROJECT: DANA HOLDING CORPORATION
FORMER WARNER ELECTRIC DIVISION
ROSCOE, ILLINOIS

SHEET TITLE: TEMPORARY WELL SAMPLE RESULTS
TRANSECTS B - B' AND C - C'

DRAWN BY: PAPEZ J	SCALE: AS NOTED	PROJ. NO. 00-002541.30	
CHECKED BY: JAB		FILE NO. 254130xsec02.mxd	
APPROVED BY: JAB	DATE PRINTED: 4/14/2009	FIGURE 20	
DATE: APRIL 2009			

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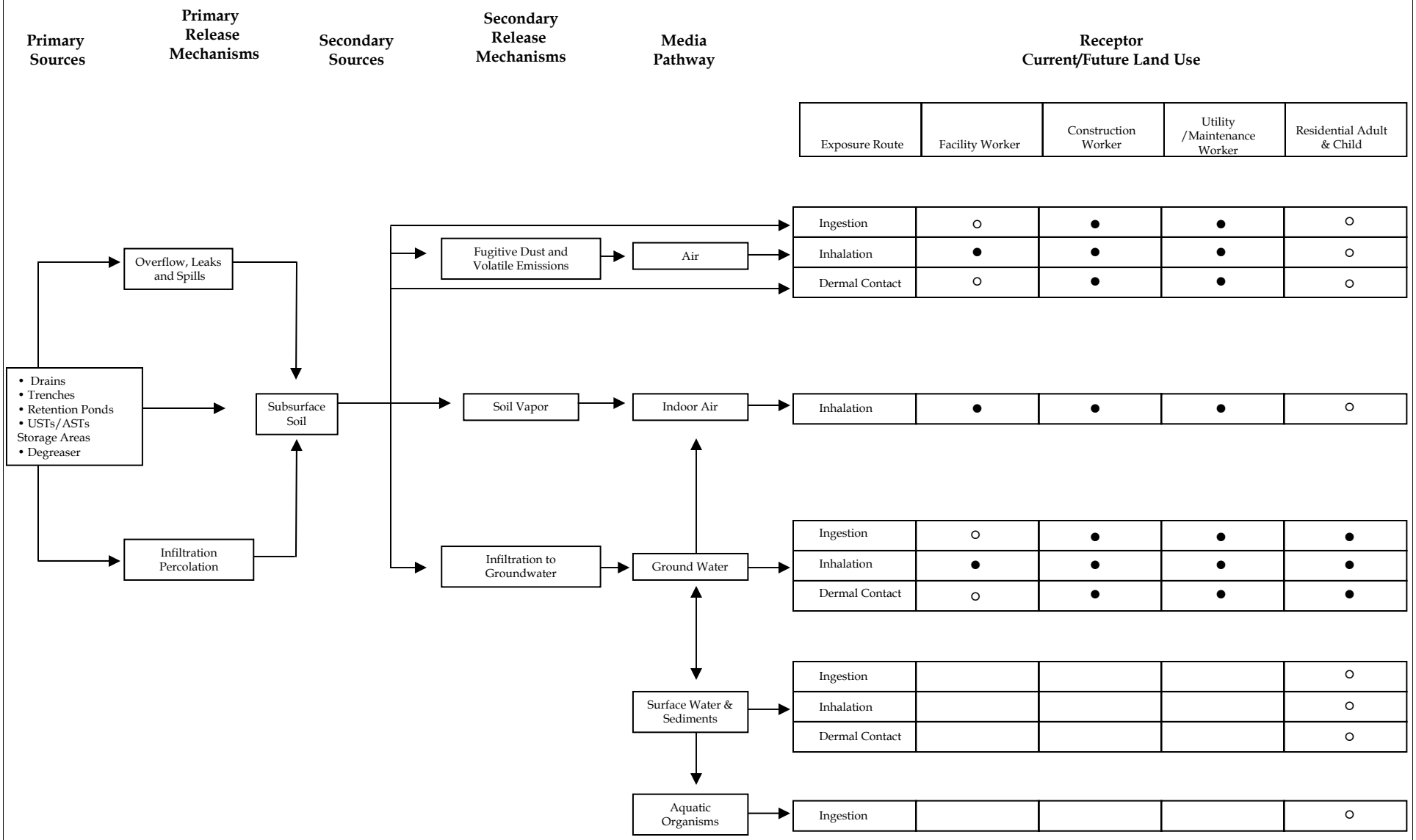
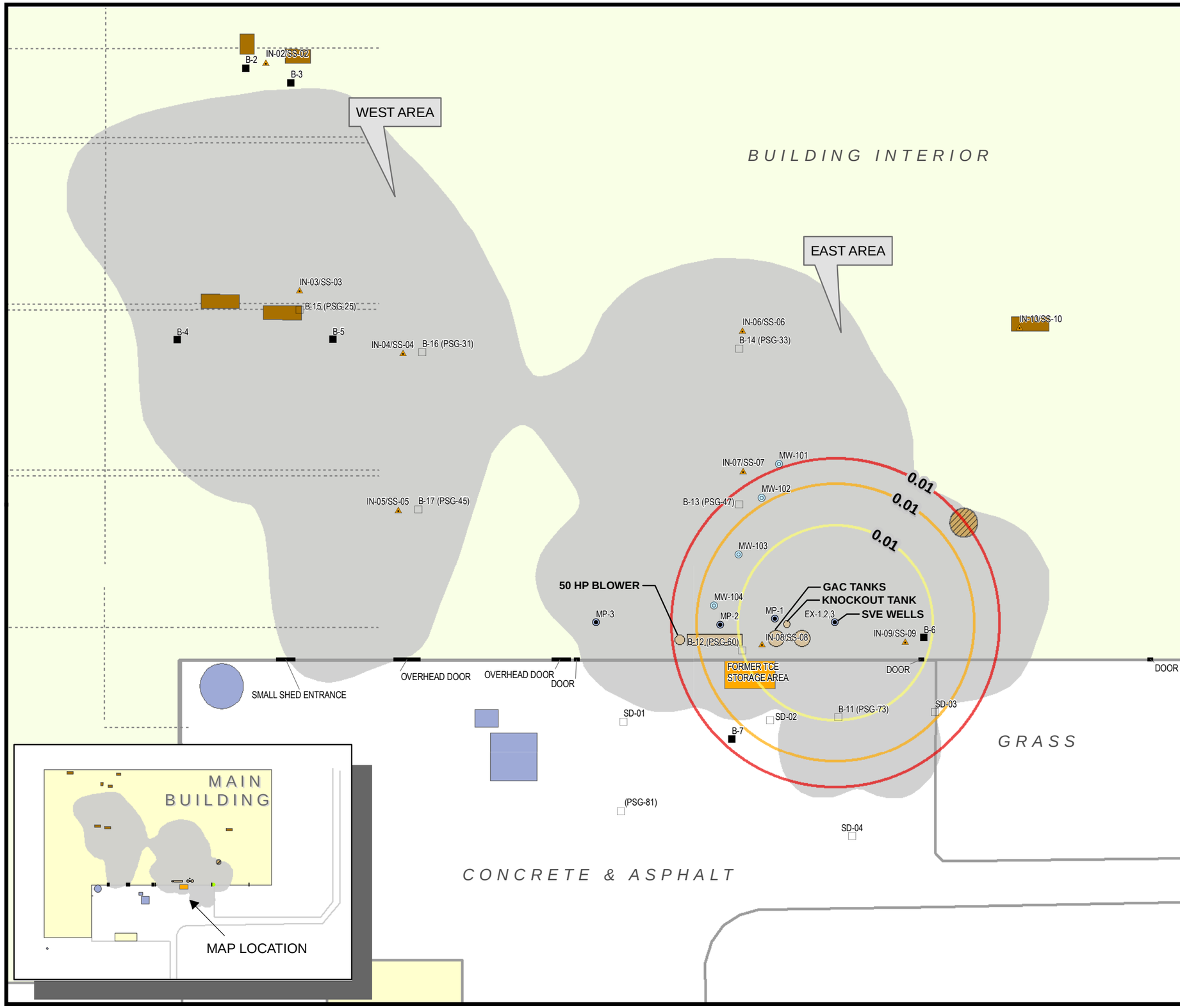


FIGURE 21

Conceptual Site Model
Former Warner Electric Division, Roscoe, Illinois

● Quantified Exposure
○ Potential Exposure Pathway; not quantified



LEGEND

- LIMITS OF SOIL REQUIRING SVE REMEDIATION
- DEEP SOIL VAPOR EXTRACTION WELL NEST & MONITORING POINTS
- GROUNDWATER SCREENING SAMPLE
- MONITORING WELL
- SOIL GAS & SUBSLAB SOIL VAPOR SAMPLE LOCATION
- SOIL BORING LOCATION BY EKI (NO LOG AVAILABLE)
- SOIL BORING LOCATION BY RMT (LOG AVAILABLE)
- DOOR
- BUILDING OUTLINES
- SOIL GAS EXTRACTION SYSTEM
- FORMER TCE STORAGE AREA
- FORMER DEGREASER LOCATION
- FORMER FURNACE LOCATION
- FORMER TANK LOCATION
- ROAD/ASPHALT EDGE
- TRENCH SYSTEM (ABANDONED)

SVE APPROXIMATE RADIUS OF INFLUENCE

- SHALLOW ZONE
- INTERMEDIATE ZONE
- DEEP ZONE

NOTES

1. MONITORING POINTS LOCATED BY GPS, "DISTANCE –FROM-POINT" MEASUREMENTS OR FROM APPROXIMATION.

N

0 50 100 FEET

1 " = 50 '
1:600

PROJECT: **DANA CORPORATION FORMER WARNER ELECTRIC DIVISION ROSCOE, ILLINOIS**

SHEET TITLE: **SVE PILOT TEST SITE LAYOUT AND RADIUS OF INFLUENCE**

DRAWN BY:	MCKEEFRY J	SCALE:	AS NOTED	PROJ. NO.	00-02541.27
CHECKED BY:	BUSS J			FILE NO.	025413008.mxd
APPROVED BY:	RICE J	DATE PRINTED:	4/14/2009	**FIGURE 22**	
DATE:	APRIL 2009				

RMT

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Fax: 608-831-3334

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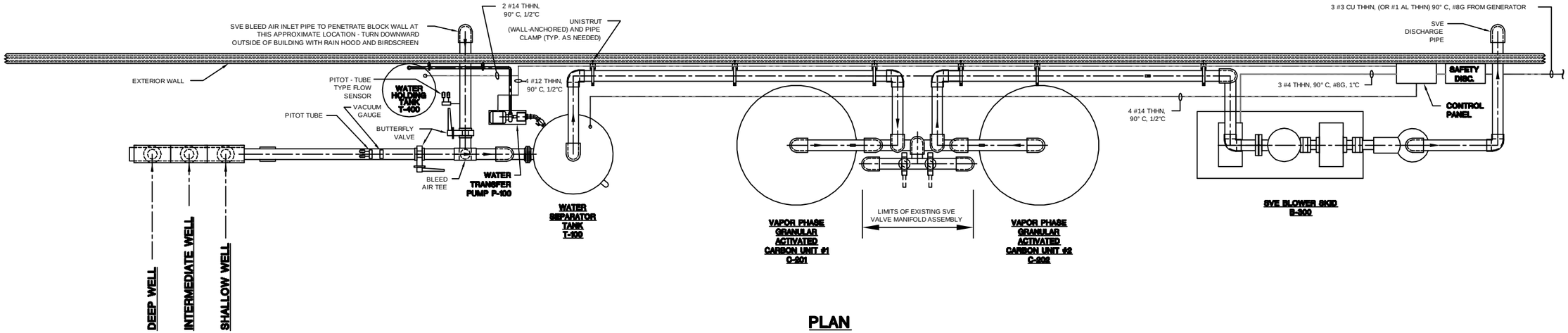
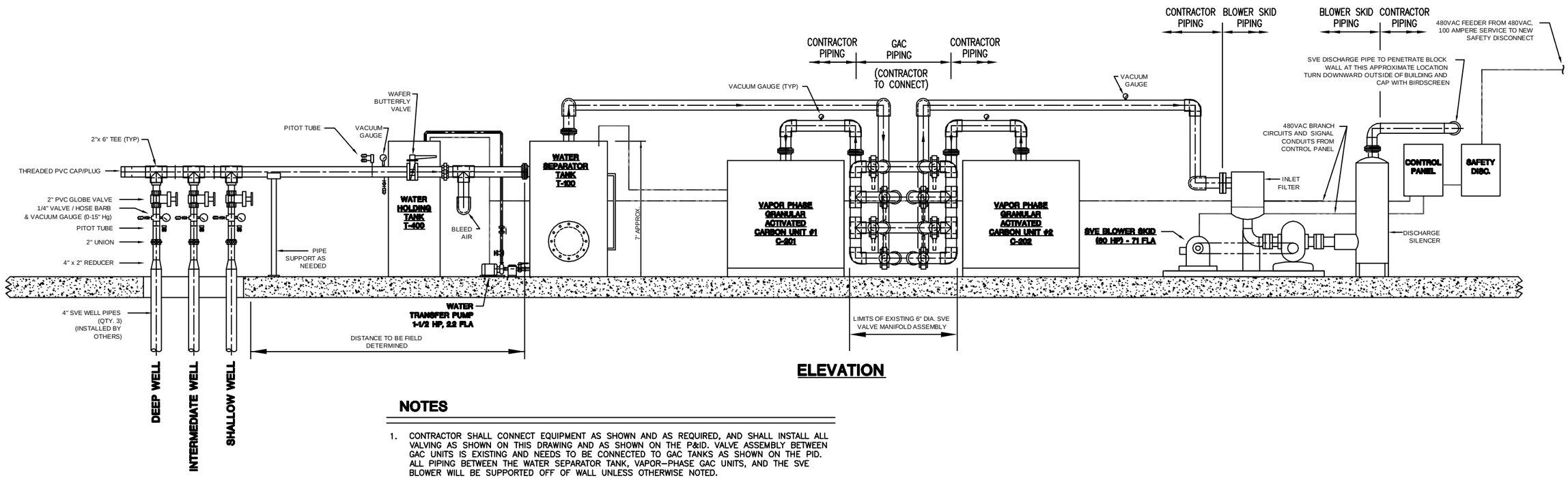


PLAN



ELEVATION

NOTES

1. CONTRACTOR SHALL CONNECT EQUIPMENT AS SHOWN AND AS REQUIRED, AND SHALL INSTALL ALL VALVING AS SHOWN ON THIS DRAWING AND AS SHOWN ON THE P&ID. VALVE ASSEMBLY BETWEEN GAC UNITS IS EXISTING AND NEEDS TO BE CONNECTED TO GAC TANKS AS SHOWN ON THE PID. ALL PIPING BETWEEN THE WATER SEPARATOR TANK, VAPOR-PHASE GAC UNITS, AND THE SVE BLOWER WILL BE SUPPORTED OFF OF WALL UNLESS OTHERWISE NOTED.
2. FINAL PLACEMENT OF EQUIPMENT SHOWN MAY VARY SLIGHTLY. CHANGES TO THIS ARRANGEMENT SHALL BE FIELD DETERMINED BY ENGINEER.
3. WHERE EVER POSSIBLE, PIPE SUPPORTING METHODS SHALL BE AS SHOWN ON THIS DRAWING. PIPES SHALL BE SUPPORTED (AS NEEDED) WITH UNISTRUT OR EQUAL.
4. BLEED AIR INTAKE WITH RAINHOOD AND BIRD-SCREEN
5. SVE DISCHARGE STACK IS TO EXIT THROUGH SIDEWALL AND DISCHARGE 8-FOOT ABOVE EXTERIOR CONCRETE SURFACE WITH 6" SCH. 40 PVC PIPE AND 90° ELBOW (PROVIDED BY CONTRACTOR).
6. CONTRACTOR TO PROVIDE 260 GALLON VERTICAL POLY TANK, FARM & FLEET # 45041 OR APPROVED EQUAL.
7. CONTRACTOR TO PROVIDE AND INSTALL MECHANICAL FLOAT SWITCH FOR VERTICAL POLY TANK, CONNERY INC. OR APPROVED EQUAL.
8. CONTRACTOR SHALL SECURE ALL EQUIPMENT TO CONCRETE FLOOR. PROVIDE 1/2" THICK RUBBER VIBRATION DAMPENING PAD BETWEEN SVE BLOWER SKID AND CONCRETE FLOOR.
9. CONTRACTOR SHALL PROVIDE AND INSTALL INTERCONNECTING PIPING, VALVES, AND INSTRUMENTATION NOT PROVIDED WITH THE EXISTING EQUIPMENT.
10. PROVIDE EXTERIOR FLASHING AND CAULK AS NEEDED TO PROVIDE WATERTIGHT WALL PENETRATIONS, (QTY. 2). SEAL ANNULAR GAP WITH NON-SHRINK EPOXY GROUT.

0 4' 8'
SCALE: 3/8"= 1'

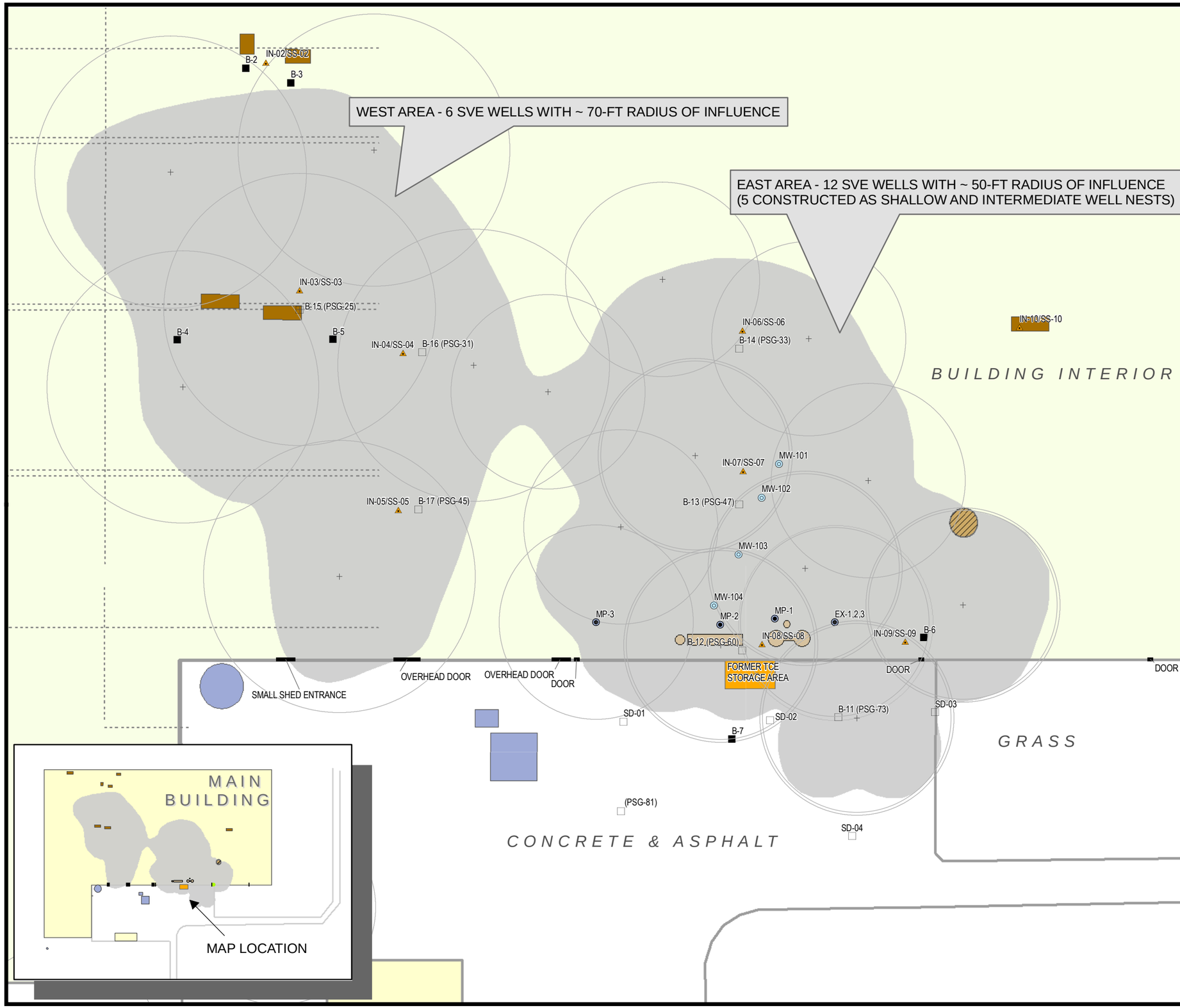
PROJECT: **DANA CORPORATION FORMER WARNER ELECTRIC DIVISION ROSCOE, ILLINOIS**

SHEET TITLE: **SVE PILOT TEST PROCESS INSTRUMENTATION DIAGRAM**

DRAWN BY: SIEWERTD	SCALE:	PROJ. NO.	02541.25
CHECKED BY: DSS/SAK	AS SHOWN	FILE NO.	M-1_FIG22.DWG
APPROVED BY: JAB	DATE PRINTED:	**FIGURE 23**	
DATE: APRIL 2009			

RMT
744 Heartland Trail
Madison, WI 53717-1934
P.O. Box 8923 53708-8923
Phone: 608-831-4444
Fax: 608-831-3334

J:\02541\25\M-1_FIG22.dwg Monday, April 13, 2009 01:08 PM METZA
Drawing Name: J:\02541\25\M-1_FIG22.dwg
Operator Name: siewertd
Scale: 1"=32'



LEGEND

- LIMITS OF SOIL REQUIRING SVE REMEDIATION
- DEEP SOIL VAPOR EXTRACTION WELL NEST & MONITORING POINTS
- GROUNDWATER SCREENING SAMPLE
- MONITORING WELL
- SOIL GAS & SUBSLAB SOIL VAPOR SAMPLE LOCATION
- SOIL BORING LOCATION BY EKI (NO LOG AVAILABLE)
- SOIL BORING LOCATION BY RMT (LOG AVAILABLE)
- BUILDING OUTLINES
- SOIL GAS EXTRACTION SYSTEM
- FORMER TCE STORAGE AREA
- FORMER DEGREASER LOCATION
- FORMER FURNACE LOCATION
- FORMER TANK LOCATION
- ROAD/ASPHALT EDGE
- TRENCH SYSTEM (ABANDONED)

SVE APPROXIMATE RADIUS OF INFLUENCE
NORMALIZED VACUUM LEVEL (IN W.C.)

- SHALLOW ZONE
- INTERMEDIATE ZONE
- DEEP ZONE
- PROPOSED SINGLE SVE WELL WITH RADIUS OF INFLUENCE
- PROPOSED SVE WELLS WITH RADIUS OF INFLUENCE

NOTES

1. MONITORING POINTS LOCATED BY GPS, "DISTANCE –FROM-POINT" MEASUREMENTS OR FROM APPROXIMATION.

N

0 50 100 FEET

1 " = 50 '
1:600

PROJECT: **DANA CORPORATION**
FORMER WARNER ELECTRIC DIVISION
ROSCOE, ILLINOIS

SHEET TITLE: **SVE FULL SCALE DESIGN**

DRAWN BY:	MCKEEFRY J	SCALE:	AS NOTED	PROJ. NO.	00-02541.30
CHECKED BY:	BUSS J			FILE NO.	025413009.mxd
APPROVED BY:	RICE J	DATE PRINTED:	4/14/2009	**FIGURE 24**	
DATE:	APRIL 2009				

RMT

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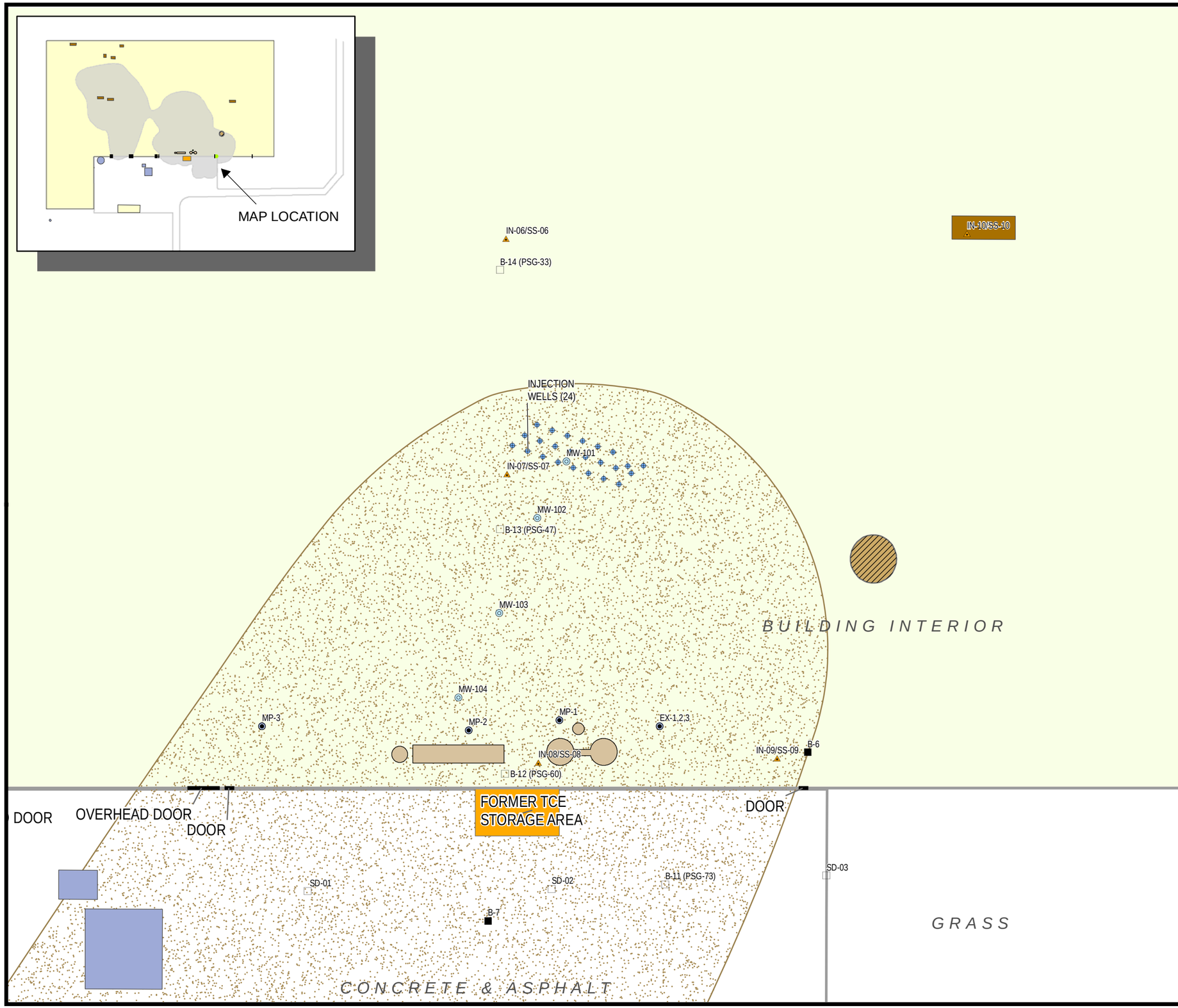

LEGEND

- LIMITS OF SOIL REQUIRING SVE REMEDIATION
- DEEP SOIL VAPOR EXTRACTION WELL NEST & MONITORING POINTS
- GROUNDWATER SCREENING SAMPLE
- MONITORING WELL
- SOIL GAS & SUBSLAB SOIL VAPOR SAMPLE LOCATION
- SOIL BORING LOCATION BY EKI (NO LOG AVAILABLE)
- SOIL BORING LOCATION BY RMT (LOG AVAILABLE)
- DOOR
- BUILDING OUTLINES
- SOIL GAS EXTRACTION SYSTEM
- FORMER TCE STORAGE AREA
- FORMER DEGREASER LOCATION
- FORMER FURNACE LOCATION
- FORMER TANK LOCATION
- ROAD/ASPHALT EDGE
- TRENCH SYSTEM (ABANDONED)
- AREA OF AFFECTED GROUNDWATER

NOTES

1. MONITORING POINTS LOCATED BY GPS, "DISTANCE –FROM-POINT" MEASUREMENTS OR FROM APPROXIMATION.

N

0 30 60 FEET

1 " = 30 '
1:360

PROJECT:
DANA CORPORATION
FORMER WARNER ELECTRIC DIVISION
ROSCOE, ILLINOIS

SHEET TITLE:
REDUCTIVE DECHLORINATION
PILOT TEST LAYOUT WITH MONITORING WELLS

DRAWN BY:	MCKEEFRY J	SCALE:		PROJ. NO.	00-02541.30
CHECKED BY:	BUSS J	AS NOTED		FILE NO.	025413011.mxd
APPROVED BY:	RICE J	DATE PRINTED:		**FIGURE 25**	
DATE:	APRIL 2009	4/14/2009			

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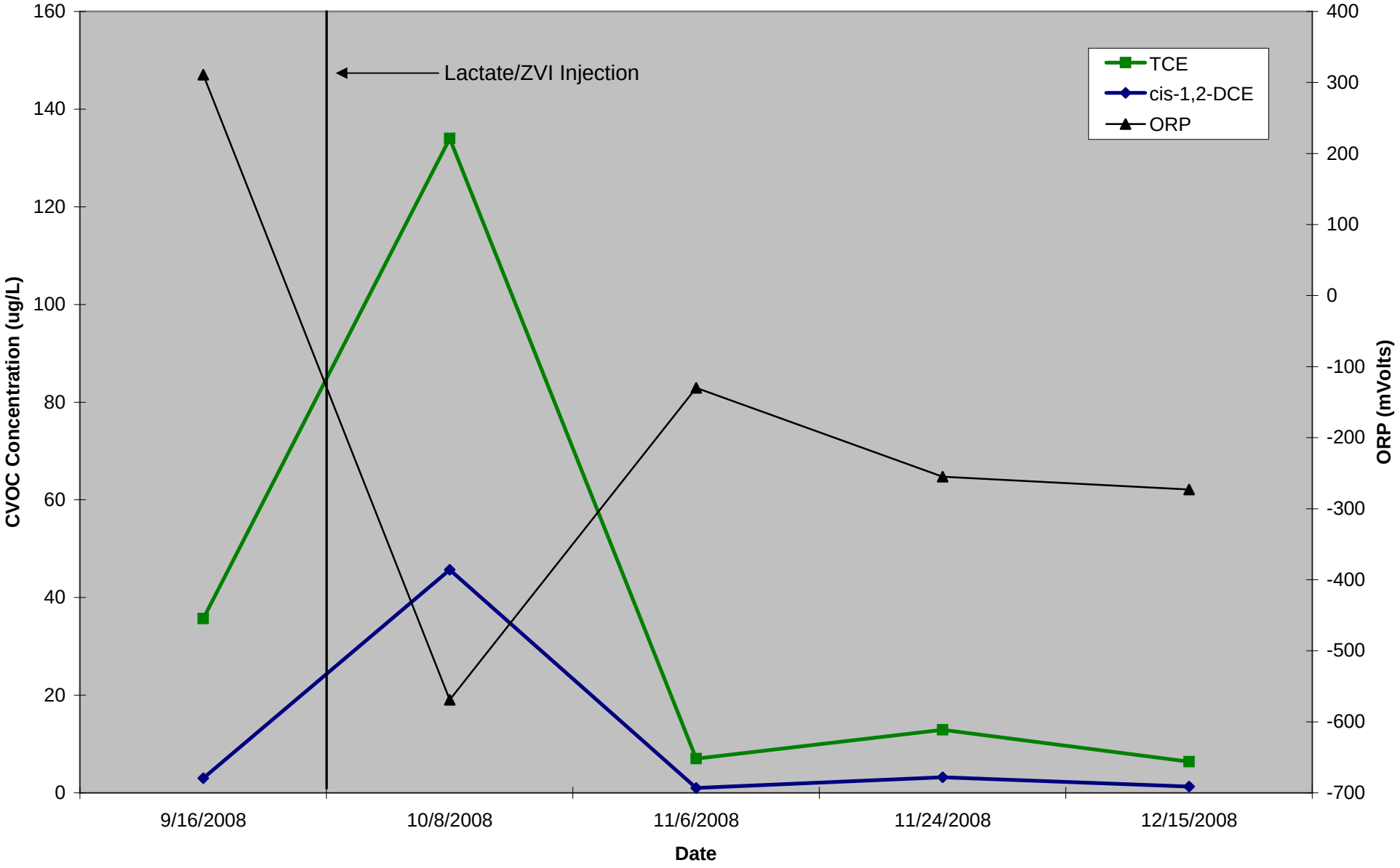
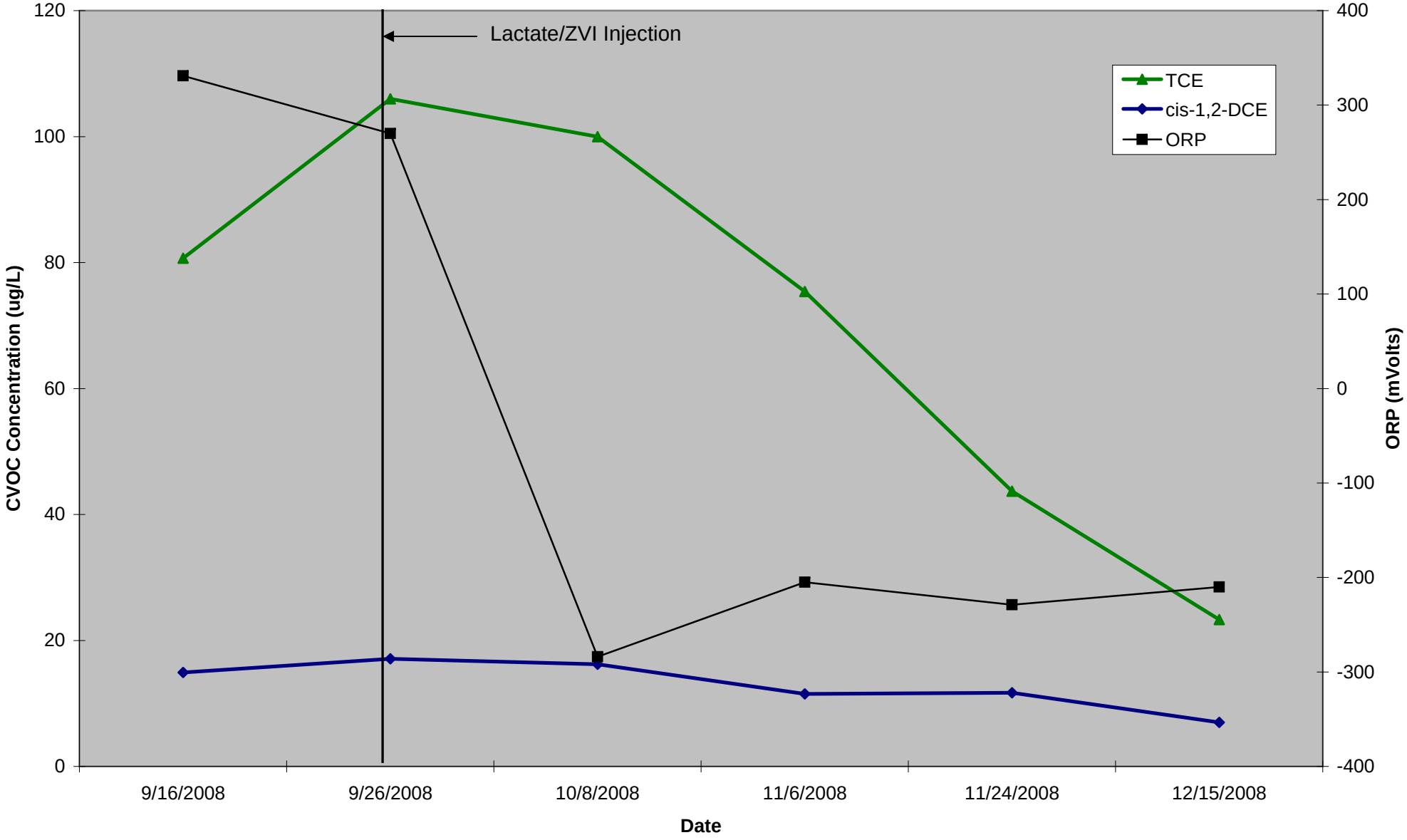
Figure 26
MW-101 CVOC Concentration Trend (in injection zone)
Former Warner Electric, Roscoe, Illinois



I:\WPMSN\PJT\00-02541\30\000254130-004.XLS

Figure 27
MW-102 CVOC Concentration Trend (20 feet from injection zone)
Former Warner Electric, Roscoe, Illinois



I:\WPMSN\PJT\00-02541\30\000254130-004.XLS

Figure 28
MW-103 CVOC Concentration Trend (50 feet from injection zone)
Former Warner Electric, Roscoe, Illinois

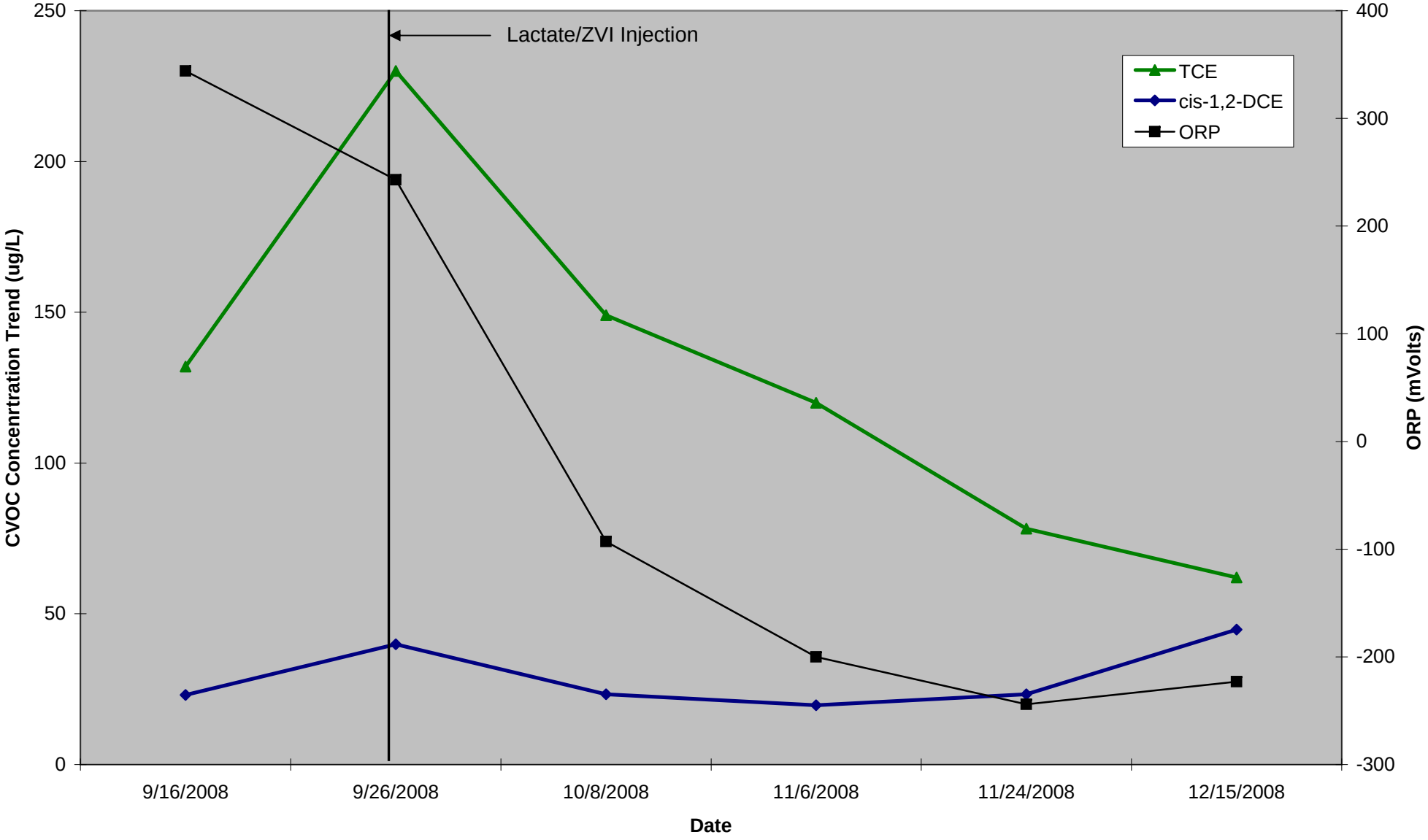


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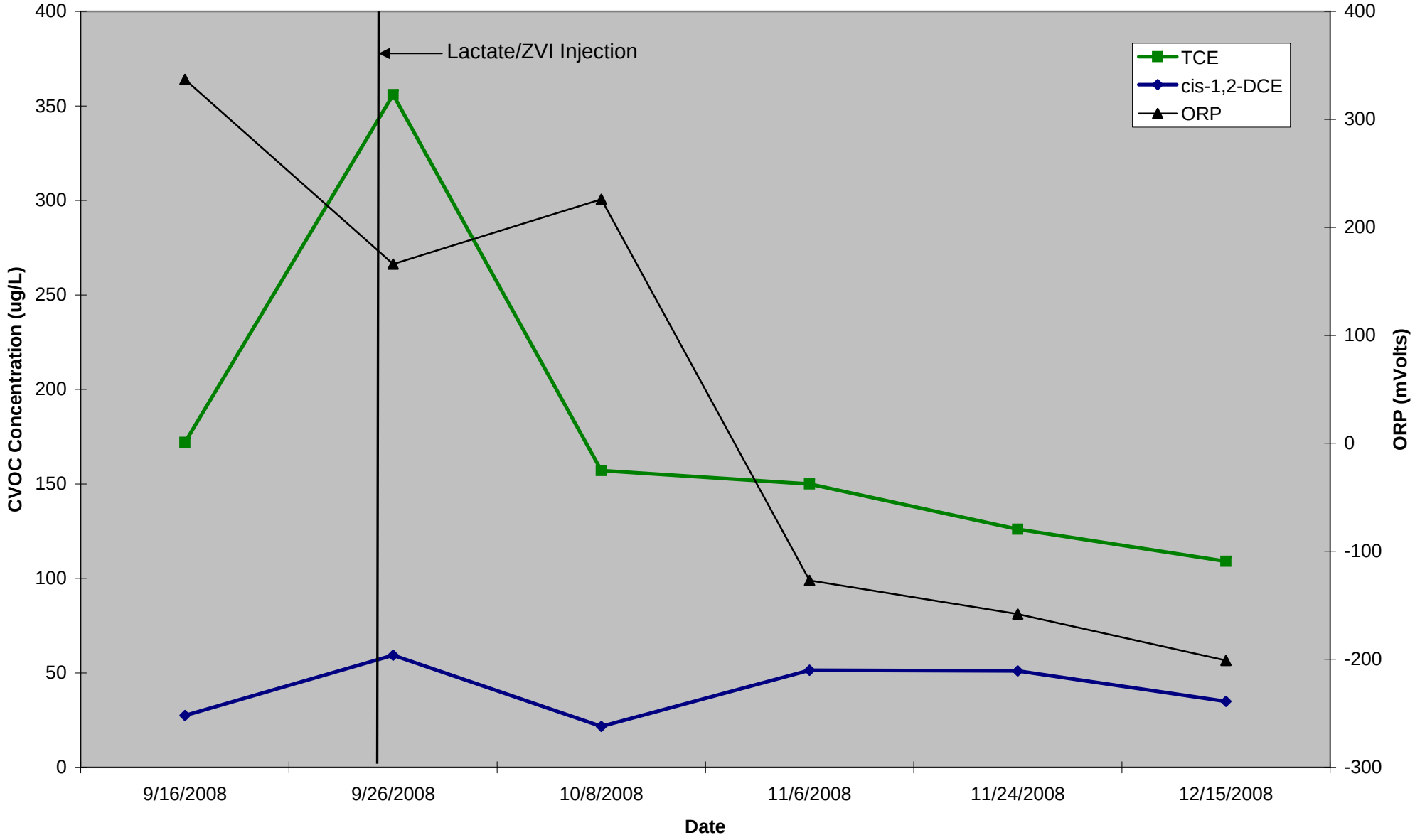
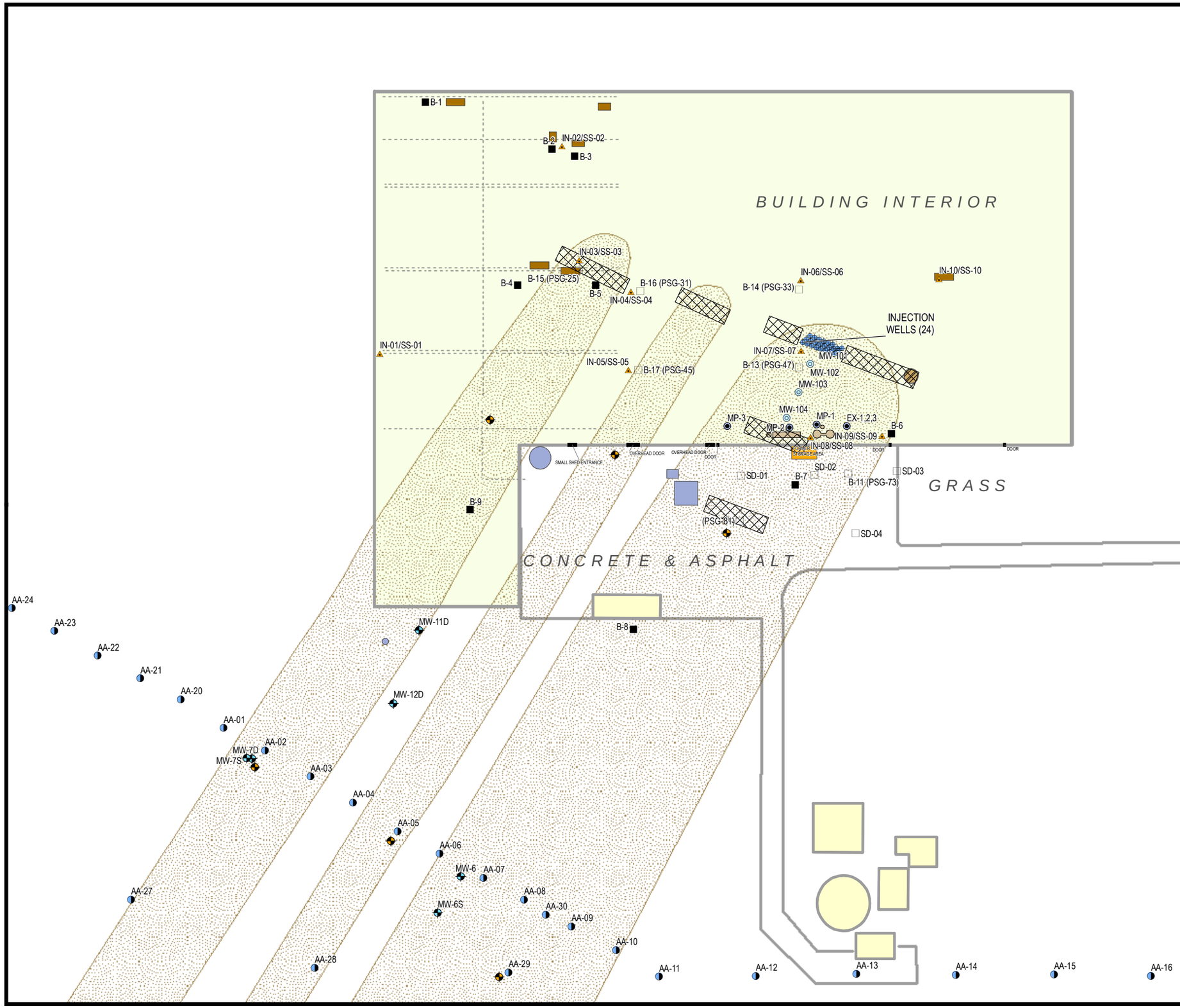
Figure 29
MW-104 CVOC Concentration Trend (80 feet from injection zone)
Former Warner Electric, Roscoe, Illinois



I:\WPMSN\PJT\00-02541\30\000254130-004.XLS



LEGEND

- LIMITS OF SOIL REQUIRING SVE REMEDIATION
- PROPOSED LONG-TERM MONITORING WELL
- DEEP SOIL VAPOR EXTRACTION WELL NEST & MONITORING POINTS
- GROUNDWATER SCREENING SAMPLE
- EXISTING MONITORING WELL
- MONITORING WELL
- SOIL GAS & SUBSLAB SOIL VAPOR SAMPLE LOCATION
- SOIL BORING LOCATION BY EKI (NO LOG AVAILABLE)
- SOIL BORING LOCATION BY RMT (LOG AVAILABLE)
- DOOR
- BUILDING OUTLINES
- SOIL GAS EXTRACTION SYSTEM
- FORMER TCE STORAGE AREA
- FORMER DEGREASER LOCATION
- FORMER FURNACE LOCATION
- FORMER TANK LOCATION
- ROAD/ASPHALT EDGE
- TRENCH SYSTEM (ABANDONED)
- NEW INJECTION WELL AREAS
- AREA OF AFFECTED GROUNDWATER

NOTES

1. MONITORING POINTS LOCATED BY GPS, "DISTANCE –FROM-POINT" MEASUREMENTS OR FROM APPROXIMATION.

N

0 100 200 FEET

1 " = 100 '
1:1,200

PROJECT:
DANA CORPORATION
FORMER WARNER ELECTRIC DIVISION
ROSCOE, ILLINOIS

SHEET TITLE:
IN-SITU REDUCTIVE DECHLORINATION
FULL SCALE DESIGN

DRAWN BY:	MCKEEFRY J	SCALE:		PROJ. NO.	00-02541.30
CHECKED BY:	BUSS J	AS NOTED		FILE NO.	025413013.mxd
APPROVED BY:	RICE J	DATE PRINTED:	4/14/2009	**FIGURE 30**	
DATE:	APRIL 2009				

RMT

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Appendix A
1989 Administrative Order on Consent

UNITED STATES
ENVIRONMENTAL PROTECTION AGENCY
REGION V

RECEIVED
DEC 26 1989
REGIONAL HEARING CLERK
U.S. ENVIRONMENTAL PROTECTION AGENCY

IN THE MATTER OF:

DANA CORPORATION WARNER ELECTRIC DIVISION HIGHWAY 251 AND McCURRY ROAD ROSCOE, ILLINOIS ILD 006 114 169	)	ADMINISTRATIVE ORDER U.S. EPA DOCKET NO. Proceeding under Section 3008(h) of the Resource Conservation and Recovery Act, as amended, 42 U.S.C. §6928(h)

I. JURISDICTION

V-W-90 R-06

This Administrative Order on Consent (Consent Order) is issued pursuant to the authority vested in the Administrator of the United States Environmental Protection Agency (U.S. EPA) by Section 3008(h) of the Solid Waste Disposal Act, commonly referred to as the Resource Conservation and Recovery Act (RCRA), as amended, 42 U.S.C. §6928(h). The authority vested in the Administrator has been delegated to the Regional Administrators by EPA Delegation Nos. 8-31 and 8-32 dated April 16, 1985.

This Administrative Order on Consent is issued to Dana Corporation, Warner Electric Division, (Respondent), owner of a facility located at Highway 251 and McCurry Road, Roscoe, Illinois (facility). Respondent consents to and agrees not to contest U.S. EPA's jurisdiction to issue this Order pursuant to Section 3008(h) of RCRA, 42 U.S.C. Section 6928(h) and

COPY

enforce its terms, and waives any defense to the validity of this Order, or any right to a hearing pursuant to Section 3008(b) of RCRA, 42 U.S.C. §6928(b). Other than as set forth in this Order, Respondent reserves all rights, privileges and defenses to which it is entitled.

II. APPLICABILITY

1. This Consent Order shall apply to and be binding upon the Respondent and its officers, directors, employees, agents, successors and assigns, and upon all persons, independent contractors, contractors, and consultants acting under Respondent's direction, authorization or control.

2. No change in ownership or corporate or partnership status relating to the facility will in any way alter Respondent's responsibility under this Consent Order.

3. Respondent shall provide a copy of this Consent Order to all contractors, subcontractors, laboratories, and consultants retained to conduct or monitor any portion of the work performed pursuant to this Consent Order within one (1) week of the effective date of this Consent Order, or date of such retention.

4. Respondent shall give notice of this Consent Order to any successor in interest and to U.S. EPA prior to transfer of ownership or operation of the facility.

5. The effective date of this Consent Order shall be the date on which it is

signed by the Regional Administrator.

III. STATEMENT OF PURPOSE

In entering into this Consent Order, the mutual objective of U.S. EPA and Respondent are: (1) to reduce contaminant levels in ground water in the vicinity of the facility to levels set forth in this Consent Order; and (2) to offer and, if accepted, to provide an alternate source of drinking water to those individuals identified in Attachment A to this Consent Order if they are presently using the contaminated ground water in the vicinity of the facility.

IV. FINDINGS OF FACTS

The Regional Administrator has made the following Findings of Fact. Respondent does not admit, deny or consent to the Findings contained in paragraphs 7 through 12 below.

1. Respondent is a company doing business in the State of Illinois and is a person defined in Section 1004(15) of RCRA, 42 U.S.C. §6903(15), and regulations adopted by the Illinois Pollution Control Board, found at 35 Ill. Adm. Code, Part 720.

2. Respondent is the owner of the facility located at Highway 251 and McCurry Road, Roscoe, Illinois. Prior to January 25, 1985, the facility was owned by the Warner Electric Brake and Clutch Company. The Warner Electric Division of Dana Corporation is the current owner and operator of the facility.

3. Pursuant to Section 3010 of RCRA, 42 U.S.C. §6930, Respondent notified U.S. EPA of its hazardous waste activity. In its notification dated August 18, 1980, Respondent identified itself as a generator of hazardous waste.

4. Respondent operated its facility as a hazardous waste management facility on and after November 19, 1980, the applicable date which renders the facility subject to interim status requirements under Sections 3004 and 3005 of RCRA, 42 U.S.C. §§6924 and 6925.

5. On May 5, 1989, Respondent submitted a re-creation of the Part A permit application it claimed to submit on November 19, 1980. In the May 5, 1989, Part A permit application Respondent identified itself as handling the following hazardous wastes at the facility:

U.S. EPA Hazardous Waste Number	Hazardous Waste
F002	Spent halogenated solvents including, but not limited to: trichloroethylene (TCE), methylene chloride, and 1,1,1-trichloroethane.
D002	Waste which exhibited the characteristic of corrosivity as defined by 40 CFR 261.22(a)(1) and (2).
D007	Wastes which exhibited the characteristic of EP Toxicity for chromium.

6. Along with the May 5, 1989, Part A application, Respondent submitted an affidavit admitting that it operated a surface impoundment as a hazardous waste storage area.

7. Prior to 1977, open trenches which were located under the facility's process area were connected to the surface impoundment. Analytical results of water samples collected from two surface impoundments of the facility in 1983 indicated the presence of TCE (concentrations as high as 0.23 milligrams per liter (mg/l)) and trans-1,2- dichloroethylene (as high as 0.3 mg/l). Analytical results of water samples collected from monitoring wells at the facility in 1983 indicate the presence of TCE (as high as 10.9 mg/l) and 1,1,1-trichloroethane (as high as 0.030 mg/l) in ground water.

8. In 1983, the Winnebago County Public Health Department and the Illinois Environmental Protection Agency (IEPA) found TCE in private wells (concentrations as high as 5.7 mg/l) at the Hononegah Country Estates and the Moore Haven Subdivisions. These communities are located near Respondent's facility and are so situated that normal ground-water flow could transport hazardous waste constituents released from the facility to these communities.

9. In a September 16, 1983 Compliance Inquiry Letter (CIL) from Robert Wengrow of IEPA to Gene Fox of Warner Electric Brake and Clutch, IEPA notified Warner Electric Brake and Clutch that a "record search revealed that, in the past hazardous wastes accumulated on site for greater than 90 days."

10. In 1984, the Illinois State Water Survey and IEPA delineated a groundwater contaminant plume at the site vicinity containing TCE, tetrachloroethane, trans-1,2-dichloroethylene, and 1,1,1-trichloroethane which encompassed an area of approximately 1200 feet by 6000 feet. Concentrations of TCE, the principal contaminant in the plume, ranged from trace amounts at the periphery to 2.76 mg/l.

11. Warner Electric, in accordance with an agreement with the State of Illinois, performed the following remedial actions at the site vicinity:

a. Constructed a public water supply system for the Hononegah Country Estates and Moore Haven Subdivision.

b. Removed 16,000 tons of contaminated sludges and soils from the two on-site lagoons; backfilled the lagoons with clean fill material; and placed a one foot thick compacted clay layer over the lagoons.

c. Installed ground-water monitoring wells at the site vicinity and performed periodic sampling and analyses of the wells through 1987. Warner Electric continues to sample and analyze the wells, although it is not required to do so under the Illinois agreement.

d. Emptied the TCE storage tanks, closed the barrel storage area, and cleaned the utility trenches.

12. Contaminated ground water at the facility was not addressed by any extraction or in-place treatment system.

V. CONCLUSIONS OF LAW AND DETERMINATIONS

Based on the Findings of Fact set out above, and the administrative record, the Regional Administrator of U.S. EPA has made the conclusions of law and determinations presented in paragraphs 1 through 5 below. The Respondent does not admit, deny or consent to paragraphs 4 and 5 below.

1. Respondent is a "person" within the meaning of Section 1004(15) of RCRA, 42 U.S.C. §6903(15).

2. Respondent is the owner or operator of a facility that has operated or is operating subject to Section 3005(e) of RCRA, 42 U.S.C. §6925(e).

3. Certain wastes and constituents thereof found at the facility are hazardous waste or hazardous constituents thereof as defined by Section 1004(5) of RCRA, 42 U.S.C. §6903(5). These are also hazardous waste or hazardous constituents within the meaning of Section 3001 of RCRA, 42 U.S.C. §6921 and 40 CFR Part 261.

4. There is or has been a release of hazardous waste and/or hazardous constituents into the environment from Respondent's facility.

5. The actions required by this Consent Order are necessary to protect human health or the environment.

VI. WORK TO BE PERFORMED

Pursuant to Section 3008(h) of RCRA, 42 U.S.C. §6928(h), Respondent agrees

and is hereby ordered to perform the following acts by the dates specified herein.

1. Unless the individuals listed on Attachment A have already refused an offer for an alternate water supply, or have been properly denied a connection by the Hononegah Country Estates and Moorehaven Subdivisions Homeowners Water Association, within 120 days of the effective date of this Consent Order, the Respondent shall offer to install an alternate water supply. If these parties accept such offer, Respondent shall provide for the installation and operation of such system within 360 days of the effective date of this Consent Order. If such parties permit, Respondent shall disconnect existing wells associated with these parties; arrange for their abandonment pursuant to local and State specifications and regulations; and disconnect the electrical feed to existing wells so abandoned.

2. Within 120 days of the effective date of this Consent Order, Respondent shall provide to U.S. EPA for approval and to local residents pursuant to Section VIII below, a complete description of the design and operation of the corrective measures required hereunder and the ground water monitoring system to be used to measure achievement of the concentration levels specified in paragraph 6 below. The corrective measure shall consist of either removal of hazardous waste constitutes in the ground water or in-place treatment of ground water to reduce contaminant levels in the vicinity of the facility. The hazardous waste constituent concentration levels which must be achieved are in paragraph 6 below.

3. Within 120 days of U.S. EPA's approval or modification of Respondent's proposed corrective measure to reduce groundwater contaminant levels in the

vicinity of the facility, Respondent shall begin continuous operation of the approved corrective measures. Respondent shall immediately notify U.S. EPA within two (2) days of beginning construction of the corrective measures, and within two (2) days of beginning continuous operation of the corrective measure.

4. Respondent shall, within 180 days of notification of continuous operation of the corrective measures, and semi-annually thereafter, submit to U.S. EPA progress reports which: (1) provide the results of the corrective measures implementation; (2) describe any future actions to be taken; and (3) provide the sampling and testing results conducted by Respondent. If U.S. EPA requires additional data for any progress report, Respondent shall, within ninety (90) days of such notification, submit a revised progress report to U.S. EPA which addresses the deficiencies noted by U.S. EPA, unless the Respondent disputes the deficiencies noted by U.S. EPA, in which case the dispute will be resolved pursuant to Section XV.

5. Ground water analysis at a minimum shall include the determination of ph, specific conductance, and the concentrations of the chemical constituents listed in paragraph 6 of this Section.

6. Respondent shall maintain continuous operation of the corrective measures until such time that contaminant levels in ground water do not exceed the concentration limits at the plane of performance. The plane of performance shall be upgradient of all wells installed by Respondent for the purpose of extraction and treatment of water; shall extend across the entire width and depth of the contaminant plume; and to the extent practicable shall be near the northern shoreline of the Rock River at the Moore Haven Subdivision.

The ground water monitoring wells installed to determine attainment of the hazardous constituent concentration levels specified below shall be located in the plane of performance; shall be positioned such that they will not be affected by the zone of influence created by ground-water withdrawal; and shall be located in a manner which provides sufficient data to determine compliance with the hazardous constituent levels specified below. The limits for hazardous waste constituents at the plane of performance shall be as follows:

trichoroethylene		0.005 mg/l	(1)
1,1,1-trichloroethane		0.2	(1)
vinyl chloride		0.002	(1)
methylene choride		0.01	(4)
tetrachloroethylene		0.005	(2)
cis-1,2-dichloroethylene		0.07	(2)
dichlorodifluoromethane	NE	7.0	(3)
trans-1,2-dichloroethylene		0.1	(2)
1,1-dichloroethane	NE	0.2	(4)
1,4-diochlorobenzene		0.075	(1)
toluene	1	2.0	(2)
chromium	0.1	0.05	(5)

Respondent recognizes that the above concentration limits are based upon the standards and guidelines currently in place under the Safe Drinking Water Act. In the event the maximum concentration level ("MCL") or the maximum

---

1. Maximum concentration level (MCL) promulgated under the Safe Drinking Water Act.
2. Proposed MCL by U.S. EPA.
3. Health based limit for systemic toxicant established by U.S. EPA.
4. No limit or criterion established by U.S. EPA, limit indicated shall be used for this Consent Order.
5. Maximum concentration of constituents for ground-water protection (40 C.F.R. 264.94).

concentration level goal ("MCLG") under the Safe Drinking Water Act for any of the above constituents is changed by U.S. EPA through a final rule, Respondent shall submit to U.S. EPA within sixty (60) days of the effective date of such change, a report reviewing the impact of the changes on the corrective measures and the concentration limits set forth above. Similarly, U.S. EPA recognizes that the Respondent has a reasonable concern that background levels or contamination from off-site sources could affect Respondent's efforts to achieve the concentration levels set forth above. In the event that Respondent learns of such background levels or off-site source contamination, Respondent may petition U.S. EPA to review the concentration levels set forth above and adjust those levels to account for such background levels or off-site contamination. U.S. EPA shall review Respondent's report or petition within 180 days, or such time as it deems reasonable under the circumstances. If Respondent disagrees with U.S. EPA's decision on its petition or report, Respondent may submit such disagreement to dispute resolution under Section XV. Respondent is responsible for meeting the above levels during the period of time that U.S. EPA is either reviewing its petition or resolving a dispute on such petition.

7. Respondent shall notify U.S. EPA within 5 days of satisfaction of the requirements of paragraph 6 of this Section. Within 180 days of this notification and each subsequent 180 days, Respondent shall perform ground-water sampling at the plane of performance and shall analyze for those constituents prescribed in paragraph 6 of this Section. Respondent shall submit these results to U.S. EPA. If contaminant levels do not exceed these limits for a continuous period of three (3) years, Respondent shall have satisfied the requirements of this Consent Order.

11

8. If for any sampling event (hereinafter referred to as the first contaminated sampling event), contaminant concentration(s) are determined to exceed the limit(s) specified in paragraph 6 by at least 50 percent, Respondent shall immediately reinstitute the corrective measures and continue implementation of the corrective measures until such time that contaminant concentrations do not exceed these limits.

For any first contaminated sampling event where contaminant concentration(s) are determined to be less than 50 percent greater than the limit(s) two specified in paragraph 6 the Respondent shall collect two samples (second sampling event) from the ground water monitoring well(s) used to determine compliance with the above contaminant concentration levels in the plane of performance. The second sampling event must occur within 30 days after the Respondent receives the laboratory analysis from the first contaminated sampling event. Pursuant to Section IX, Paragraph 1 and Section X, Paragraph 2, U.S. EPA may, at its discretion, collect and analyze split samples from any second sampling event. The Respondent shall reinstitute the corrective measures if either:

(1) laboratory analysis of one or more of the samples taken in the second sampling event indicates contaminant concentration levels in excess of the levels specified in paragraph 6 above, or (2) the Respondent's laboratory analysis from the second sampling event is not received by U.S. EPA within 30 days of the occurrence of the second sampling event.

VII. QUALITY ASSURANCE

Throughout all sample collection and analysis activities, Respondent shall use U.S. EPA approved quality assurance, quality control, and chain-of-custody procedures. In addition Respondent shall:

1. Follow U.S. EPA guidance for sampling and analysis contained in the Technical Enforcement Guidance Document (TEGD) September 1986.

2. Inform the U.S. EPA Project Coordinator in advance which laboratories will be used by Respondent and ensure that U.S. EPA personnel and U.S. EPA-authorized representatives have reasonable access to the laboratories used for analyses.

3. Ensure that laboratories used by Respondent for analyses perform such analyses only according to U.S. EPA methods (i.e., SW-846).

4. Ensure that laboratories used by Respondent for analyses participate in a quality assurance/quality control program equivalent to that which is followed by U.S. EPA. As part of such a program, and upon request by U.S. EPA, such laboratories shall perform analyses of a reasonable number of known samples provided by U.S. EPA to demonstrate the quality of the analytical data.

5. Use appropriate U.S. EPA guidance to evaluate all data developed in conjunction with this Consent Order.

6. Unless U.S. EPA objects to the laboratory or sample collection activity utilized by the Respondent within 180 days of the date the data was

submitted, the Respondent shall be relieved of any stipulated penalties for submission of deficient data. At U.S. EPA's request, however, the Respondent may be required to resample or correct the deficiencies regardless of the 180 day time period specified above.

VIII. PUBLIC RELATIONS

1. Respondent shall develop a public relations program to ensure that local residents are aware of activities conducted pursuant to this Consent Order as described in this Section, including the results of ground-water monitoring. Respondent's public relations program shall provide the public with a summary of the ground water contamination, local hydrogeological conditions, and the proposed corrective measures. The Respondent shall also make available, at a minimum, a copy of the Part A application it submitted to U.S. EPA on May 5, 1989 and this Consent Order. The Respondent shall make this information available at a local repository such as a public library.

2. As part of the Public Relations Program, Respondent shall notify and provide local residents with an opportunity to review and comment on the information required by paragraph 1 above. Respondent shall provide the public with at least thirty days and no more than forty five days to review and comment on this information, unless such longer time as is otherwise agreed to by U.S. EPA. Within 30 days after the close of the Respondent's public review period the Respondent shall provide U.S. EPA with: (1) evidence of its attempts to notify local residents of the intended corrective measures, including direct mailing and newspaper notification; and

(2) a copy of any comments it receives; and (3) its response to those comments. Any notice that the Respondent provides to the public shall indicate that the Respondent's proposed corrective measures are subject to U.S. EPA review and approval and that comments or requests for a meeting may also be directed to the U.S. EPA.

3. The semi-annual progress reports shall contain the specific activities conducted pursuant to this requirement.

IX. ON-SITE AND OFF-SITE ACCESS

1. With regard to the matters in this Consent Order, U.S. EPA and/or any U.S. EPA representative, including U.S. EPA contractors, are authorized to enter and freely move about all property at the facility at reasonable times for the purpose of, inter alia: interviewing facility personnel and contractors; inspecting records, operating logs, and contracts related to the facility; reviewing the progress of the Respondent in carrying out the terms of this Consent Order; conducting such sampling and tests as U.S. EPA or its representative deem necessary; using a camera, sound recording or other documentary type equipment; and verifying the reports and data submitted to U.S. EPA by the Respondent. The Respondent shall permit such persons to inspect and copy all records, files, photographs, documents, and other writings, including all sampling and monitoring data that pertain to work undertaken pursuant to this Consent Order, and shall comply with all approved health and safety plans. The on-site and off-site access permitted by this

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION 5
230 SOUTH DEARBORN ST.
CHICAGO, ILLINOIS 60604

REPLY TO THE ATTENTION OF:

JAN 30 1990

Mr. James P. O'Brien
Chapman and Cutler
111 W. Monroe Street
Chicago, IL 60603

Dear Mr. O'Brien:

In response to your letter of January 26, 1990, U.S. EPA agrees to the requested modification of the Warner Electric Administrative Order on Consent. The first sentence of paragraph 2 of Section IX may be modified to read, "To the extent that work required must be done on property not owned or controlled by Respondent, Respondent will use its best efforts to obtain site access agreements from the present owner(s) of such property within ninety days of the effective date of this Consent Order."

Sincerely,

Steven Siegel
Assistant Regional Counsel

paragraph shall be strictly limited to matters concerning this Consent Order.

2. ~~To the extent~~ Amended that work required must be done on property not owned or controlled by Respondent, Respondent will use its best efforts to obtain site access agreements from the present owner(s) of such property within 30 days of the effective date of this Consent Order. "Best efforts" as used in this Section shall include, at a minimum, a certified letter from Respondent to the present owners of such property requesting access agreements to permit Respondent and U.S. EPA and its authorized representatives to access such property. Any such access agreement shall be incorporated by reference into this Consent Order. In the event that agreements for site access are not obtained within 180 days of the effective date of this Consent Order, Respondent shall notify U.S. EPA regarding both the lack of and its failure to obtain such agreements within 10 days thereafter. In the event that U.S. EPA obtains access, Respondent shall undertake U.S. EPA approved work on such property. Nothing in this section limits or otherwise affects U.S. EPA's right of access and entry pursuant to applicable law, including RCRA and the Comprehensive Environmental Response, Compensation and Liability Act (CERCLA).

X. SAMPLING AND DATA/DOCUMENT AVAILABILITY

1. Respondent shall make available to U.S. EPA all results of sampling, tests, or other data generated by Respondent or on its behalf with respect to the implementation of this Consent Order upon receipt of analytical results from its laboratory. Respondent shall submit these results in the progress reports described in Section VI of this Consent Order. Similarly, upon

request, U.S. EPA will make available to Respondent the results of samplings or tests generated pursuant to this Order by U.S. EPA within 30 days after any such results or data pass U.S. EPA quality assurance review.

2. At the request of U.S. EPA, Respondent shall provide or allow U.S. EPA or its authorized representative to take split samples of all samples collected by Respondent pursuant to this Consent Order. Similarly, at the request of Respondent, U.S. EPA shall allow Respondent or its authorized representatives to take split or duplicate samples of all samples collected by U.S. EPA under this Consent Order. U.S. EPA shall notify Respondent at least twenty (20) days before conducting any sampling under this Consent Order.

3. All information and data shall be available to the public except to the extent that it is confidential business information. Disputes over confidentiality shall be governed by 40 CFR Part 2. Environmental contamination data shall not be deemed confidential business information by Respondent.

4. The Respondent shall not withhold as privileged any factual information or documents that are created, generated or collected pursuant to the requirements of this Consent Order, regardless of whether the documents or information have been generated in the form of an attorney-client communication or other generally privileged manner. By entering into this Consent Order, however, the Respondent does not waive or abridge its rights to claim that non-factual information generated pursuant to this Consent Order may be privileged from disclosure to U.S. EPA as either attorney work product or attorney-client privileged information.

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XI. RECORD PRESERVATION

1. Respondent agrees that it shall preserve, during the pendency of this Consent Order and for a minimum of 3 years after its termination, all records and documents in its possession or in the possession of its divisions, employees, agents, consultants or contractors under its direction, supervision or control which arise out of activities related in any way to this Consent Order or which concern hazardous waste management and disposal activities at the facility which are the subject of this Consent Order. At the conclusion of three (3) years, Respondent shall offer by written notice to the Region V Office of Regional Counsel to make such records available to U.S. EPA for inspection or U.S. EPA's retention, or shall provide copies of any such records to U.S. EPA. If U.S. EPA does not request the records or copies within 180 days of the Respondent's offer, then Respondent shall be permitted to dispose of such records and documents.

2. Respondent further agrees that within ten (10) days of the effective date of this Consent Order or of retaining or employing an agent, consultant or contractor, whichever comes first, Respondent will enter into an agreement, to be confirmed in writing within fifteen (15) days, with its agents, consultants and/or contractors whereby its agents, consultants and/or contractors will be required to maintain and preserve during the pendency of this Consent Order and for a maximum of three (3) years after its termination, all records and documents within their respective possession which arise out of activities which relate in any way to this Consent Order or to hazardous waste management and disposal at the facility which is the subject of this Consent Order.

XII. PROJECT COORDINATOR

1. On or before the effective date of this Consent Order, U.S. EPA and Respondent shall each designate a Project Coordinator. William Buller is the U.S. EPA Project Coordinator. Each Project Coordinator shall be responsible for overseeing the implementation of this Consent Order. The U.S. EPA Project Coordinator will be U.S. EPA's designated representative. To the maximum extent possible, all communications between Respondent and U.S. EPA, and all documents reports, approvals, and other correspondence concerning the activities performed pursuant to the terms and conditions of this Consent Order, shall be directed through the Project Coordinator.

2. The parties agree to provide at least ten (10) days written notice prior to changing Project Coordinators.

XIII. NOTIFICATION

Unless otherwise specified, reports, notices or other submissions required under this Consent Order shall be in writing and shall be sent to:

If to U.S. EPA:

William Buller
RCRA Enforcement Branch, 5HR-12
Waste Management Division
U.S. Environmental Protection Agency
230 South Dearborn Street
Chicago, Illinois 60604

If to Respondent:

Robert C. July
Warner Electric Division of Dana Corporation
449 Gardner Street
South Beloit, Illinois 60180

XIV. DELAY IN PERFORMANCE/STIPULATED PENALTIES

1. Unless excused under Section XVI, "Force Majeure and Excusable Delay," or Section XV, Dispute Resolution, for each day that some activity or work product called for in the Consent Order is overdue or unsatisfactory, or for which Respondent fails to submit a report or document or otherwise fails to achieve the requirements of this Consent Order, Respondent shall pay the sums set forth below as stipulated penalties, except as provided in paragraph 5 of this Section. U.S. EPA, at its discretion, can waive or reduce such stipulated penalties. Stipulated penalties shall accrue in the following amounts: for failure to comply with any provision of this Consent Order $500 per day for the first one to seven days, and $1000 per day for each subsequent day of delay, or part thereof.

2. Any stipulated penalties paid pursuant to this Consent Order shall be payable within twenty (20) days after Respondent's receipt of written demand by U.S. EPA, of the United States, and shall be remitted to:

U.S. Environmental Protection Agency, Region V
P.O. Box 70753
Chicago, Illinois 60673

A letter describing the basis for the penalties shall accompany the check. Copies of the transmittal of payment shall be sent to the U.S. EPA contact person listed in Section XIII.

3. The stipulated penalties set forth in this Section do not preclude U.S. EPA from pursing any other remedies or sanctions which may be available to U.S. EPA as reason of Respondent's failure to comply with any of the

requirements of this Consent Order, nor shall payment of said penalties relieve Respondent of the responsibility to comply with this Consent Order.

4. Should Respondent fail to comply with a time requirement of any task required by this Consent Order, the period of noncompliance shall terminate upon Respondent's performance of said requirement.

5. If Respondent disputes the basis for imposition of stipulated penalties, the issue shall be resolved under the Dispute Resolution procedures of Section XV of this Consent Order.

XV. DISPUTE RESOLUTION

If Respondent disagrees, in whole or in part, with any U.S. EPA disapproval or other decision or directive made by U.S. EPA pursuant to this Consent Order, Respondent shall notify U.S. EPA in writing of its objections and the bases therefore within ten (10) calendar days of receipt of U.S. EPA's disapproval, decision or directive. U.S. EPA and Respondent shall then have an additional thirty (30) calendar days from U.S. EPA's receipt of Respondent's objections to attempt to resolve the dispute. If agreement is reached, the solution shall be reduced to writing, signed by representatives of each party and incorporated into this Consent Order.

If the parties are unable to reach agreement within this 30 day period, U.S. EPA shall provide a written statement within 60 days after the 30 day negotiation period of its decision to Respondent, which shall be incorporated into this Consent Order and be binding on the parties.

XVI. FORCE MAJEURE AND EXCUSABLE DELAY

1. Respondent shall perform the requirements under this Consent Order within the time limits set forth or approved or established herein, unless the performance is prevented or delayed solely by events which constitute a force majeure. A force majeure is defined as any event arising from causes not reasonably foreseeable and beyond the control of Respondent, including its consultants and contractors, which could not be overcome by due diligence and which delays or prevents performance by a date required by this Consent Order, or interrupts performance of any activity, which requires continuous operation. Force majeure could include delays due to the need to obtain permits for any of the corrective measures required by this Consent Order where the Respondent has made timely and complete application for the required permits. Such events do not include unanticipated or increased costs of performance, changed economic circumstances, or normal precipitation events.

2. Respondent must notify U.S. EPA in writing ten (10) days after it becomes aware of events which it knows or should know constitute a force majeure. Such notice shall estimate the anticipated length of delay, including necessary demobilization and remobilization, its cause, measures taken or to be taken to minimize the delay, and an estimated timetable for implementation of these measures. Respondent shall adopt all reasonable measures to avoid and minimize the delay. Failure to comply with the notice provision of this Section shall be grounds for U.S. EPA to deny Respondent an extension of time for performance.

3. If Respondent demonstrates to U.S. EPA that the delay has been or will be caused entirely by circumstances not reasonably foreseeable and beyond its control including its consultants and contractors, which could not have been overcome by due diligence, the time for performance for that element shall be extended for a period equal to the delay resulting from such circumstances. This shall be accomplished through written amendment to this Consent Order pursuant to Section XX. Such an extension does not alter the schedule for performance or completion of other tasks required by the Consent Order not affected by the delay or otherwise caused entirely by circumstance(s) not reasonably foreseeable, and beyond the control of Respondent, which could not have been overcome by due diligence. In the event that U.S. EPA and Respondent cannot agree that any delay or failure has been or will be caused entirely by circumstance not reasonably foreseeable, and beyond the control of Respondent, which could not have been overcome by due diligence, or if there is no agreement on the length of the extension, this dispute shall be resolved in accordance with the Dispute Resolution provisions of Section XV of this Consent Order.

XVII. RESERVATION OF RIGHTS

1. U.S. EPA expressly reserves all rights and defenses that it may have, including the right both to disapprove of work performed by Respondent and to request that Respondent perform tasks in addition to those stated in the Consent Order.

2. Compliance by Respondent with the terms of this Consent Order shall not relieve Respondent of its obligations to comply with RCRA or any other applicable local, State, or Federal law.

3. U.S. EPA reserves the right to take any enforcement action pursuant to CERCLA, RCRA, or any other available legal authority, including without limitation, the right to seek injunctive relief, including actions to compel implementation of corrective measures, to compel compliance with this Consent Order, for cost recovery, for monetary penalties, and/or punitive damages. This Consent Order shall not be construed as a covenant not to sue, release, waiver or limit of any rights, remedies, powers and/or authority, civil or criminal which U.S. EPA has under RCRA, CERCLA, or any other statutory, regulatory, or common law enforcement authority of the U.S. EPA. Nothing in this Consent Order shall be construed as U.S. EPA's preauthorization of a claim against the Hazardous Substance Trust Fund.

4. U.S. EPA reserves the right to perform any portion of the work consented to herein or any additional site characterization, feasibility study, and response/corrective actions as it deems necessary to protect public health and the environment. Absent an immediate hazard, U.S. EPA will not perform work consented to herein if Respondent is performing said work in a timely and satisfactory manner. In any event, U.S. EPA reserves its right to seek reimbursement from Respondent for such additional costs incurred by the United States. Notwithstanding compliance with the terms of this Consent Order, Respondent is not released from liability, if any, for the costs of any response actions taken by U.S. EPA.

5. No action or decision of U.S. EPA, including, without limitation, decisions of the Regional Administrator, or his designee, shall constitute final Agency action giving rise to any rights of judicial review, prior to U.S. EPA's initiation of judicial action to compel the Respondent to comply with the mandates of this Consent Order.

6. The parties acknowledge and agree that approval or modification of the Respondent's corrective measures does not constitute a warranty or representation of any kind by the Respondent or U.S. EPA that the corrective measures will achieve the cleanup performance standards specified in Section VI, paragraph 6. Furthermore, such approval or modification shall not foreclose the U.S. EPA from seeking performance of this Consent Decree.

XVIII. OTHER CLAIMS AND PARTIES

Nothing in this Consent Order shall constitute or be construed as a release from any claim, cause of action or demand in law or equity against any person, firm, partnership, or corporation not a signatory to this Consent Order for any liability it may have arising out of or relating in any way to the generation, storage, treatment, handling, transportation, release, or disposal of any hazardous constituents, hazardous substances, hazardous wastes, pollutants, or contaminants found at, taken to, or taken from the facility.

XIX. OTHER APPLICABLE LAWS

All actions required to be taken pursuant to this Consent Order shall be undertaken in accordance with the substantive and procedural requirements of all applicable local, State, and Federal laws and regulations.

XX. INDEMNIFICATION OF THE UNITED STATES GOVERNMENT

Respondent agrees to indemnify and save and hold harmless the United States Government, its agencies, departments, agents, and employees, from any and all claims or causes of acting arising from or on account of acts or omissions of Respondent or its agents, independent contractors, receivers, trustees, and assigns in carrying out activities as required by this Consent Order. This indemnification shall not be construed in any way as affecting or limiting the rights or obligations of Respondent or the United States under their various contracts.

XXI. SUBSEQUENT MODIFICATION

1. This Consent Order may be amended by mutual agreement of U.S. EPA and Respondent or pursuant to the Dispute Resolution provisions of Section XV. Such amendments shall be in writing, shall have as their effective date the date on which they are signed by both parties, or U.S. EPA provides its written statement on any dispute, and shall be incorporated into this Consent Order.

2. Any reports, plans, specifications, schedules, and attachments required by this Consent Order, upon approval by U.S. EPA, shall be incorporated in to this Consent Order. Any noncompliance with such U.S. EPA-approved reports,

plans, specifications, schedules, and attachments shall be considered a failure to achieve the requirements of this Consent Order and shall subject Respondent to the penalty provisions included in Section XIV of this Consent Order and/or other sanctions.

3. No informal advice, guidance, suggestions, or comments by U.S. EPA regarding reports, plans, specifications, schedules, and any other writing submitted to Respondent will be construed as relieving Respondent of its obligation to obtain written approval, if and when required by this Consent Order.

XXII. TERMINATION AND SATISFACTION

The provisions of this Consent Order shall be deemed satisfied upon Respondent's receipt of written notice from U.S. EPA that Respondent has demonstrated, to the satisfaction of U.S. EPA, that the terms of this Consent Order, including any additional tasks which, subject to the limitations set forth herein, Respondent has agreed to undertake, have been satisfactorily completed. U.S. EPA shall issue such notice after receipt of notice by Respondent that it has completed the requirements of the Consent Order, and such notice will not be unreasonably withheld.

Subsequent to issuance of this Order, a RCRA permit or post-closure permit may be issued to the facility incorporating the requirements of this Order by reference into the permit. Unless agreed to by the parties, any requirement of this Order shall not terminate upon issuance of a RCRA permit or post-closure permit unless the requirements are expressly replaced by requirements in the permit or post-closure permit.

IT IS SO AGREED:

DANA CORPORATION
WARNER ELECTRIC DIVISION

By: Frank E. Bauchiero 12-14-89
Date

Title: Group Vice President

U.S. ENVIRONMENTAL PROTECTION AGENCY

By: David A. Ullrich 12/27/89
Date

for Basil G. Constantelos, Director
Waste Management Division
U.S. EPA, Region V

IT BEING SO AGREED, IT IS HEREBY ORDERED THIS 28th DAY OF

December, 1989

Valdas V. Adamkus
Regional Administrator
U.S. EPA, Region V

IN THE MATTER OF:

DANA CORPORATION
WARNER ELECTRIC BRAKE AND
CLUTCH DIVISION
ILD 006 114 169

ATTACHMENT A

Residents and Businesses with Wells Having Contaminant Levels Exceeding Limits[1] - May 1989.

1. 11321 Edgemere Terrace, Roscoe, IL
2. 4993 Crown Point Rd., Roscoe, IL
3. John Deere (business), Roscoe, IL
4. 11548 Edgemere Terrace, Roacoe, IL
5. Century 21 (business), Roscoe, IL

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1. Maximum containment levels (MCLs) promulgated under Safe Drinking Act.

Appendix B
Sub-Slab Vapor and Indoor Air Test Results Technical Memorandum

RMT

Technical Memorandum

Date: September 12, 2008

To: Craig Campbell – Dana Holding Corporation
Paul Renberg – Dana Holding Corporation
Rich Fahey – Vory, Sater, Seymour, and Pease LLP

cc: Barbara Glijer and Tom Jancek – RMT

From: Jim Buss

Project No.: 2541.27

Subject: Sub-Slab Vapor and Indoor Air Test Results, Former Warner Electric, Roscoe, Illinois

Background and Conclusions

This Memorandum summarizes the sub-slab vapor and indoor air sampling effort at the Dana Holding Corporation (Dana) former Warner Electric facility (Warner) in Roscoe, Illinois. As expected, the results show the presence of several chlorinated volatile organic compounds (CVOCs) in both sub-slab and indoor air samples. Trichloroethene (TCE), which was the predominant compound detected, will likely also have the lowest cleanup criterion, and therefore will serve as the driver for remediation.

While sub-slab TCE concentrations show substantial variability, ranging from 150 to 900,000 micrograms per cubic meter ($\mu g/m^3$), RMT's evaluation suggests that sub-slab TCE concentrations will serve as a useful measure of the future soil vapor extraction (SVE) system performance. Indoor air concentrations were much lower and more homogeneous, reflecting mixing in the open building; TCE concentrations ranged from 8 to 16 $\mu g/m^3$. The ratios of TCE and cis-1,2-dichloroethene (cis-1,2-DCE), a compound associated with TCE degradation in the natural environment, in indoor air and sub-slab vapor samples correlate adequately to suggest that the indoor samples reflect attenuated indoor vapor intrusion and not a separate indoor air source.

The TCE indoor air risk screening concentration, previously approved by the United States Environmental Protection Agency (USEPA) for residential indoor air evaluations associated with this project, is 1 $\mu g/m^3$ (MACTEC, 2003). RMT anticipates applying this concentration for the on-site facility, which will have a commercial/industrial future land use. The indoor air concentrations measured at the site are 8 to 16 times this risk screening value. Given the attenuative capacity of the concrete floor slab, the sub-slab TCE concentrations will likely need to be reduced by approximately 95 percent in the subsurface to achieve the 1 $\mu g/m^3$ TCE risk screening level in indoor air samples.

Sub-Slab Soil Gas Monitoring Point Installations

RMT supervised the installation of 10 sub-slab vapor monitoring points at locations SS-01 through SS-10, shown on Figure 1, in accordance with the *Workplan To Amend Administrative Order on Consent* (RMT, 2007). The locations represent a combination of areas biased toward known sources and locations randomly distributed throughout the building. Sources were confirmed and refined during the 2006 passive soil gas survey (PSG) when 130 PSG samples were collected from a grid across the facility with a focus on suspected source areas. Results of the survey showed elevated CVOC mass (greater than 50,000-nanograms) beneath the former TCE aboveground storage tank (AST) and near vapor degreaser 1231.

For the sub-slab soil gas monitoring program, sampling points SS-07, -08, and -09 were located near the former TCE AST, while SS-03 was located near vapor degreaser 1231. Sampling points SS-04, -05, and -06 were distributed within the 50,000-nanogram mass boundary, while sampling points SS-01, -02, and -10 were distributed outside the 50,000-nanogram mass boundary delineated from the PSG survey effort, while sampling points SS-03, -04, -05, and -06 were located within the 50,000-nanogram boundary.

At each sub-slab sampler location, an 8-inch–diameter core was cut through the 6-inch–thick concrete floor. After removing the core, a hand auger was used to core an additional 8 inches below the base of the concrete. A 0.5-inch–diameter, 6-inch–long stainless-steel vapor sampling screen was then lowered into the boring, and filter sand was backfilled around the screen. The top of the screen was set flush to the base of the concrete pad. Masterflex tubing, equipped with a stopcock valve, extended from each screen to enable sample collection. The boring was then capped with granular bentonite and completed with a 4-inch–diameter flush-mount well cover cemented into place to preclude ambient air from infiltrating the soil gas sampling point. Each sub-slab soil gas monitoring point was completed and allowed to equilibrate for a minimum of 48 hours prior to soil gas sample collection.

Sub-Slab Soil Vapor and Indoor Air Sample Collection

RMT collected 10 coincident sub-slab soil vapor (SS-01 through SS-10) and indoor air (IN-01 through IN10) sample pairs on May 28, 2008. Sample collection was conducted in accordance with the Workplan, which included helium leak detection testing prior to sub-slab sample collection and indoor air sample collection at a nominal height of 5 feet above the concrete floor of the building. Since the facility is unoccupied, the doors and windows to the facility remained closed and the HVAC system was not operated prior to or during the test.

Air Toxics, of Folsum, California, the analytical laboratory for this effort, supplied the sampling systems, which consisted of a 6-liter SUMMA®-passivated canister with a nominal starting vacuum of 29 to 30 inches mercury (in. Hg). The systems included a preset dedicated flow controller/critical orifice calibrated to a nominal flow rate of 85 milliliters per minute (mL/min) for 1-hour sub-slab samples and a flow rate of 10.5 mL/min for 8-hour indoor air samples. Over the course of the sampling event, these flow rates resulted in a nominal 5-liter sample in the 6-liter canisters. At the end of the sampling period, the canisters were still under slight vacuum (3 to 5 in. Hg). RMT recorded the canister vacuum at the

beginning and the end of each sampling event. The canisters were maintained at ambient temperatures and returned to the laboratory within 3 days of collection under chain-of-custody protocols.

To assess background/ambient conditions, two background air samples, BKGD-1 (indoor) and BKGD-2 (outdoor), were also collected. Duplicate samples were collected at the SS-09/IN-09 locations to evaluate quality control.

Indoor Air and Sub-Slab Sample Results

Tables 1 and 2 summarize the results of sub-slab vapor and indoor air laboratory analyses, respectively. Attachment 1 contains a copy of the analytical data report from Air Toxics. As expected, TCE; cis-1,2-DCE; 1,1,1-trichloroethane (1,1,1-TCA); and 1,1-dichloroethane (1,1-DCA) were the compounds most commonly detected. Other detected compounds included 1,2-dichlorobenzene; tetrachloroethane (PCE); trans-1,2-dichloroethene (trans-1,2-DCE), toluene; and vinyl chloride.

The sub-slab results show a distribution that is consistent with the 2006 PSG survey, with the highest concentrations (100,000s $\mu g/m^3$) at sampling points SS-07, SS-08, and SS-09, where passive soil gas sampling had shown an elevated mass of chlorinated VOCs. Sampling points distributed across the remainder of the site showed lower concentrations, although SS-03, SS-04, SS-05, and SS-06, located within the source area defined during the PSG survey, showed concentrations in the 10,000s $\mu g/m^3$. Sampling points SS-01, SS-02, and SS-10 showed lower concentrations, less than 5,000 $\mu g/m^3$. This distribution of data shows that the area planned for SVE remediation, within the 50,000-nanogram mass boundary developed from the PSG survey, should be appropriate and adequate to reduce sub-slab vapor concentrations and should lead to reduced indoor air concentrations, below the 1 $\mu g/m^3$ risk screening level for TCE.

The indoor air results showed much lower concentrations with a relatively homogeneous distribution, reflecting attenuation across the concrete floor and mixing in the open building. TCE was detected in all of the samples, including BKGD-1, with concentrations ranging from 8.7 to 16 $\mu g/m^3$. The compounds cis-DCE, 1,1,1-TCA, and toluene were also detected in more than one sample, albeit at substantially lower concentrations of <2.5 $\mu g/m^3$, <1 $\mu g/m^3$, and <15 $\mu g/m^3$, respectively. Toluene, which was detected in all of the indoor air samples, was only detected in four sub-slab samples, including the duplicate sample collected at SS-09. No other parameter was detected so widely in indoor air samples, while being detected in only limited subsurface samples. This suggests that the indoor toluene detection may represent a separate indoor fugitive emission. However, the cleanup criterion for toluene is expected to be well above the concentrations detected at the site, and as a result, it will not drive site remediation.

Quality control samples consisted of trip blank, as well as field and laboratory duplicates, and background samples. The trip blank sample showed no detectable VOC concentrations. The duplicate sample results (both field and laboratory duplicates) showed good data correlation, particularly for the indoor air samples where concentrations were low. The sub-slab duplicate sample, collected at SS-09, showed some variation from the parent sample, particularly for 1,1,1-TCA, where the duplicate result was less than 10 percent of the parent sample. The outdoor background sample (BKGD-2) showed no detectable VOC concentrations, while the indoor background sample (BKGD-1) contained detectable

concentrations of TCE; cis-1,2-DCE; and toluene, consistent with other indoor samples. Overall, the trip blank and duplicate samples show that the data quality is adequate for the assessment purposes outlined in the Workplan, while the background samples show no interference from outdoor sources.

As noted, the lower indoor air concentrations reflect the attenuative capacity of the concrete floor. Statistical analysis of the data shows that the sub-slab–to–indoor air attenuation factor median values for TCE, cis-DCE, and TCA range from 0.00006 to 0.006, with an average value of 0.004. These results are consistent with the recent U.S. EPA literature on sub-slab vapor–indoor air attenuation factors, which found a median value of 0.005 and a 95th percentile value of 0.1 (U.S. EPA, 2008).

Conclusions

The sub-slab vapor and indoor air sampling program showed the presence of several CVOCs in both sub-slab and indoor air samples. As expected, sub-slab concentrations were typically 1,000 to 10,000 times higher than the indoor samples, reflecting substantial attenuation across the concrete floor. The distribution of concentrations in the sub-slab samples correlated well with results from the earlier PSG survey, suggesting that the sub-slab sampling locations will be useful for judging the success of the SVE remediation system planned for the site.

While the indoor air samples have much lower concentrations, the ratio of cis-1,2-DCE to TCE in sub-slab and indoor air samples does not reflect enrichment of TCE in the indoor samples. Such an enrichment would be expected if there were substantial fugitive TCE sources that had not been exposed to reductive dechlorination inside the building.

TCE, which has the highest concentrations, will have the lowest cleanup criterion, and as a result, will act as the regulatory driver for achieving site cleanup. RMT anticipates using the previously approved, site-specific 1 $\mu g/m^3$ risk screening level, assuming commercial/industrial future use of the facility. Given the attenuative capacity of the concrete floor, we expect that it will be necessary to reduce subsurface vapor concentrations by approximately 95 percent to achieve an indoor air cleanup criterion of 1 $\mu g/m^3$.

References

MACTEC. 2003. Final indoor/outdoor air sampling and analysis plan, Warner Electric Facility, Roscoe, Illinois. August 29, 2003.

RMT, Inc. 2006. Passive soil gas survey at the Warner Electric Brake and Clutch Division property, Roscoe, Illinois. August 2006.

RMT, Inc. 2007. Workplan to amend administrative order on consent. Warner Electric Brake and Clutch Division, Roscoe, Illinois., October 2007.

U.S. EPA. 2008. U.S. EPA's vapor intrusion database – preliminary evaluation of attenuation factors – draft document. U.S. EPA Office of Solid Waste, Washington, D.C., March 4, 2008.

List of Attachments

- Table 1 – Sub-Slab Soil Vapor Sample Summary
- Table 2 – Indoor Air Sample Summary
- Figure 1 – Indoor Air and Sub-Slab Soil Gas Sample Locations
- Attachment 1 – Laboratory Data Report

Table 1
Subslab Soil Vapor Sample Summary
Former Warner Electric
Roscoe, Illinois

Subslab Sample Designation	Hazardous Waste Constituent and Detected Concentration ($\mu g/m^3$)										
	Freon 12 (Dichlorodifluoromethane)	Vinyl Chloride	Methylene Chloride	trans-1,2-Dichloroethene	1,1-Dichloroethane	cis-1,2-Dichloroethene	1,1,1-Trichloroethane	Trichloroethene	Tetrachloroethene	Toluene	1,4-Dichlorobenzene
SS-01	<15	<7.8	<10	**58**	**150**	**2700**	**2000**	**150**	<21	**15**	<18
SS-01 (Lab Dup)	<15	<7.8	<10	**56**	**150**	**2700**	**2000**	**140**	<21	**12**	<18
SS-02	<18	<9.2	<12	<14	**17**	<14	**1400**	**4700**	**170**	<14	<22
SS-03	<96	**520**	<67	<77	**180**	**920**	**11000**	**27000**	**370**	<73	<120
SS-04	<110	**200**	<76	<87	**150**	**1900**	**4000**	**34000**	**450**	<83	<130
SS-05	<55	<28	<38	**58**	**69**	**4700**	**530**	**17000**	**200**	<42	<66
SS-06	<250	<130	<180	<200	**300**	**4700**	**990**	**67000**	<350	<190	<310
SS-07	<1500	<780	<1000	<1200	**2200**	**65000**	**4000**	**530000**	<2100	<1100	<1800
SS-08	<3800	<2000	<2700	<3100	<3100	**120000**	<4200	**900000**	<5200	<2900	<4600
SS-09	<1600	<810	<1100	<1200	**9200**	**130000**	**56000**	**640000**	<2100	<1200	<1900
Dup-02 (SS-09)	<2000	<1000	<1400	<1600	**1700**	**61000**	**3900**	**430000**	<2700	**3400**	<2400
SS-10	<3.8	<2	<2.7	<3.1	<3.1	**5.0**	**96**	**1000**	**140**	**21**	**18**
Mean	--	--	--	--	--	**30000**	**5600**	**212000**	**--**	**--**	**--**
Median	--	--	--	--	--	**3700**	**2100**	**31000**	**--**	**--**	**--**

Notes 1. < indicates compound was not detected above the listed detection limit.
2. Dup indicates duplicate sample.
3. -- indicates that the value was not calculated. Where calculated, 1/2 the detection limit was used.

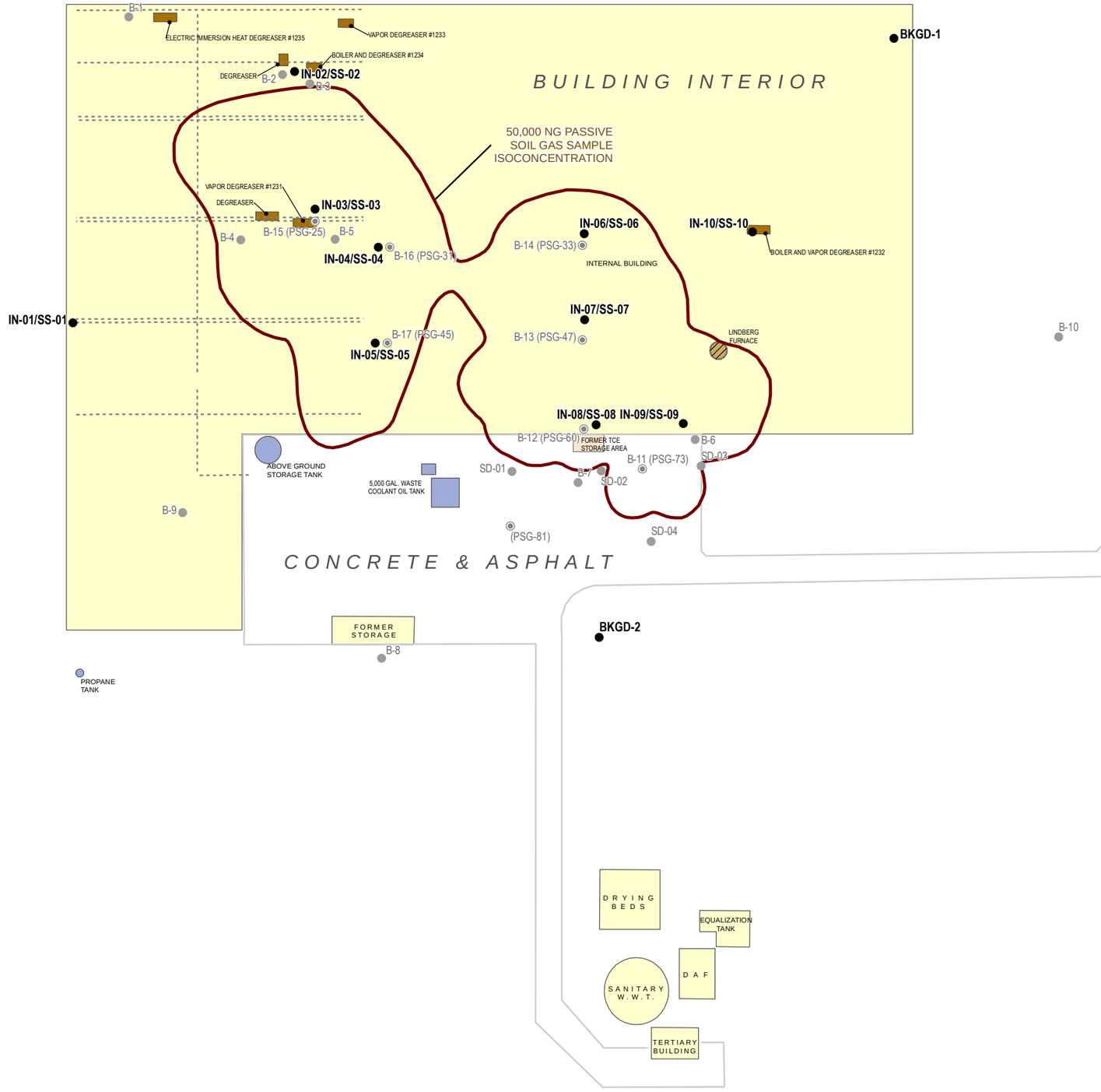
Prepared by: JAB 6/15/08
QC'd by: SAK 6/20/08, JMO 7/8/08

Table 2
Indoor Air Sample Summary
Former Warner Electric
Roscoe, Illinois

Indoor Sample Designation	Hazardous Waste Constituent and detected Concentration (µg/m^3)										
	Freon 12 (Dichlorodifluoromethane)	Vinyl Chloride	Methylene Chloride	trans-1,2-Dichloroethene	1,1-Dichloroethane	cis-1,2-Dichloroethene	1,1,1-Trichloroethane	Trichloroethene	Tetrachloroethene	Toluene	1,4-Dichlorobenzene
IN-01	<3.9	<2	<2.7	<3.1	<3.2	**1.2 J**	<4.3	**11**	<5.4	**0.62 J**	<4.8
IN-02	<4.0	<2	<2.8	<3.2	<3.2	**0.96 J**	<4.4	**9.5**	<5.5	**1.2 J**	<4.8
IN-03	<3.8	<1.9	<2.6	<3	<3.1	**1.0 J**	<4.1	**10**	<5.2	**0.72 J**	<4.6
IN-04	<3.8	<1.9	<2.6	<3	<3.1	**14 J7**	**0.83 J**	**11**	<5.2	**0.69 J**	<4.6
IN-05	<3.7	<1.9	<2.6	<3	<3	**1.7 J**	**0.66 J**	**12**	<5	**0.76 J**	<4.5
IN-06	<3.9	<2	<2.7	<3.1	<3.2	**1.2 J**	**0.54 J**	**10**	<5.4	**1.1 J**	<4.8
IN-07	<4.2	<2.1	<2.9	<3.3	<3.4	**1.3 J**	<4.6	**12**	<5.7	**1.2 J**	<5
IN-08	<3.6	<1.9	<2.5	<2.9	<3	**1.5 J**	**0.52 J**	**13**	**5.8**	**15**	<4.4
IN-09	<3.8	<1.9	<2.6	<3	<3.1	**2.1 J**	**0.56 J**	**16**	<5.2	**1.1 J**	<4.6
Dup-01 (IN-09)	<4	<2.1	<2.8	<3.2	<3.3	**1.3 J**	<4.5	**11**	<5.6	**1.4 J**	<4.9
IN-10	<4.2	<2.1	<2.9	<3.3	<3.4	**1.4 J**	<4.6	**11**	<5.7	**2.5 J**	<5
IN-10 (Lab Dup)	<4.2	<2.1	<2.9	<3.3	<3.4	**1.4 J**	**0.66 J**	**11**	<5.7	**1.2 J**	<5
BKGD-01	<3.8	<2	<2.7	<3.1	<3.1	**0.97 J**	<4.2	**8.7**	<5.2	**0.94 J**	<4.6
BKGD-02	<4	<2.1	<2.8	<3.2	<3.3	<3.2	<4.5	<4.4	<5.6	<3.1	<4.9
BKGD-02A	<3.3	<1.7	<2.3	<2.6	<2.7	<2.6	<3.6	<3.6	<4.5	<2.5	<4
Mean (no background)	--	--	--	--	--	**1.3**	**1.2**	**11.3**	**--**	**--**	**--**
Median (no background)	--	--	--	--	--	**1.3**	**0.7**	**11.0**	**--**	**--**	**--**

Notes 1. < indicates compound was not detected above the listed detection limit.
2. Dup indicates duplicate sample.
3. -- indicates that the value was not calculated. Where calculated, 1/2 the detection limit was used.
4. J indicates estimated result where reported concentration is between the method detection limit and the reporting limit
5. J7 indicates result shows interference from coeluted compound. Result is biased high and is not considered a valid result.

Prepared by: JAB 6/15/08
QC'd by: SAK 6/20/08, JMO 7/8/08



LEGEND

- SOIL GAS & SUBSLAB SOIL VAPOR SAMPLE LOCATION; SOIL GAS SAMPLING LOCATION
- SOIL BORING LOCATION (EKI, 2003)
- SOIL/GROUNDWATER SAMPLE LOCATION. ADVANCED AT SOIL GAS SAMPLE LOCATION (RMT 2006)
- SOIL GAS SAMPLE ISOCONCENTRATION
- ROAD/ASPHALT EDGE
- TRENCH SYSTEM (ABANDONED)

NOTES

1. BASE MAP DEVELOPED FROM SITE PLAN PREPARED BY ERLER & KALINOWSKI, INC. PROJECT NO A20007.02 DATED MAY 2003
2. SOIL GAS SAMPLE PREFIX (PSG-) NOT INCLUDED IN SOME MAP LABELS FOR SIMPLIFICATION.
3. STORAGE TANKS NOT SHOWN TO SCALE.
4. SVE WELL NEST AND MONITORING POINTS TO BE INSTALLED BY OTHERS.
5. ALL LOCATIONS ARE APPROXIMATE. CONSULT AND COORDINATE WITH OWNER OR RMT FOR ALL TIE-INS AND BUILDING PENETRATIONS.

0 100 200 FEET

1 " = 100 '
1:1,200

N

PROJECT:
DANA CORPORATION
FORMER WARNER ELECTRIC DIVISION
ROSCOE, ILLINOIS

SHEET TITLE:
INDOOR AIR AND SUBSLAB SOIL GAS SAMPLE LOCATIONS

DRAWN BY: MCKEEFRY J	SCALE: AS NOTED	PROJ. NO. 00-02541.27	
CHECKED BY: GLIJER B		FILE NO. 25412509.mxd	
APPROVED BY: BUSS J	DATE PRINTED: 2/3/2009	**FIGURE 1**	
DATE: FEBRUARY 2009			

RMT

744 Heartland Trail
Madison, WI 53717-1934

P.O. Box 8923 53708-8923
Phone: 608-831-4444
Fax: 608-831-3334

D:\02541\25\25412509.mxd 2/3/2009 12:13:54

Attachment 1

Laboratory Data Report

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Air Toxics Ltd. Introduces the Electronic Report

Thank you for choosing Air Toxics Ltd. To better serve our customers, we are providing your report by e-mail. This document is provided in Portable Document Format which can be viewed with Acrobat Reader by Adobe.

This electronic report includes the following:

- Work order Summary;
- Laboratory Narrative;
- Results; and
- Chain of Custody (copy).

180 BLUE RAVINE ROAD, SUITE B FOLSOM, CA - 95630

(916) 985-1000 .FAX (916) 985-1020
Hours 8:00 A.M to 6:00 P.M. Pacific

AN ENVIRONMENTAL ANALYTICAL LABORATORY

WORK ORDER #: 0805630BR2

Work Order Summary

CLIENT: Ms. Stacey Koch
RMT, Inc.
744 Heartland Trail
Madison, WI 53717

BILL TO: Accounts Payable
RMT, Inc.
P.O. Box 8923
Madison, WI 53708-8923

PHONE: 608-831-4444
FAX: 608-831-3334
DATE RECEIVED: 05/30/2008
DATE COMPLETED: 06/20/2008
DATE REISSUED: 07/08/2008

P.O. # 2541.27
PROJECT # 2541.27 Roscoe
CONTACT: Brandon Dunmore

FRACTION #	NAME	TEST	RECEIPT VAC./PRES.	FINAL PRESSURE
11A	IN-01	Modified TO-15	4.5 "Hg	5 psi
12A	IN-02	Modified TO-15	5.0 "Hg	5 psi
13A	IN-03	Modified TO-15	3.5 "Hg	5 psi
14A	IN-04	Modified TO-15	3.5 "Hg	5 psi
15A	IN-05	Modified TO-15	3.0 "Hg	5 psi
16A	IN-06	Modified TO-15	4.5 "Hg	5 psi
17A	IN-07	Modified TO-15	6.0 "Hg	5 psi
18A	IN-08	Modified TO-15	2.5 "Hg	5 psi
19A	IN-09	Modified TO-15	3.5 "Hg	5 psi
20A	IN-10	Modified TO-15	6.0 "Hg	5 psi
20AA	IN-10 Lab Duplicate	Modified TO-15	6.0 "Hg	5 psi
21A	DUP-02	Modified TO-15	4.5 "Hg	5 psi
22A	DUP-01	Modified TO-15	5.5 "Hg	5 psi
23A	BKGD-01	Modified TO-15	4.0 "Hg	5 psi
24A	BKGD-02	Modified TO-15	5.5 "Hg	5 psi
25A	BKGD-02A	Modified TO-15	0.0 "Hg	5 psi
26A	Trip Blank	Modified TO-15	29.0 "Hg	5 psi

Continued on next page

AN ENVIRONMENTAL ANALYTICAL LABORATORY

WORK ORDER #: 0805630BR2

Work Order Summary

CLIENT:	Ms. Stacey Koch RMT, Inc. 744 Heartland Trail Madison, WI 53717	**BILL TO:**	Accounts Payable RMT, Inc. P.O. Box 8923 Madison, WI 53708-8923
PHONE:	608-831-4444	**P.O. #**	2541.27
FAX:	608-831-3334	**PROJECT #**	2541.27 Roscoe
DATE RECEIVED:	05/30/2008	**CONTACT:**	Brandon Dunmore
DATE COMPLETED:	06/20/2008		
DATE REISSUED:	07/08/2008		

FRACTION #	NAME	TEST	RECEIPT VAC./PRES.	FINAL PRESSURE
27A	Lab Blank	Modified TO-15	NA	NA
27B	Lab Blank	Modified TO-15	NA	NA
28A	CCV	Modified TO-15	NA	NA
28B	CCV	Modified TO-15	NA	NA
29A	LCS	Modified TO-15	NA	NA
29B	LCS	Modified TO-15	NA	NA

CERTIFIED BY: Linda L. Freeman

Laboratory Director

DATE: 07/08/08

Certfication numbers: CA NELAP - 02110CA, LA NELAP/LELAP- AI 30763, NJ NELAP - CA004
NY NELAP - 11291, UT NELAP - 9166389892, AZ Licensure AZ0719
Name of Accrediting Agency: NELAP/Florida Department of Health, Scope of Application: Clean Air Act,
Accreditation number: E87680, Effective date: 07/01/07, Expiration date: 06/30/08
Air Toxics Ltd. certifies that the test results contained in this report meet all requirements of the NELAC standards

This report shall not be reproduced, except in full, without the written approval of Air Toxics Ltd.

180 BLUE RAVINE ROAD, SUITE B FOLSOM, CA - 95630
(916) 985-1000 . (800) 985-5955 . FAX (916) 985-1020

LABORATORY NARRATIVE
Modified TO-15
RMT, Inc.
Workorder# 0805630BR2

Sixteen 6 Liter Summa Canister samples were received on May 30, 2008. The laboratory performed analysis via modified EPA Method TO-15 using GC/MS in the full scan mode. The method involves concentrating up to 0.2 liters of air. The concentrated aliquot is then flash vaporized and swept through a water management system to remove water vapor. Following dehumidification, the sample passes directly into the GC/MS for analysis.

This workorder was independently validated prior to submittal using 'USEPA National Functional Guidelines' as generally applied to the analysis of volatile organic compounds in air. A rules-based, logic driven, independent validation engine was employed to assess completeness, evaluate pass/fail of relevant project quality control requirements and verification of all quantified amounts.

Method modifications taken to run these samples are summarized in the table below. Specific project requirements may over-ride the ATL modifications.

Requirement	***TO-15***	***ATL Modifications***
Daily CCV	+- 30% Difference	</= 30% Difference with two allowed out up to </=40%.; flag and narrate outliers
Sample collection media	Summa canister	ATL recommends use of summa canisters to insure data defensibility, but will report results from Tedlar bags at client request
Method Detection Limit	Follow 40CFR Pt.136 App. B	The MDL met all relevant requirements in Method TO-15 (statistical MDL less than the LOQ). The concentration of the spiked replicate may have exceeded 10X the calculated MDL in some cases

Receiving Notes

The Chain of Custody (COC) information for sample IN-09 did not match the information on the canister with regard to canister identification. The client was notified of the discrepancy and the information on the canister was used to process and report the sample.

Analytical Notes

There were no analytical discrepancies.

PER CLIENT REQUEST, THE WORK ORDER WAS RE-ISSUED ON 06/23/2008 TO REPORT ESTIMATED VALUES FOR 1,1-DICHLOROETHANE, CIS-1,2-DICHLOROETHENE, 1,1,1-TRICHLOROETHANE, TETRACHLOROETHENE AND TOLUENE THAT ARE BELOW THE REPORTING LIMIT BUT GREATER THAN THE METHOD DETECTION LIMIT FOR SAMPLES IN-01, IN-02, IN-03, IN-04, IN-05, IN-06, IN-07, IN-08, IN-09, IN-10, IN-10 LAB DUPLICATE, DUP-01, AND BKGD-01.

CONCENTRATIONS THAT ARE BELOW THE LEVEL AT WHICH THE CANISTER WAS CERTIFIED (0.2 PPBV FOR COMPOUNDS REPORTED AT 0.5 PPBV AND 0.8 PPBV FOR COMPOUNDS REPORTED AT 2.0 PPBV) MAY BE FALSE POSITIVES.

THE WORK ORDER WAS RE-ISSUED ON 7/8/08 TO APPLY A FLAG TO THE ESTIMATED VALUE FOR CIS-1,2-DICHLOROETHENE IN SAMPLE IN-04 AND TO INCLUDE THE FOLLOWING NARRATIVE.

THE REPORTED RESULT FOR CIS-1,2-DICHLOROETHENE IN SAMPLE IN-04 MAY BE BIASED HIGH DUE TO CO-ELUTION WITH A NON TARGET COMPOUND WITH SIMILAR CHARACTERISTIC IONS.

Definition of Data Qualifying Flags

Eight qualifiers may have been used on the data analysis sheets and indicates as follows:

B - Compound present in laboratory blank greater than reporting limit (background subtraction no performed).

J - Estimated value.

E - Exceeds instrument calibration range.

S - Saturated peak.

Q - Exceeds quality control limits.

U - Compound analyzed for but not detected above the reporting limit.

UJ- Non-detected compound associated with low bias in the CCV

N - The identification is based on presumptive evidence.

File extensions may have been used on the data analysis sheets and indicates as follows:

a-File was requantified

b-File was quantified by a second column and detector

r1-File was requantified for the purpose of reissue

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Summary of Detected Compounds
MODIFIED EPA METHOD TO-15 GC/MS

Client Sample ID: IN-01

Lab ID#: 0805630BR2-11A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
cis-1,2-Dichloroethene	0.79	0.30 J	3.1	1.2 J
Trichloroethene	0.79	2.0	4.2	11
Toluene	0.79	0.16 J	3.0	0.62 J

Client Sample ID: IN-02

Lab ID#: 0805630BR2-12A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
cis-1,2-Dichloroethene	0.80	0.24 J	3.2	0.96 J
Trichloroethene	0.80	1.8	4.3	9.5
Toluene	0.80	0.32 J	3.0	1.2 J

Client Sample ID: IN-03

Lab ID#: 0805630BR2-13A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
cis-1,2-Dichloroethene	0.76	0.27 J	3.0	1.0 J
Trichloroethene	0.76	1.8	4.1	10
Toluene	0.76	0.19 J	2.9	0.72 J

Client Sample ID: IN-04

Lab ID#: 0805630BR2-14A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
cis-1,2-Dichloroethene	0.76	3.6 J	3.0	14
1,1,1-Trichloroethane	0.76	0.15 J	4.1	0.83 J
Trichloroethene	0.76	2.1	4.1	11
Toluene	0.76	0.18 J	2.9	0.69 J

Client Sample ID: IN-05

Lab ID#: 0805630BR2-15A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
cis-1,2-Dichloroethene	0.74	0.42 J	3.0	1.7 J

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Summary of Detected Compounds
MODIFIED EPA METHOD TO-15 GC/MS

Client Sample ID: IN-05

Lab ID#: 0805630BR2-15A

1,1,1-Trichloroethane	0.74	0.12 J	4.1	0.66 J
Trichloroethene	0.74	2.2	4.0	12
Toluene	0.74	0.20 J	2.8	0.76 J

Client Sample ID: IN-06

Lab ID#: 0805630BR2-16A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
cis-1,2-Dichloroethene	0.79	0.31 J	3.1	1.2 J
1,1,1-Trichloroethane	0.79	0.099 J	4.3	0.54 J
Trichloroethene	0.79	1.9	4.2	10
Toluene	0.79	0.29 J	3.0	1.1 J

Client Sample ID: IN-07

Lab ID#: 0805630BR2-17A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
cis-1,2-Dichloroethene	0.84	0.33 J	3.3	1.3 J
Trichloroethene	0.84	2.2	4.5	12
Toluene	0.84	0.30 J	3.2	1.2 J

Client Sample ID: IN-08

Lab ID#: 0805630BR2-18A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
cis-1,2-Dichloroethene	0.73	0.38 J	2.9	1.5 J
1,1,1-Trichloroethane	0.73	0.096 J	4.0	0.52 J
Trichloroethene	0.73	2.4	3.9	13
Tetrachloroethene	0.73	0.85	5.0	5.8
Toluene	0.73	4.1	2.8	15

Client Sample ID: IN-09

Lab ID#: 0805630BR2-19A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
cis-1,2-Dichloroethene	0.76	0.53 J	3.0	2.1 J

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Summary of Detected Compounds
MODIFIED EPA METHOD TO-15 GC/MS

Client Sample ID: IN-09

Lab ID#: 0805630BR2-19A

1,1,1-Trichloroethane	0.76	0.10 J	4.1	0.56 J
Trichloroethene	0.76	3.0	4.1	16
Toluene	0.76	0.28 J	2.9	1.1 J

Client Sample ID: IN-10

Lab ID#: 0805630BR2-20A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
cis-1,2-Dichloroethene	0.84	0.35 J	3.3	1.4 J
Trichloroethene	0.84	2.1	4.5	11
Toluene	0.84	0.36 J	3.2	1.4 J

Client Sample ID: IN-10 Lab Duplicate

Lab ID#: 0805630BR2-20AA

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
cis-1,2-Dichloroethene	0.84	0.35 J	3.3	1.4 J
1,1,1-Trichloroethane	0.84	0.12 J	4.6	0.66 J
Trichloroethene	0.84	2.0	4.5	11
Toluene	0.84	0.32 J	3.2	1.2 J

Client Sample ID: DUP-02

Lab ID#: 0805630BR2-21A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
1,1-Dichloroethane	400	420	1600	1700
cis-1,2-Dichloroethene	400	15000	1600	61000
1,1,1-Trichloroethane	400	710	2200	3900
Trichloroethene	400	80000	2100	430000
Toluene	400	910	1500	3400

Client Sample ID: DUP-01

Lab ID#: 0805630BR2-22A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
cis-1,2-Dichloroethene	0.82	0.32 J	3.2	1.3 J

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Summary of Detected Compounds
MODIFIED EPA METHOD TO-15 GC/MS

Client Sample ID: DUP-01

Lab ID#: 0805630BR2-22A

Trichloroethene	0.82	2.1	4.4	11
Toluene	0.82	0.61 J	3.1	2.3 J

Client Sample ID: BKGD-01

Lab ID#: 0805630BR2-23A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
cis-1,2-Dichloroethene	0.78	0.24 J	3.1	0.97 J
Trichloroethene	0.78	1.6	4.2	8.7
Toluene	0.78	0.25 J	2.9	0.94 J

Client Sample ID: BKGD-02

Lab ID#: 0805630BR2-24A

No Detections Were Found.

Client Sample ID: BKGD-02A

Lab ID#: 0805630BR2-25A

No Detections Were Found.

Client Sample ID: Trip Blank

Lab ID#: 0805630BR2-26A

No Detections Were Found.

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: IN-01

Lab ID#: 0805630BR2-11A

MODIFIED EPA METHOD TO-15 GC/MS

File Name:	**b060824R1**	**Date of Collection: 5/28/08**	
Dil. Factor:	**1.58**	**Date of Analysis: 6/9/08 03:00 AM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Freon 12	0.79	Not Detected	3.9	Not Detected
Vinyl Chloride	0.79	Not Detected	2.0	Not Detected
Methylene Chloride	0.79	Not Detected	2.7	Not Detected
trans-1,2-Dichloroethene	0.79	Not Detected	3.1	Not Detected
1,1-Dichloroethane	0.79	Not Detected	3.2	Not Detected
cis-1,2-Dichloroethene	0.79	0.30 J	3.1	1.2 J
1,1,1-Trichloroethane	0.79	Not Detected	4.3	Not Detected
Trichloroethene	0.79	2.0	4.2	11
Tetrachloroethene	0.79	Not Detected	5.4	Not Detected
Toluene	0.79	0.16 J	3.0	0.62 J
1,4-Dichlorobenzene	0.79	Not Detected	4.8	Not Detected

J = Estimated value.

Container Type: 6 Liter Summa Canister

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	104	70-130
Toluene-d8	100	70-130
4-Bromofluorobenzene	97	70-130

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: IN-02

Lab ID#: 0805630BR2-12A

MODIFIED EPA METHOD TO-15 GC/MS

File Name:	**b060825R1**	**Date of Collection:**	**5/28/08**
Dil. Factor:	**1.61**	**Date of Analysis:**	**6/9/08 03:51 AM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Freon 12	0.80	Not Detected	4.0	Not Detected
Vinyl Chloride	0.80	Not Detected	2.0	Not Detected
Methylene Chloride	0.80	Not Detected	2.8	Not Detected
trans-1,2-Dichloroethene	0.80	Not Detected	3.2	Not Detected
1,1-Dichloroethane	0.80	Not Detected	3.2	Not Detected
cis-1,2-Dichloroethene	0.80	0.24 J	3.2	0.96 J
1,1,1-Trichloroethane	0.80	Not Detected	4.4	Not Detected
Trichloroethene	0.80	1.8	4.3	9.5
Tetrachloroethene	0.80	Not Detected	5.5	Not Detected
Toluene	0.80	0.32 J	3.0	1.2 J
1,4-Dichlorobenzene	0.80	Not Detected	4.8	Not Detected

J = Estimated value.

Container Type: 6 Liter Summa Canister

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	105	70-130
Toluene-d8	100	70-130
4-Bromofluorobenzene	97	70-130

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: IN-03

Lab ID#: 0805630BR2-13A

MODIFIED EPA METHOD TO-15 GC/MS

File Name:	**b060826R1**	**Date of Collection:**	**5/28/08**
Dil. Factor:	**1.52**	**Date of Analysis:**	**6/9/08 04:28 AM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Freon 12	0.76	Not Detected	3.8	Not Detected
Vinyl Chloride	0.76	Not Detected	1.9	Not Detected
Methylene Chloride	0.76	Not Detected	2.6	Not Detected
trans-1,2-Dichloroethene	0.76	Not Detected	3.0	Not Detected
1,1-Dichloroethane	0.76	Not Detected	3.1	Not Detected
cis-1,2-Dichloroethene	0.76	0.27 J	3.0	1.0 J
1,1,1-Trichloroethane	0.76	Not Detected	4.1	Not Detected
Trichloroethene	0.76	1.8	4.1	10
Tetrachloroethene	0.76	Not Detected	5.2	Not Detected
Toluene	0.76	0.19 J	2.9	0.72 J
1,4-Dichlorobenzene	0.76	Not Detected	4.6	Not Detected

J = Estimated value.

Container Type: 6 Liter Summa Canister

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	105	70-130
Toluene-d8	99	70-130
4-Bromofluorobenzene	96	70-130

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: IN-04

Lab ID#: 0805630BR2-14A

MODIFIED EPA METHOD TO-15 GC/MS

File Name:	**b060827R1**	**Date of Collection:**	**5/28/08**
Dil. Factor:	**1.52**	**Date of Analysis:**	**6/9/08 05:08 AM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Freon 12	0.76	Not Detected	3.8	Not Detected
Vinyl Chloride	0.76	Not Detected	1.9	Not Detected
Methylene Chloride	0.76	Not Detected	2.6	Not Detected
trans-1,2-Dichloroethene	0.76	Not Detected	3.0	Not Detected
1,1-Dichloroethane	0.76	Not Detected	3.1	Not Detected
cis-1,2-Dichloroethene	0.76	3.6 J	3.0	14
1,1,1-Trichloroethane	0.76	0.15 J	4.1	0.83 J
Trichloroethene	0.76	2.1	4.1	11
Tetrachloroethene	0.76	Not Detected	5.2	Not Detected
Toluene	0.76	0.18 J	2.9	0.69 J
1,4-Dichlorobenzene	0.76	Not Detected	4.6	Not Detected

J = Estimated value.

Container Type: 6 Liter Summa Canister

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	103	70-130
Toluene-d8	101	70-130
4-Bromofluorobenzene	96	70-130

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: IN-05

Lab ID#: 0805630BR2-15A

MODIFIED EPA METHOD TO-15 GC/MS

File Name:	**b060828R1**	**Date of Collection: 5/28/08**	
Dil. Factor:	**1.49**	**Date of Analysis: 6/9/08 05:50 AM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Freon 12	0.74	Not Detected	3.7	Not Detected
Vinyl Chloride	0.74	Not Detected	1.9	Not Detected
Methylene Chloride	0.74	Not Detected	2.6	Not Detected
trans-1,2-Dichloroethene	0.74	Not Detected	3.0	Not Detected
1,1-Dichloroethane	0.74	Not Detected	3.0	Not Detected
cis-1,2-Dichloroethene	0.74	0.42 J	3.0	1.7 J
1,1,1-Trichloroethane	0.74	0.12 J	4.1	0.66 J
Trichloroethene	0.74	2.2	4.0	12
Tetrachloroethene	0.74	Not Detected	5.0	Not Detected
Toluene	0.74	0.20 J	2.8	0.76 J
1,4-Dichlorobenzene	0.74	Not Detected	4.5	Not Detected

J = Estimated value.

Container Type: 6 Liter Summa Canister

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	104	70-130
Toluene-d8	100	70-130
4-Bromofluorobenzene	95	70-130

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: IN-06

Lab ID#: 0805630BR2-16A

MODIFIED EPA METHOD TO-15 GC/MS

File Name:	**b060829R1**	**Date of Collection:**	**5/28/08**
Dil. Factor:	**1.58**	**Date of Analysis:**	**6/9/08 06:25 AM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Freon 12	0.79	Not Detected	3.9	Not Detected
Vinyl Chloride	0.79	Not Detected	2.0	Not Detected
Methylene Chloride	0.79	Not Detected	2.7	Not Detected
trans-1,2-Dichloroethene	0.79	Not Detected	3.1	Not Detected
1,1-Dichloroethane	0.79	Not Detected	3.2	Not Detected
cis-1,2-Dichloroethene	0.79	0.31 J	3.1	1.2 J
1,1,1-Trichloroethane	0.79	0.099 J	4.3	0.54 J
Trichloroethene	0.79	1.9	4.2	10
Tetrachloroethene	0.79	Not Detected	5.4	Not Detected
Toluene	0.79	0.29 J	3.0	1.1 J
1,4-Dichlorobenzene	0.79	Not Detected	4.8	Not Detected

J = Estimated value.

Container Type: 6 Liter Summa Canister

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	104	70-130
Toluene-d8	101	70-130
4-Bromofluorobenzene	96	70-130

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: IN-07

Lab ID#: 0805630BR2-17A

MODIFIED EPA METHOD TO-15 GC/MS

File Name:	**b060906R1**	**Date of Collection:**	**5/28/08**
Dil. Factor:	**1.68**	**Date of Analysis:**	**6/9/08 12:07 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Freon 12	0.84	Not Detected	4.2	Not Detected
Vinyl Chloride	0.84	Not Detected	2.1	Not Detected
Methylene Chloride	0.84	Not Detected	2.9	Not Detected
trans-1,2-Dichloroethene	0.84	Not Detected	3.3	Not Detected
1,1-Dichloroethane	0.84	Not Detected	3.4	Not Detected
cis-1,2-Dichloroethene	0.84	0.33 J	3.3	1.3 J
1,1,1-Trichloroethane	0.84	Not Detected	4.6	Not Detected
Trichloroethene	0.84	2.2	4.5	12
Tetrachloroethene	0.84	Not Detected	5.7	Not Detected
Toluene	0.84	0.30 J	3.2	1.2 J
1,4-Dichlorobenzene	0.84	Not Detected	5.0	Not Detected

J = Estimated value.

Container Type: 6 Liter Summa Canister

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	104	70-130
Toluene-d8	101	70-130
4-Bromofluorobenzene	97	70-130

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: IN-08

Lab ID#: 0805630BR2-18A

MODIFIED EPA METHOD TO-15 GC/MS

File Name:	**b060907R1**	**Date of Collection: 5/28/08**	
Dil. Factor:	**1.46**	**Date of Analysis: 6/9/08 01:02 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Freon 12	0.73	Not Detected	3.6	Not Detected
Vinyl Chloride	0.73	Not Detected	1.9	Not Detected
Methylene Chloride	0.73	Not Detected	2.5	Not Detected
trans-1,2-Dichloroethene	0.73	Not Detected	2.9	Not Detected
1,1-Dichloroethane	0.73	Not Detected	3.0	Not Detected
cis-1,2-Dichloroethene	0.73	0.38 J	2.9	1.5 J
1,1,1-Trichloroethane	0.73	0.096 J	4.0	0.52 J
Trichloroethene	0.73	2.4	3.9	13
Tetrachloroethene	0.73	0.85	5.0	5.8
Toluene	0.73	4.1	2.8	15
1,4-Dichlorobenzene	0.73	Not Detected	4.4	Not Detected

J = Estimated value.

Container Type: 6 Liter Summa Canister

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	104	70-130
Toluene-d8	101	70-130
4-Bromofluorobenzene	96	70-130

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: IN-09

Lab ID#: 0805630BR2-19A

MODIFIED EPA METHOD TO-15 GC/MS

File Name:	**b060908R1**	**Date of Collection:**	**5/28/08**
Dil. Factor:	**1.52**	**Date of Analysis:**	**6/9/08 01:34 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Freon 12	0.76	Not Detected	3.8	Not Detected
Vinyl Chloride	0.76	Not Detected	1.9	Not Detected
Methylene Chloride	0.76	Not Detected	2.6	Not Detected
trans-1,2-Dichloroethene	0.76	Not Detected	3.0	Not Detected
1,1-Dichloroethane	0.76	Not Detected	3.1	Not Detected
cis-1,2-Dichloroethene	0.76	0.53 J	3.0	2.1 J
1,1,1-Trichloroethane	0.76	0.10 J	4.1	0.56 J
Trichloroethene	0.76	3.0	4.1	16
Tetrachloroethene	0.76	Not Detected	5.2	Not Detected
Toluene	0.76	0.28 J	2.9	1.1 J
1,4-Dichlorobenzene	0.76	Not Detected	4.6	Not Detected

J = Estimated value.

Container Type: 6 Liter Summa Canister

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	101	70-130
Toluene-d8	101	70-130
4-Bromofluorobenzene	96	70-130

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: IN-10

Lab ID#: 0805630BR2-20A

MODIFIED EPA METHOD TO-15 GC/MS

File Name:	**b060909R1**	**Date of Collection:**	**5/28/08**
Dil. Factor:	**1.68**	**Date of Analysis:**	**6/9/08 02:08 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Freon 12	0.84	Not Detected	4.2	Not Detected
Vinyl Chloride	0.84	Not Detected	2.1	Not Detected
Methylene Chloride	0.84	Not Detected	2.9	Not Detected
trans-1,2-Dichloroethene	0.84	Not Detected	3.3	Not Detected
1,1-Dichloroethane	0.84	Not Detected	3.4	Not Detected
cis-1,2-Dichloroethene	0.84	0.35 J	3.3	1.4 J
1,1,1-Trichloroethane	0.84	Not Detected	4.6	Not Detected
Trichloroethene	0.84	2.1	4.5	11
Tetrachloroethene	0.84	Not Detected	5.7	Not Detected
Toluene	0.84	0.36 J	3.2	1.4 J
1,4-Dichlorobenzene	0.84	Not Detected	5.0	Not Detected

J = Estimated value.

Container Type: 6 Liter Summa Canister

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	100	70-130
Toluene-d8	101	70-130
4-Bromofluorobenzene	95	70-130

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: IN-10 Lab Duplicate

Lab ID#: 0805630BR2-20AA

MODIFIED EPA METHOD TO-15 GC/MS

File Name:	**b060910R1**	**Date of Collection: 5/28/08**	
Dil. Factor:	**1.68**	**Date of Analysis: 6/9/08 02:55 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Freon 12	0.84	Not Detected	4.2	Not Detected
Vinyl Chloride	0.84	Not Detected	2.1	Not Detected
Methylene Chloride	0.84	Not Detected	2.9	Not Detected
trans-1,2-Dichloroethene	0.84	Not Detected	3.3	Not Detected
1,1-Dichloroethane	0.84	Not Detected	3.4	Not Detected
cis-1,2-Dichloroethene	0.84	0.35 J	3.3	1.4 J
1,1,1-Trichloroethane	0.84	0.12 J	4.6	0.66 J
Trichloroethene	0.84	2.0	4.5	11
Tetrachloroethene	0.84	Not Detected	5.7	Not Detected
Toluene	0.84	0.32 J	3.2	1.2 J
1,4-Dichlorobenzene	0.84	Not Detected	5.0	Not Detected

J = Estimated value.

Container Type: 6 Liter Summa Canister

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	99	70-130
Toluene-d8	101	70-130
4-Bromofluorobenzene	95	70-130

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: DUP-02

Lab ID#: 0805630BR2-21A

MODIFIED EPA METHOD TO-15 GC/MS

File Name:	**b060911**	**Date of Collection: 5/28/08**	
Dil. Factor:	**790**	**Date of Analysis: 6/9/08 03:29 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Freon 12	400	Not Detected	2000	Not Detected
Vinyl Chloride	400	Not Detected	1000	Not Detected
Methylene Chloride	400	Not Detected	1400	Not Detected
trans-1,2-Dichloroethene	400	Not Detected	1600	Not Detected
1,1-Dichloroethane	400	420	1600	1700
cis-1,2-Dichloroethene	400	15000	1600	61000
1,1,1-Trichloroethane	400	710	2200	3900
Trichloroethene	400	80000	2100	430000
Tetrachloroethene	400	Not Detected	2700	Not Detected
Toluene	400	910	1500	3400
1,4-Dichlorobenzene	400	Not Detected	2400	Not Detected

Container Type: 6 Liter Summa Canister

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	98	70-130
Toluene-d8	101	70-130
4-Bromofluorobenzene	97	70-130

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: DUP-01

Lab ID#: 0805630BR2-22A

MODIFIED EPA METHOD TO-15 GC/MS

File Name:	**b060918R1**	**Date of Collection:**	**5/28/08**
Dil. Factor:	**1.64**	**Date of Analysis:**	**6/9/08 08:44 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Freon 12	0.82	Not Detected	4.0	Not Detected
Vinyl Chloride	0.82	Not Detected	2.1	Not Detected
Methylene Chloride	0.82	Not Detected	2.8	Not Detected
trans-1,2-Dichloroethene	0.82	Not Detected	3.2	Not Detected
1,1-Dichloroethane	0.82	Not Detected	3.3	Not Detected
cis-1,2-Dichloroethene	0.82	0.32 J	3.2	1.3 J
1,1,1-Trichloroethane	0.82	Not Detected	4.5	Not Detected
Trichloroethene	0.82	2.1	4.4	11
Tetrachloroethene	0.82	Not Detected	5.6	Not Detected
Toluene	0.82	0.61 J	3.1	2.3 J
1,4-Dichlorobenzene	0.82	Not Detected	4.9	Not Detected

J = Estimated value.

Container Type: 6 Liter Summa Canister

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	99	70-130
Toluene-d8	100	70-130
4-Bromofluorobenzene	94	70-130

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: BKGD-01

Lab ID#: 0805630BR2-23A

MODIFIED EPA METHOD TO-15 GC/MS

File Name:	**b060919R1**	**Date of Collection:**	**5/28/08**
Dil. Factor:	**1.55**	**Date of Analysis:**	**6/9/08 09:36 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Freon 12	0.78	Not Detected	3.8	Not Detected
Vinyl Chloride	0.78	Not Detected	2.0	Not Detected
Methylene Chloride	0.78	Not Detected	2.7	Not Detected
trans-1,2-Dichloroethene	0.78	Not Detected	3.1	Not Detected
1,1-Dichloroethane	0.78	Not Detected	3.1	Not Detected
cis-1,2-Dichloroethene	0.78	0.24 J	3.1	0.97 J
1,1,1-Trichloroethane	0.78	Not Detected	4.2	Not Detected
Trichloroethene	0.78	1.6	4.2	8.7
Tetrachloroethene	0.78	Not Detected	5.2	Not Detected
Toluene	0.78	0.25 J	2.9	0.94 J
1,4-Dichlorobenzene	0.78	Not Detected	4.6	Not Detected

J = Estimated value.

Container Type: 6 Liter Summa Canister

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	101	70-130
Toluene-d8	100	70-130
4-Bromofluorobenzene	96	70-130

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: BKGD-02

Lab ID#: 0805630BR2-24A

MODIFIED EPA METHOD TO-15 GC/MS

File Name:	**b060920**	**Date of Collection:**	**5/28/08**
Dil. Factor:	**1.64**	**Date of Analysis:**	**6/9/08 11:54 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Freon 12	0.82	Not Detected	4.0	Not Detected
Vinyl Chloride	0.82	Not Detected	2.1	Not Detected
Methylene Chloride	0.82	Not Detected	2.8	Not Detected
trans-1,2-Dichloroethene	0.82	Not Detected	3.2	Not Detected
1,1-Dichloroethane	0.82	Not Detected	3.3	Not Detected
cis-1,2-Dichloroethene	0.82	Not Detected	3.2	Not Detected
1,1,1-Trichloroethane	0.82	Not Detected	4.5	Not Detected
Trichloroethene	0.82	Not Detected	4.4	Not Detected
Tetrachloroethene	0.82	Not Detected	5.6	Not Detected
Toluene	0.82	Not Detected	3.1	Not Detected
1,4-Dichlorobenzene	0.82	Not Detected	4.9	Not Detected

Container Type: 6 Liter Summa Canister

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	102	70-130
Toluene-d8	101	70-130
4-Bromofluorobenzene	95	70-130

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: BKGD-02A

Lab ID#: 0805630BR2-25A

MODIFIED EPA METHOD TO-15 GC/MS

File Name:	**b060921**	**Date of Collection: 5/28/08**	
Dil. Factor:	**1.34**	**Date of Analysis: 6/10/08 12:33 AM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Freon 12	0.67	Not Detected	3.3	Not Detected
Vinyl Chloride	0.67	Not Detected	1.7	Not Detected
Methylene Chloride	0.67	Not Detected	2.3	Not Detected
trans-1,2-Dichloroethene	0.67	Not Detected	2.6	Not Detected
1,1-Dichloroethane	0.67	Not Detected	2.7	Not Detected
cis-1,2-Dichloroethene	0.67	Not Detected	2.6	Not Detected
1,1,1-Trichloroethane	0.67	Not Detected	3.6	Not Detected
Trichloroethene	0.67	Not Detected	3.6	Not Detected
Tetrachloroethene	0.67	Not Detected	4.5	Not Detected
Toluene	0.67	Not Detected	2.5	Not Detected
1,4-Dichlorobenzene	0.67	Not Detected	4.0	Not Detected

Container Type: 6 Liter Summa Canister

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	100	70-130
Toluene-d8	101	70-130
4-Bromofluorobenzene	95	70-130

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: Trip Blank

Lab ID#: 0805630BR2-26A

MODIFIED EPA METHOD TO-15 GC/MS

File Name:	**b060922**	**Date of Collection: 5/28/08**	
Dil. Factor:	**1.00**	**Date of Analysis: 6/10/08 01:18 AM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Freon 12	0.50	Not Detected	2.5	Not Detected
Vinyl Chloride	0.50	Not Detected	1.3	Not Detected
Methylene Chloride	0.50	Not Detected	1.7	Not Detected
trans-1,2-Dichloroethene	0.50	Not Detected	2.0	Not Detected
1,1-Dichloroethane	0.50	Not Detected	2.0	Not Detected
cis-1,2-Dichloroethene	0.50	Not Detected	2.0	Not Detected
1,1,1-Trichloroethane	0.50	Not Detected	2.7	Not Detected
Trichloroethene	0.50	Not Detected	2.7	Not Detected
Tetrachloroethene	0.50	Not Detected	3.4	Not Detected
Toluene	0.50	Not Detected	1.9	Not Detected
1,4-Dichlorobenzene	0.50	Not Detected	3.0	Not Detected

Container Type: 6 Liter Summa Canister

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	102	70-130
Toluene-d8	100	70-130
4-Bromofluorobenzene	95	70-130

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: Lab Blank

Lab ID#: 0805630BR2-27A

MODIFIED EPA METHOD TO-15 GC/MS

File Name:	**b060805R1**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 6/8/08 10:52 AM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Freon 12	0.50	Not Detected	2.5	Not Detected
Vinyl Chloride	0.50	Not Detected	1.3	Not Detected
Methylene Chloride	0.50	Not Detected	1.7	Not Detected
trans-1,2-Dichloroethene	0.50	Not Detected	2.0	Not Detected
1,1-Dichloroethane	0.50	Not Detected	2.0	Not Detected
cis-1,2-Dichloroethene	0.50	Not Detected	2.0	Not Detected
1,1,1-Trichloroethane	0.50	Not Detected	2.7	Not Detected
Trichloroethene	0.50	Not Detected	2.7	Not Detected
Tetrachloroethene	0.50	Not Detected	3.4	Not Detected
Toluene	0.50	Not Detected	1.9	Not Detected
1,4-Dichlorobenzene	0.50	Not Detected	3.0	Not Detected

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	102	70-130
Toluene-d8	100	70-130
4-Bromofluorobenzene	96	70-130

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: Lab Blank

Lab ID#: 0805630BR2-27B

MODIFIED EPA METHOD TO-15 GC/MS

File Name:	**b060905R1**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 6/9/08 11:18 AM**	

Compound	**Rpt. Limit (ppbv)**	**Amount (ppbv)**	**Rpt. Limit (uG/m3)**	**Amount (uG/m3)**
Freon 12	0.50	Not Detected	2.5	Not Detected
Vinyl Chloride	0.50	Not Detected	1.3	Not Detected
Methylene Chloride	0.50	Not Detected	1.7	Not Detected
trans-1,2-Dichloroethene	0.50	Not Detected	2.0	Not Detected
1,1-Dichloroethane	0.50	Not Detected	2.0	Not Detected
cis-1,2-Dichloroethene	0.50	Not Detected	2.0	Not Detected
1,1,1-Trichloroethane	0.50	Not Detected	2.7	Not Detected
Trichloroethene	0.50	Not Detected	2.7	Not Detected
Tetrachloroethene	0.50	Not Detected	3.4	Not Detected
Toluene	0.50	0.10 J	1.9	0.40 J
1,4-Dichlorobenzene	0.50	Not Detected	3.0	Not Detected

J = Estimated value.

Container Type: NA - Not Applicable

Surrogates	**%Recovery**	**Method Limits**
1,2-Dichloroethane-d4	102	70-130
Toluene-d8	100	70-130
4-Bromofluorobenzene	95	70-130

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: CCV

Lab ID#: 0805630BR2-28A

MODIFIED EPA METHOD TO-15 GC/MS

File Name:	**b060802**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 6/8/08 08:47 AM**	

Compound	**%Recovery**
Freon 12	109
Vinyl Chloride	109
Methylene Chloride	102
trans-1,2-Dichloroethene	108
1,1-Dichloroethane	107
cis-1,2-Dichloroethene	103
1,1,1-Trichloroethane	110
Trichloroethene	100
Tetrachloroethene	101
Toluene	101
1,4-Dichlorobenzene	112

Container Type: NA - Not Applicable

Surrogates	**%Recovery**	**Method Limits**
1,2-Dichloroethane-d4	103	70-130
Toluene-d8	100	70-130
4-Bromofluorobenzene	96	70-130

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: CCV

Lab ID#: 0805630BR2-28B

MODIFIED EPA METHOD TO-15 GC/MS

File Name:	**b060902**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 6/9/08 09:24 AM**	

Compound	**%Recovery**
Freon 12	112
Vinyl Chloride	112
Methylene Chloride	102
trans-1,2-Dichloroethene	108
1,1-Dichloroethane	108
cis-1,2-Dichloroethene	103
1,1,1-Trichloroethane	111
Trichloroethene	100
Tetrachloroethene	98
Toluene	100
1,4-Dichlorobenzene	98

Container Type: NA - Not Applicable

Surrogates	**%Recovery**	**Method Limits**
1,2-Dichloroethane-d4	104	70-130
Toluene-d8	100	70-130
4-Bromofluorobenzene	98	70-130

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: LCS

Lab ID#: 0805630BR2-29A

MODIFIED EPA METHOD TO-15 GC/MS

File Name:	**b060803**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 6/8/08 09:25 AM**	

Compound	**%Recovery**
Freon 12	115
Vinyl Chloride	112
Methylene Chloride	117
trans-1,2-Dichloroethene	115
1,1-Dichloroethane	119
cis-1,2-Dichloroethene	112
1,1,1-Trichloroethane	119
Trichloroethene	108
Tetrachloroethene	107
Toluene	113
1,4-Dichlorobenzene	100

Container Type: NA - Not Applicable

Surrogates	**%Recovery**	**Method Limits**
1,2-Dichloroethane-d4	102	70-130
Toluene-d8	101	70-130
4-Bromofluorobenzene	97	70-130

AN ENVIRONMENTAL ANALYTICAL LABORATORY

Client Sample ID: LCS

Lab ID#: 0805630BR2-29B

MODIFIED EPA METHOD TO-15 GC/MS

File Name:	**b060903**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 6/9/08 10:01 AM**	

Compound	**%Recovery**
Freon 12	119
Vinyl Chloride	116
Methylene Chloride	118
trans-1,2-Dichloroethene	115
1,1-Dichloroethane	120
cis-1,2-Dichloroethene	112
1,1,1-Trichloroethane	121
Trichloroethene	106
Tetrachloroethene	104
Toluene	111
1,4-Dichlorobenzene	100

Container Type: NA - Not Applicable

Surrogates	**%Recovery**	**Method Limits**
1,2-Dichloroethane-d4	106	70-130
Toluene-d8	101	70-130
4-Bromofluorobenzene	98	70-130

Air Toxics LTD.

CHAIN-OF-CUSTODY RECORD

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180 BLUE RAVINE ROAD, SUITE B
FOLSOM, CA 95630-4719
(916) 985-1000 FAX (916) 985-1020

Page ____ of ____

Project Manager: Jim Buss
Collected by: (Print and Sign) Lance Bakken
Company: RMT Email:
Address: 744 Heartland Trl City: Madison State: WI Zip: 53717
Phone: Fax:

Project Info:
P.O. #:
Project #: 2541.27
Project Name: Roscoe

Turn Around Time: ❑ Normal ❑ Rush ____ specify

Lab Use Only: Pressurized by: Date: Pressurization Gas: N_2 He

Lab I.D.	Field Sample I.D. (Location)	Can #	Date of Collection	Time of Collection	Analyses Requested	Canister Pressure/Vacuum Initial	Final	Receipt	Final (psi)
11A	IN-01	2184	5/28/08	1531	Method TO-15 See emailed list from Jim Buss	-32	-5		
12A	IN-02	13674	5/28/08	1506		-30	-5		
13A	IN-03	4226	5/28/08	1324		-31	-5		
14A	IN-04	34270	5/28/08	1622		-30	-5		
15A	IN-05	33781	5/28/08	1720		-34	-5.5		
16A	IN-06	21009	5/28/08	1530		-30	-5		
17A	IN-07	13857	5/28/08	1453		-30	-6		
18A	IN-08	34363	5/28/08	~~1712~~ 17:12		-33	-5.5		
19A	IN-09	21108	5/28/08	15:51		-28	-5.5		
20A	IN-10	33923	5/28/08	1450		-28	-5		

Relinquished by: (signature)	Date/Time	Received by: (signature)	Date/Time
Lance Bakken	5/29/08 1000	AIL	05-30-08 0930
Relinquished by: (signature)	Date/Time	Received by: (signature)	Date/Time
Relinquished by: (signature)	Date/Time	Received by: (signature)	Date/Time

Notes:

Lab Use Only	Shipper Name	Air Bill #	Temp (°C)	Condition	Custody Seals Intact?	Work Order #
	Fedex		na	good	Yes No (None)	0805630

Form 1293 rev.11

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Sample Transportation Notice
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180 BLUE RAVINE ROAD, SUITE B
FOLSOM, CA 95630-4719
(916) 985-1000 FAX (916) 985-1020

Page ____ of ____

Project Manager: Jim Buss
Collected by: (Print and Sign) Lance Bakken for Jim
Company: RMT Email:
Address: 744 Heartland Tr City: Madison State: WI Zip: 53717
Phone: 608-831-4444 Fax:

Project Info:
P.O. #:
Project #: 2541.27
Project Name: Roscoe

Turn Around Time:
❑ Normal
❑ Rush
specify

Lab Use Only
Pressurized by:
Date:
Pressurization Gas: N_2 He

Lab I.D.	Field Sample I.D. (Location)	Can #	Date of Collection	Time of Collection	Analyses Requested	Canister Pressure/Vacuum Initial	Final	Receipt	Final (psi)
21A	DUP-02	1176	5/28/08		Method TO-15 See emailed list from Jim Buss	-29	-5		
22A	DUP-01	2850	5/28/08			-28	-5		
23A	BKGD-01	33977	5/28/08	1613		-29	-5		
24A	BKGD-02	5677	5/28/08	1730		-32	-6.5		
25A	BKGD-02A	32106	5/28/08	84		-30	-5		
26A	Trip Blank	9407							

Relinquished by: (signature)	Date/Time	Received by: (signature)	Date/Time
Tom Mark	5/29/08 10:00	ATL	05-30-08 0930
Relinquished by: (signature)	Date/Time	Received by: (signature)	Date/Time
Relinquished by: (signature)	Date/Time	Received by: (signature)	Date/Time

Notes:

Lab Use Only	Shipper Name	Air Bill #	Temp (°C)	Condition	Custody Seals Intact?	Work Order #
	Fedex		0.0	Good	Yes No None	0805630

Form 1293 rev.1

Appendix C
Soil Vapor Extraction Pilot-Scale Test Technical Memorandum

RMT

Technical Memorandum

Date: January 30, 2009

To: Craig Campbell – Dana Holding Corporation
Paul Renberg – Dana Holding Corporation
Rich Fahey – Vory, Sater, Seymour, and Pease LLP

From: Jim Buss

Project No: 2541.27

Subject: Findings and Conclusions – Soil Vapor Extraction Pilot-Scale Test, Former Warner Electric, Roscoe, Illinois.

Background and Conclusions

This memorandum summarizes the results of the soil vapor extraction (SVE) pilot-scale test conducted at the Dana Holding Corporation (Dana) former Warner Electric facility (Warner) in Roscoe, Illinois. The test, which was conducted in substantial conformance with the *Workplan to Amend Administrative Order on Consent, Warner Electric Brake and Clutch Division, Roscoe, Illinois* (RMT, 2007), was designed to evaluate the full-scale system design, operating parameters, and the likely operational time frame needed to reduce vadose zone chlorinated volatile organic compound (CVOC) concentrations. The goal of the remedial effort is to reduce CVOC concentrations in vadose zone soils to levels that will not result in an exceedence of indoor vapor concentrations above the risk screening concentrations established for the facility, or contribute to existing groundwater impacts at levels that cannot be addressed through monitored natural attenuation (MNA).

In early 2006, Dana conducted a passive soil-gas (PSG) sampling program to identify potential CVOC source areas at the former Warner facility. This program identified two principal areas (East Area and West Area) as shown on Figure 1. The highest mass of CVOCs is in the southern portion of the East Area, proximate to the location of the former TCE storage area. The West Area, while showing lower CVOC mass in the PSG program, extends over a slightly larger area and includes the former Vapor Degreaser #1231.

The Warner facility is underlain by a 25-foot—thick vadose zone composed of granular outwash, ranging from a silty sand near the ground surface to sand with gravel below 15 feet. While these soil materials are well suited to remediation by SVE, a discontinuous silt layer, typically 0.2 to 2 feet thick, was encountered in the southern portion of the site between depths of 9 and 11 feet. To address the influence of this layer, soil borings were conducted to identify its extent; and the pilot-scale test was instrumented with shallow, intermediate, and deep extraction wells and monitoring points.

The SVE pilot-scale test was conducted in the southern portion of the East Area, as shown on Figure 1. The test, which included step and constant rate tests, was conducted over a 2 day period. The results

show that SVE will be needed at up to 18 locations, although the system should be able to operate up to eight well points concurrently. Based on RMT's experience at sites similar to Roscoe, and on RMT's professional judgment, the operational time frame is estimated to be approximately 12 to 18 months at each location. The maximum system operational time frame is estimated to be 3 to 4 years. This time frame may be shortened by cycling the operation of individual extraction points to maximize subsurface CVOC removal in the vapor phase.

Silt Layer Delineation

During the 2006 soil boring program, a fine-grained silt layer approximately 0.2 to 2 feet thick was encountered at depths of 9 to 11 feet in borings B-11 and B-12 in the southern portion of the East Area, near the former TCE storage area. To evaluate the continuity of this layer, logs from four borings drilled south of the storage area (SD-1 though SD-4) and from 14 borings drilled north of the storage area (B-13 through B-17, EX-1, MP-1 through MP-4, and MW-101 through MW-104) were reviewed for the presence of silt layers. The results, which are listed on Figure 2, adjacent to respective borings, show that the layer was not encountered at seven locations, occurs at depths ranging from 2 to 15 feet, and has variable thickness. This suggests that the layer is discontinuous beneath the facility. This finding was confirmed during the pilot-scale test, when extraction and monitoring points from zones above (shallow), at (intermediate), and below (deep) the silt layer were tested. The test showed that extraction from either shallow, intermediate, or deep wells resulted in influence extending across all three monitoring points (shallow, intermediate, and deep).

SVE Pilot-Scale Test Permitting

Before conducting the SVE test, a Joint Construction and Lifetime Operating Permit was obtained from the Illinois Environmental Protection Agency (IEPA). The permit, I.D. Number 201810AAK, issued on January 3, 2008, required that carbon absorption be added to the system to reduce CVOC emissions. Attachment 1 contains a copy of the permit. The permit language states that volatile organic materials (VOMs) may be emitted at up to 8.0 lbs/hr. VOMs are equivalent to volatile organic compounds. Inlet samples collected during the test showed that VOM recovery rates ranged from 1.4 to 2.1 lb/hour. The exhaust emission rate ranged from 0.02 to 0.1 lb/hour, well below the permitted limit. Although the inlet recovery rates were below the 8.0 lb/hr rate, concurrent extraction from up to eight SVE wells during the full-scale system operation may require continued carbon treatment of the system exhaust.

Pilot-Scale Test Design

Dana installed the SVE system near the southern portion of the facility where an elevated mass of CVOCs was detected during the passive soil gas (PSG) survey in 2006. The system consists of the following components:

- 60-horsepower positive displacement rotary lobe—type vacuum blower and foot-mounted motor
- Two vapor phase, granular-activated carbon (GAC) canisters (diameter 72", height 73"), each containing approximately 4,000 lbs VC-Sorb 4 X 8 coconut shell activated carbon
- Vapor-phase flow meters

- Vertical silencer
- Electrical control panel
- Miscellaneous piping, tubing, connectors, and valves

Boart Longyear, Inc., and Matrix Environmental, Inc., installed 4-inch—diameter extraction wells (EX-1, EX-2, and EX-3) and monitoring points (MP-1A/C, MP-2A/C, and MP-3A/C), respectively. Attachment 2 contains boring logs and construction reports. Shallow (5 to 10 feet bgs), intermediate (14 to 19 feet bgs), and deep (19 to 24 feet bgs) extraction wells and monitoring points were used to evaluate the influence of the silt layer on system performance.

Separate tests were conducted on the shallow, intermediate, and deep extraction wells. At each well, a step test and a constant rate test were conducted. The step test consisted of operating the extraction system at three different vacuum levels, until vacuum levels stabilized. Recorded data included influent and effluent PID readings or gas samples that were laboratory-analyzed for CVOCs, vacuum measurements at extraction wells and outlying monitoring points, and airflow rates. This test is used to optimize vacuum and airflow rates.

The constant rate test followed the step test for each extraction well. This test consisted of operating the pilot test at the highest sustainable vacuum, until vacuum levels stabilized. Recorded data again included influent and effluent PID readings or gas samples that were laboratory-analyzed for CVOCs, vacuum measurements at extraction wells and outlying monitoring points, and airflow rates. This test is used to evaluate radius of influence (ROI) and CVOC recovery rates.

Pilot-Scale Test Findings

Attachment 3 contains tabulated data and charts that summarize the test data and trends, while Attachment 4 contains the laboratory reports. For each test, influence was observed at all three depth intervals. However, for ROI evaluation, only the monitoring points (MPs) that corresponded to the test depth were evaluated (e.g., for the shallow SVE test, the shallow monitoring points [MP-1A, MP-2A, and MP-3A] were evaluated). The following sections summarize the results of the shallow, intermediate, and deep SVE tests.

Test on Shallow Extraction Well

— Vacuums for the shallow well point step test were 4, 7.6, and 8.7 inches of mercury (in Hg), as measured at the wellhead. The corresponding wellhead flow rates stabilized at 198, 319, and 363 standard cubic feet per minute (scfm). Stabilization was typically achieved within 30 minutes, due to the granular nature of the formation.

— The hand-held PID instrument did not function properly on the first day; therefore, additional VOC samples for laboratory analysis were collected using tedlar bags.

— The constant rate test operated at an applied vacuum of 9.2 in Hg for approximately 1 hour. The corresponding flow rate was 380 scfm.

- Total VOCs in the inlet remained steady, at approximately 200 ppmv, for the entire test. As expected, the laboratory results showed that TCE and cis-DCE were detected at the highest concentrations (> 95% of the total). The maximum VOC recovery rate was 1.5 lbs/hr, and the TCE recovery rate was 1.2 lbs/hr.
- Total VOCs in the exhaust fluctuated between 2 and 11 ppmv. The VOC emission rate was between 0.02 and 0.08 lbs/hr, well below the permit limit of 8 lbs/hr.
- The radius of influence for the constant rate test was approximately 50 feet, based on 1% of the source vacuum at this distance (Buscheck and Peargin, 1991).

Test on Intermediate Extraction Well

- Applied vacuums for the intermediate well point step test were 4.5, 7.2, and 9 in Hg, as measured at the wellhead. The corresponding wellhead flow rates stabilized at 224, 354, and 434 scfm. Stabilization was again achieved within 30 minutes.
- Inlet and exhaust samples were taken using both the hand-held PID and tedlar bags using a hand-held vacuum pump. The field-measured PID results and the laboratory-based total VOCs (as ppmv) showed good correlation.
- The constant rate test operated at an applied vacuum of 11.2 in Hg for approximately 1 hour. The corresponding flow rate was 560 scfm.
- Total VOCs in the inlet remained steady, between 180 and 190 ppmv. TCE and cis-DCE were again the CVOCs with the highest concentrations (> 95% of the total). The maximum VOC recovery rate was 2.1 lbs/hr and the TCE recovery rate ranged from 1.7 to 1.8 lbs/hr.
- Total VOCs in the exhaust fluctuated between 5 and 9 ppmv. The VOC emission rate was between 0.06 and 0.10 lbs/hr, well below the permit limit of 8 lbs/hr.
- The radius of influence for the constant rate test was approximately 70 feet, based on 1% of the source vacuum at this distance.

Test on SVE-Deep

- The applied vacuums for the deep well point step test were 4, 7, and 9.5 in Hg, as measured at the wellhead. The corresponding wellhead flow rates stabilized at 376, 525, and 618 scfm. Stabilization was achieved within 30 minutes.
- Inlet and exhaust samples were taken using both the hand-held PID and tedlar bags using a hand-held vacuum pump. The results showed good correlation.
- The constant rate test operated at an applied vacuum of 12 in Hg for approximately 1 hour. The corresponding flow rate was 772 scfm.
- Total VOCs in the inlet were between 90 and 120 ppmv. TCE and cis-DCE were again the CVOCs with the highest concentrations (> 95% of the total). The maximum VOC recovery rate was 1.7 lbs/hr, and the TCE recovery rate ranged from 1.1 to 1.4 lbs/hr.

- Total VOCs in the exhaust fluctuated between 2 and 5 ppmv. The VOC emission rate was between 0.03 and 0.07 lbs/hr, well below the permit limit of 8 lbs/hr.
- The radius of influence for the deep constant rate test was approximately 80 feet, based on 1% of the source vacuum at this distance.

Conclusions and Recommendations

Overall, the results show that SVE is a viable technology for the site to remove TCE and related degradation byproducts from the vadose zone soil beneath the facility. Test results for the intermediate and deep SVE wells had larger ROI (70 to 80 feet) than the shallow well (50 feet). This reflects the higher vacuums used on the second day of the test and indicates stronger lateral (vs. vertical) airflow at depth. For the full-scale system design, RMT recommends a ROI of 70 feet for extraction wells located in the West Area where CVOC mass is lower. In the East Area, where the CVOC mass is higher, RMT recommends an ROI of 50 feet. Figure 3 depicts the layout of the SVE wells, based on these recommendations and shows a total of 18 total wells (including the EX-1, -2, and -3 installed for the pilot-scale test).

Regardless of which zone was being used for extraction. the system influence extended across the shallow, intermediate, and deep zones. This suggests that the silt layers, typically observed at approximately 9 to 10 feet bgs, are not acting as confining layers. Based on this finding, RMT recommends single wells, with screens positioned at approximately 5 to 15 feet bgs. This well configuration should be sufficient for SVE at most locations. In the area of highest CVOC mass, in the East Area near the former TCE storage area, RMT recommends installation of separate shallow (4 to 9 feet deep bgs) and deep (15 to 20 feet bgs) extraction wells. These nested wells will offer greater flexibility during the full-scale system operation in the area most likely to require extended treatment.

The vacuum blower installed for the test has a rated capacity of 1,200 scfm at 15 in Hg. During the pilot-scale test, the blower was operated at 380 to 770 scfm with 9.2 to 12 in Hg during the constant rate tests and generated an ROI ranging from 50 to 80 feet. Given that the ROI may increase over time and our experience with sites similar to Warner, we expect that a discharge rate of 150 scfm will achieve the 50- to 70-foot ROI. Based on this, we anticipate that the system will likely be able to concurrently treat 8 extraction wells.

Professional judgment suggests that the anticipated cleanup time frame for each extraction well is approximately 12 to 18 months. Assuming operation of eight wells concurrently, we estimate the cleanup duration will be on the order of 3 to 4 years. During full-scale system operation, cycling the extraction well operation when inlet concentrations show reduced CVOC recovery, will lead to maximum CVOC removal and faster cleanup. Additional operational efficiency may be gained by directing the treated system exhaust (which is heated as a result of compression in the blower) into the subsurface. This approach would likely provide the most benefit at extraction points showing substantial rebound during the cycled system operation.

The inlet recovery rates were below the IEPA limit of 8 lbs/hr of VOM. This suggests that off-gas treatment with carbon may not be necessary. However, if extraction is conducted at up to eight wells

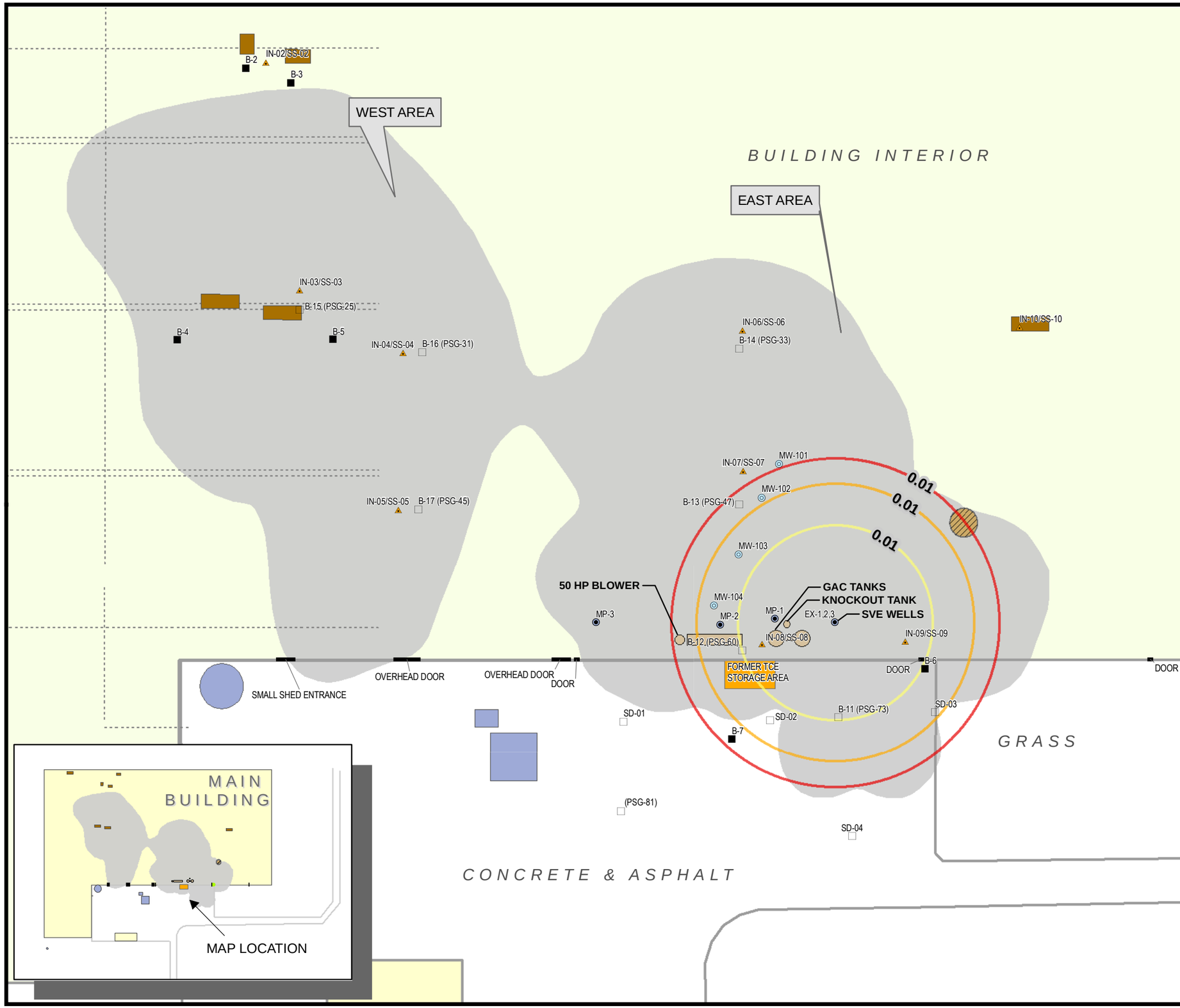
simultaneously during the full-scale system operation, the 8 lb/hr emission rate may be exceeded and carbon treatment of the off-gas would be needed. This will need to be addressed in a permit amendment prior to development of the full-scale system.

References

Buscheck, T. and T.R. Peargin. 1991. Summary of a nation-wide vapor extraction system performance study. *Proceedings: Petroleum Hydrocarbons and Organic Chemicals in Ground Water*. NGWA/API, Dublin, Ohio. pp. 205-19. November 1991.

List of Attachments

- Figure 1 – Site Layout and Radius of Influence for SVE Pilot-Scale Test
- Figure 2 – Silt Layer Thickness and Distribution
- Figure 3 – Distribution of Extraction Wells for Full-Scale SVE
- Attachment 1 – IEPA Air Discharge Permit
- Attachment 2 – Boring Logs and Well Construction Reports
- Attachment 3 – Tabulated Test Data and Charts
- Attachment 4 – Laboratory Data Reports



LEGEND

- LIMITS OF SOIL REQUIRING SVE REMEDIATION
- DEEP SOIL VAPOR EXTRACTION WELL NEST & MONITORING POINTS
- GROUNDWATER SCREENING SAMPLE
- MONITORING WELL
- SOIL GAS & SUBSLAB SOIL VAPOR SAMPLE LOCATION
- SOIL BORING LOCATION BY EKI (NO LOG AVAILABLE)
- SOIL BORING LOCATION BY RMT (LOG AVAILABLE)
- DOOR
- BUILDING OUTLINES
- SOIL GAS EXTRACTION SYSTEM
- FORMER TCE STORAGE AREA
- FORMER DEGREASER LOCATION
- FORMER FURNACE LOCATION
- FORMER TANK LOCATION
- ROAD/ASPHALT EDGE
- TRENCH SYSTEM (ABANDONED)

SVE APPROXIMATE RADIUS OF INFLUENCE

- SHALLOW ZONE
- INTERMEDIATE ZONE
- DEEP ZONE

NOTES

1. MONITORING POINTS LOCATED BY GPS, "DISTANCE –FROM-POINT" MEASUREMENTS OR FROM APPROXIMATION.

N

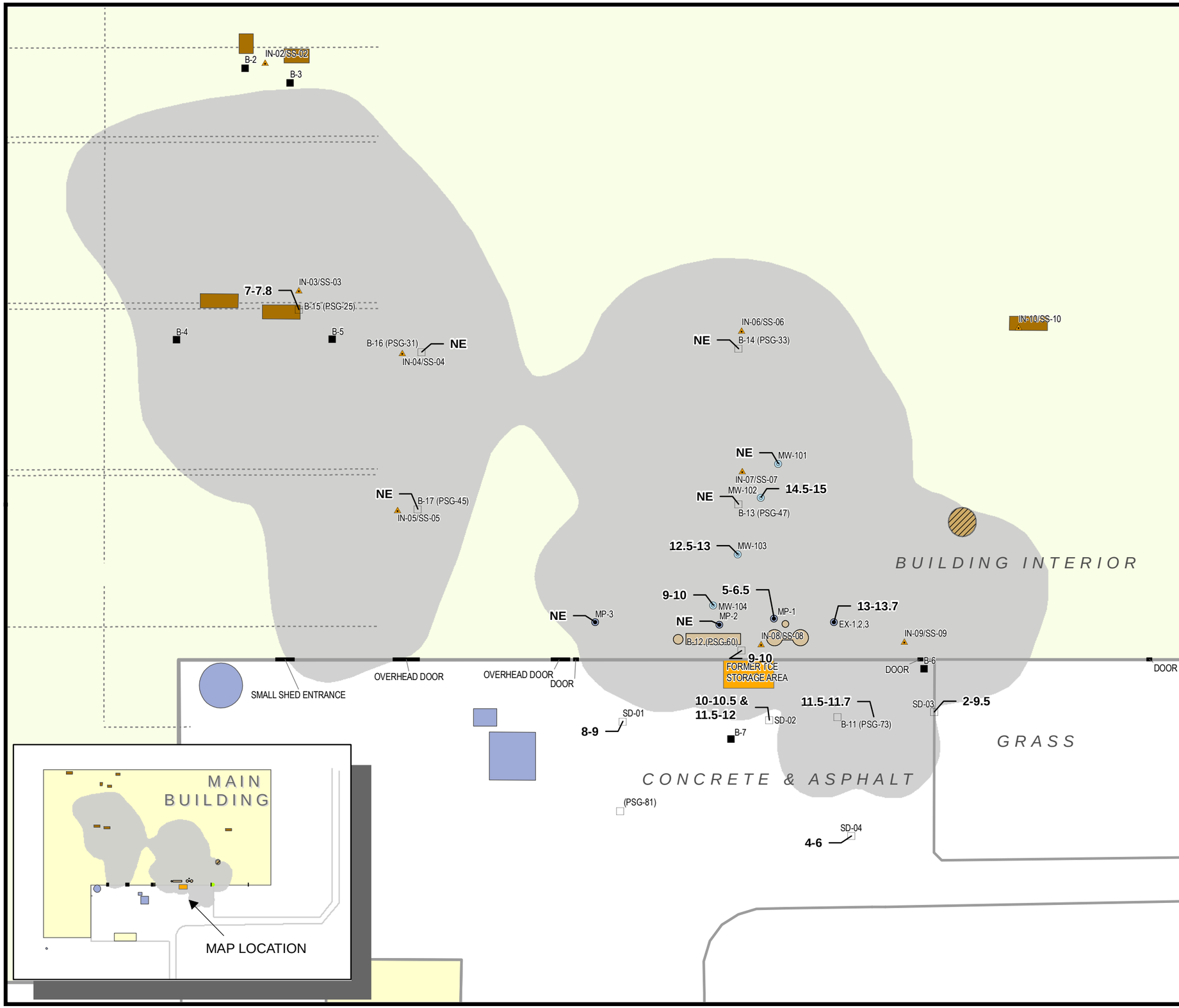
0 50 100 FEET

1 " = 50 '
1:600

PROJECT: DANA CORPORATION FORMER WARNER ELECTRIC DIVISION ROSCOE, ILLINOIS			
SHEET TITLE: SVE PILOT TEST SITE LAYOUT AND RADIUS OF INFLUENCE			
DRAWN BY: MCKEEFRY J	SCALE: AS NOTED	PROJ. NO. 00-02541.27	
CHECKED BY: BUSS J		FILE NO. 025412708.mxd	
APPROVED BY: RICE J	DATE PRINTED: 1/30/2009	FIGURE 1	
DATE: JANUARY 2009			

RMT
744 Heartland Trail
Madison, WI 53717-1934
P.O. Box 8923 53708-8923
Phone: 608-831-4444
Fax: 608-831-3334

D:\02541\27\MXD\025412708.mxd 1/30/2009 11:09:51



LEGEND

- LIMITS OF SOIL REQUIRING SVE REMEDIATION
- DEEP SOIL VAPOR EXTRACTION WELL NEST & MONITORING POINTS
- GROUNDWATER SCREENING SAMPLE
- MONITORING WELL
- SOIL GAS & SUBSLAB SOIL VAPOR SAMPLE LOCATION
- SOIL BORING LOCATION BY EKI (NO LOG AVAILABLE)
- SOIL BORING LOCATION BY RMT (LOG AVAILABLE)
- DOOR
- BUILDING OUTLINES
- SOIL GAS EXTRACTION SYSTEM
- FORMER TCE STORAGE AREA
- FORMER DEGREASER LOCATION
- FORMER FURNACE LOCATION
- FORMER TANK LOCATION
- ROAD/ASPHALT EDGE
- TRENCH SYSTEM (ABANDONED)

NOTES

1. MONITORING POINTS LOCATED BY GPS, "DISTANCE –FROM-POINT" MEASUREMENTS OR FROM APPROXIMATION.

N

0 50 100 FEET

1 " = 50 '
1:600

PROJECT: **DANA CORPORATION FORMER WARNER ELECTRIC DIVISION ROSCOE, ILLINOIS**

SHEET TITLE: **SILT LAYER THICKNESS AND DISTRIBUTION**

DRAWN BY:	MCKEEFRY J	SCALE:		PROJ. NO.	00-02541.27
CHECKED BY:	BUSS J		AS NOTED	FILE NO.	025412707.mxd
APPROVED BY:	RICE J	DATE PRINTED:	1/30/2009	**FIGURE 2**	
DATE:	JANUARY 2009				

RMT

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Phone: 608-831-4444
Fax: 608-831-3334

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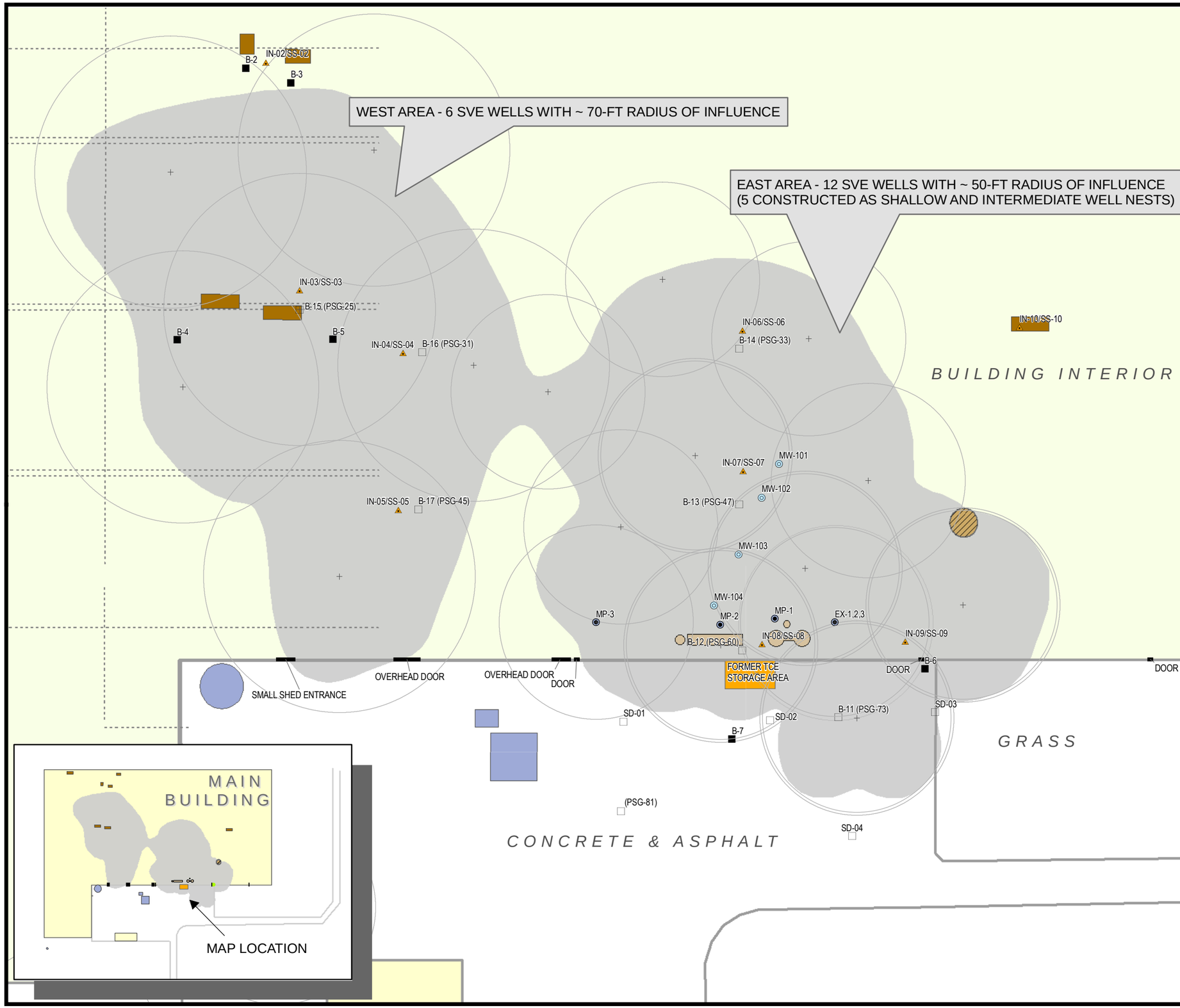

LEGEND

- LIMITS OF SOIL REQUIRING SVE REMEDIATION
- DEEP SOIL VAPOR EXTRACTION WELL NEST & MONITORING POINTS
- GROUNDWATER SCREENING SAMPLE
- MONITORING WELL
- SOIL GAS & SUBSLAB SOIL VAPOR SAMPLE LOCATION
- SOIL BORING LOCATION BY EKI (NO LOG AVAILABLE)
- SOIL BORING LOCATION BY RMT (LOG AVAILABLE)
- BUILDING OUTLINES
- SOIL GAS EXTRACTION SYSTEM
- FORMER TCE STORAGE AREA
- FORMER DEGREASER LOCATION
- FORMER FURNACE LOCATION
- FORMER TANK LOCATION
- ROAD/ASPHALT EDGE
- TRENCH SYSTEM (ABANDONED)

SVE APPROXIMATE RADIUS OF INFLUENCE
NORMALIZED VACUUM LEVEL (IN W.C.)

- SHALLOW ZONE
- INTERMEDIATE ZONE
- DEEP ZONE
- PROPOSED SINGLE SVE WELL WITH RADIUS OF INFLUENCE
- PROPOSED SVE WELLS WITH RADIUS OF INFLUENCE

NOTES

1. MONITORING POINTS LOCATED BY GPS, "DISTANCE –FROM-POINT" MEASUREMENTS OR FROM APPROXIMATION.

N

0 50 100 FEET

1 " = 50 '
1:600

PROJECT:
DANA CORPORATION
FORMER WARNER ELECTRIC DIVISION
ROSCOE, ILLINOIS

SHEET TITLE:
SVE FULL SCALE DESIGN

DRAWN BY:	MCKEEFRY J	SCALE:		PROJ. NO.	00-02541.27
CHECKED BY:	BUSS J	AS NOTED		FILE NO.	025412709.mxd
APPROVED BY:	RICE J	DATE PRINTED:		**FIGURE 3**	
DATE:	JANUARY 2009	1/30/2009			

RMT

744 Heartland Trail
Madison, WI 53717-1934

P.O. Box 8923 53708-8923
Phone: 608-831-4444
Fax: 608-831-3334

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Attachment 1

IEPA Air Discharge Permit

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY

1021 NORTH GRAND AVENUE EAST, P.O. BOX 19506, SPRINGFIELD, ILLINOIS 62794-9506 - (217) 782-2113

ROD R. BLAGOJEVICH, GOVERNOR DOUGLAS P. SCOTT, DIRECTOR

217/782-2113

JOINT CONSTRUCTION AND LIFETIME OPERATING PERMIT

PERMITTEE

RMT, Inc.
Attn: Jim Buss
744 Heartland Trail
Madison, Wisconsin 53717

Application No.: 07100042
Applicant's Designation: WARNERELEC
Subject: Soil Vapor Extraction System
Date Issued: January 3, 2008

I.D. No.: 201810AAK
Date Received: October 10, 2007

Operating Permit Expiration Date: See Condition 1.

Location: 5253 McCurry Road, Roscoe, Winnebago County

This Permit is hereby granted to the above-designated Permittee to CONSTRUCT and OPERATE emission unit(s) and/or air pollution control equipment consisting of a soil vapor extraction system with optional carbon adsorber pursuant to the above-referenced application. This Permit is subject to standard conditions attached hereto and the following special condition(s):

1a. This operating permit is effective only if the Permittee has complied with all standard conditions of the construction permit.

b. Operation of the emission units included in this permit shall not begin until all associated air pollution control equipment has been constructed and is operational.

c. This operating permit shall expire 180 days after the Illinois EPA sends a written request for the renewal of this permit.

d. This permit shall terminate if it is withdrawn or is superseded by a revised permit.

2. Emissions and operation of the soil vapor extraction (SVE) system shall not exceed the following limits:

	VOM Emissions	
(Lbs/Hour)	(Tons/Month)	(Tons/Year)
8.0	0.1	1.0

These limits are based on 35 Ill. Adm. Code 215.301 and emissions shall be calculated using the following equation:

$$E = \sum \frac{C \times Q \times MW \times 60\ min/hr}{387\ ft^3/lb-mole \times 10^6} \times T \div 2{,}000\ lb/ton$$

where

E - VOM/HAP emission (tons);

C - VOM/HAP SVE system exhaust concentration (ppm);

Q - SVE system exhaust flowrate (scfm);

MW - Molecular weight of extructed material (lbs/lb-mole); and

T - operating time (hours).

Compliance with annual limits shall be determined from a running total of 12 months of data.

3. At all times, the Permittee shall maintain and operate the SVE system in a manner consistent with good air pollution control practice for minimizing emissions.

4. This permit is issued based on the potential to emit (PTE) for hazardous air pollutants (HAPs) as listed in Section 112(b) of the Clean Air Act being less than 10 tons/year of any single HAP and 25 tons/year of any combination of such HAPs, or such less quantity as USEPA may establish by rule which would require the Permittee to obtain a Clean Air Act Permit Program (CAAPP) permit from the Illinois EPA.

5. In the event that the operation of this source results in an odor nuisance, the Permittee shall take appropriate and necessary actions to minimize odors, including but not limited to, changes in raw material or installation of controls, in order to eliminate the odor nuisance.

6. The Permittee shall, in accordance with the manufacturer(s) and/or vendor(s) recommendations, perform periodic inspections and maintenance on the equipment covered under this permit such that the equipment be kept in proper working condition and not cause a violation of the Environmental Protection Act or regulations promulgated therein.

7. The Permittee shall maintain monthly records of the following items:

   a. Measured exhaust total VOM and HAP contaminant concentration (ppmv) in exhaust air flow samples exhausting the SVE system. These samples and measurements shall be taken at start-up, once/day for first 3 days, 2 times/week for first 2 weeks and once every other month thereafter. Air samples from the first two weeks shall be sent to a certified lab and analyzed by USEPA method TO-14A using gas chromatography. After the first 2 weeks of operation, the Permittee may measure exhaust total VOM and HAP contaminant concentration (ppmv) in exhaust air using an appropriately calibrated photo ionization detector on a once/every other month basis.

b. Exhaust air flow rate (dscfm) from the SVE system at start-up, once/day for first 3 days, 2 times/week for first 2 weeks and once every other month thereafter;

c. Hours of operation of the system (hours/month, hours/year); and

d. VOM and HAP emissions (tons/month, tons/year) based on using the equation in Condition 2 and the data collected in a, b and c above.

8a. The Permittee shall submit to the Illinois EPA a request to withdraw this Lifetime Operating Permit once the equipment is permanently shut down or moved to another location.

b. This Permit will expire on the day operations permanently cease at this location or if this equipment is moved to a new location.

9. All records and logs required by this permit shall be retained at a readily accessible location at the source for at least three years from the date of entry and shall be made available for inspection and copying by the Illinois EPA upon request. Any records retained in an electronic format (e.g., computer) shall be capable of being retrieved and printed on paper during normal source office hours so as to be able to respond to an Illinois EPA request for records during the course of a source inspection.

10. If there is an exceedance of or deviation from the requirements of this permit, the Permittee shall submit a report to the Illinois EPA's Compliance Section in Springfield, Illinois within 30 days after the exceedance/deviation. The report shall include a copy of relevant records and a description of the exceedance or deviation and efforts to reduce emissions and future occurrences.

11. Two copies of required reports and notifications shall be sent to:

Illinois Environmental Protection Agency
Division of Air Pollution Control
Compliance Section (#40)
P.O. Box 19276
Springfield, Illinois 62794-9276

<u>and</u> one (1) copy shall be sent to the Illinois EPA's regional office at the following address unless otherwise indicated:

Illinois Environmental Protection Agency
Division of Air Pollution Control
5415 North University
Peoria, Illinois 61614

12. Persons with lifetime operating permits must obtain a revised permit for any of the following changes at the source:

a. An increase in emissions above the amount the emission unit or the source is permitted to emit;

b. A modification;

c. A change in operations that will result in the source's noncompliance with conditions in the existing permit; or

d. A change in ownership, company name, or address, so that the application or existing permit is no longer accurate.

13. The issuance of this permit does not relieve the Permittee of the responsibility of complying with the applicable provisions of the State of Illinois Rules and Regulations, Title 35: Subtitle C, Water Pollution Control, Chapter 1. The Permittee may need to obtain a permit from the Division of Water Pollution Control for construction and/or operation of the system.

14. The issuance of this permit does not relieve the Permittee from compliance with the applicable portions of 35 Ill. Adm. Code Part 731 Underground Storage Tanks or the permit requirements of Section 21 and 39 of the Environmental Protection Act with respect to a waste management operation, nor does it constitute a release from further responsibility for preventive or corrective action as defined under Section 4(y) of the Environmental Protection Act. Pursuant to 35 Ill. Adm. Code Part 731, approval may be required from the Bureau of Land - Leaking Underground Storage Tank Section (217/782-6761) prior to the installation and operation of this equipment.

If you have any questions on this permit, please contact Valeriy Brodsky at 217/782-2113.

Edwin C Bakowski

Edwin C. Bakowski, P.E. Date Signed: 01-03-2008
Acting Manager, Permit Section
Division of Air Pollution Control

ECB:VJB:psj

cc: Region 2

STATE OF ILLINOIS
ENVIRONMENTAL PROTECTION AGENCY
DIVISION OF AIR POLLUTION CONTROL
P. O. BOX 19506
SPRINGFIELD, ILLINOIS 62794-9506

STANDARD CONDITIONS FOR CONSTRUCTION/DEVELOPMENT PERMITS ISSUED BY THE ILLINOIS ENVIRONMENTAL PROTECTION AGENCY

July 1, 1985

The Illinois Environmental Protection Act (Illinois Revised Statutes, Chapter 111-1/2, Section 1039) authorizes the Environmental Protection Agency to impose conditions on permits which it issues.

The following conditions are applicable unless susperseded by special condition(s).

1. Unless this permit has been extended or it has been voided by a newly issued permit, this permit will expire one year from the date of issuance, unless a continuous program of construction or development on this project has started by such time.

2. The construction or development covered by this permit shall be done in compliance with applicable provisions of the Illinois Environmental Protection Act and Regulations adopted by the Illinois Pollution Control Board.

3. There shall be no deviations from the approved plans and specifications unless a written request for modification, along with plans and specifications as required, shall have been submitted to the Agency and a supplemental written permit issued.

4. The permittee shall allow any duly authorized agent of the Agency upon the presentation of credentials, at reasonable times:

   a. to enter the permittee's property where actual or potential effluent, emission or noise sources are located or where any activity is to be conducted pursuant to this permit,

   b. to have access to and to copy any records required to be kept under the terms and conditions of this permit,

   c. to inspect, including during any hours of operation of equipment constructed or operated under this permit, such equipment and any equipment required to be kept, used, operated, calibrated and maintained under this permit,

   d. to obtain and remove samples of any discharge or emissions of pollutants, and

   e. to enter and utilize any photographic, recording, testing, monitoring or other equipment for the purpose of preserving, testing, monitoring, or recording any activity, discharge, or emission authorized by this permit.

5. The issuance of this permit:

   a. shall not be considered as in any manner affecting the title of the premises upon which the permitted facilities are to be located,

   b. does not release the permittee from any liability for damage to person or property caused by or resulting from the construction, maintenance, or operation of the proposed facilities,

   c. does not release the permittee from compliance with other applicable statutes and regulations of the United States, of the State of Illinois, or with applicable local laws, ordinances and regulations,

   d. does not take into consideration or attest to the structural stability of any units or parts of the project, and

e. in no manner implies or suggests that the Agency (or its officers, agents or employees) assumes any liability, directly or indirectly, for any loss due to damage, installation, maintenance, or operation of the proposed equipment or facility.

6. a. Unless a joint construction/operation permit has been issued, a permit for operation shall be obtained from the Agency before the equipment covered by this permit is placed into operation.

   b. For purposes of shakedown and testing, unless otherwise specified by a special permit condition, the equipment covered under this permit may be operated for a period not to exceed thirty (30) days.

7. The Agency may file a complaint with the Board for modification, suspension or revocation of a permit:

   a. upon discovery that the permit application contained misrepresentations, misinformation or false statements or that all relevant facts were not disclosed, or

   b. upon finding that any standard or special conditions have been violated, or

   c. upon any violations of the Environmental Protection Act or any regulation effective thereunder as a result of the construction or development authorized by this permit.

STATE OF ILLINOIS
ENVIRONMENTAL PROTECTION AGENCY
DIVISION OF AIR POLLUTION CONTROL
P.O. BOX 19506
SPRINGFIELD, ILLINOIS 62794-9506

STANDARD CONDITIONS FOR LIFETIME OPERATING PERMITS

July 1, 1998

The Illinois Environmental Protection Act [415 ILCS 5/39 (formerly Illinois Revised Statutes, Chapter 111-1/2, Section 1039)] grants the Illinois Environmental Protection Agency authority to impose conditions on permits which it issues.

1. The issuance of this Permit does not release the Permittee from compliance with state and federal regulations which are part of the Illinois State Implementation Plan, as well as with other applicable statues and regulations of the United States or the State of Illinois or with applicable local laws, ordinances and regulations.

2. The Illinois EPA has issued this Permit based upon the information submitted by the Permittee in the permit application. Any misinformation, false statement or misrepresentation in the application shall be ground for revocation under 35 Ill. Adm. Code 201.166.

3. a. The Permittee shall not authorize, cause, direct or allow any modification, as defined in 35 Ill. Adm. Code 201.102, of equipment, operations or practices which are reflected in the permit application as submitted, until the appropriate permit is obtained from the Illinois EPA.

   b. The Permittee shall obtain a new or revised permit under Section 39.5 of the Act, if the source no longer meets the applicability criteria of 35 Ill. Adm. Code 201169 because of changes in emissions units or control equipment.

   c. The Permittee shall obtain a revised permit prior to any of the following changes at the source:

      i. An increase in emissions above the amount the emission unit or the source is permitted to emit; or

      ii. A modification; or

      iii. A change in operations that will result in the source's noncompliance with a condition in the existing permit; or

      iv. A change in ownership, company name, or address, so that the application or existing permit is no longer accurate.

4. a. This Permit only covers emission units and control equipment while physically present at the indicated source location. Unless the Permit specifically provides for equipment relocation, this Permit is void for n item of equipment on the day it is removed from the permitted location, or if all equipment is removed.

   b. The Permittee shall notify the Illinois EPA in writing to withdraw the Permit if all operations the source have been permanently discontinued.

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5. The Permittee shall allow any duly authorized agent of the Illinois EPA, upon the presentation of credentials, at reasonable times:

   a. To enter the Permittee's property where actual or potential effluent, emission or noise units are located or where any activity is to be conducted, pursuant to this Permit;

   b. To have access to and to copy any records required to be kept under the terms and conditions of this Permit;

   c. To inspect, including during any hours of operation of equipment constructed or operated under this Permit, such equipment and any equipment required to be kept, used, operated, calibrated and maintained under this Permit;

   d. To obtain and remove samples of any discharge or emission of pollutants; and

   e. To enter and utilize any photographic, recording, testing, monitoring or other equipment for the purpose of preserving, testing, monitoring or recording any activity, discharge or emission authorized by this Permit.

6. The issuance of this Permit:

   a. Shall not be considered as in any manner affecting the title of the premises upon which the permitted source is located;

   b. Does not release the Permittee from any liability for damage to person or property caused by or resulting from the construction, maintenance, or operation of the source;

   c. Does not take into consideration or attest to the structural stability of any unit or part of the project; and

   d. In no manner implies or suggests that the Illinois EPA (or its officers, agents, or employees) assumes any liability, directly or indirectly, for any loss due to damage, installation, maintenance, or operation of the proposed equipment or source.

7. The Permittee shall maintain all equipment covered under this Permit in such a manner that the performance of such equipment shall not cause a violation of the Environmental Protection Act or regulations promulgated thereuner.

8. The Permittee shall maintain a maintenance record on the premises for each item of air pollution control equipment. This records shall be made available to any agent of the Illinois EPA at any time during normal working hours and/or operating hours. As a minimum, this record shall show the dates of performance and nature of preventative maintenance activities.

9. No person shall cause or allow startup of any emission unit or continued operation during malfunction or breakdown of any emission unit or related air pollution control equipment if such startup or continued operation would cause a violation of an applicable emission standard or permit limitation if such operation is not allowed as a special condition of this Permit, as required by 35 Ill. Adm. Code 201.149.

10. The Permittee shall submit an Annual Emission Report as required by 35 Ill. Adm. Code 201.302 and 35 Ill. Adm. Code Part 254.

11. The Permittee shall pay the annual site fee for the source in accordance with Section 9.5 of the Act.

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DIRECTORY
ENVIRONMENTAL PROTECTION AGENCY
BUREAU OF AIR

For assistance in preparing a permit application contact the Permit Section.

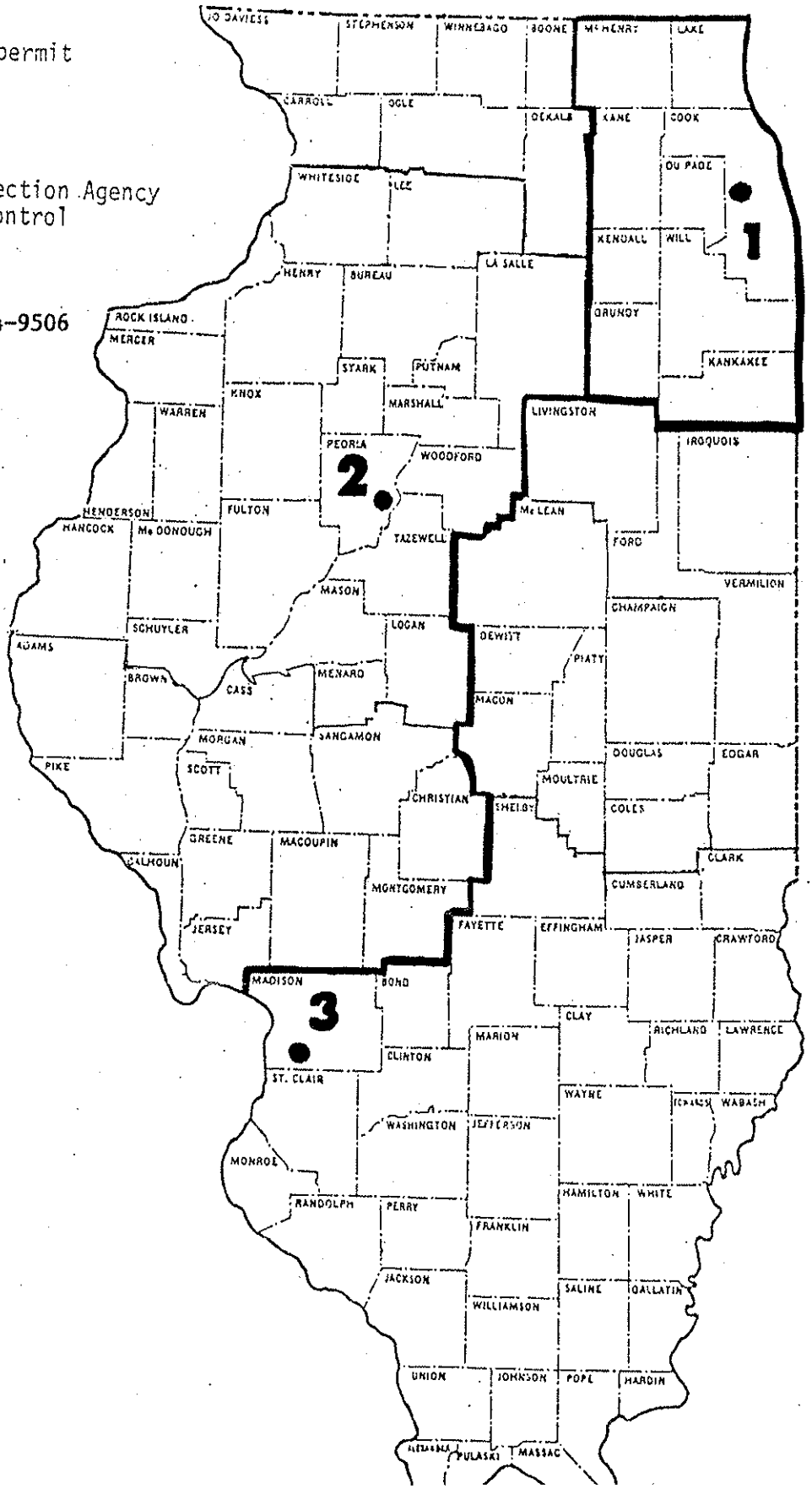
Illinois Environmental Protection Agency
Division of Air Pollution Control
Permit Section
1021 N. Grand Ave E.
P.O.Box 19506
Springfield, Illinois 62794-9506

or a regional office of the Field Operations Section. The regional offices and their areas of responsibility are shown on the map. The addresses and telephone numbers of the regional offices are as follows:

Illinois EPA
Region 1
Bureau of air, FOS
9511 West Harrison
Des Plaines, Illinois 60016
847/294-4000

Illinois EPA
Region 2
5415 North University
Peoria, Illinois 61614
309/693-5463

Illinois EPA
Region 3
2009 Mall Street
Collinsville, Illinois 62234
618/346-5120



9/9

Attachment 2

Boring Logs and Well Construction Reports

WELL CONSTRUCTION LOG

RMT

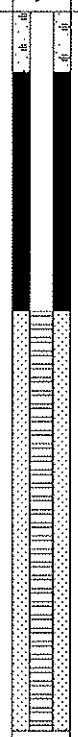
WELL NO. EX-01

Facility/Project Name:	Date Drilling Started:	Date Drilling Completed:	Project Number:
Former Warner Electric	7/16/08	7/16/08	2541.27

Drilling Firm:	Drilling Method:	Surface Elev. (ft)	TOC Elevation (ft)	Total Depth (ft bgs)	Borehole Dia. (in)
Boart Longyear	Rotary Sonic	---	---	12.0	8

Boring Location:	Personnel	Drilling Equipment:
NW ¼ of NW ¼ of Section 28, T 46 R 12 E	Logged By - Ted O'Connell Driller - Matt White	Mini Sonic

Civil Town/City/or Village:	County:	State:	Water Level Observations:		
Roscoe	Winnebago	Illinois	While Drilling:	Date/Time	Depth (ft bgs)
			After Drilling:	Date/Time	Depth (ft bgs)

SAMPLE NUMBER AND TYPE	SAMPLE RECOVERY (%)	BLOW COUNTS	DEPTH IN FEET	LITHOLOGIC DESCRIPTION	USCS	GRAPHIC LOG	WELL DIAGRAM	COMMENTS
				See SVEW-01C for soil lithology description.				
			2					
			4					
			6					
			8					
			10					
			12	**End of Boring at 12 feet bgs.**				
			14					
			16					
			18					

SOIL BORING WELL CONSTRUCTION LOG 02541WGENERIC.GPJ RMT CORP.GDT 2541.27 1/19/09

Signature:	Firm: RMT, Inc. 744 Heartland Trail Madison, WI 53717	608-831-4444 Fax 608-831-3334

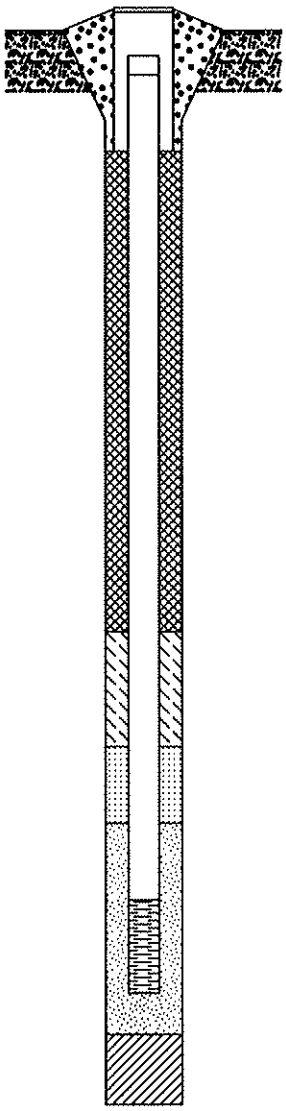
Checked By: J. Buss

1/24

WELL CONSTRUCTION DIAGRAM

PROJECT:	Former Warner Electric					WELL NUMBER:	EX-01
PROJ. NO:	2541.27	DATE INSTALLED:	7/16/2008	INST. BY:	Boart Longyear	OBSV. BY:	Ted O'Connell
NW 1/4 of NW 1/4 of Sec. 28, T. 46 N, R. 12 ☒ E ☐ W				State Plane COORDINATES: _____ ft. N, _____ ft. E.			

ELEVATION (FT., M.S.L.) | DEPTH (FT., BGS)



Depth (ft, BGS)	Item
	PROTECTIVE PIPE
0.0	GROUND SURFACE
	TOP OF WELL
	Suface Seal: Concrete
1.0	BASE OF SURFACE SEAL
	Material Between Protop & Well Casing
	Annular Space Seal: Granular Bentonite
1.0	TOP OF BENTONITE SEAL Bentonite Seal: Granular Bentonite
	TOP OF FINE SAND Fine Sand:
5.0	TOP OF FILTER PACK Filter Pack:
5.0	TOP OF WELL SCREEN
	Screen Length: 7.0 ft.
12.0	BOTTOM OF WELL
12.0	BOTTOM OF FILTER PACK
12.0	BOTTOM OF BOREHOLE
	Material Below Filterpack (if any)

1. CASING AND SCREEN DETAILS:

Protective Cover with Lock? No Key No: NA

Protective Cover Description: _____

Riser Pipe (Material & Schedule): Schedule 40 PVC

Well Casing Diameter (in): 4.026 I.D. 4.5 O.D.

Screen Type: Factory Slotted PVC

Slot Size (in): 0.010 Pipe Joints: Threaded

Borehole Diameter (in): 8 From 0 ft. To 12 ft.

_____ From _____ ft. To _____ ft.

Comments: _____

2. WELL DEVELOPMENT:

Development Method: NA

Time Spent Developing (min): NA

Water: Removed: _____ Gallons

Added: _____ Gallons

Water Clarity Before/After Development:

Before: NA

After: NA

Water Level Information:

Before Development:

Measurement Date/Time: _____

Depth to Water: _____ ft. Depth to Bottom: _____ ft.

After Development:

Measurement Date/Time: _____

Depth to Water: _____ ft. Depth to Bottom: _____ ft.

Comments: _____

WELL CONSTRUCTION LOG

RMT

WELL NO. EX-02

Facility/Project Name:	Date Drilling Started:	Date Drilling Completed:	Project Number:
Former Warner Electric	7/15/08	7/16/08	2541.27

Drilling Firm:	Drilling Method:	Surface Elev. (ft)	TOC Elevation (ft)	Total Depth (ft bgs)	Borehole Dia. (in)
Boart Longyear	Rotary Sonic	---	---	19.0	8

Boring Location:	Personnel	Drilling Equipment:
NW ¼ of NW ¼ of Section 28, T 46 R 12 E	Logged By - Ted O'Connell Driller - Matt White	Mini Sonic

Civil Town/City/or Village:	County:	State:	Water Level Observations:
Roscoe	Winnebago	Illinois	While Drilling: Date/Time Depth (ft bgs) After Drilling: Date/Time Depth (ft bgs)

SAMPLE NUMBER AND TYPE	RECOVERY (%)	BLOW COUNTS	DEPTH IN FEET	LITHOLOGIC DESCRIPTION	USCS	GRAPHIC LOG	WELL DIAGRAM	PID (PPM)	COMMENTS
				See SVEW-01C for soil lithology description.					
1 CS	100		2					5.1	
			4						
2 CS	85		6					10.2	
			8					5.4	
			10					4.2	
3 CS	100		12					9.2	
			14						
4 CS	72		16					0.0	
			18					0.0	
				End of Boring at 19 feet bgs.					

SOIL BORING WELL CONSTRUCTION LOG 02541WGENERIC.GPJ RMT_CORP.GDT 2541.27 1/19/09

Signature:	Firm: RMT, Inc. 744 Heartland Trail Madison, WI 53717	608-831-4444 Fax 608-831-3334

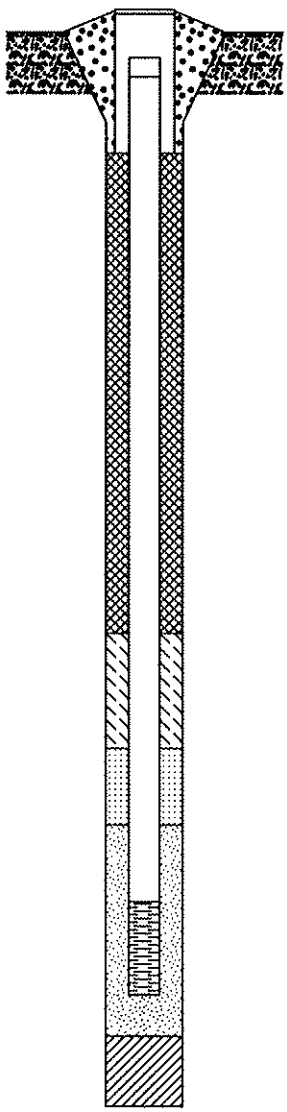
Checked By: J. Buss

3

WELL CONSTRUCTION DIAGRAM

PROJECT:	Former Warner Electric					WELL NUMBER:	EX-02
PROJ. NO:	2541.27	DATE INSTALLED:	7/16/2008	INST. BY:	Boart Longyear	OBSV. BY:	Ted O'Connell
NW 1/4 of NW 1/4 of Sec. 28, T. 46 N, R. 12 ☒ E ☐ W				State Plane COORDINATES: _____ ft. N, _____ ft. E.			

ELEVATION (FT., M.S.L.) | DEPTH (FT., BGS)



Depth (ft.)	Item
	PROTECTIVE PIPE
0.0	GROUND SURFACE
	TOP OF WELL
	Suface Seal: Concrete
1.0	BASE OF SURFACE SEAL
	Material Between Protop & Well Casing
	Annular Space Seal: Granular Bentonite
1.0	TOP OF BENTONITE SEAL Bentonite Seal: Granular Bentonite
	TOP OF FINE SAND Fine Sand:
14.0	TOP OF FILTER PACK Filter Pack:
14.0	TOP OF WELL SCREEN Screen Length: 5.0 ft.
19.0	BOTTOM OF WELL
19.0	BOTTOM OF FILTER PACK
19.0	BOTTOM OF BOREHOLE Material Below Filterpack (if any)

1. CASING AND SCREEN DETAILS:

Protective Cover with Lock? No Key No: NA

Protective Cover Description: _____

Riser Pipe (Material & Schedule): Schedule 40 PVC

Well Casing Diameter (in): 4.026 I.D. 4.5 O.D.

Screen Type: Factory Slotted PVC

Slot Size (in): 0.010 Pipe Joints: Threaded

Borehole Diameter (in): 8 From 0 ft. To 19 ft.

_____ From _____ ft. To _____ ft.

Comments: _____

2. WELL DEVELOPMENT:

Development Method: NA

Time Spent Developing (min): NA

Water: Removed: _____ Gallons

Added: _____ Gallons

Water Clarity Before/After Development:

Before: NA

After: NA

Water Level Information:

Before Development:

Measurement Date/Time: _____

Depth to Water: _____ ft. Depth to Bottom: _____ ft.

After Development:

Measurement Date/Time: _____

Depth to Water: _____ ft. Depth to Bottom: _____ ft.

Comments: _____

WELL CONSTRUCTION LOG

RMT

WELL NO. EX-03

Facility/Project Name:	Date Drilling Started:	Date Drilling Completed:	Project Number:
Former Warner Electric	7/15/08	7/15/08	2541.27

Drilling Firm:	Drilling Method:	Surface Elev. (ft)	TOC Elevation (ft)	Total Depth (ft bgs)	Borehole Dia. (in)
Boart Longyear	Rotary Sonic	---	---	29.0	8

Boring Location:	Personnel	Drilling Equipment:
NW ¼ of NW ¼ of Section 28, T 46 R 12 E	Logged By - Ted O'Connell Driller - Matt White	Mini Sonic

Civil Town/City/or Village:	County:	State:	Water Level Observations:
Roscoe	Winnebago	Illinois	While Drilling: Date/Time ▽ Depth (ft bgs) 25 After Drilling: Date/Time Depth (ft bgs)

SAMPLE NUMBER AND TYPE	RECOVERY (%)	BLOW COUNTS	DEPTH IN FEET	LITHOLOGIC DESCRIPTION	USCS	GRAPHIC LOG	WELL DIAGRAM	PID (PPM)	COMMENTS
				CONCRETE					
1 CS	100		2	**POORLY GRADED SAND WITH SILT AND GRAVEL,** 40% fine to medium grained sand, 30% silt, 30% large gravel with trace cobbles,10YR 3/3 dark brown, slight odor, moist, loose.	SP-SM			4.2	
			4						
2 CS	100		6 8	**SILTY SAND,** 80% fine grained sand, 20% silt,10YR 2/2 dark brown, slight odor, slightly moist, dense.	SM			5.2	
3 CS	92		10 12	**POORLY GRADED SAND WITH GRAVEL,** 70% medium to fine grained sand, 20% small to large gravel, 10% fines, 10YR 6/4 light yellowish brown, no odor, dry, loose.	SP			2.3	
				SILT WITH GRAVEL, 90% silt, 10% gravel, slightly plastic, 10YR 5/4 yellowish brown, slight odor.	SM				
			14	**WELL GRADED SAND WITH GRAVEL,** 80% fine to medium grained sand, 20% small to large gravel, 10YR 6/4 light yellowish brown, no odor, dry, loose. Same as above.					
4 CS	83		16 18		SW			0.0	
				WELL GRADED SAND WITH GRAVEL, 70% fine to coarse grained sand, 30% small to large gravel, 10YR 5/3					

Signature:	Firm: RMT, Inc. 744 Heartland Trail Madison, WI 53717	608-831-4444 Fax 608-831-3334

Checked By: J. Buss

WELL CONSTRUCTION LOG

RMT

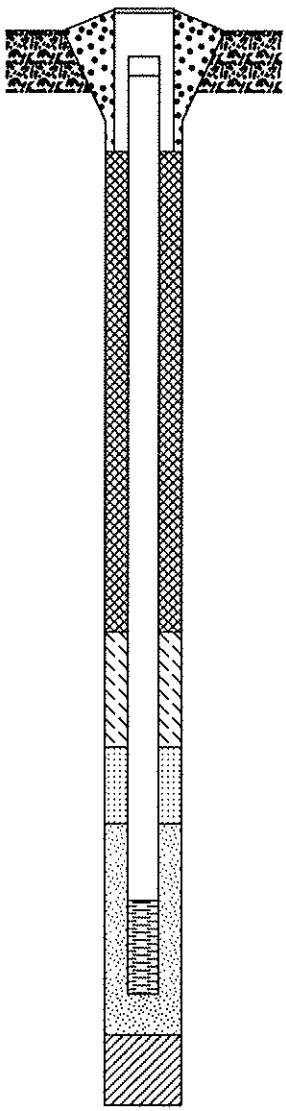
WELL NO. EX-03

SAMPLE NUMBER AND TYPE	SAMPLE RECOVERY (%)	BLOW COUNTS	DEPTH IN FEET	LITHOLOGIC DESCRIPTION	USCS	GRAPHIC LOG	WELL DIAGRAM	PID (PPM)	COMMENTS
5 CS	80		22	brown, no odor, dry, loose				0.0	
			24		SW				
6 CS	90		26	Same as above.				0.0	
			28						
				End of boring at 29 feet bgs.					
			30						
			32						
			34						
			36						
			38						
			40						
			42						
			44						
			46						

WELL CONSTRUCTION DIAGRAM

PROJECT:	Former Warner Electric					WELL NUMBER:	EX-03
PROJ. NO:	2541.27	DATE INSTALLED:	7/16/2008	INST. BY:	Boart Longyear	OBSV. BY:	Ted O'Connell
NW 1/4 of NW 1/4 of Sec. 28, T. 46 N, R. 12 ☒ E ☐ W				State Plane COORDINATES: _____ ft. N, _____ ft. E.			

ELEVATION (FT., M.S.L.) | DEPTH (FT., BGS)



Depth (FT., BGS)	Item
	PROTECTIVE PIPE
0.0	GROUND SURFACE
	TOP OF WELL
	Suface Seal: Concrete
1.0	BASE OF SURFACE SEAL
	Material Between Protop & Well Casing
	Annular Space Seal: Granular Bentonite
1.0	TOP OF BENTONITE SEAL Bentonite Seal: Granular Bentonite
	TOP OF FINE SAND Fine Sand:
17.0	TOP OF FILTER PACK Filter Pack:
18.0	TOP OF WELL SCREEN
	Screen Length: 5.0 ft.
23.0	BOTTOM OF WELL
24.0	BOTTOM OF FILTER PACK
29.0	BOTTOM OF BOREHOLE
	Material Below Filterpack (if any)

1. CASING AND SCREEN DETAILS:

Protective Cover with Lock? No Key No: NA

Protective Cover Description: _____

Riser Pipe (Material & Schedule): Schedule 40 PVC

Well Casing Diameter (in): 4.026 I.D. 4.5 O.D.

Screen Type: Factory Slotted PVC

Slot Size (in): 0.010 Pipe Joints: Threaded

Borehole Diameter (in): 8 From 0 ft. To 29 ft.

_____ From _____ ft. To _____ ft.

Comments: _____

2. WELL DEVELOPMENT:

Development Method: NA

Time Spent Developing (min): NA

Water: Removed: _____ Gallons

Added: _____ Gallons

Water Clarity Before/After Development:

Before: NA

After: NA

Water Level Information:

Before Development:

Measurement Date/Time: _____

Depth to Water: _____ ft. Depth to Bottom: _____ ft.

After Development:

Measurement Date/Time: _____

Depth to Water: _____ ft. Depth to Bottom: _____ ft.

Comments: _____

SOIL BORING LOG

RMT

BORING NO. SD-01

Facility/Project Name:	Date Drilling Started:	Date Drilling Completed:	Project Number:
Former Warner Electric	6/10/08	6/10/08	2541.27

Drilling Firm:	Drilling Method:	Surface Elev. (ft)	TOC Elevation (ft)	Total Depth (ft bgs)	Borehole Dia. (in)
Matrix Environmental	Direct Push	---	---	15.0	2

Boring Location:	Personnel	Drilling Equipment:
NW ¼ of NW ¼ of Section 28, T 46 R 12 E	Logged By - Lance Bakken Driller - Guy Puquette	Geoprobe

Civil Town/City/or Village:	County:	State:	Water Level Observations:
Roscoe	Winnebago	Illinois	While Drilling: Date/Time Depth (ft bgs) After Drilling: Date/Time Depth (ft bgs)

SAMPLE NUMBER AND TYPE	RECOVERY (%)	BLOW COUNTS	DEPTH IN FEET	LITHOLOGIC DESCRIPTION	USCS	GRAPHIC LOG	COMMENTS
1 GP	100		2	**POORLY GRADED SAND WITH GRAVEL,** 50% fine to coarse grained sand, 30% fine to coarse grained gravel, 10 - 20 % fines, no odor, moist, loose.	SP		
2 GP	100		4 6	**SILTY SAND,** 75% fine to medium grained sand, 25% fines, trace gravel, slightly plastic, dark brown, no odor, moist, slightly dense.	SM		
				WELL GRADED SAND WITH SILT, 90% fine to medium grained sand, 10% fines, non plastic, red brown, no odor, moist, slightly dense.	SW-SM		
			8	**SILT WITH SAND,** 85% fines, 15% fine to coarse grained sand, plastic, red brown, no odor, moist, slightly dense.	ML		Sample collected: 6 - 9'
3 GP	100		10	**POORLY GRADED GRAVEL WITH SAND,** 60% fine to coarse grained gravel, 35% fine to coarse grained sand, 5% fines, tan, no odor, dry, loose	GP		
4 GP	133		12 14				
				End of boring at 15 feet.			
			16 18				

SOIL BORING WELL CONSTRUCTION LOG 02541WGENERIC.GPJ RMT_CORP.GDT 2541.27 7/10/08

Signature:	Firm: RMT, Inc. 744 Heartland Trail Madison, WI 53717	(608) 831-4444 Fax (608) 831-3334

Checked By: J. Buss

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SOIL BORING LOG

RMT

BORING NO. SD-02

Facility/Project Name:	Date Drilling Started:	Date Drilling Completed:	Project Number:
Former Warner Electric	6/10/08	6/10/08	2541.27

Drilling Firm:	Drilling Method:	Surface Elev. (ft)	TOC Elevation (ft)	Total Depth (ft bgs)	Borehole Dia. (in)
Matrix Environmental	Direct Push	---	---	15.0	2

Boring Location:	Personnel	Drilling Equipment:
NW ¼ of NW ¼ of Section 28, T 46 R 12 E	Logged By - Lance Bakken Driller - Guy Puquette	Geoprobe

Civil Town/City/or Village:	County:	State:	Water Level Observations:		
Roscoe	Winnebago	Illinois	While Drilling:	Date/Time	Depth (ft bgs)
			After Drilling:	Date/Time	Depth (ft bgs)

SAMPLE NUMBER AND TYPE	RECOVERY (%)	BLOW COUNTS	DEPTH IN FEET	LITHOLOGIC DESCRIPTION	USCS	GRAPHIC LOG	PID (PPM)	COMMENTS
				FILL, concrete and gravel.				
1 GP	100		2	**POORLY GRADED SAND WITH GRAVEL,** 50% fine to coarse grained sand, 40% fine to coarse grained gravel, 10% fines, non plastic, brown, no odor, slightly moist, loose.	SP		5	
			4	**SILT WITH SAND,** 75% fines, 25% fine to medium grained sand, plastic, very dark brown, slight odor, wet, dense.	ML			
2 GP	100		6				89	Sample collected, 7 - 8'
			8	**POORLY GRADED SAND WITH SILT AND GRAVEL,** 50% fine to coarse grained sand, 40% fine to coarse grained gravel, 10% fines, non plastic, slightly moist, brown, no odor, loose.	SP-SM			
3 GP	100		10	**SILT WITH SAND,** 75% fines, 25% fine to medium grained sand, plastic, very dark brown, slight odor, wet, dense.	ML		42	
				POORLY GRADED SAND WITH SILT AND GRAVEL, 50% fine to coarse grained sand, 40% fine to coarse grained gravel, 10% fines, non plastic, slightly moist, brown, no odor, loose.	SP-SM			
			12	**SILT WITH SAND,** 75% fines, 25% fine to medium grained sand, plastic, very dark brown, slight odor, wet, dense.	ML			
4 GP	100		14	**POORLY GRADED SAND WITH GRAVEL,** 60% fine to coarse grained sand, 40% fine to coarse grained gravel, brown, no odor, slightly moist, loose.	SP		60	
			16	**End of boring at 15 feet.**				
			18					

Signature:	Firm: RMT, Inc. 744 Heartland Trail Madison, WI 53717	(608) 831-4444 Fax (608) 831-3334

Checked By: J. Buss

SOIL BORING LOG

RMT

BORING NO. SD-03

Facility/Project Name:	Date Drilling Started:	Date Drilling Completed:	Project Number:
Former Warner Electric	6/10/08	6/10/08	2541.27

Drilling Firm:	Drilling Method:	Surface Elev. (ft)	TOC Elevation (ft)	Total Depth (ft bgs)	Borehole Dia. (in)
Matrix Environmental	Direct Push	---	---	15.0	2

Boring Location:	Personnel	Drilling Equipment:
NW ¼ of NW ¼ of Section 28, T 46 R 12 E	Logged By - Lance Bakken Driller - Guy Puquette	Geoprobe

Civil Town/City/or Village:	County:	State:	Water Level Observations:		
Roscoe	Winnebago	Illinois	While Drilling:	Date/Time	Depth (ft bgs)
			After Drilling:	Date/Time	Depth (ft bgs)

SAMPLE NUMBER AND TYPE	RECOVERY (%)	BLOW COUNTS	DEPTH IN FEET	LITHOLOGIC DESCRIPTION	USCS	GRAPHIC LOG	PID (PPM)	COMMENTS
				TOPSOIL.				
1 GP	100		2	**SILT WITH SAND,** 85% silt, 15% fine grained sand, non plastic, dark brown, no odor, slightly moist, slightly dense.	ML		ND	
				SANDY SILT WITH GRAVEL, 50% silt, 25% fine to medium grained saind, 25% fine grained gravel, slightly plastic, dark brown, moist, slightly dense.	ML			
				SILT WITH SAND, 80% fines, 20% fine to medium grained sand, plastic, dark brown, no odor, moist, slightly dense				
2 GP	100		4 6	**SILT WITH SAND,** 80% fines, 10% fine to medium grained sand, 10% fine grained gravel, dark brown, no odor, moist, slightly dense	ML		ND	
			8	As Above.				
3 GP	100		10	**POORLY GRADED GRAVEL WITH SAND,** 60% fine to coarse grained gravel, 35% fine to coarse grained sand, 5% fines, non plastic, brown, no odor, slightly moist, loose.	GP		ND	
4 GP	100		12 14				ND	
				End of boring at 15 feet.				
			16 18					

Signature:	Firm: RMT, Inc. 744 Heartland Trail Madison, WI 53717	(608) 831-4444 Fax (608) 831-3334

Checked By: J. Buss

SOIL BORING WELL CONSTRUCTION LOG 2541WGENERIC.GPJ RMT_CORP.GDT 2541.27 7/10/08

SOIL BORING LOG

RMT

BORING NO. SD-04

Facility/Project Name:	Date Drilling Started:	Date Drilling Completed:	Project Number:
Former Warner Electric	6/10/08	6/10/08	2541.27

Drilling Firm:	Drilling Method:	Surface Elev. (ft)	TOC Elevation (ft)	Total Depth (ft bgs)	Borehole Dia. (in)
Matrix Environmental	Direct Push	---	---	15.0	2

Boring Location:	Personnel	Drilling Equipment:
NW ¼ of NW ¼ of Section 28, T 46 R 12 E	Logged By - Lance Bakken Driller - Guy Puquette	Geoprobe

Civil Town/City/or Village:	County:	State:	Water Level Observations:		
Roscoe	Winnebago	Illinois	While Drilling:	Date/Time	Depth (ft bgs)
			After Drilling:	Date/Time	Depth (ft bgs)

SAMPLE NUMBER AND TYPE	RECOVERY (%)	BLOW COUNTS	DEPTH IN FEET	LITHOLOGIC DESCRIPTION	USCS	GRAPHIC LOG	PID (PPM)	COMMENTS
				FILL, gravel.				
1 GP	100		2	**POORLY GRADED SAND WITH GRAVEL,** 60% sand, 30% fine to coarse grained gravel, 10% fines, non plastic, dark brown, no odor, moist, loose.	SP			
				SILTY SAND, 70% fine to medium grainded sand, 30% fines, trace gravel, slightly plastic, dark brown, no odor, moist, slightly dense.	SM			
			4	**SANDY SILT,** 70% silt, 30% fine to medium sand, trace fine grained gravel, slightly plastic, brown - dark brown, no odor, slightly moist, slightly dense.	ML			
2 GP	100		6	**POORLY GRADED SAND WITH GRAVEL,** 60% fine to coarse sand, 40% fine to coarse gravel, trace fines, non plastic, brown, no odor, moist, loose.			ND	
			8					
3 GP	100		10		SP			
			12					
4 GP	133		14					
				End of boring at 15 feet.				
			16					
			18					

SOIL BORING WELL CONSTRUCTION LOG 02541WGENERIC.GPJ RMT_CORP.GDT 2541.27 7/10/08

Signature:	Firm: RMT, Inc. 744 Heartland Trail Madison, WI 53717	(608) 831-4444 Fax (608) 831-3334

Checked By: J. Buss

SOIL BORING LOG

RMT

BORING NO. MP-01C

Facility/Project Name:	Date Drilling Started:	Date Drilling Completed:	Project Number:
Former Warner Electric	6/7/08	6/7/08	2541.27

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

Boring Location:	Personnel	Drilling Equipment:
NW ¼ of NW ¼ of Section 28, T 46 R 12 E	Logged By - Lance Bakken Driller - Guy Puquette	Geoprobe

Civil Town/City/or Village:	County:	State:	Water Level Observations:
Roscoe	Winnebago	Illinois	While Drilling: Date/Time ▽ Depth (ft bgs) 27 After Drilling: Date/Time Depth (ft bgs)

SAMPLE NUMBER AND TYPE	RECOVERY (%)	BLOW COUNTS	DEPTH IN FEET	LITHOLOGIC DESCRIPTION	USCS	GRAPHIC LOG	PID (PPM)	COMMENTS
1 GP	100		2 4	**FILL,** poorly graded sand with gravel, 50% fine to coarse sand, 45% gravel, dark brown, no odor, slightly moist, loose.			32	
2 GP	100		6	**SANDY SILT, ML** 75% silt, 25% fine to medium sand, slightly plastic, dark brown, no odor, slightly moist, slightly dense.	ML		45	
3 GP	100		8 10	**WELL GRADED SAND, SW** trace gravel, 95% fine to medium grained sand, 5% fines, medium brown, no odor, slightly moist, loose.	SW		28	
				LEAN CLAY, CL silty, 5% fine sand, plastic, green brown, no odor, slightly moist, dense.	CL			
4 GP	100		12 14	**POORLY GRADED SAND WITH GRAVEL, SP** 60% fine to coarse grained sand, 40% fine to coarse grained gravel, brown, no odor, dry, loose.			4.5	
5 GP	100		16 18	As above, increasing gravel.	SP			

Signature:	Firm: RMTINC
	Fax

Checked By: J. Buss

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SOIL BORING WELL CONSTRUCTION LOG 02541WGENERIC.GPJ RMT_CORP.GDT 2541.27 8/20/08

SOIL BORING LOG

RMT

BORING NO. MP-01C

SAMPLE NUMBER AND TYPE	SAMPLE RECOVERY (%)	BLOW COUNTS	DEPTH IN FEET	LITHOLOGIC DESCRIPTION	USCS	GRAPHIC LOG	PID (PPM)	COMMENTS
6 GP	100		22	As above.				
			24	As above.	SP			
7 GP	100		26				4	
			28	**POORLY GRADED SAND, SP** 90 - 95% medium to coarse grained sand, 5-10% fine grained gravel, brown, no odor, wet, loose.				
8 GP	100		30		SP			
			32	**End of boring at 32 feet.**				
			34					
			36					
			38					
			40					
			42					
			44					
			46					

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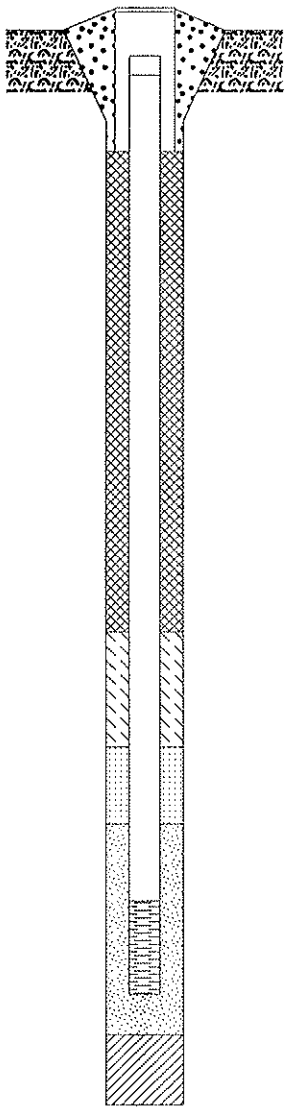
RMT INC.

WELL CONSTRUCTION DIAGRAM

PROJECT:	Former Warner Electric					WELL NUMBER:	MP-01A
PROJ. NO:	2541.27	DATE INSTALLED:	6/7/2008	INST. BY:	Matrix Environmental	OBSV. BY:	Lance Bakken
NW 1/4 of NW 1/4 of Sec. 28, T. 46 N, R. 12 ☒ E ☐ W				State Plane COORDINATES: ____ ft. N, ____ ft. E.			

ELEVATION (FT., M.S.L.) | DEPTH (FT., BGS)



Depth (FT., BGS)	Item
	PROTECTIVE PIPE
0.0	GROUND SURFACE
	TOP OF WELL
	Suface Seal: Concrete
1.0	BASE OF SURFACE SEAL
	Material Between Protop & Well Casing
	Annular Space Seal: Granular Bentonite
1.0	TOP OF BENTONITE SEAL Bentonite Seal: Granular Bentonite
	TOP OF FINE SAND Fine Sand:
3.8	TOP OF FILTER PACK Filter Pack:
4.8	TOP OF WELL SCREEN
	Screen Length: 5.0 ft.
9.8	BOTTOM OF WELL
9.8	BOTTOM OF FILTER PACK
9.8	BOTTOM OF BOREHOLE
	Material Below Filterpack (if any)

1. CASING AND SCREEN DETAILS:

Protective Cover with Lock? No Key No: NA

Protective Cover Description: ____

Riser Pipe (Material & Schedule): Schedule 40 PVC

Well Casing Diameter (in): 1 I.D. 1.315 O.D.

Screen Type: Factory Slotted PVC

Slot Size (in): 0.010 Pipe Joints: Threaded

Borehole Diameter (in): 2 From 0 ft. To 9.8 ft.

____ From ____ ft. To ____ ft.

Comments: ____

2. WELL DEVELOPMENT:

Development Method: Intertial Pump

Time Spent Developing (min): ____

Water: Removed: ____ Gallons

Added: ____ Gallons

Water Clarity Before/After Development:

Before: ____

After: ____

Water Level Information:

Before Development:

Measurement Date/Time: ____

Depth to Water: ____ ft. Depth to Bottom: ____ ft.

After Development:

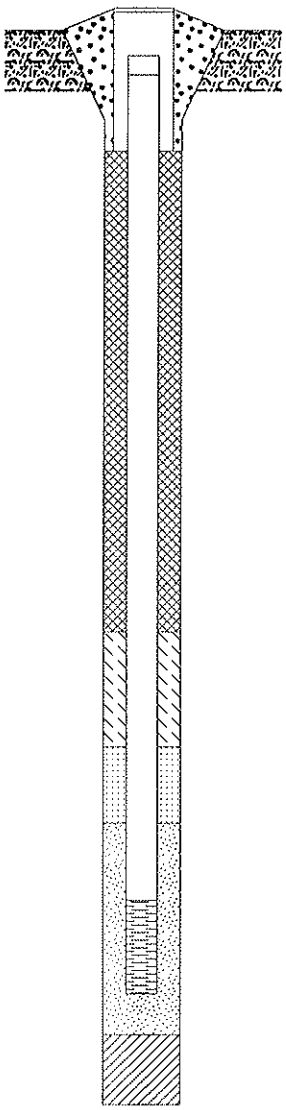
Measurement Date/Time: ____

Depth to Water: ____ ft. Depth to Bottom: ____ ft.

Comments: ____

WELL CONSTRUCTION DIAGRAM

PROJECT:	Former Warner Electric					WELL NUMBER:	MP-01B
PROJ. NO:	2541.27	DATE INSTALLED:	6/6/2008	INST. BY:	Matrix Environmental	OBSV. BY:	Lance Bakken
NW 1/4 of NW 1/4 of Sec. 28, T. 46 N, R. 12 ☒ E ☐ W				State Plane COORDINATES:		ft. N,	ft. E.



ELEVATION (FT., M.S.L.)	DEPTH (FT., BGS)	
		PROTECTIVE PIPE
	0.0	GROUND SURFACE
		TOP OF WELL Suface Seal: Concrete
	1.0	BASE OF SURFACE SEAL Material Between Protop & Well Casing
		Annular Space Seal: Granular Bentonite
	1.0	TOP OF BENTONITE SEAL Bentonite Seal: Granular Bentonite
	10.5	TOP OF FINE SAND Fine Sand:
	11.5	TOP OF FILTER PACK Filter Pack:
	12.5	TOP OF WELL SCREEN Screen Length: 5.0 ft.
	17.5	BOTTOM OF WELL
	17.5	BOTTOM OF FILTER PACK
	17.5	BOTTOM OF BOREHOLE Material Below Filterpack (if any)

1. CASING AND SCREEN DETAILS:

Protective Cover with Lock? No Key No: NA

Protective Cover Description: _____

Riser Pipe (Material & Schedule): Schedule 40 PVC

Well Casing Diameter (in): 1 I.D. 1.315 O.D.

Screen Type: Factory Slotted PVC

Slot Size (in): 0.010 Pipe Joints: Threaded

Borehole Diameter (in): 2 From 0 ft. To 17.5 ft.

_____ From _____ ft. To _____ ft.

Comments: _____

2. WELL DEVELOPMENT:

Development Method: Intertial Pump

Time Spent Developing (min): _____

Water: Removed: _____ Gallons

Added: _____ Gallons

Water Clarity Before/After Development:

Before: _____

After: _____

Water Level Information:

Before Development:

Measurement Date/Time: _____

Depth to Water: _____ ft. Depth to Bottom: _____ ft.

After Development:

Measurement Date/Time: _____

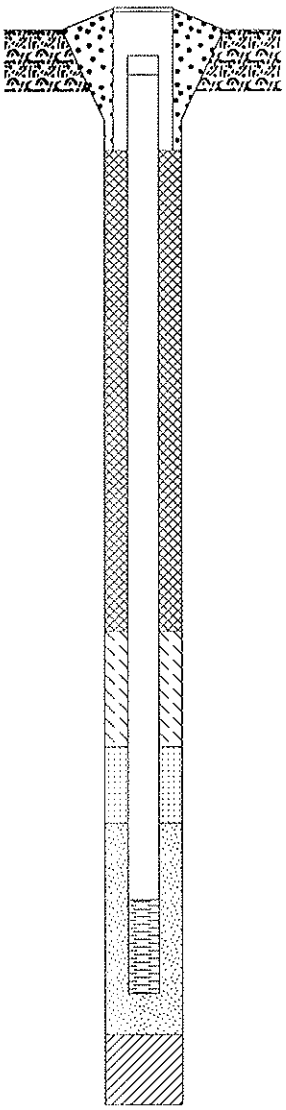
Depth to Water: _____ ft. Depth to Bottom: _____ ft.

Comments: _____

WELL CONSTRUCTION DIAGRAM

PROJECT:	Former Warner Electric					WELL NUMBER:	MP-01C
PROJ. NO:	2541.27	DATE INSTALLED:	6/6/2008	INST. BY:	Matrix Environmental	OBSV. BY:	Lance Bakken
NW 1/4 of NW 1/4 of Sec. 28, T. 46 N, R. 12 ☒ E ☐ W				State Plane COORDINATES:		ft. N,	ft. E.

ELEVATION (FT., M.S.L.) | DEPTH (FT., BGS)



Depth (FT., BGS)	Item
	PROTECTIVE PIPE
0.0	GROUND SURFACE
	TOP OF WELL
	Suface Seal: Concrete
1.0	BASE OF SURFACE SEAL
	Material Between Protop & Well Casing
	Annular Space Seal: Granular Bentonite
1.0	TOP OF BENTONITE SEAL Bentonite Seal: Granular Bentonite
20.0	TOP OF FINE SAND Fine Sand:
21.0	TOP OF FILTER PACK Filter Pack:
22.0	TOP OF WELL SCREEN Screen Length: 10.0 ft.
32.0	BOTTOM OF WELL
32.0	BOTTOM OF FILTER PACK
32.0	BOTTOM OF BOREHOLE Material Below Filterpack (if any)

1. CASING AND SCREEN DETAILS:

Protective Cover with Lock? No Key No: NA

Protective Cover Description: _____

Riser Pipe (Material & Schedule): Schedule 40 PVC

Well Casing Diameter (in): 1 I.D. 1.315 O.D.

Screen Type: Factory Slotted PVC

Slot Size (in): 0.010 Pipe Joints: Threaded

Borehole Diameter (in): 2 From 0 ft. To 32 ft.

_____ From _____ ft. To _____ ft.

Comments: _____

2. WELL DEVELOPMENT:

Development Method: Intertial Pump

Time Spent Developing (min): _____

Water: Removed: _____ Gallons

Added: _____ Gallons

Water Clarity Before/After Development:

Before: _____

After: _____

Water Level Information:

Before Development:

Measurement Date/Time: _____

Depth to Water: _____ ft. Depth to Bottom: _____ ft.

After Development:

Measurement Date/Time: _____

Depth to Water: _____ ft. Depth to Bottom: _____ ft.

Comments: _____

SOIL BORING LOG

RMT

BORING NO. MP-02C

Facility/Project Name:	Date Drilling Started:	Date Drilling Completed:	Project Number:
Former Warner Electric	6/7/08	6/7/08	2541.27

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

Boring Location:	Personnel	Drilling Equipment:
NW ¼ of NW ¼ of Section 28, T 46 R 12 E	Logged By - Lance Bakken Driller - Guy Puquette	Geoprobe

Civil Town/City/or Village:	County:	State:	Water Level Observations:
Roscoe	Winnebago	Illinois	While Drilling: Date/Time ▽ Depth (ft bgs) 27 After Drilling: Date/Time Depth (ft bgs)

SAMPLE NUMBER AND TYPE	RECOVERY (%)	BLOW COUNTS	DEPTH IN FEET	LITHOLOGIC DESCRIPTION	USCS	GRAPHIC LOG	PID (PPM)	COMMENTS
1 GP	100		2	**POORLY GRADED SAND WITH GRAVEL, SP** 50% fine to coarse grained sand, 40% fine to coarse grained gravel, 10% fines, brown, no odor, dry, loose.	SP		14	
			4					
2 GP	100		6	**SILTY SAND, SM** 75% fine to medium grained sand, 25% fines, non plastic, dark brown, no odor, slightly moist, loose.	SM		10	
			8	**POORLY GRADED SAND WITH GRAVEL, SP** 50% fine to coarse grained sand, 45% fine to coarse grained gravel, 5% fines, brown, no odor, dry, loose.				
3 GP	100		10				12	
			12	As above.				
4 GP	100		14		SP			
			16	As above.				
5 GP	100		18				5	

Signature:	Firm: RMTINC
	Fax

Checked By: J. Buss

SOIL BORING WELL CONSTRUCTION LOG 02541WGENERIC.GPJ RMT_CORP.GDT 2541.27 8/20/08

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SOIL BORING LOG

RMT

BORING NO. MP-02C

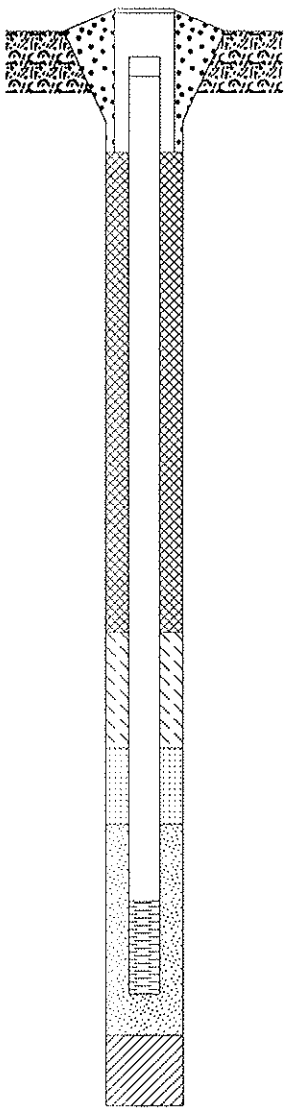
SAMPLE NUMBER AND TYPE	SAMPLE RECOVERY (%)	BLOW COUNTS	DEPTH IN FEET	LITHOLOGIC DESCRIPTION	USCS	GRAPHIC LOG	PID (PPM)	COMMENTS
				As above, increasing sand at 23 feet.				
6 GP	100		22				5	
			24	As above.	SP			
7 GP	100		26				4	
			28	As above, increasing sand, decreasing gravel.				
8 GP	100		30	**POORLY GRADED SAND, SP** 95% fine to coarse grained sand, 5% fines, brown, no odor, wet, loose.	SP		3	
			32	**End of boring at 32 feet.**				
			34					
			36					
			38					
			40					
			42					
			44					
			46					

SOIL BORING WELL CONSTRUCTION LOG 02541WGENERIC.GPJ RMT_CORP.GDT 2541.27 8/20/08

WELL CONSTRUCTION DIAGRAM

PROJECT:	Former Warner Electric					WELL NUMBER:	MP-02A
PROJ. NO:	2541.27	DATE INSTALLED:	6/7/2008	INST. BY:	Matrix Environmental	OBSV. BY:	Lance Bakken
NW 1/4 of NW 1/4 of Sec. 28, T. 46 N, R. 12 ☒ E ☐ W				State Plane COORDINATES: ____ ft. N, ____ ft. E.			

ELEVATION (FT., M.S.L.) | DEPTH (FT., BGS)



Depth (FT., BGS)	Elevation (FT., M.S.L.)	Description
		PROTECTIVE PIPE
0.0		GROUND SURFACE
		TOP OF WELL
		Suface Seal: Concrete
1.0		BASE OF SURFACE SEAL
		Material Between Protop & Well Casing
		Annular Space Seal: Granular Bentonite
1.0		TOP OF BENTONITE SEAL Bentonite Seal: Granular Bentonite
		TOP OF FINE SAND Fine Sand:
4.0		TOP OF FILTER PACK Filter Pack:
5.0		TOP OF WELL SCREEN Screen Length: 5.0 ft.
10.0		BOTTOM OF WELL
10.0		BOTTOM OF FILTER PACK
10.0		BOTTOM OF BOREHOLE Material Below Filterpack (if any)

1. CASING AND SCREEN DETAILS:

Protective Cover with Lock? No Key No: NA

Protective Cover Description: ____

Riser Pipe (Material & Schedule): Schedule 40 PVC

Well Casing Diameter (in): 1 I.D. 1.315 O.D.

Screen Type: Factory Slotted PVC

Slot Size (in): 0.010 Pipe Joints: Threaded

Borehole Diameter (in): 2 From 0 ft. To 10 ft.

____ From ____ ft. To ____ ft.

Comments: ____

2. WELL DEVELOPMENT:

Development Method: Intertial Pump

Time Spent Developing (min): ____

Water: Removed: ____ Gallons

Added: ____ Gallons

Water Clarity Before/After Development:

Before: ____

After: ____

Water Level Information:

Before Development:

Measurement Date/Time: ____

Depth to Water: ____ ft. Depth to Bottom: ____ ft.

After Development:

Measurement Date/Time: ____

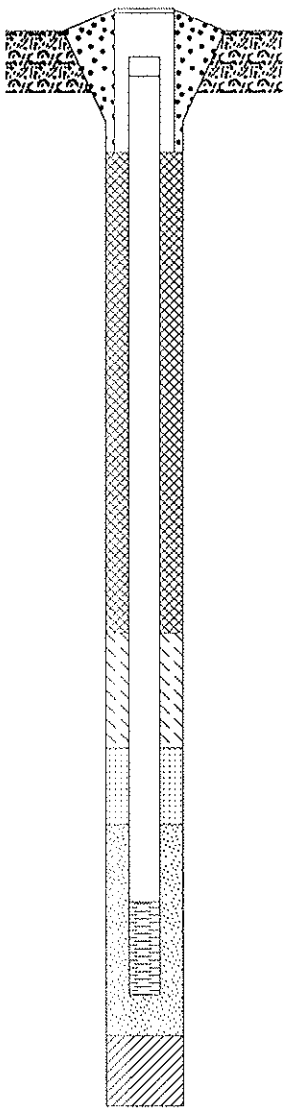
Depth to Water: ____ ft. Depth to Bottom: ____ ft.

Comments: ____

WELL CONSTRUCTION DIAGRAM

PROJECT:	Former Warner Electric				WELL NUMBER:	MP-02B
PROJ. NO:	2541.27	DATE INSTALLED:	6/7/2008	INST. BY: Matrix Environmental	OBSV. BY:	Lance Bakken
NW 1/4 of NW 1/4 of Sec. 28, T. 46 N, R. 12 ☒ E ☐ W				State Plane COORDINATES: ____ ft. N, ____ ft. E.		

ELEVATION (FT., M.S.L.) | DEPTH (FT., BGS)



Depth (FT., BGS)	Description
	PROTECTIVE PIPE
0.0	GROUND SURFACE
	TOP OF WELL
	Suface Seal: Concrete
1.0	BASE OF SURFACE SEAL
	Material Between Protop & Well Casing
	Annular Space Seal: Granular Bentonite
1.0	TOP OF BENTONITE SEAL Bentonite Seal: Granular Bentonite
11.0	TOP OF FINE SAND Fine Sand:
12.0	TOP OF FILTER PACK Filter Pack:
13.0	TOP OF WELL SCREEN Screen Length: 5.0 ft.
18.0	BOTTOM OF WELL
18.0	BOTTOM OF FILTER PACK
18.0	BOTTOM OF BOREHOLE Material Below Filterpack (if any)

1. CASING AND SCREEN DETAILS:

Protective Cover with Lock? No Key No: NA

Protective Cover Description: ____

Riser Pipe (Material & Schedule): Schedule 40 PVC

Well Casing Diameter (in): 1 I.D. 1.315 O.D.

Screen Type: Factory Slotted PVC

Slot Size (in): 0.010 Pipe Joints: Threaded

Borehole Diameter (in): 2 From 0 ft. To 18 ft.

____ From ____ ft. To ____ ft.

Comments: ____

2. WELL DEVELOPMENT:

Development Method: Intertial Pump

Time Spent Developing (min): ____

Water: Removed: ____ Gallons

Added: ____ Gallons

Water Clarity Before/After Development:

Before: ____

After: ____

Water Level Information:

Before Development:

Measurement Date/Time: ____

Depth to Water: ____ ft. Depth to Bottom: ____ ft.

After Development:

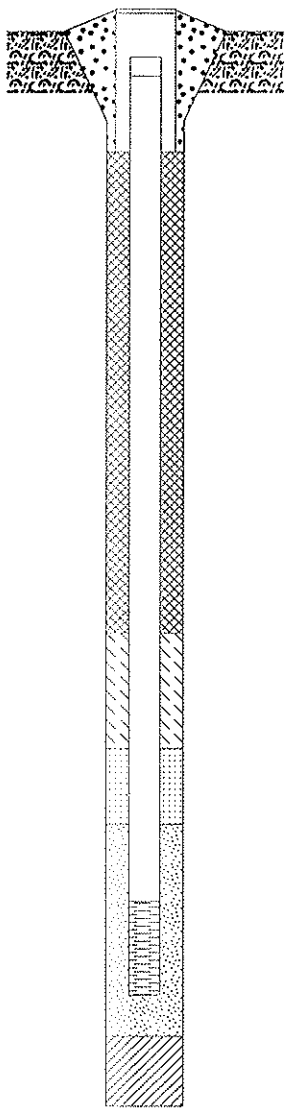
Measurement Date/Time: ____

Depth to Water: ____ ft. Depth to Bottom: ____ ft.

Comments: ____

WELL CONSTRUCTION DIAGRAM

PROJECT:	Former Warner Electric					WELL NUMBER:	MP-02C
PROJ. NO:	2541.27	DATE INSTALLED:	6/7/2008	INST. BY:	Matrix Environmental	OBSV. BY:	Lance Bakken
NW 1/4 of NW 1/4 of Sec. 28, T. 46 N, R. 12 ☒ E ☐ W				State Plane COORDINATES:		ft. N,	ft. E.



ELEVATION (FT., M.S.L.)	DEPTH (FT., BGS)	
		PROTECTIVE PIPE
	0.0	GROUND SURFACE
		TOP OF WELL
		Suface Seal: Concrete
	1.0	BASE OF SURFACE SEAL
		Material Between Protop & Well Casing
		Annular Space Seal: Granular Bentonite
	1.0	TOP OF BENTONITE SEAL Bentonite Seal: Granular Bentonite
	20.0	TOP OF FINE SAND Fine Sand:
	21.0	TOP OF FILTER PACK Filter Pack:
	22.0	TOP OF WELL SCREEN Screen Length: 10.0 ft.
	32.0	BOTTOM OF WELL
	32.0	BOTTOM OF FILTER PACK
	32.0	BOTTOM OF BOREHOLE Material Below Filterpack (if any)

1. CASING AND SCREEN DETAILS:

Protective Cover with Lock? No Key No: NA

Protective Cover Description: _____

Riser Pipe (Material & Schedule): Schedule 40 PVC

Well Casing Diameter (in): 1 I.D. 1.315 O.D.

Screen Type: Factory Slotted PVC

Slot Size (in): 0.010 Pipe Joints: Threaded

Borehole Diameter (in): 2 From 0 ft. To 32 ft.

_____ From _____ ft. To _____ ft.

Comments: _____

2. WELL DEVELOPMENT:

Development Method: Inertial Pump

Time Spent Developing (min): _____

Water: Removed: _____ Gallons

Added: _____ Gallons

Water Clarity Before/After Development:

Before: _____

After: _____

Water Level Information:

Before Development:

Measurement Date/Time: _____

Depth to Water: _____ ft. Depth to Bottom: _____ ft.

After Development:

Measurement Date/Time: _____

Depth to Water: _____ ft. Depth to Bottom: _____ ft.

Comments: _____

SOIL BORING LOG

RMT

BORING NO. MP-03C

Facility/Project Name:	Date Drilling Started:	Date Drilling Completed:	Project Number:
Former Warner Electric	6/7/08	6/7/08	2541.27

Drilling Firm:	Drilling Method:	Surface Elev. (ft)	TOC Elevation (ft)	Total Depth (ft bgs)	Borehole Dia. (in)
Matrix Environmental	Direct Push	---	---	26.0	2

Boring Location:	Personnel	Drilling Equipment:
NW ¼ of NW ¼ of Section 28, T 46 R 12 E	Logged By - Lance Bakken Driller - Guy Puquette	Geoprobe

Civil Town/City/or Village:	County:	State:	Water Level Observations:
Roscoe	Winnebago	Illinois	While Drilling: Date/Time Depth (ft bgs) After Drilling: Date/Time Depth (ft bgs)

SAMPLE NUMBER AND TYPE	RECOVERY (%)	BLOW COUNTS	DEPTH IN FEET	LITHOLOGIC DESCRIPTION	USCS	GRAPHIC LOG	PID (PPM)	COMMENTS
1 GP	100		2	**POORLY GRADED SAND WITH GRAVEL, SP** 50% fine to coarse grained sand, 40% fine to coarse grained gravel, 10% fines, brown, no odor, dry, loose.	SP		ND	
2 GP	100		4 6 8	**SILTY SAND, SM** 75% fine to medium grained sand, 25% fines, slightly plastic, dark brown, no odor, slightly moist, loose. **SILTY SAND, SM** 85% fine to medium grained sand, 15% fines, slightly plastic, light brown, no odor, slightly moist, slightly dense.	SM		ND	
3 GP	100		10 12	**POORLY GRADED SAND WITH GRAVEL, SP** 50% fine to coarse grained sand, 40% fine to coarse grained gravel, 10% fines, brown, no odor, slightly moist, loose.	SP		ND	
4 GP	100		14 16	**POORLY GRADED SAND WITH GRAVEL, SP** 50% medium to coarse grained sand, 40% fine to coarse grained gravel, 10% fines, brown, no odor, slightly moist loose. **POORLY GRADED SAND WITH GRAVEL, SP** 50% fine to coarse grained sand, 40% fine to coarse grained gravel, 10% fines, brown, no odor, slightly moist, loose.			ND	
5 GP	100		18	**POORLY GRADED SAND WITH SILT AND GRAVEL, SP-SM** 60% fine to coarse grained sand, 30% fine grained gravel, 10% fines, non plastic, light brown, no odor, dry, loose.	SP-SM		ND	

SOIL BORING WELL CONSTRUCTION LOG 02541WGENERIC.GPJ RMT CORP.GDT 2541.27 8/20/08

Signature:	Firm: RMTINC
	Fax

Checked By: J. Buss

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SOIL BORING LOG

RMT

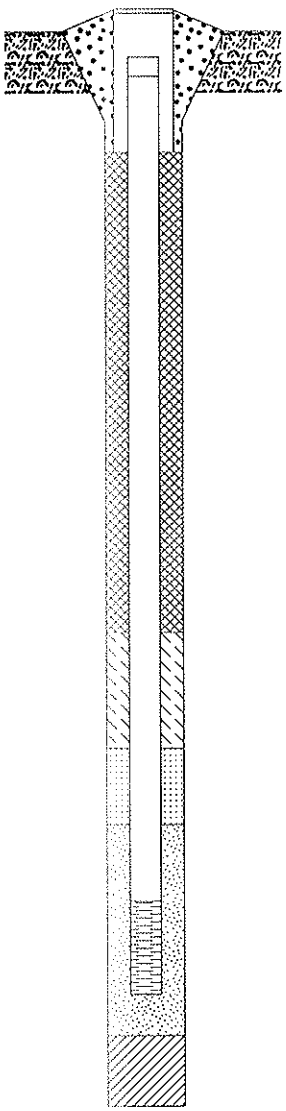
BORING NO. MP-03C

SAMPLE NUMBER AND TYPE	SAMPLE RECOVERY (%)	BLOW COUNTS	DEPTH IN FEET	LITHOLOGIC DESCRIPTION	USCS	GRAPHIC LOG	PID (PPM)	COMMENTS
6 GP	100		22	**POORLY GRADED SAND WITH SILT AND GRAVEL, SP-SM** 70% fine to coarse grained sand, 25% fine grained gravel, 5% fines, non plastic, light brown, no odor, dry, loose.	SP-SM			
7 GP	0		24					
			26	**End of boring at 26 feet.** Refusal, no recovery.				
			28					
			30					
			32					
			34					
			36					
			38					
			40					
			42					
			44					
			46					

WELL CONSTRUCTION DIAGRAM

PROJECT:	Former Warner Electric				WELL NUMBER:	MP-03A
PROJ. NO:	2541.27	DATE INSTALLED:	6/9/2008	INST. BY: Matrix Environmental	OBSV. BY:	Lance Bakken
NW 1/4 of NW 1/4 of Sec. 28, T. 46 N, R. 12 ☒ E ☐ W				State Plane COORDINATES: _____ ft. N, _____ ft. E.		

ELEVATION (FT., M.S.L.) | DEPTH (FT., BGS)



Depth (FT., BGS)	Item
	PROTECTIVE PIPE
0.0	GROUND SURFACE
	TOP OF WELL
	Suface Seal: Concrete
1.0	BASE OF SURFACE SEAL
	Material Between Protop & Well Casing
	Annular Space Seal: Granular Bentonite
1.0	TOP OF BENTONITE SEAL
	Bentonite Seal: Granular Bentonite
	TOP OF FINE SAND
	Fine Sand:
4.0	TOP OF FILTER PACK
	Filter Pack:
5.0	TOP OF WELL SCREEN
	Screen Length: 5.0 ft.
10.0	BOTTOM OF WELL
10.0	BOTTOM OF FILTER PACK
10.0	BOTTOM OF BOREHOLE
	Material Below Filterpack (if any)

1. CASING AND SCREEN DETAILS:

Protective Cover with Lock? No Key No: NA

Protective Cover Description: _____

Riser Pipe (Material & Schedule): Schedule 40 PVC

Well Casing Diameter (in): 1 I.D. 1.315 O.D.

Screen Type: Factory Slotted PVC

Slot Size (in): 0.010 Pipe Joints: Threaded

Borehole Diameter (in): 2 From 0 ft. To 10 ft.

_____ From _____ ft. To _____ ft.

Comments: _____

2. WELL DEVELOPMENT:

Development Method: Inertial Pump

Time Spent Developing (min): _____

Water: Removed: _____ Gallons

Added: _____ Gallons

Water Clarity Before/After Development:

Before: _____

After: _____

Water Level Information:

Before Development:

Measurement Date/Time: _____

Depth to Water: _____ ft. Depth to Bottom: _____ ft.

After Development:

Measurement Date/Time: _____

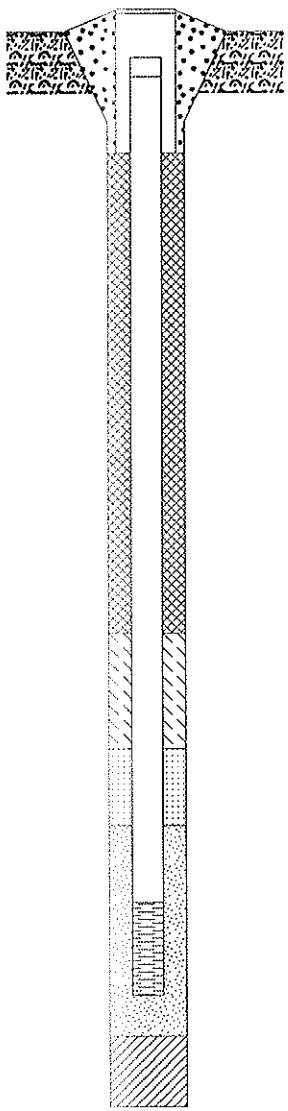
Depth to Water: _____ ft. Depth to Bottom: _____ ft.

Comments: _____

RMT INC.

WELL CONSTRUCTION DIAGRAM

PROJECT:	Former Warner Electric					WELL NUMBER:	MP-03B
PROJ. NO:	2541.27	DATE INSTALLED:	6/9/2008	INST. BY:	Matrix Environmental	OBSV. BY:	Lance Bakken
NW 1/4 of NW 1/4 of Sec. 28, T. 46 N, R. 12 ☒ E ☐ W				State Plane COORDINATES:		ft. N,	ft. E.



ELEVATION (FT., M.S.L.)	DEPTH (FT., BGS)	
		PROTECTIVE PIPE
	0.0	GROUND SURFACE
		TOP OF WELL
		Suface Seal: Concrete
	1.0	BASE OF SURFACE SEAL
		Material Between Protop & Well Casing
		Annular Space Seal: Granular Bentonite
	1.0	TOP OF BENTONITE SEAL Bentonite Seal: Granular Bentonite
		TOP OF FINE SAND Fine Sand:
	12.0	TOP OF FILTER PACK Filter Pack:
	13.0	TOP OF WELL SCREEN
		Screen Length: 5.0 ft.
	18.0	BOTTOM OF WELL
	18.0	BOTTOM OF FILTER PACK
	18.0	BOTTOM OF BOREHOLE
		Material Below Filterpack (if any)

1. CASING AND SCREEN DETAILS:

Protective Cover with Lock? No Key No: NA

Protective Cover Description: _____

Riser Pipe (Material & Schedule): Schedule 40 PVC

Well Casing Diameter (in): 1 I.D. 1.315 O.D.

Screen Type: Factory Slotted PVC

Slot Size (in): 0.010 Pipe Joints: Threaded

Borehole Diameter (in): 2 From 0 ft. To 18 ft.

_____ From _____ ft. To _____ ft.

Comments: _____

2. WELL DEVELOPMENT:

Development Method: Inertial Pump

Time Spent Developing (min): _____

Water: Removed: _____ Gallons

Added: _____ Gallons

Water Clarity Before/After Development:

Before: _____

After: _____

Water Level Information:

Before Development:

Measurement Date/Time: _____

Depth to Water: _____ ft. Depth to Bottom: _____ ft.

After Development:

Measurement Date/Time: _____

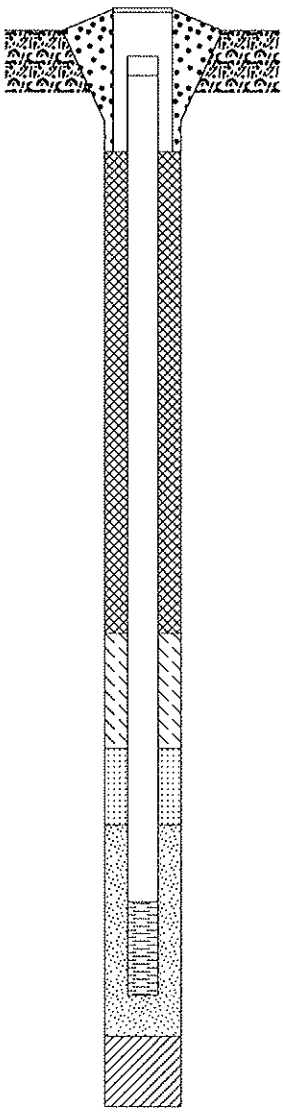
Depth to Water: _____ ft. Depth to Bottom: _____ ft.

Comments: _____

WELL CONSTRUCTION DIAGRAM

PROJECT:	Former Warner Electric					WELL NUMBER:	MP-03C
PROJ. NO:	2541.27	DATE INSTALLED:	6/9/2008	INST. BY:	Matrix Environmental	OBSV. BY:	Lance Bakken
NW 1/4 of NW 1/4 of Sec. 28, T. 46 N, R. 12 ☒ E ☐ W				State Plane COORDINATES:	ft. N, ft. E.		

ELEVATION (FT., M.S.L.) | DEPTH (FT., BGS)



Depth (FT., BGS)	Item
	PROTECTIVE PIPE
0.0	GROUND SURFACE
	TOP OF WELL
	Suface Seal: Concrete
1.0	BASE OF SURFACE SEAL
	Material Between Protop & Well Casing
	Annular Space Seal: Granular Bentonite
1.0	TOP OF BENTONITE SEAL
	Bentonite Seal: Granular Bentonite
14.0	TOP OF FINE SAND
	Fine Sand:
15.0	TOP OF FILTER PACK
	Filter Pack:
16.0	TOP OF WELL SCREEN
	Screen Length: 10.0 ft.
26.0	BOTTOM OF WELL
26.0	BOTTOM OF FILTER PACK
26.0	BOTTOM OF BOREHOLE
	Material Below Filterpack (if any)

1. CASING AND SCREEN DETAILS:

Protective Cover with Lock? No Key No: NA

Protective Cover Description: _____

Riser Pipe (Material & Schedule): Schedule 40 PVC

Well Casing Diameter (in): 1 I.D. 1.315 O.D.

Screen Type: Factory Slotted PVC

Slot Size (in): 0.010 Pipe Joints: Threaded

Borehole Diameter (in): 2 From 0 ft. To 26 ft.

_____ From _____ ft. To _____ ft.

Comments: _____

2. WELL DEVELOPMENT:

Development Method: Inertial Pump

Time Spent Developing (min): _____

Water: Removed: _____ Gallons

Added: _____ Gallons

Water Clarity Before/After Development:

Before: _____

After: _____

Water Level Information:

Before Development:

Measurement Date/Time: _____

Depth to Water: _____ ft. Depth to Bottom: _____ ft.

After Development:

Measurement Date/Time: _____

Depth to Water: _____ ft. Depth to Bottom: _____ ft.

Comments: _____

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Attachment 3

Tabulated Test Data and Charts

SVE SYSTEM PILOT TEST SUMMARY
STEP TEST - Recovery and Emissions Estimate
Dana Holding Corporation - Former Warner Electric
Roscoe, Illinois
Project # 2541.27

INLET RESULTS

				System Measurements							Inlet Laboratory Results						Recovery Rate					
	Date	Elapsed Time	Time	Blower air Pressure	Blower air Temp	System Vacuum[1]	Wellhead Vacuum	Wellhead Differential Pressure	Wellhead Flow Rate Equation	Flow Rate	PCE	TCE	cis-DCE	1,1-DCE	1,1,1-TCA	1,1-DCA	PCE	TCE	cis-DCE	1,1-DCE	1,1,1-TCA	1,1,-DCA
				(in Hg)	(deg F)	(in Hg)	(in Hg)	(in w.c.)	(scfm)	(L/min)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(lb/hr)	(lb/hr)	(lb/hr)	(lb/hr)	(lb/hr)	(lb/hr)
Begin Test on SVE-Shallow																						
SVE-S	7/28/2008		11:53	12.3	150	5	4	13	202	5715	--	--	--	--	--	--	--	--	--	--	--	--
	7/28/2008	16	12:09	12.3	190	5	4	13	202	5715	2.1	770 E	120 E	< 2.0	5.1	2.3	0.0016	0.5821	0.0907	--	0.0039	0.0017
	7/28/2008	22	12:31	12.3	195	5	4	12.5	198	5604	--	--	--	--	--	--	--	--	--	--	--	--
	7/28/2008		12:43	13	210	9.5	7	22	263	7435	--	--	--	--	--	--	--	--	--	--	--	--
	7/28/2008	15	12:58	14	245	10.5	7.7	32.5	319	9037	--	--	--	--	--	--	--	--	--	--	--	--
	7/28/2008	16	13:14	14	250	10.5	7.6	32.5	319	9037	--	--	--	--	--	--	--	--	--	--	--	--
	7/28/2008	15	13:29	14	250	10.5	7.6	32.5	319	9037	--	--	--	--	--	--	--	--	--	--	--	--
	7/28/2008		14:05	15	275	12.5	9	44	371	10515	--	--	--	--	--	--	--	--	--	--	--	--
	7/28/2008	15	14:20	15	280	11.5	8.7	42	363	10273	--	--	--	--	--	--	--	--	--	--	--	--
	7/28/2008	15	14:35	15	280	11.5	8.7	42	363	10273	--	--	--	--	--	--	--	--	--	--	--	--
Begin Test on SVE-Intermediate																						
SVE-I	7/29/2008		8:30	9.2	130	2.5	4	16	224	6341	--	--	--	--	--	--	--	--	--	--	--	--
	7/29/2008	15	8:45	9.2	160	3	4.5	16	224	6341	--	--	--	--	--	--	--	--	--	--	--	--
	7/29/2008	18	9:03	9.2	170	3	4.5	16	224	6341	0.98 LC	860 E	160 E	< 2.0	11	5.2	0.0008	0.7213	0.1342	--	0.0092	0.0044
	7/29/2008		9:40	10.8	185	5.5	7.2	40	354	10026	--	--	--	--	--	--	--	--	--	--	--	--
	7/29/2008	17	9:57	11	200	5.5	7.2	40	354	10026	--	--	--	--	--	--	--	--	--	--	--	--
	7/29/2008	15	10:12	11	200	5.5	7.2	40	354	10026	1.2 LC	860 E	140 E	< 2.0	11	5.5	0.0016	1.1405	0.1857	--	0.0146	0.0073
	7/29/2008		10:28	12.5	208	7.5	9	60	434	12279	--	--	--	--	--	--	--	--	--	--	--	--
	7/29/2008	15	10:43	12.5	219	7.5	9	60	434	12279	--	--	--	--	--	--	--	--	--	--	--	--
	7/29/2008	15	10:58	12.5	220	7.5	9	60	434	12279	3.5 LC	860 E	140 E	< 2.0	11	6	0.0057	1.3968	0.2274	--	0.0179	0.0097
Begin Test on SVE-Deep																						
SVE-D	7/29/2008		12:45	10	210	4	4	45	376	10634	--	--	--	--	--	--	--	--	--	--	--	--
	7/29/2008	15	13:00	10	185	4	4	45	376	10634	0.25 LC	540 E	100	< 2.0	12	4.9	0.0004	0.7596	0.1407	--	0.0169	0.0069
	7/29/2008	15	13:15	10	180	4	4	45	376	10634	--	--	--	--	--	--	--	--	--	--	--	--
	7/29/2008		13:25	12	200	7	7	88	525	14870	--	--	--	--	--	--	--	--	--	--	--	--
	7/29/2008	15	13:40	12	215	7	7	88	525	14870	--	--	--	--	--	--	--	--	--	--	--	--
	7/29/2008	15	13:55	12	218	7	7	88	525	14870	--	--	--	--	--	--	--	--	--	--	--	--
	7/29/2008		14:25	14	240	10	9.5	122	618	17509	--	--	--	--	--	--	--	--	--	--	--	--
	7/29/2008	25	14:50	14	250	10	9.5	122	618	17509	--	--	--	--	--	--	--	--	--	--	--	--
	7/29/2008	15	15:05	14	255	10	9.5	122	618	17509	--	--	--	--	--	--	--	--	--	--	--	--

-- = not sampled or not calculated

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SVE SYSTEM PILOT TEST SUMMARY
STEP TEST - Recovery and Emissions Estimate
Dana Holding Corporation - Former Warner Electric
Roscoe, Illinois
Project # 2541.27

EXHAUST RESULTS

				System Measurements							Exhaust Laboratory Results						Emission Rate					
	Date	Time	Time	Pressure	Temp	Vacuum(1)	Vacuum	Differential	Flow Rate	Flow Rate	PCE	TCE	cis-DCE	1,1-DCE	1,1,1-TCA	1,1-DCA	PCE	TCE	cis-DCE	1,1-DCE	1,1,1-TCA	1,1,-DCA
				(in Hg)	(deg F)	(in Hg)	(in Hg)	(in w.c.)	(scfm)	(L/min)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(lb/hr)	(lb/hr)	(lb/hr)	(lb/hr)	(lb/hr)	(lb/hr)
Begin Test on SVE-Shallow																						
SVE-S	7/28/2008		11:53	12.3	150	5	4	13	202	5715	--	--	--	--	--	--	--	--	--	--	--	--
	7/28/2008	16	12:09	12.3	190	5	4	13	202	5715	--	--	--	--	--	--	--	--	--	--	--	--
	7/28/2008	22	12:31	12.3	195	5	4	12.5	198	5604	--	--	--	--	--	--	--	--	--	--	--	--
	7/28/2008		12:43	13	210	9.5	7	22	263	7435	--	--	--	--	--	--	--	--	--	--	--	--
	7/28/2008	15	12:58	14	245	10.5	7.7	32.5	319	9037	--	--	--	--	--	--	--	--	--	--	--	--
	7/28/2008	16	13:14	14	250	10.5	7.6	32.5	319	9037	1.2	13	8.8	< 2.0	0.30	< 2.0	0.0014	0.0155	0.0105	--	0.0004	--
	7/28/2008	15	13:29	14	250	10.5	7.6	32.5	319	9037	< 0.2	4.1	< 2.0	< 2.0	< 0.20	< 2.0	--	0.0049	--	--	--	--
	7/28/2008		14:05	15	275	12.5	9	44	371	10515	--	--	--	--	--	--	--	--	--	--	--	--
	7/28/2008	15	14:20	15	280	11.5	8.7	42	363	10273	0.6	4.8	3.6	< 2.0	< 0.2	< 2.0	0.0008	0.0065	0.0049	--	--	--
	7/28/2008	15	14:35	15	280	11.5	8.7	42	363	10273	0.3	3	3.9	< 2.0	< 0.2	< 2.0	0.0004	0.0041	0.0053	--	--	--
Begin Test on SVE-Intermediate																						
SVE-I	7/29/2008		8:30	9.2	130	2.5	4	16	224	6341	--	--	--	--	--	--	--	--	--	--	--	--
	7/29/2008	15	8:45	9.2	160	3	4.5	16	224	6341	--	--	--	--	--	--	--	--	--	--	--	--
	7/29/2008	18	9:03	9.2	170	3	4.5	16	224	6341	< 0.2 LC	14	4.2	< 2.0	0.24	56	--	0.0117	0.0035	--	0.0002	0.0470
	7/29/2008		9:40	10.8	185	5.5	7.2	40	354	10026	--	--	--	--	--	--	--	--	--	--	--	--
	7/29/2008	17	9:57	11	200	5.5	7.2	40	354	10026	--	--	--	--	--	--	--	--	--	--	--	--
	7/29/2008	15	10:12	11	200	5.5	7.2	40	354	10026	< 0.2 LC	28	5.7	< 2.0	0.24	< 2.0	--	0.0371	0.0076	--	0.0003	--
	7/29/2008		10:28	12.5	208	7.5	9	60	434	12279	--	--	--	--	--	--	--	--	--	--	--	--
	7/29/2008	15	10:43	12.5	219	7.5	9	60	434	12279	--	--	--	--	--	--	--	--	--	--	--	--
	7/29/2008	15	10:58	12.5	220	7.5	9	60	434	12279	--	--	--	--	--	--	--	--	--	--	--	--
Begin Test on SVE-Deep																						
SVE-D	7/29/2008		12:45	10	210	4	4	45	376	10634	--	--	--	--	--	--	--	--	--	--	--	--
	7/29/2008	15	13:00	10	185	4	4	45	376	10634	--	--	--	--	--	--	--	--	--	--	--	--
	7/29/2008	15	13:15	10	180	4	4	45	376	10634	--	--	--	--	--	--	--	--	--	--	--	--
	7/29/2008		13:25	12	200	7	7	88	525	14870	--	--	--	--	--	--	--	--	--	--	--	--
	7/29/2008	15	13:40	12	215	7	7	88	525	14870	--	--	--	--	--	--	--	--	--	--	--	--
	7/29/2008	15	13:55	12	218	7	7	88	525	14870	--	--	--	--	--	--	--	--	--	--	--	--
	7/29/2008		14:25	14	240	10	9.5	122	618	17509	--	--	--	--	--	--	--	--	--	--	--	--
	7/29/2008	25	14:50	14	250	10	9.5	122	618	17509	--	--	--	--	--	--	--	--	--	--	--	--
	7/29/2008	15	15:05	14	255	10	9.5	122	618	17509	--	--	--	--	--	--	--	--	--	--	--	--

-- = not sampled or not calculated

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SVE SYSTEM PILOT TEST SUMMARY
CONSTANT RATE TEST - Recovery and Emission Estimates
Dana Holding Corporation - Former Warner Electric
Roscoe, Illinois
Project # 2541.27

INLET RESULTS

				System Measurements							Inlet Laboratory Results						Recovery Rate						
	Date	Elapsed Time	Time	Blower air Pressure	Blower air Temp	System Vacuum[1]	Wellhead Vacuum	Wellhead Differential Pressure	Wellhead Flow Rate Equation	Flow Rate	PCE	TCE	cis-DCE	1,1-DCE	1,1,1-TCA	1,1-DCA	PCE	TCE	cis-DCE	1,1-DCE	1,1,1-TCA	1,1,-DCA	Total VOCs
				(in Hg)	(deg F)	(in Hg)	(in Hg)	(in w.c.)	(scfm)	(L/min)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(lb/hr)	(lb/hr)	(lb/hr)	(lb/hr)	(lb/hr)	(lb/hr)	(lb/hr)
Begin Test on SVE-Shallow																							
SVE-S	7/28/2008		16:05	15.5	210	12.5	9	46	380	10751	1.7	860 E	150 E	< 2.0	10	5.2	0.0024	1.2230	0.2133	--	0.0142	0.0074	1.4604
	7/28/2008	15	16:20	15.5	280	12.7	9.2	46	380	10751	1.1	860 E	150 E	< 2.0	10	5.3	0.0016	1.2230	0.2133	--	0.0142	0.0075	1.4597
	7/28/2008	18	16:38	15.5	285	12.7	9.2	46	380	10751	3.1 LC	860 E	150 E	< 2.0	11	5.6	0.0044	1.2230	0.2133	--	0.0156	0.0080	1.4644
	7/28/2008	16	16:54	15.5	290	12.7	9.2	46	380	10751	1.2 LC	860 E	150 E	< 2.0	10	5.4	0.0017	1.2230	0.2133	--	0.0142	0.0077	1.4600
	7/28/2008	18	17:12	15.5	290	12.7	9.2	46	380	10751	0.93 LC	860 E	140 E	< 2.0	9.5	5.3	0.0013	1.2230	0.1991	--	0.0135	0.0075	1.4445
Begin Test on SVE-Intermediate																							
SVE-I	7/29/2008		11:10	14	235	9.5	11.2	100	560	15852	--	--	--	--	--	--	--	--	--	--	--	--	0
	7/29/2008	15	11:25	14	245	9.5	11.2	100	560	15852	2.3 LC	860 E	120 E	< 2.0	9.8	4.6	0.0048	1.8033	0.2516	--	0.0205	0.0096	2.0899
	7/29/2008	20	11:45	14	245	9.5	11.2	100	560	15852	--	--	--	--	--	--	--	--	--	--	--	--	0
	7/29/2008	20	12:05	14	245	9.5	11.2	100	560	15852	--	--	--	--	--	--	--	--	--	--	--	--	0
	7/29/2008	15	12:20	14	245	9.5	11.2	100	560	15852	0.56 LC	810 E	120 E	< 2.0	9.7	4.3	0.0012	1.6984	0.2516	--	0.0203	0.0090	1.9806
Begin Test on SVE-Deep																							
SVE-D	7/29/2008		15:10	14	260	13	12	190	772	21850	--	--	--	--	--	--	--	--	--	--	--	--	0
	7/29/2008	20	15:30	14	295	13	12	190	772	21850	0.28 LC	490 E	96	< 2.0	11	4	0.0008	1.4162	0.2775	--	0.0318	0.0116	1.7379
	7/29/2008	15	15:45	14	300	13	12	190	772	21850	--	--	--	--	--	--	--	--	--	--	--	--	0
	7/29/2008	15	16:00	14	300	13	12	190	772	21850	--	--	--	--	--	--	--	--	--	--	--	--	0
	7/29/2008	15	16:15	14	300	13	12	190	772	21850	< 0.2 LC	380 E	82	< 2.0	10	3.2	--	1.0983	0.2370	--	0.0289	0.0092	1.3735

-- = not sampled or not calculated

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SVE SYSTEM PILOT TEST SUMMARY
CONSTANT RATE TEST - Recovery and Emission Estimates
Dana Holding Corporation - Former Warner Electric
Roscoe, Illinois
Project # 2541.27

EXHAUST RESULTS

				System Measurements							Exhaust Laboratory Results							Emission Rate						
	Date	Elapsed Time	Time	Blower air Pressure	Blower air Temp	System Vacuum[1]	Wellhead Vacuum	Wellhead Differential Pressure	Wellhead Flow Rate Equation	Flow Rate	PCE	TCE	cis-DCE	1,1-DCE	1,1,1-TCA	1,1-DCA	PCE	TCE	cis-DCE	1,1-DCE	1,1,1-TCA	1,1,-DCA	Total VOCs
				(in Hg)	(deg F)	(in Hg)	(in Hg)	(in w.c.)	(scfm)	(L/min)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(lb/hr)	(lb/hr)	(lb/hr)	(lb/hr)	(lb/hr)	(lb/hr)	(lb/hr)
Begin Test on SVE-Shallow																								
SVE-S	7/28/2008		16:05	15.5	210	12.5	9	46	380	10751	< 0.2	47	9.6	< 2.0	0.33	< 2.0	--	0.0668	0.0137	--	0.0005	--	0.0810
	7/28/2008	15	16:20	15.5	280	12.7	9.2	46	380	10751	< 0.2	16	4.3	< 2.0	< 0.2	< 2.0	--	0.0228	0.0061	--	--	--	0.0289
	7/28/2008	18	16:38	15.5	285	12.7	9.2	46	380	10751	1.1 LC	20	5.4	< 2.0	0.34	< 2.0	0.0016	0.0284	0.0077	--	0.0005	--	0.0382
	7/28/2008	16	16:54	15.5	290	12.7	9.2	46	380	10751	0.5 LC	8	4	< 2.0	< 0.2	< 2.0	0.0007	0.0114	0.0057	--	--	--	0.0178
	7/28/2008	18	17:12	15.5	290	12.7	9.2	46	380	10751	0.21 LC	23	5.5	< 2.0	< 0.2	< 2.0	0.0003	0.0327	0.0078	--	--	--	0.0408
Begin Test on SVE-Intermediate																								
SVE-I	7/29/2008		11:10	14	235	9.5	11.2	100	560	15852	--	--	--	--	--	--	--	--	--	--	--	--	
	7/29/2008	15	11:25	14	245	9.5	11.2	100	560	15852	0.44 LC	38	8.9	< 2.0	0.32	< 2.0	0.0009	0.0797	0.0187	--	0.0007	--	0.0999
	7/29/2008	20	11:45	14	245	9.5	11.2	100	560	15852	--	--	--	--	--	--	--	--	--	--	--	--	0
	7/29/2008	20	12:05	14	245	9.5	11.2	100	560	15852	--	--	--	--	--	--	--	--	--	--	--	--	0
	7/29/2008	15	12:20	14	245	9.5	11.2	100	560	15852	< 0.2 LC	23	5.3	< 2.0	0.24	< 2.0	--	0.0482	0.0111	--	0.0005	--	0.0598
Begin Test on SVE-Deep																								
SVE-D	7/29/2008		15:10	14	260	13	12	190	772	21850	--	--	--	--	--	--	--	--	--	--	--	--	
	7/29/2008	20	15:30	14	295	13	12	190	772	21850	< 0.2 LC	20	4.8	< 2.0	0.32	< 2.0	--	0.0578	0.0139	--	0.0009	--	0.0726
	7/29/2008	15	15:45	14	300	13	12	190	772	21850	--	--	--	--	--	--	--	--	--	--	--	--	0
	7/29/2008	15	16:00	14	300	13	12	190	772	21850	--	--	--	--	--	--	--	--	--	--	--	--	0
	7/29/2008	15	16:15	14	300	13	12	190	772	21850	2.7 LC	2.8	3	< 2.0	0.53	< 2.0	0.0078	0.0081	0.0087	--	0.0015	--	0.0261

-- = not sampled or not calculated

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SVE SYSTEM PILOT TEST SUMMARY
STEP TEST - PID Results
Dana Holding Corporation - Former Warner Electric
Roscoe, Illinois
Project # 2541.27

				System Measurements							PID Field Readings			Converted Field Readings (normalized to TCE)		
	Date	Elapsed Time	Time	Blower air Pressure	Blower air Temp	System Vacuum[1]	Wellhead Vacuum	Wellhead Differential Pressure	Wellhead Flow Rate Equation	Flow Rate	Inlet	Post Carbon	Exhaust, post blower	Inlet	Post Carbon	Exhaust, post blower
				(in Hg)	(deg F)	(in Hg)	(in Hg)	(in w.c.)	(scfm)	(L/min)	(ppmv)	(ppmv)	(ppmv)	(ug/L)	(ug/L)	(ug/L)
Begin Test on SVE-Shallow																
SVE-S	7/28/2008		11:53	12.3	150	5	4	13	202	5715	NS	NS	NS	NS	NS	NS
	7/28/2008	16	12:09	12.3	190	5	4	13	202	5715	NS	NS	NS	NS	NS	NS
	7/28/2008	22	12:31	12.3	195	5	4	12.5	198	5604	NS	NS	NS	NS	NS	NS
	7/28/2008		12:43	13	210	9.5	7	22	263	7435	NS	NS	NS	NS	NS	NS
	7/28/2008	15	12:58	14	245	10.5	7.7	32.5	319	9037	NS	NS	NS	NS	NS	NS
	7/28/2008	16	13:14	14	250	10.5	7.6	32.5	319	9037	NS	NS	NS	NS	NS	NS
	7/28/2008	15	13:29	14	250	10.5	7.6	32.5	319	9037	NS	NS	NS	NS	NS	NS
	7/28/2008		14:05	15	275	12.5	9	44	371	10515	NS	NS	NS	NS	NS	NS
	7/28/2008	15	14:20	15	280	11.5	8.7	42	363	10273	NS	NS	NS	NS	NS	NS
	7/28/2008	15	14:35	15	280	11.5	8.7	42	363	10273	NS	NS	NS	NS	NS	NS
Begin Test on SVE-Intermediate																
SVE-I	7/29/2008		8:30	9.2	130	2.5	4	16	224	6341	NA	NS	NA	NA	NS	NA
	7/29/2008	15	8:45	9.2	160	3	4.5	16	224	6341	NA	NS	NA	NA	NS	NA
	7/29/2008	18	9:03	9.2	170	3	4.5	16	224	6341	NA	NS	NA	NA	NS	NA
	7/29/2008		9:40	10.8	185	5.5	7.2	40	354	10026	NA	NS	NA	NA	NS	NA
	7/29/2008	17	9:57	11	200	5.5	7.2	40	354	10026	265	NS	< 5	1448	NS	< 27.3
	7/29/2008	15	10:12	11	200	5.5	7.2	40	354	10026	240	NS	< 5	1311	NS	< 27.3
	7/29/2008		10:28	12.5	208	7.5	9	60	434	12279	260	NS	< 4	1421	NS	< 21.9
	7/29/2008	15	10:43	12.5	219	7.5	9	60	434	12279	270	NS	7.6	1475	NS	42
	7/29/2008	15	10:58	12.5	220	7.5	9	60	434	12279	270	NS	4.9	1475	NS	27
Begin Test on SVE-Deep																
SVE-D	7/29/2008		12:45	10	210	4	4	45	376	10634	173	NS	3.1	945	NS	17
	7/29/2008	15	13:00	10	185	4	4	45	376	10634	170	37	3.1	929	202	17
	7/29/2008	15	13:15	10	180	4	4	45	376	10634	164	33	NS	896	180	NS
	7/29/2008		13:25	12	200	7	7	88	525	14870	181	38	3.1	989	208	17
	7/29/2008	15	13:40	12	215	7	7	88	525	14870	168	22	3.9	918	120	21
	7/29/2008	15	13:55	12	218	7	7	88	525	14870	171	34	4	934	186	22
	7/29/2008		14:25	14	240	10	9.5	122	618	17509	147	26	3.1	803	142	17
	7/29/2008	25	14:50	14	250	10	9.5	122	618	17509	135	31	2.2	738	169	12
	7/29/2008	15	15:05	14	255	10	9.5	122	618	17509	149	24	2.2	814	131	12

NS = not sampled
NA = not accurate

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SVE SYSTEM PILOT TEST SUMMARY
CONSTANT RATE TEST - PID Results
Dana Holding Corporation - Former Warner Electric
Roscoe, Illinois
Project # 2541.27

				System Measurements							PID Field Readings		
	Date	Elapsed Time	Time	Blower air Pressure	Blower air Temp	System Vacuum[1]	Wellhead Vacuum	Wellhead Differential Pressure	Wellhead Flow Rate Equation	Flow Rate	Inlet	Post Carbon	Exhaust, post blower
				(in Hg)	(deg F)	(in Hg)	(in Hg)	(in w.c.)	(scfm)	(L/min)	(ppmv)	(ppmv)	(ppmv)
Begin Test on SVE-Shallow													
SVE-S	7/28/2008		16:05	15.5	210	12.5	9	46	380	10751	NS	NS	NS
	7/28/2008	15	16:20	15.5	280	12.7	9.2	46	380	10751	NS	NS	NS
	7/28/2008	18	16:38	15.5	285	12.7	9.2	46	380	10751	NS	NS	NS
	7/28/2008	16	16:54	15.5	290	12.7	9.2	46	380	10751	NS	NS	NS
	7/28/2008	18	17:12	15.5	290	12.7	9.2	46	380	10751	NS	NS	NS
Begin Test on SVE-Intermediate													
SVE-I	7/29/2008		11:10	14	235	9.5	11.2	100	560	15852	233	NS	2.2
	7/29/2008	15	11:25	14	245	9.5	11.2	100	560	15852	215	NS	2.2
	7/29/2008	20	11:45	14	245	9.5	11.2	100	560	15852	203	NS	3.1
	7/29/2008	20	12:05	14	245	9.5	11.2	100	560	15852	195	NS	4
	7/29/2008	15	12:20	14	245	9.5	11.2	100	560	15852	197	NS	3.1
Begin Test on SVE-Deep													
SVE-D	7/29/2008		15:10	14	260	13	12	190	772	21850	NS	NS	NS
	7/29/2008	20	15:30	14	295	13	12	190	772	21850	148	36	2.2
	7/29/2008	15	15:45	14	300	13	12	190	772	21850	140	15	< 2.0
	7/29/2008	15	16:00	14	300	13	12	190	772	21850	NS	NS	NS
	7/29/2008	15	16:15	14	300	13	12	190	772	21850	NS	NS	NS

NS = Not Sampled

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SVE SYSTEM PILOT TEST SUMMARY
CONSTANT RATE TEST - Field/Lab Correlation
Dana Holding Corporation - Former Warner Electric
Roscoe, Illinois
Project # 2541.27

INLET RESULTS

					System Measurements							Inlet Lab Results - converted							Field readings
	Date	Elapsed Time	Cum. Time	Time	Blower air Pressure	Blower air Temp	System Vacuum[1]	Wellhead Vacuum	Wellhead Differential Pressure	Wellhead Flow Rate Equation	Flow Rate	PCE	TCE	cis-DCE	1,1-DCE	1,1,1-TCA	1,1-DCA	Total VOCs	PID
					(in Hg)	(deg F)	(in Hg)	(in Hg)	(in w.c.)	(scfm)	(L/min)	ppmv	ppmv	ppmv	ppmv	ppmv	ppmv	ppmv	ppmv
Begin Test on SVE-Shallow																			
SVE-S	7/28/2008		0	16:05	15.5	210	12.5	9	46	380	10751	0.2	157.4	37.2		1.8	1.3	197.9	--
	7/28/2008	15	15	16:20	15.5	280	12.7	9.2	46	380	10751	0.2	157.4	37.2		1.8	1.3	197.8	--
	7/28/2008	18	33	16:38	15.5	285	12.7	9.2	46	380	10751	0.4	157.4	37.2		2.0	1.4	198.4	--
	7/28/2008	16	49	16:54	15.5	290	12.7	9.2	46	380	10751	0.2	157.4	37.2		1.8	1.3	197.9	--
	7/28/2008	18	67	17:12	15.5	290	12.7	9.2	46	380	10751	0.1	157.4	34.7		1.7	1.3	195.3	--
Begin Test on SVE-Intermediate																			
SVE-I	7/29/2008		0	11:10	14	235	9.5	11.2	100	560	15852								233
	7/29/2008	15	15	11:25	14	245	9.5	11.2	100	560	15852	0.3	157.4	29.8		1.8	1.1	190.4	215
	7/29/2008	20	35	11:45	14	245	9.5	11.2	100	560	15852								203
	7/29/2008	20	55	12:05	14	245	9.5	11.2	100	560	15852								195
	7/29/2008	15	70	12:20	14	245	9.5	11.2	100	560	15852	0.1	148.3	29.8		1.7	1.0	180.9	197
Begin Test on SVE-Deep																			
SVE-D	7/29/2008		0	15:10	14	260	13	12	190	772	21850								
	7/29/2008	20	20	15:30	14	295	13	12	190	772	21850	0.0	89.7	23.8		2.0	1.0	116.5	148
	7/29/2008	15	35	15:45	14	300	13	12	190	772	21850								140
	7/29/2008	15	50	16:00	14	300	13	12	190	772	21850								
	7/29/2008	15	65	16:15	14	300	13	12	190	772	21850		69.6	20.3		1.8	0.8	92.5	

-- = not sampled or not calculated

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SVE SYSTEM PILOT TEST SUMMARY
CONSTANT RATE TEST - Field/Lab Correlation
Dana Holding Corporation - Former Warner Electric
Roscoe, Illinois
Project # 2541.27

EXHAUST RESULTS

					System Measurements							Exhaust Lab Results - converted							Field readings
	Date	Elapsed Time		Time	Blower air Pressure	Blower air Temp	System Vacuum[1]	Wellhead Vacuum	Wellhead Differential Pressure	Wellhead Flow Rate Equation	Flow Rate	PCE	TCE	cis-DCE	1,1-DCE	1,1,1-TCA	1,1-DCA	Total VOCs	PID
					(in Hg)	(deg F)	(in Hg)	(in Hg)	(in w.c.)	(scfm)	(L/min)	ppmv	ppmv	ppmv	ppmv	ppmv	ppmv	ppmv	ppmv
Begin Test on SVE-Shallow																			
SVE-S	7/28/2008		0	16:05	15.5	210	12.5	9	46	380	10751		8.6	2.4		0.1		11.0	
	7/28/2008	15	15	16:20	15.5	280	12.7	9.2	46	380	10751		2.9	1.1				4.0	
	7/28/2008	18	33	16:38	15.5	285	12.7	9.2	46	380	10751	0.2	3.7	1.3		0.1		5.2	
	7/28/2008	16	49	16:54	15.5	290	12.7	9.2	46	380	10751	0.1	1.5	1.0				2.5	
	7/28/2008	18	67	17:12	15.5	290	12.7	9.2	46	380	10751	0.0	4.2	1.4				5.6	
Begin Test on SVE-Intermediate																			
SVE-I	7/29/2008		0	11:10	14	235	9.5	11.2	100	560	15852								2.2
	7/29/2008	15	15	11:25	14	245	9.5	11.2	100	560	15852	0.1	7.0	2.2		0.1		9.3	2.2
	7/29/2008	20	35	11:45	14	245	9.5	11.2	100	560	15852								3.1
	7/29/2008	20	55	12:05	14	245	9.5	11.2	100	560	15852								4
	7/29/2008	15	70	12:20	14	245	9.5	11.2	100	560	15852		4.2	1.3		0.0		5.6	3.1
Begin Test on SVE-Deep																			
SVE-D	7/29/2008		0	15:10	14	260	13	12	190	772	21850								
	7/29/2008	20	20	15:30	14	295	13	12	190	772	21850		3.7	1.2		0.1		4.9	2.2
	7/29/2008	15	35	15:45	14	300	13	12	190	772	21850								2
	7/29/2008	15	50	16:00	14	300	13	12	190	772	21850								
	7/29/2008	15	65	16:15	14	300	13	12	190	772	21850	0.4	0.5	0.7		0.1		1.7	

– = not sampled or not calculated

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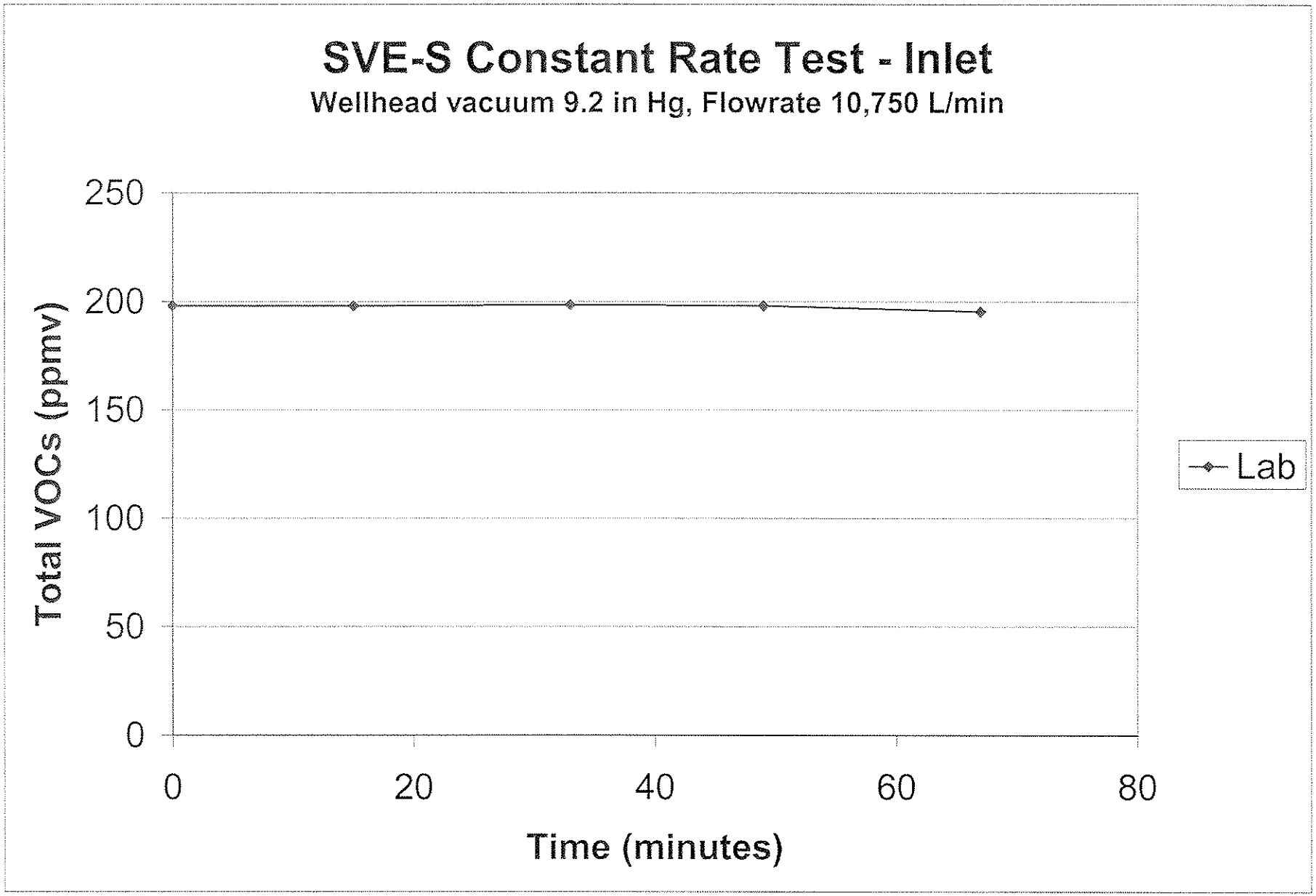
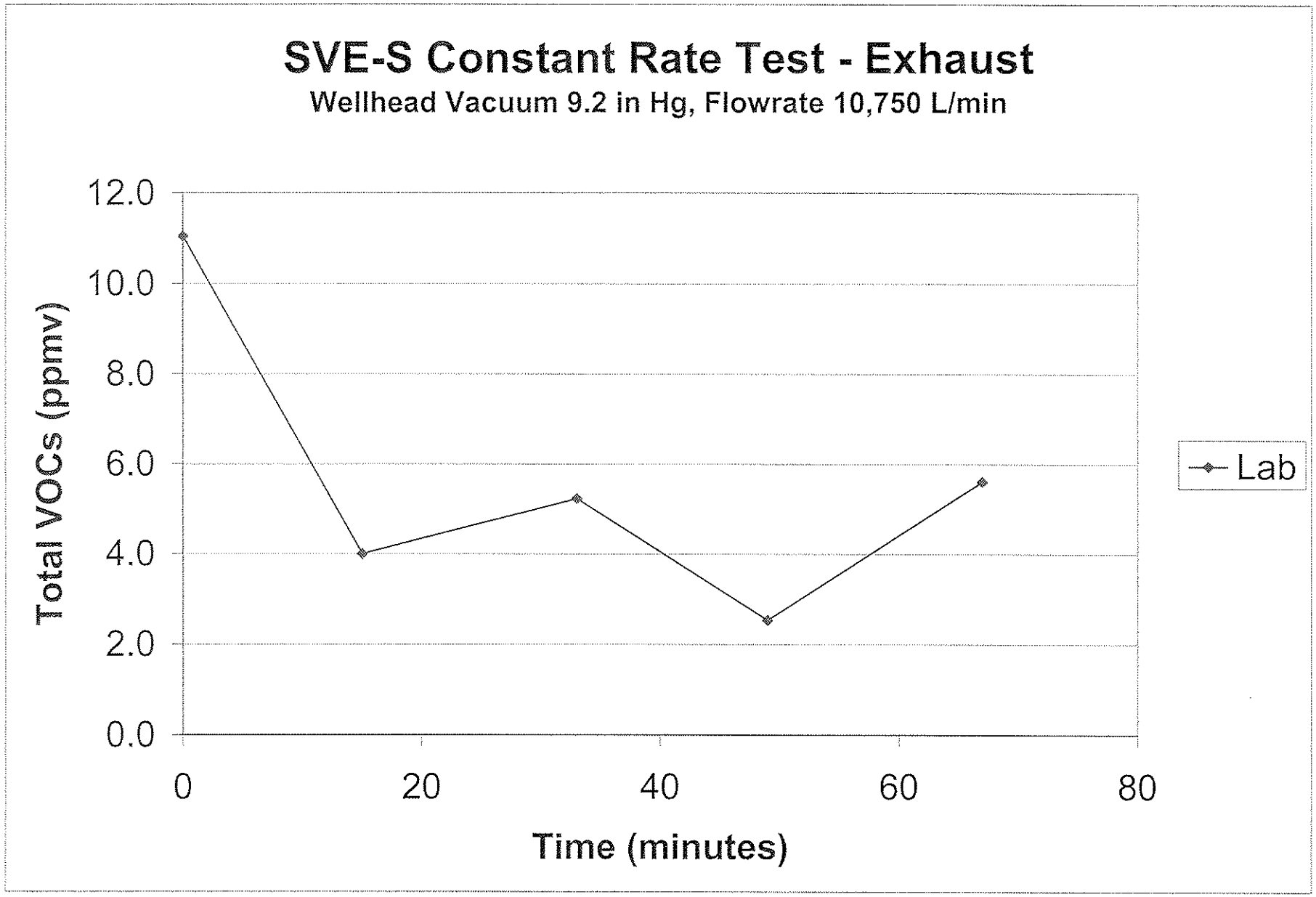
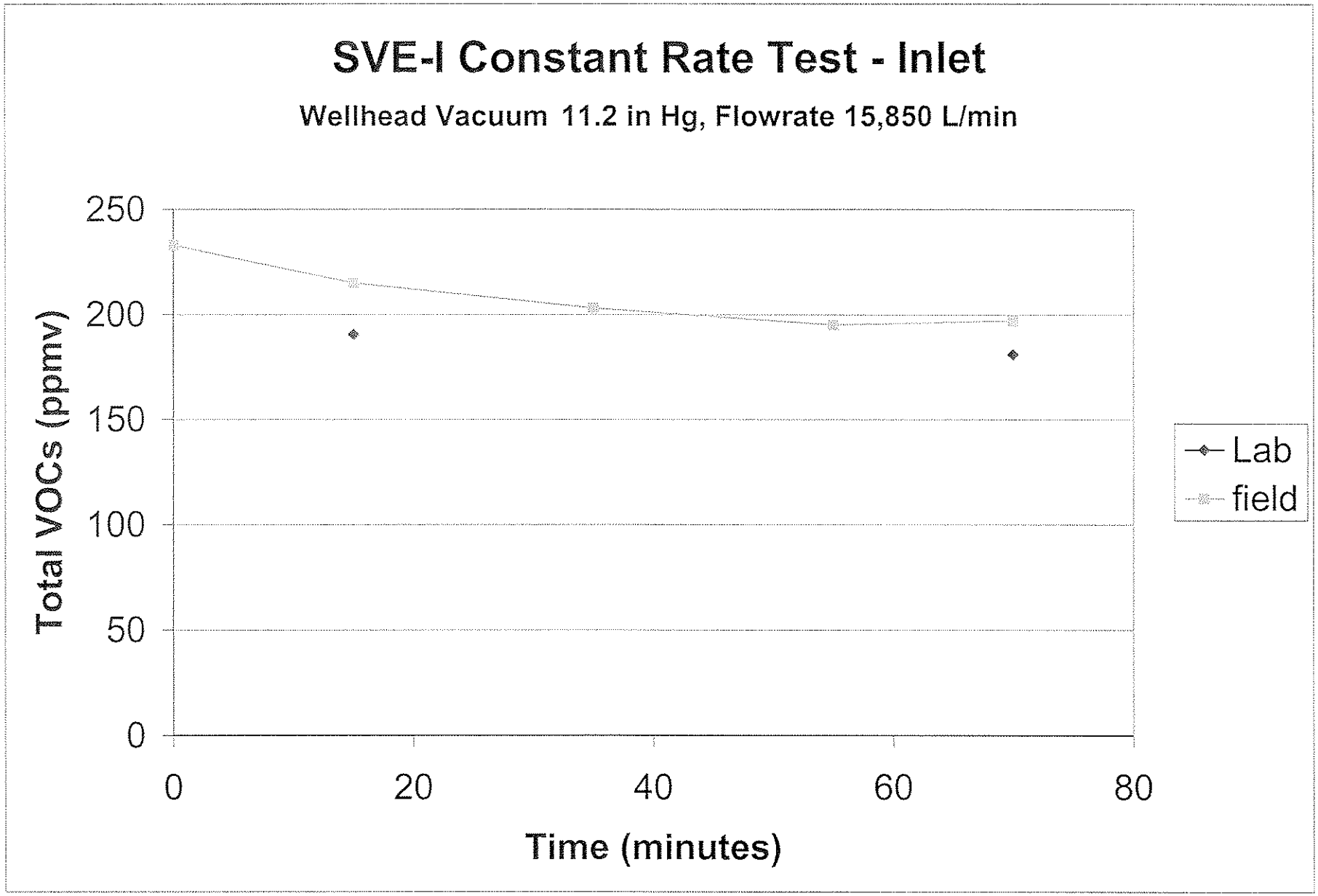
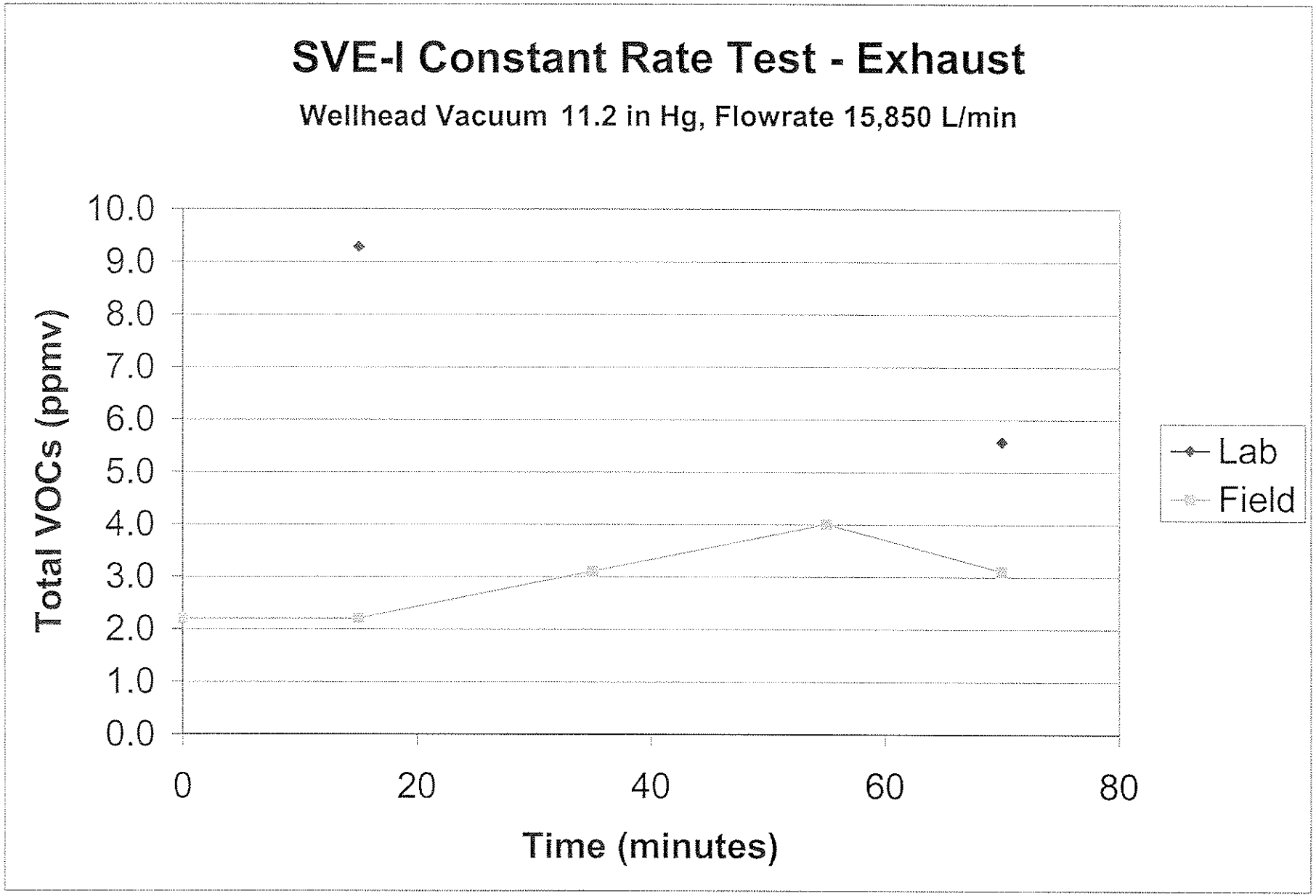
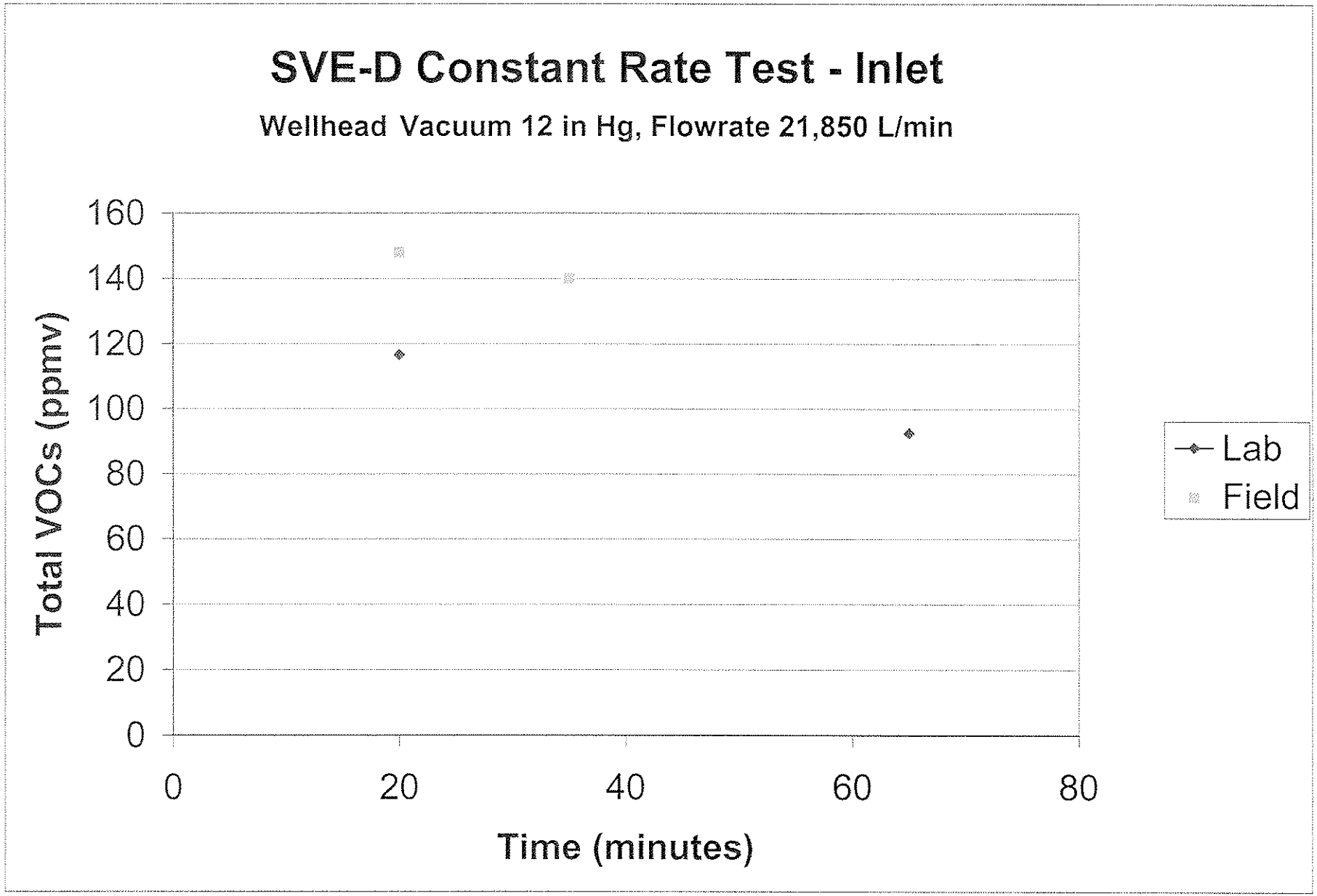

SVE-S Constant Rate Test - Inlet
Wellhead vacuum 9.2 in Hg, Flowrate 10,750 L/min
Total VOCs (ppmv)
250
200
150
100
50
0
0
20
40
60
80
Time (minutes)
Lab

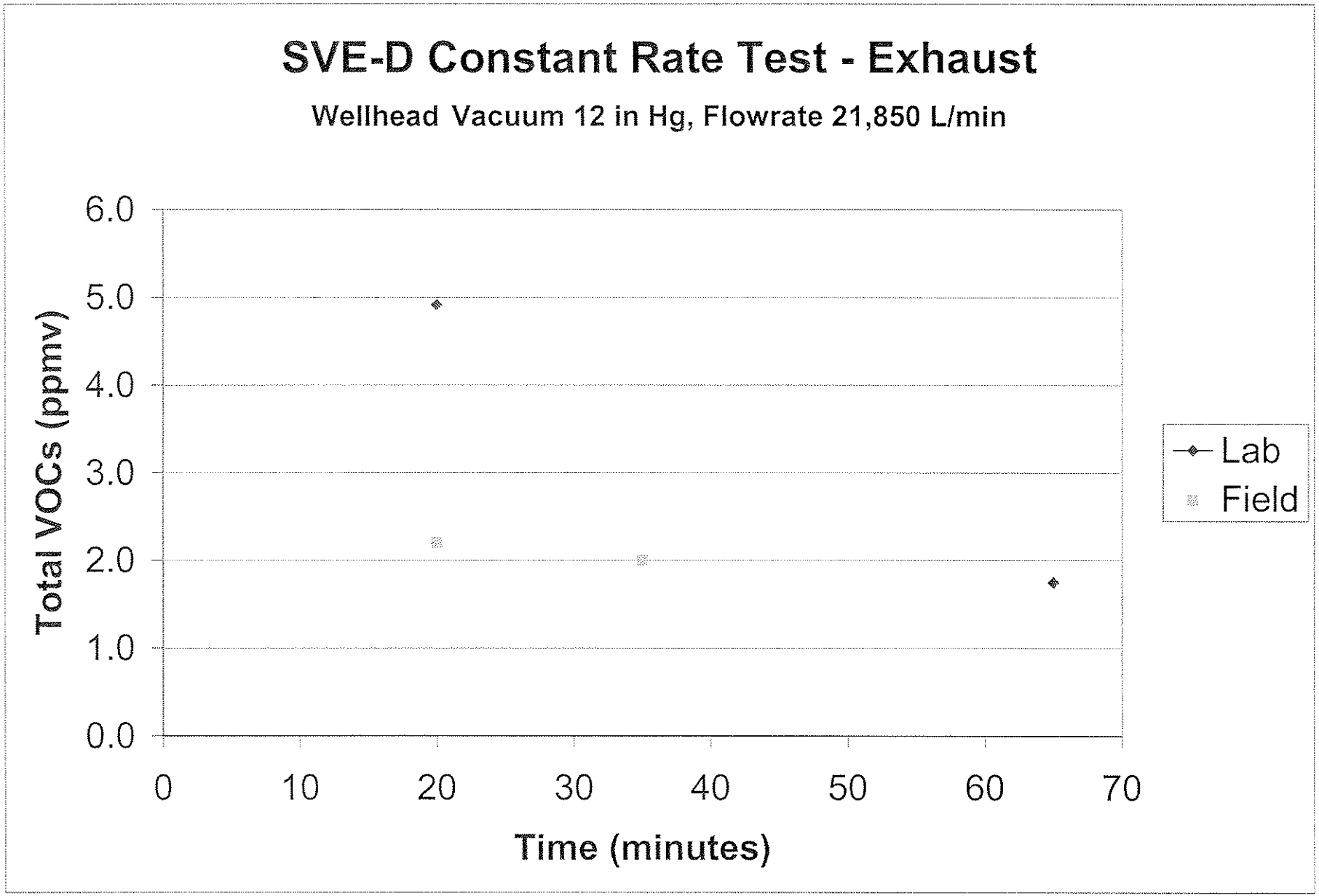

SVE-S Constant Rate Test - Exhaust
Wellhead Vacuum 9.2 in Hg, Flowrate 10,750 L/min
Total VOCs (ppmv)
12.0
10.0
8.0
6.0
4.0
2.0
0.0
0
20
40
60
80
Time (minutes)
Lab


SVE-I Constant Rate Test - Inlet
Wellhead Vacuum 11.2 in Hg, Flowrate 15,850 L/min
Total VOCs (ppmv)
250
200
150
100
50
0
0
20
40
60
80
Time (minutes)
Lab
field

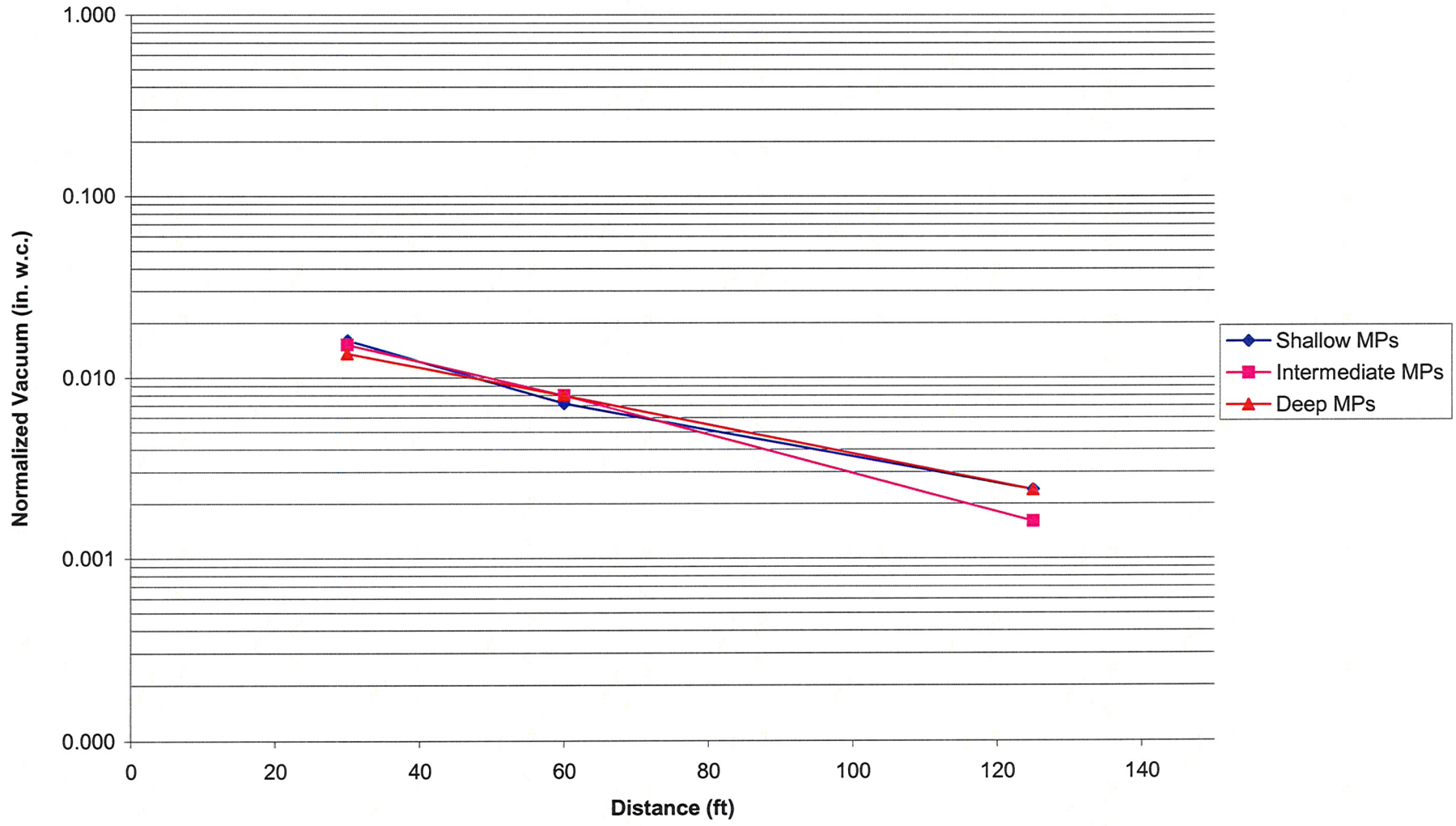

SVE-I Constant Rate Test - Exhaust
Wellhead Vacuum 11.2 in Hg, Flowrate 15,850 L/min
Total VOCs (ppmv)
10.0
9.0
8.0
7.0
6.0
5.0
4.0
3.0
2.0
1.0
0.0
0
20
40
60
80
Time (minutes)
Lab
Field

12


SVE-D Constant Rate Test - Inlet
Wellhead Vacuum 12 in Hg, Flowrate 21,850 L/min
Total VOCs (ppmv)
160
140
120
100
80
60
40
20
0
0
20
40
60
80
Time (minutes)
Lab
Field


SVE-D Constant Rate Test - Exhaust
Wellhead Vacuum 12 in Hg, Flowrate 21,850 L/min
Total VOCs (ppmv)
6.0
5.0
4.0
3.0
2.0
1.0
0.0
0
10
20
30
40
50
60
70
Time (minutes)
Lab
Field

Normalized Vacuum vs. Distance
SVE-S as Source Well



P:\2541\27\Dana - Roscoe SVE Pilot Test Data Eval.xls 1/30/2009

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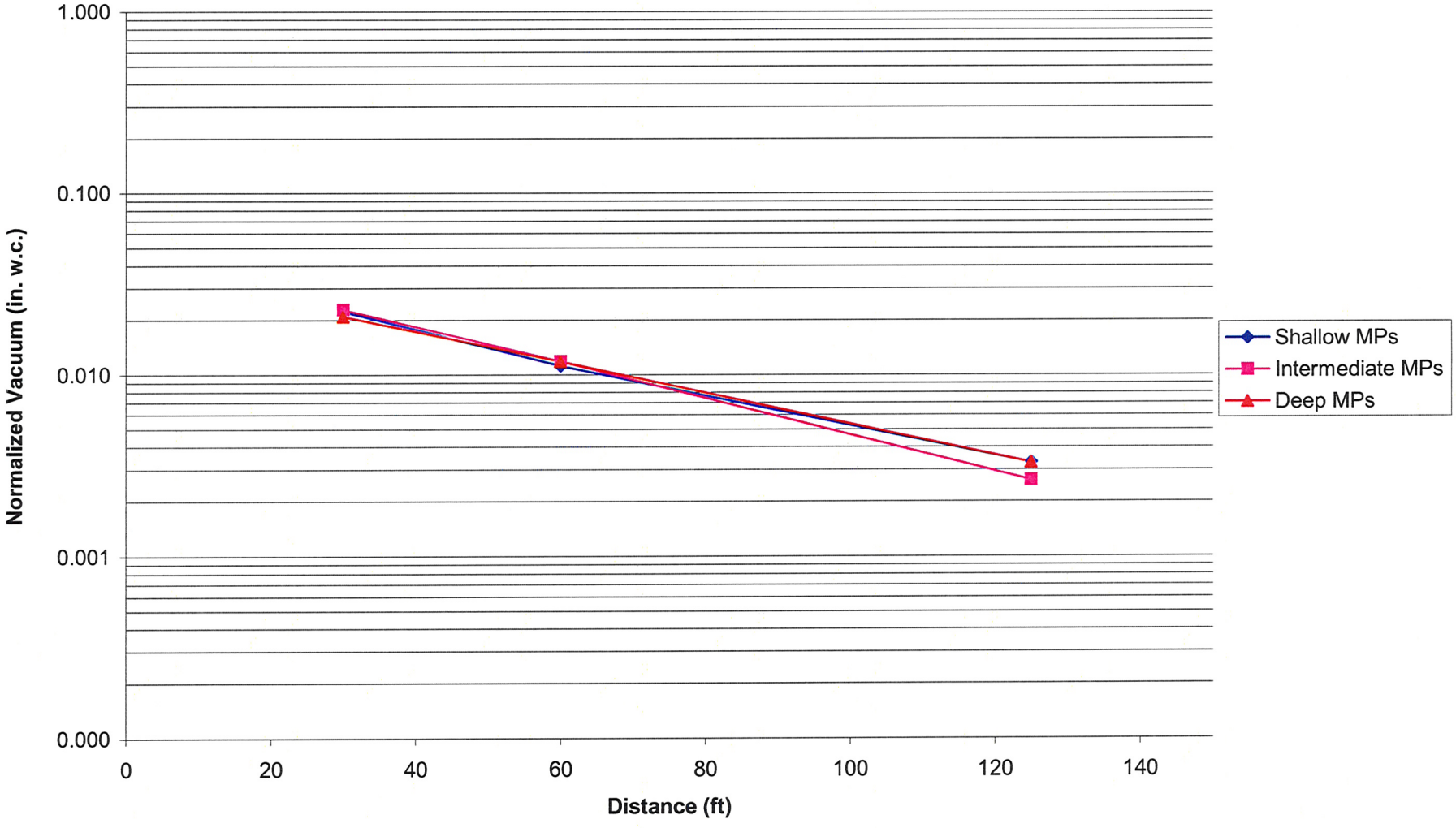
Normalized Vacuum vs. Distance
SVE-I as Source Well



P:\2541\27\Dana - Roscoe SVE Pilot Test Data Eval.xls 1/30/2009

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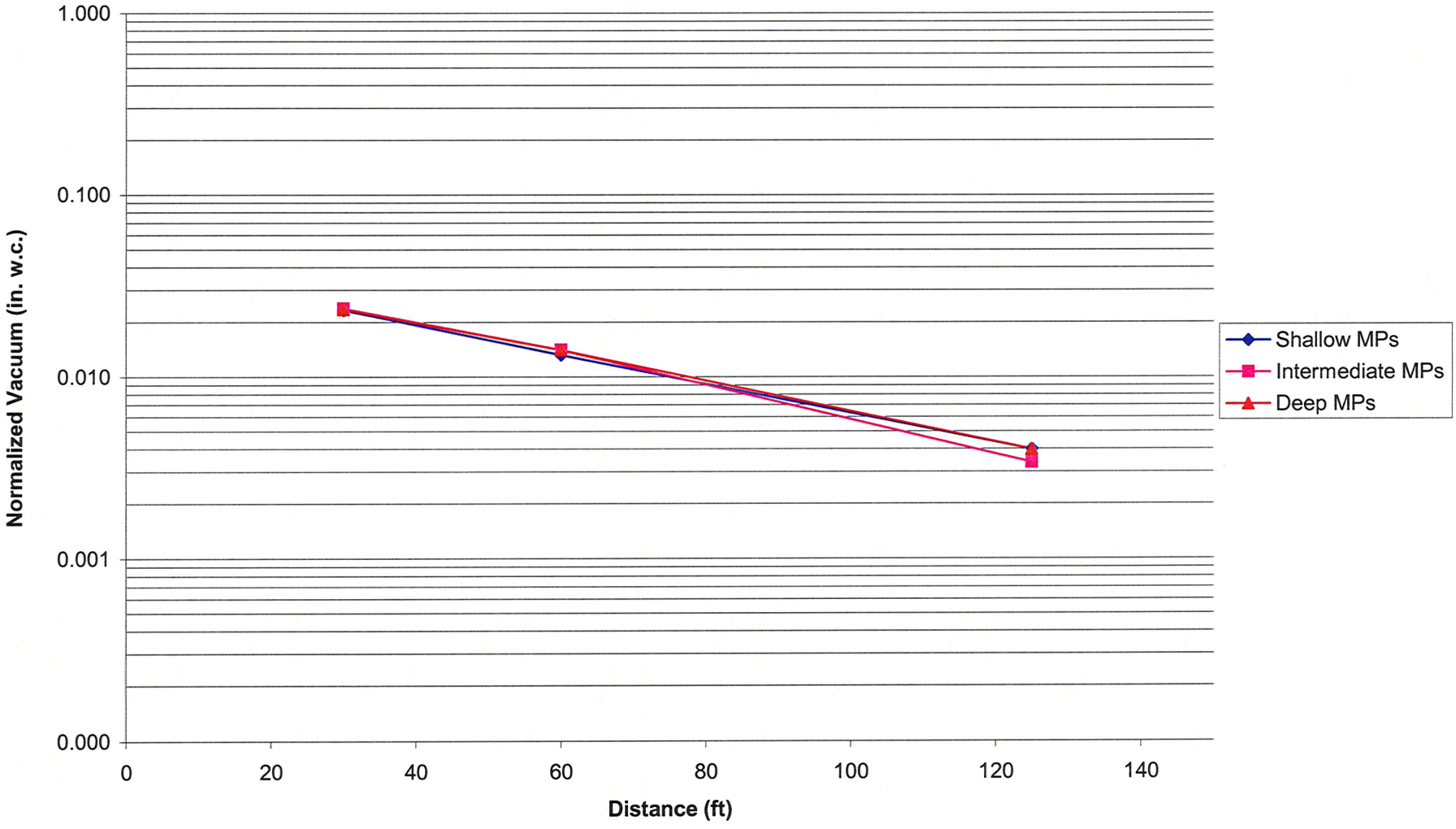
16

Normalized Vacuum vs. Distance
SVE-D as Source Well



P:\2541\27\Dana - Roscoe SVE Pilot Test Data Eval.xls 1/30/2009

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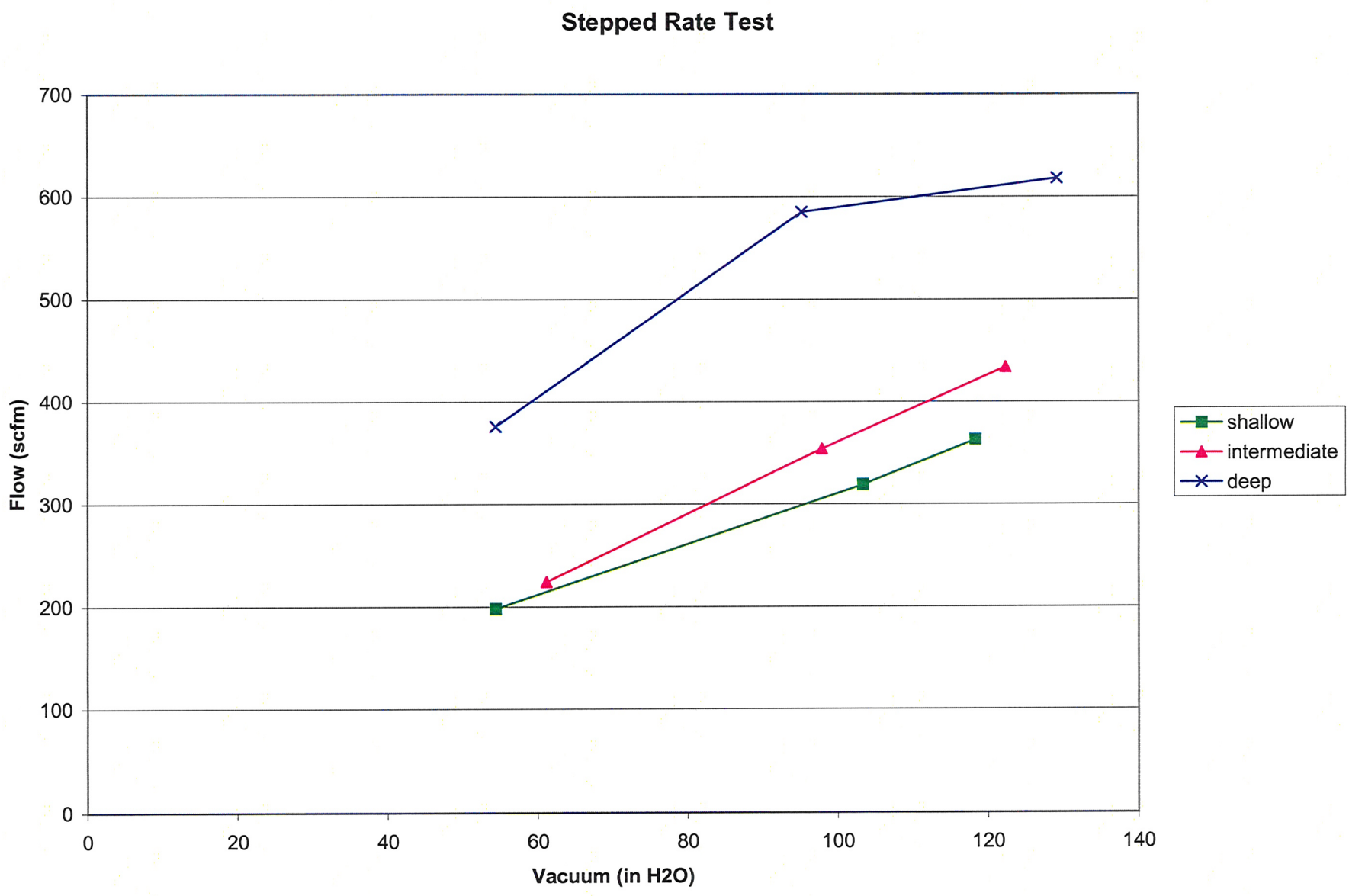

P:\2541\27\Dana - Roscoe SVE Pilot Test Data Eval.xls 8/15/2008

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Attachment 4

Laboratory Data Reports

August 6, 2008

Stacey Koch
RMT
744 Heartland Trail
Madison, WI 53717

re: Dana Roscoe - Roscoe, IL - Project Number 2541.27

Dear Ms. Koch,

Enclosed you will find the analytical results for the samples collected July 28, 2008.
Please feel free to call if you have any questions.

Sincerely,

Gregory J Graf
Quality Manager

Enclosures
jce

Environmental Chemistry Consulting Services, Inc.
2525 Advance Road • Madison, WI 53718 • Phone (608) 221-8700 • FAX (608) 221-4889

1/37

8260 VOCs
Summary of Test Results

Project Name: Dana Roscoe
Project Location: Roscoe, Illinois
Sample Description: SVES-4-015-I
Date Collected: 07/28/08
Sample Type: Air

Project Number: 2541.27

Date Analyzed: 07/31/08
Concentration: ug/L
Dilution Factor: 100

Lab Sample Number: A083103-01

Compound	Reporting Limit	Sample Result	
1,1-Dichloroethene	2.0	< 2.0	
1,1-Dichloroethane	2.0	**2.3**	
c-1,2-Dichloroethene	2.0	**120**	**E**
1,1,1-Trichloroethane	0.20	**5.1**	
1,2-Dichloroethane	2.0	< 2.0	
Trichloroethene	0.20	**770**	**E**
Tetrachloroethene	0.20	**2.1**	

E = Estimated, exceeds calibration range.

Method Reference: Modified 8260

WI Lab Certification #113289110

E.C.C.S.
2525 Advance Road
Madison, WI 53718
Phone: (608)221-8700
Fax: (608)221-4889

Approved by: R Jolson
Date: 08AU08

8260 VOCs
Summary of Test Results

Project Name: Dana Roscoe
Project Location: Roscoe, Illinois
Sample Description: SVES-07-30-O
Date Collected: 07/28/08
Sample Type: Air

Project Number: 2541.27

Date Analyzed: 07/31/08
Concentration: ug/L
Dilution Factor: 100

Lab Sample Number: A083103-02

Compound	Reporting Limit	Sample Result
1,1-Dichloroethene	2.0	< 2.0
1,1-Dichloroethane	2.0	< 2.0
c-1,2-Dichloroethene	2.0	**8.8**
1,1,1-Trichloroethane	0.20	**0.30**
1,2-Dichloroethane	2.0	< 2.0
Trichloroethene	0.20	**13**
Tetrachloroethene	0.20	**1.2**

Method Reference: Modified 8260

WI Lab Certification #113289110

E.C.C.S.
2525 Advance Road
Madison, WI 53718
Phone: (608)221-8700
Fax: (608)221-4889

Approved by: R Jalion
Date: 08AUG08

8260 VOCs
Summary of Test Results

Project Name: Dana Roscoe
Project Location: Roscoe, Illinois
Sample Description: SVES-8.7-15-O
Date Collected: 07/28/08
Sample Type: Air

Project Number: 2541.27

Date Analyzed: 07/31/08
Concentration: ug/L
Dilution Factor: 100

Lab Sample Number: A083103-03

Compound	Reporting Limit	Sample Result
1,1-Dichloroethene	2.0	< 2.0
1,1-Dichloroethane	2.0	< 2.0
c-1,2-Dichloroethene	2.0	**3.6**
1,1,1-Trichloroethane	0.20	< 0.20
1,2-Dichloroethane	2.0	< 2.0
Trichloroethene	0.20	**4.8**
Tetrachloroethene	0.20	**0.60**

Method Reference: Modified 8260

WI Lab Certification #113289110

E.C.C.S.
2525 Advance Road
Madison, WI 53718
Phone: (608)221-8700
Fax: (608)221-4889

Approved by: R Jolson

Date: 08/AUG/08

8260 VOCs
Summary of Test Results

Project Name: Dana Roscoe
Project Location: Roscoe, Illinois
Sample Description: SVES-8.7-30-O
Date Collected: 07/28/08
Sample Type: Air

Project Number: 2541.27

Date Analyzed: 07/31/08
Concentration: ug/L
Dilution Factor: 100

Lab Sample Number: A083103-04

Compound	Reporting Limit	Sample Result
1,1-Dichloroethene	2.0	< 2.0
1,1-Dichloroethane	2.0	< 2.0
c-1,2-Dichloroethene	2.0	**3.9**
1,1,1-Trichloroethane	0.20	< 0.20
1,2-Dichloroethane	2.0	< 2.0
Trichloroethene	0.20	**3.0**
Tetrachloroethene	0.20	**0.30**

Method Reference: Modified 8260

WI Lab Certification #113289110

E.C.C.S.
2525 Advance Road
Madison, WI 53718
Phone: (608)221-8700
Fax: (608)221-4889

Approved by: R Jolson
Date: 08/08/08

8260 VOCs
Summary of Test Results

Project Name: Dana Roscoe
Project Location: Roscoe, Illinois
Sample Description: SVES-07-45-O
Date Collected: 07/28/08
Sample Type: Air

Project Number: 2541.27

Date Analyzed: 07/31/08
Concentration: ug/L
Dilution Factor: 100

Lab Sample Number: A083103-05

Compound	Reporting Limit	Sample Result
1,1-Dichloroethene	2.0	< 2.0
1,1-Dichloroethane	2.0	< 2.0
c-1,2-Dichloroethene	2.0	< 2.0
1,1,1-Trichloroethane	0.20	< 0.20
1,2-Dichloroethane	2.0	< 2.0
Trichloroethene	0.20	**4.1**
Tetrachloroethene	0.20	< 0.20

Method Reference: Modified 8260

WI Lab Certification #113289110

E.C.C.S.
2525 Advance Road
Madison, WI 53718
Phone: (608)221-8700
Fax: (608)221-4889

Approved by: R Jelson
Date: 08/4/08

6

8260 VOCs
Summary of Test Results

Project Name: Dana Roscoe
Project Location: Roscoe, Illinois
Sample Description: SVES-13-15-O
Date Collected: 07/28/08
Sample Type: Air

Project Number: 2541.27

Date Analyzed: 07/31/08
Concentration: ug/L
Dilution Factor: 100

Lab Sample Number: A083103-06

Compound	Reporting Limit	Sample Result
1,1-Dichloroethene	2.0	< 2.0
1,1-Dichloroethane	2.0	< 2.0
c-1,2-Dichloroethene	2.0	**4.2**
1,1,1-Trichloroethane	0.20	< 0.20
1,2-Dichloroethane	2.0	< 2.0
Trichloroethene	0.20	**2.5**
Tetrachloroethene	0.20	< 0.20

Blower overheated, Results not included in table

Method Reference: Modified 8260

WI Lab Certification #113289110

E.C.C.S.
2525 Advance Road
Madison, WI 53718
Phone: (608)221-8700
Fax: (608)221-4889

Approved by: R Johson

Date: 08 AU 08

8260 VOCs
Summary of Test Results

Project Name: Dana Roscoe
Project Location: Roscoe, Illinois
Sample Description: SVES-09-05-I-C
Date Collected: 07/28/08
Sample Type: Air

Project Number: 2541.27

Date Analyzed: 07/31/08
Concentration: ug/L
Dilution Factor: 100

Lab Sample Number: A083103-07

Compound	Reporting Limit	Sample Result	
1,1-Dichloroethene	2.0	< 2.0	
1,1-Dichloroethane	2.0	**5.2**	
c-1,2-Dichloroethene	2.0	**150**	**E**
1,1,1-Trichloroethane	0.20	**10**	
1,2-Dichloroethane	2.0	< 2.0	
Trichloroethene	0.20	**860**	**E**
Tetrachloroethene	0.20	**1.7**	

E = Estimated, exceeds calibration range.

Method Reference: Modified 8260

WI Lab Certification #113289110

E.C.C.S.
2525 Advance Road
Madison, WI 53718
Phone: (608)221-8700
Fax: (608)221-4889

Approved by: R Johnson

Date: 08/04/08

8260 VOCs
Summary of Test Results

Project Name: Dana Roscoe
Project Location: Roscoe, Illinois
Sample Description: SVES-09-05-O-C
Date Collected: 07/28/08
Sample Type: Air

Project Number: 2541.27

Date Analyzed: 07/31/08
Concentration: ug/L
Dilution Factor: 100

Lab Sample Number: A083103-08

Compound	Reporting Limit	Sample Result
1,1-Dichloroethene	2.0	< 2.0
1,1-Dichloroethane	2.0	< 2.0
c-1,2-Dichloroethene	2.0	**9.6**
1,1,1-Trichloroethane	0.20	**0.33**
1,2-Dichloroethane	2.0	< 2.0
Trichloroethene	0.20	**47**
Tetrachloroethene	0.20	< 0.20

Method Reference: Modified 8260

WI Lab Certification #113289110

E.C.C.S.
2525 Advance Road
Madison, WI 53718
Phone: (608)221-8700
Fax: (608)221-4889

Approved by: R Johnson

Date: 08/4/08

8260 VOCs
Summary of Test Results

Project Name: Dana Roscoe
Project Number: 2541.27
Project Location: Roscoe, Illinois
Sample Description: SVES-09-15-I-C
Date Collected: 07/28/08
Sample Type: Air

Date Analyzed: 07/31/08
Lab Sample Number: A083103-09
Concentration: ug/L
Dilution Factor: 100

Compound	Reporting Limit	Sample Result	
1,1-Dichloroethene	2.0	< 2.0	
1,1-Dichloroethane	2.0	**5.3**	
c-1,2-Dichloroethene	2.0	**150**	**E**
1,1,1-Trichloroethane	0.20	**10**	
1,2-Dichloroethane	2.0	< 2.0	
Trichloroethene	0.20	**860**	**E**
Tetrachloroethene	0.20	**1.1**	

E = Estimated, exceeds calibration range.

Method Reference: Modified 8260

WI Lab Certification #113289110

E.C.C.S.
2525 Advance Road
Madison, WI 53718
Phone: (608)221-8700
Fax: (608)221-4889

Approved by: R Jalvon
Date: 08 AUG 08

8260 VOCs
Summary of Test Results

Project Name: Dana Roscoe
Project Location: Roscoe, Illinois
Sample Description: SVES-09-15-O-C
Date Collected: 07/28/08
Sample Type: Air

Project Number: 2541.27

Date Analyzed: 07/31/08
Concentration: ug/L
Dilution Factor: 100

Lab Sample Number: A083103-10

Compound	Reporting Limit	Sample Result
1,1-Dichloroethene	2.0	< 2.0
1,1-Dichloroethane	2.0	< 2.0
c-1,2-Dichloroethene	2.0	**4.3**
1,1,1-Trichloroethane	0.20	< 0.20
1,2-Dichloroethane	2.0	< 2.0
Trichloroethene	0.20	**16**
Tetrachloroethene	0.20	< 0.20

Method Reference: Modified 8260

WI Lab Certification #113289110

E.C.C.S.
2525 Advance Road
Madison, WI 53718
Phone: (608)221-8700
Fax: (608)221-4889

Approved by: R Johnson

Date: 08AU08

11

8260 VOCs
Summary of Test Results

Project Name: Dana Roscoe
Project Location: Roscoe, Illinois
Sample Description: SVES-09-30-I-C
Date Collected: 07/28/08
Sample Type: Air

Project Number: 2541.27

Date Analyzed: 07/31/08
Concentration: ug/L
Dilution Factor: 100

Lab Sample Number: A083103-11

Compound	Reporting Limit	Sample Result	
1,1-Dichloroethene	2.0	< 2.0	
1,1-Dichloroethane	2.0	**5.6**	
c-1,2-Dichloroethene	2.0	**150**	**E**
1,1,1-Trichloroethane	0.20	**11**	
1,2-Dichloroethane	2.0	< 2.0	
Trichloroethene	0.20	**860**	**E**
Tetrachloroethene	0.20	**3.1**	**LC**

E = Estimated, exceeds calibration range.

LC = Results maybe biased low due to continuing calibration verification (CCV) not within control limits.

Method Reference: Modified 8260

WI Lab Certification #113289110

E.C.C.S.
2525 Advance Road
Madison, WI 53718
Phone: (608)221-8700
Fax: (608)221-4889

Approved by: R Pelhon

Date: 08/11/08

12

8260 VOCs
Summary of Test Results

Project Name: Dana Roscoe
Project Number: 2541.27
Project Location: Roscoe, Illinois
Sample Description: SVES-09-30-O-C
Date Collected: 07/28/08
Sample Type: Air

Date Analyzed: 07/31/08
Lab Sample Number: A083103-12
Concentration: ug/L
Dilution Factor: 100

Compound	Reporting Limit	Sample Result	
1,1-Dichloroethene	2.0	< 2.0	
1,1-Dichloroethane	2.0	< 2.0	
c-1,2-Dichloroethene	2.0	**5.4**	
1,1,1-Trichloroethane	0.20	**0.34**	
1,2-Dichloroethane	2.0	< 2.0	
Trichloroethene	0.20	**20**	
Tetrachloroethene	0.20	**1.1**	**LC**

LC = Results maybe biased low due to continuing calibration verification (CCV) not within control limits.

Method Reference: Modified 8260

WI Lab Certification #113289110

E.C.C.S.
2525 Advance Road
Madison, WI 53718
Phone: (608)221-8700
Fax: (608)221-4889

Approved by: R Johnson
Date: 08/11/08

8260 VOCs
Summary of Test Results

Project Name: Dana Roscoe
Project Number: 2541.27
Project Location: Roscoe, Illinois
Sample Description: SVES-09-45-O-C
Date Collected: 07/28/08
Sample Type: Air

Date Analyzed: 07/31/08
Lab Sample Number: A083103-13
Concentration: ug/L
Dilution Factor: 100

Compound	Reporting Limit	Sample Result	
1,1-Dichloroethene	2.0	< 2.0	
1,1-Dichloroethane	2.0	< 2.0	
c-1,2-Dichloroethene	2.0	**4.0**	
1,1,1-Trichloroethane	0.20	< 0.20	
1,2-Dichloroethane	2.0	< 2.0	
Trichloroethene	0.20	**8.0**	
Tetrachloroethene	0.20	**0.50**	**LC**

LC = Results maybe biased low due to continuing calibration verification (CCV) not within control limits.

Method Reference: Modified 8260

WI Lab Certification #113289110

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Fax: (608)221-4889

Approved by: R Johnson

Date: 08/11/08

8260 VOCs
Summary of Test Results

Project Name: Dana Roscoe
Project Location: Roscoe, Illinois
Sample Description: SVES-09-45-I-C
Date Collected: 07/28/08
Sample Type: Air

Project Number: 2541.27

Date Analyzed: 07/31/08
Concentration: ug/L
Dilution Factor: 100

Lab Sample Number: A083103-14

Compound	Reporting Limit	Sample Result	
1,1-Dichloroethene	2.0	< 2.0	
1,1-Dichloroethane	2.0	**5.4**	
c-1,2-Dichloroethene	2.0	**150**	**E**
1,1,1-Trichloroethane	0.20	**10**	
1,2-Dichloroethane	2.0	< 2.0	
Trichloroethene	0.20	**860**	**E**
Tetrachloroethene	0.20	**1.2**	**LC**

E = Estimated, exceeds calibration range.

LC = Results maybe biased low due to continuing calibration verification (CCV) not within control limits.

Method Reference: Modified 8260

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Approved by: R Johnson

Date: 08/11/08

8260 VOCs
Summary of Test Results

Project Name: Dana Roscoe
Project Number: 2541.27
Project Location: Roscoe, Illinois
Sample Description: SVES-09-60-O-C
Date Collected: 07/28/08
Sample Type: Air

Date Analyzed: 07/31/08
Lab Sample Number: A083103-15
Concentration: ug/L
Dilution Factor: 100

Compound	Reporting Limit	Sample Result	
1,1-Dichloroethene	2.0	< 2.0	
1,1-Dichloroethane	2.0	< 2.0	
c-1,2-Dichloroethene	2.0	**5.5**	
1,1,1-Trichloroethane	0.20	< 0.20	
1,2-Dichloroethane	2.0	< 2.0	
Trichloroethene	0.20	**23**	
Tetrachloroethene	0.20	**0.21**	**LC**

LC = Results maybe biased low due to continuing calibration verification (CCV) not within control limits.

Method Reference: Modified 8260

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Approved by: R Falson
Date: 08/4/08

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8260 VOCs
Summary of Test Results

Project Name: Dana Roscoe
Project Number: 2541.27
Project Location: Roscoe, Illinois
Sample Description: SVES-09-60-I-C
Date Collected: 07/28/08
Sample Type: Air

Date Analyzed: 07/31/08
Lab Sample Number: A083103-16
Concentration: ug/L
Dilution Factor: 100

Compound	Reporting Limit	Sample Result	
1,1-Dichloroethene	2.0	< 2.0	
1,1-Dichloroethane	2.0	**5.3**	
c-1,2-Dichloroethene	2.0	**140**	**E**
1,1,1-Trichloroethane	0.20	**9.5**	
1,2-Dichloroethane	2.0	< 2.0	
Trichloroethene	0.20	**860**	**E**
Tetrachloroethene	0.20	**0.93**	**LC**

E = Estimated, exceeds calibration range.

LC = Results maybe biased low due to continuing calibration verification (CCV) not within control limits.

Method Reference: Modified 8260

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Approved by: R Johnson

Date: 08/11/08

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Environmental Chemistry Consulting Services, Inc.

2525 Advance Road Madison, WI 53718

Phone 608-221-8700 FAX 608-221-4889

CHAIN OF CUSTODY

No. 019438

A083103

Page 1 of 2

Turn Around (circle one): Normal Rush

Report Due:

Project Number: 2541.27

Project Name: Dana Roscoe

Project Location: Roscoe, IL

Sampled By (Print): Mark Walter

Mail Report To: Stacey Koch, Mark Walter

Company: RMT Inc.

Address: 744 Heartland Trl. Madison, WI 53717

Invoice To: Accounts Payable

Company: RMT, Inc

Address: 744 Heartland Trl Madison, WI 53717

P.O. No.: Quote No.:

Sample Description	Collection Date	Collection Time	Matrix	Total Bottles	Preserv*	Analysis Requested	Comments	Laboratory Number
SVES-4-015-I	7/23/03		AIR	1	N/A	CVOCs		01
SVES-07-30-0				1				02
SVES-S.7-15-0				1				03
SVES-S.7-30-0				1				04
SVES-07-45-0				1				05
SVES-13-15-0				1				06
SVES-09-05-I-C				1				07
SVES-09-05-0-C				1				08
SVES-09-15-I-C				1				09
SVES-09-15-0-C				1				10
SVES-09-30-I-C				1				11
SVES-09-30-0-C				1				12

*Preservation Code

A=None B=HCL C=H2SO4

D=HNO3 E=EnCore F=Methanol

G=NaOH O=Other(Indicate)

Relinquished By	Date/Time	Received By	Date/Time
Mark Walter	7/23 6:45 PM	[illegible]	07/28 08:45am

Custody Seal: Present/Absent Intact/Not Intact Seal #'s

Shipped Via:

Receipt Temp: hand delivered

Temp Blank Y N

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Environmental Chemistry Consulting Services, Inc.
2525 Advance Road Madison, WI 53718
Phone 608-221-8700 FAX 608-221-4889

CHAIN OF CUSTODY

No. 019439

A083103

Page 2 of 2

Turn Around (circle one) Normal Rush
Report Due:

Project Number:	Mail Report To:	Invoice To:
Project Name:	Company:	Company:
Project Location:	Address:	Address:
Sampled By (Print):		
		P.O. No.: Quote No.:

Sample Description	Collection Date	Collection Time	Matrix	Total Bottles	Preserv*	Analysis Requested	Comments	Laboratory Number
SVES-09-45-0-C	7/28/08		AIR	1	N/A	CVOCs		13
SVES-09-45-I-C	↓		↓	1	↓	↓		14
SVES-09-60-0-C	↓		↓	1	↓	↓		15
SVES-09-60-I-C	↓		↓	1	↓	↓		16

*Preservation Code A=None B=HCL C=H2SO4 D=HNO3 E=EnCore F=Methanol G=NaOH O=Other(Indicate)	Relinquished By: [signature]	Date/Time: 7/28/08 6:45 PM	Received By: [signature]	Date/Time: 07/28/08 6:45p
	Relinquished By:	Date/Time:	Received By:	Date/Time:
Custody Seal: Present/Absent	Intact/Not Intact	Seal #'s	Receipt Temp: hand delivered	
Shipped Via			Temp Blank Y N	

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August 6, 2008

Stacey Koch
RMT
744 Heartland Trail
Madison, WI 53717

re: Dana Roscoe - Roscoe, IL - Project Number 2541.27

Dear Ms. Koch,

Enclosed you will find the analytical results for the samples collected July 29, 2008.
Please feel free to call if you have any questions.

Sincerely,

Richard Johnson for

Gregory J Graf
Quality Manager

Enclosures
jce

Environmental Chemistry Consulting Services, Inc.
2525 Advance Road • Madison, WI 53718 • Phone (608) 221-8700 • FAX (608) 221-4889

8260 VOCs
Summary of Test Results

Project Name: Dana Roscoe
Project Location: Roscoe, Illinois
Sample Description: SVEI-04-30-I
Date Collected: 07/29/08
Sample Type: Air

Project Number: 2541.27

Date Analyzed: 07/31/08
Concentration: ug/L
Dilution Factor: 100

Lab Sample Number: A083106-01

Compound	Reporting Limit	Sample Result	
1,1-Dichloroethene	2.0	< 2.0	
1,1-Dichloroethane	2.0	**5.2**	
c-1,2-Dichloroethene	2.0	**160**	**E**
1,1,1-Trichloroethane	0.20	**11**	
1,2-Dichloroethane	2.0	< 2.0	
Trichloroethene	0.20	**860**	**E**
Tetrachloroethene	0.20	**0.98**	**LC**

E = Estimated, exceeds calibration range.

LC = Results maybe biased low due to continuing calibration verification (CCV) not within control limits.

Method Reference: Modified 8260

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Approved by: R Jackson

Date: 08/4/08

8260 VOCs
Summary of Test Results

Project Name: Dana Roscoe
Project Location: Roscoe, Illinois
Sample Description: SVEI-04-30-O
Date Collected: 07/29/08
Sample Type: Air

Project Number: 2541.27

Date Analyzed: 07/31/08
Concentration: ug/L
Dilution Factor: 100

Lab Sample Number: A083106-02

Compound	Reporting Limit	Sample Result	
1,1-Dichloroethene	2.0	< 2.0	
1,1-Dichloroethane	2.0	**56**	
c-1,2-Dichloroethene	2.0	**4.2**	
1,1,1-Trichloroethane	0.20	**0.24**	
1,2-Dichloroethane	2.0	< 2.0	
Trichloroethene	0.20	**14**	
Tetrachloroethene	0.20	< 0.20	**LC**

LC = Results maybe biased low due to continuing calibration verification (CCV) not within control limits.

Method Reference: Modified 8260

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Approved by: R Folsom

Date: 08AU08

22

8260 VOCs
Summary of Test Results

Project Name: Dana Roscoe
Project Location: Roscoe, Illinois
Sample Description: SVEI-07-30-I
Date Collected: 07/29/08
Sample Type: Air

Project Number: 2541.27

Date Analyzed: 07/31/08
Concentration: ug/L
Dilution Factor: 100

Lab Sample Number: A083106-03

Compound	Reporting Limit	Sample Result	
1,1-Dichloroethene	2.0	< 2.0	
1,1-Dichloroethane	2.0	**5.5**	
c-1,2-Dichloroethene	2.0	**140**	**E**
1,1,1-Trichloroethane	0.20	**11**	
1,2-Dichloroethane	2.0	< 2.0	
Trichloroethene	0.20	**860**	**E**
Tetrachloroethene	0.20	**1.2**	**LC**

E = Estimated, exceeds calibration range.

LC = Results maybe biased low due to continuing calibration verification (CCV) not within control limits.

Method Reference: Modified 8260

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Approved by: R Johnson

Date: 08AU08

23

8260 VOCs
Summary of Test Results

Project Name: Dana Roscoe
Project Number: 2541.27
Project Location: Roscoe, Illinois
Sample Description: SVEI-07-30-O
Date Collected: 07/29/08
Sample Type: Air

Date Analyzed: 07/31/08
Lab Sample Number: A083106-04
Concentration: ug/L
Dilution Factor: 100

Compound	Reporting Limit	Sample Result	
1,1-Dichloroethene	2.0	< 2.0	
1,1-Dichloroethane	2.0	< 2.0	
c-1,2-Dichloroethene	2.0	**5.7**	
1,1,1-Trichloroethane	0.20	**0.24**	
1,2-Dichloroethane	2.0	< 2.0	
Trichloroethene	0.20	**28**	
Tetrachloroethene	0.20	< 0.20	**LC**

LC = Results maybe biased low due to continuing calibration verification (CCV) not within control limits.

Method Reference: Modified 8260

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Approved by: R Johnson
Date: 08AU08

8260 VOCs
Summary of Test Results

Project Name: Dana Roscoe
Project Location: Roscoe, Illinois
Sample Description: SVEI-09-30-I
Date Collected: 07/29/08
Sample Type: Air

Project Number: 2541.27

Date Analyzed: 07/31/08
Concentration: ug/L
Dilution Factor: 100

Lab Sample Number: A083106-05

Compound	Reporting Limit	Sample Result	
1,1-Dichloroethene	2.0	< 2.0	
1,1-Dichloroethane	2.0	**6.0**	
c-1,2-Dichloroethene	2.0	**140**	**E**
1,1,1-Trichloroethane	0.20	**11**	
1,2-Dichloroethane	2.0	< 2.0	
Trichloroethene	0.20	**860**	**E**
Tetrachloroethene	0.20	**3.5**	**LC**

E = Estimated, exceeds calibration range.

LC = Results maybe biased low due to continuing calibration verification (CCV) not within control limits.

Method Reference: Modified 8260

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Approved by: A Johnson

Date: 08/08/08

8260 VOCs
Summary of Test Results

Project Name: Dana Roscoe
Project Location: Roscoe, Illinois
Sample Description: SVEI-12-15-I-C
Date Collected: 07/29/08
Sample Type: Air

Project Number: 2541.27

Date Analyzed: 07/31/08
Concentration: ug/L
Dilution Factor: 100

Lab Sample Number: A083106-06

Compound	Reporting Limit	Sample Result	
1,1-Dichloroethene	2.0	< 2.0	
1,1-Dichloroethane	2.0	**4.6**	
c-1,2-Dichloroethene	2.0	**120**	**E**
1,1,1-Trichloroethane	0.20	**9.8**	
1,2-Dichloroethane	2.0	< 2.0	
Trichloroethene	0.20	**860**	**E**
Tetrachloroethene	0.20	**2.3**	**LC**

E = Estimated, exceeds calibration range.

LC = Results maybe biased low due to continuing calibration verification (CCV) not within control limits.

Method Reference: Modified 8260

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Approved by: R Johnson

Date: 08AU08

26

8260 VOCs
Summary of Test Results

Project Name: Dana Roscoe
Project Number: 2541.27
Project Location: Roscoe, Illinois
Sample Description: SVEI-12-15-O-C
Date Collected: 07/29/08
Sample Type: Air

Date Analyzed: 07/31/08
Lab Sample Number: A083106-07
Concentration: ug/L
Dilution Factor: 100

Compound	Reporting Limit	Sample Result	
1,1-Dichloroethene	2.0	< 2.0	
1,1-Dichloroethane	2.0	< 2.0	
c-1,2-Dichloroethene	2.0	**8.9**	
1,1,1-Trichloroethane	0.20	**0.32**	
1,2-Dichloroethane	2.0	< 2.0	
Trichloroethene	0.20	**38**	
Tetrachloroethene	0.20	**0.44**	**LC**

LC = Results maybe biased low due to continuing calibration verification (CCV) not within control limits.

Method Reference: Modified 8260

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Approved by: R Johnson
Date: 08/11/08

27

8260 VOCs
Summary of Test Results

Project Name: Dana Roscoe
Project Location: Roscoe, Illinois
Sample Description: SVEI-13-60-I-C
Date Collected: 07/29/08
Sample Type: Air

Project Number: 2541.27

Date Analyzed: 07/31/08
Concentration: ug/L
Dilution Factor: 100

Lab Sample Number: A083106-08

Compound	Reporting Limit	Sample Result	
1,1-Dichloroethene	2.0	< 2.0	
1,1-Dichloroethane	2.0	**4.3**	
c-1,2-Dichloroethene	2.0	**120**	**E**
1,1,1-Trichloroethane	0.20	**9.7**	
1,2-Dichloroethane	2.0	< 2.0	
Trichloroethene	0.20	**810**	**E**
Tetrachloroethene	0.20	**0.56**	**LC**

E = Estimated, exceeds calibration range.

LC = Results maybe biased low due to continuing calibration verification (CCV) not within control limits.

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Approved by: R Jolson

Date: 08AU08

8260 VOCs
Summary of Test Results

Project Name: Dana Roscoe
Project Location: Roscoe, Illinois
Sample Description: SVEI-13-60-O-C
Date Collected: 07/29/08
Sample Type: Air

Project Number: 2541.27

Date Analyzed: 07/31/08
Concentration: ug/L
Dilution Factor: 100

Lab Sample Number: A083106-09

Compound	Reporting Limit	Sample Result	
1,1-Dichloroethene	2.0	< 2.0	
1,1-Dichloroethane	2.0	< 2.0	
c-1,2-Dichloroethene	2.0	**5.3**	
1,1,1-Trichloroethane	0.20	**0.24**	
1,2-Dichloroethane	2.0	< 2.0	
Trichloroethene	0.20	**23**	
Tetrachloroethene	0.20	< 0.20	**LC**

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Date: 08/11/08

8260 VOCs
Summary of Test Results

Project Name: Dana Roscoe
Project Location: Roscoe, Illinois
Sample Description: SVED-4-15-I
Date Collected: 07/29/08
Sample Type: Air

Project Number: 2541.27

Date Analyzed: 07/31/08
Concentration: ug/L
Dilution Factor: 100

Lab Sample Number: A083106-10

Compound	Reporting Limit	Sample Result	
1,1-Dichloroethene	2.0	< 2.0	
1,1-Dichloroethane	2.0	**4.9**	
c-1,2-Dichloroethene	2.0	**100**	
1,1,1-Trichloroethane	0.20	**12**	
1,2-Dichloroethane	2.0	< 2.0	
Trichloroethene	0.20	**540**	**E**
Tetrachloroethene	0.20	**0.25**	**LC**

E = Estimated, exceeds calibration range.

LC = Results maybe biased low due to continuing calibration verification (CCV) not within control limits.

Method Reference: Modified 8260

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Date: 08AUG08

8260 VOCs
Summary of Test Results

Project Name: Dana Roscoe
Project Location: Roscoe, Illinois
Sample Description: SVED-12-15-I-C
Date Collected: 07/29/08
Sample Type: Air

Project Number: 2541.27

Date Analyzed: 07/31/08
Concentration: ug/L
Dilution Factor: 100

Lab Sample Number: A083106-11

Compound	Reporting Limit	Sample Result	
1,1-Dichloroethene	2.0	< 2.0	
1,1-Dichloroethane	2.0	**4.0**	
c-1,2-Dichloroethene	2.0	**96**	
1,1,1-Trichloroethane	0.20	**11**	
1,2-Dichloroethane	2.0	< 2.0	
Trichloroethene	0.20	**490**	**E**
Tetrachloroethene	0.20	**0.28**	**LC**

E = Estimated, exceeds calibration range.

LC = Results maybe biased low due to continuing calibration verification (CCV) not within control limits.

Method Reference: Modified 8260

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Approved by: R Jackson

Date: 08AUG08

8260 VOCs
Summary of Test Results

Project Name: Dana Roscoe
Project Location: Roscoe, Illinois
Sample Description: SVED-12-15-O-C
Date Collected: 07/29/08
Sample Type: Air

Project Number: 2541.27

Date Analyzed: 07/31/08
Concentration: ug/L
Dilution Factor: 100

Lab Sample Number: A083106-12

Compound	Reporting Limit	Sample Result	
1,1-Dichloroethene	2.0	< 2.0	
1,1-Dichloroethane	2.0	< 2.0	
c-1,2-Dichloroethene	2.0	**4.8**	
1,1,1-Trichloroethane	0.20	**0.32**	
1,2-Dichloroethane	2.0	< 2.0	
Trichloroethene	0.20	**20**	
Tetrachloroethene	0.20	< 0.20	**LC**

LC = Results maybe biased low due to continuing calibration verification (CCV) not within control limits.

Method Reference: Modified 8260

WI Lab Certification #113289110

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Approved by: R Johnson

Date: 08 Aug 08

32

8260 VOCs
Summary of Test Results

Project Name: Dana Roscoe
Project Location: Roscoe, Illinois
Sample Description: SVED-12-60-I-C
Date Collected: 07/29/08
Sample Type: Air

Project Number: 2541.27

Date Analyzed: 07/31/08
Concentration: ug/L
Dilution Factor: 100

Lab Sample Number: A083106-13

Compound	Reporting Limit	Sample Result	
1,1-Dichloroethene	2.0	< 2.0	
1,1-Dichloroethane	2.0	**3.2**	
c-1,2-Dichloroethene	2.0	**82**	
1,1,1-Trichloroethane	0.20	**10**	
1,2-Dichloroethane	2.0	< 2.0	
Trichloroethene	0.20	**380**	**E**
Tetrachloroethene	0.20	< 0.20	**LC**

E = Estimated, exceeds calibration range.

LC = Results maybe biased low due to continuing calibration verification (CCV) not within control limits.

Method Reference: Modified 8260

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Approved by: R Johnson

Date: 08/4/08

8260 VOCs
Summary of Test Results

Project Name: Dana Roscoe
Project Number: 2541.27
Project Location: Roscoe, Illinois
Sample Description: SVED-12-60-Postcarbon-C
Date Collected: 07/29/08
Sample Type: Air

Date Analyzed: 07/31/08
Lab Sample Number: A083106-14
Concentration: ug/L
Dilution Factor: 100

Compound	Reporting Limit	Sample Result	
1,1-Dichloroethene	2.0	< 2.0	
1,1-Dichloroethane	2.0	< 2.0	
c-1,2-Dichloroethene	2.0	**9.0**	
1,1,1-Trichloroethane	0.20	**0.91**	
1,2-Dichloroethane	2.0	< 2.0	
Trichloroethene	0.20	**50**	
Tetrachloroethene	0.20	< 0.20	**LC**

LC = Results maybe biased low due to continuing calibration verification (CCV) not within control limits.

Method Reference: Modified 8260

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Approved by: R Jolley
Date: 08-4-08

8260 VOCs
Summary of Test Results

Project Name: Dana Roscoe
Project Number: 2541.27
Project Location: Roscoe, Illinois
Sample Description: SVED-12-60-O-C
Date Collected: 07/29/08
Sample Type: Air

Date Analyzed: 07/31/08
Lab Sample Number: A083106-15
Concentration: ug/L
Dilution Factor: 100

Compound	Reporting Limit	Sample Result	
1,1-Dichloroethene	2.0	< 2.0	
1,1-Dichloroethane	2.0	< 2.0	
c-1,2-Dichloroethene	2.0	**3.0**	
1,1,1-Trichloroethane	0.20	**0.53**	
1,2-Dichloroethane	2.0	< 2.0	
Trichloroethene	0.20	**2.8**	
Tetrachloroethene	0.20	**2.7**	**LC**

LC = Results maybe biased low due to continuing calibration verification (CCV) not within control limits.

Method Reference: Modified 8260

WI Lab Certification #113289110

E.C.C.S.
2525 Advance Road
Madison, WI 53718
Phone: (608)221-8700
Fax: (608)221-4889

Approved by: R Falcon
Date: 08 Aug 08

39

Environmental Chemistry Consulting Services, Inc.

2525 Advance Road Madison, WI 53718

Phone 608-221-8700 FAX 608-221-4889

CHAIN OF CUSTODY

A083106

No. 019440 *

Page 1 of 2

Turn Around (circle one) Normal Rush

Report Due:

Project Number: 2541.27

Project Name: Dana Roscoe

Project Location: Roscoe, IL

Sampled By (Print): Mark Walter

Mail Report To: Stacey Koch, Mark Walter

Company: RMT, Inc.

Address: 744 Heartland Trl. Madison, WI 53717

Invoice To: Accounts Payable

Company: RMT, Inc.

Address: 744 Heartland Trl. Madison, WI 53717

P.O. No.: Quote No.:

Sample Description	Collection Date	Collection Time	Matrix	Total Bottles	Preserv*	Analysis Requested	Comments	Laboratory Number
SVE I-04-30-I	7/29/08	9:03AM	Air	1	N/A	CVOCs		01
SVE I-04-30-O	7/29/08	9:03AM	Air	1	N/A			02
SVEI-07-30-I		10:12AM						03
SVEI-07-30-O		10:12 AM						04
SVE I-09-30-I		10:58AM						05
SVE I-09-30-O		10:58AM				ok per client 7/30/08	Did not Receive sample	
SVEI-12-15-I-C		11:25 AM						06
SVEI-12-15-O-C		11:25AM						07
SVEI-13-60-I-C		12:10PM				ok use cac dex. per client	labeled SVEI-60-13-IC	08
SVEI-13-60-O-C		12:10PM				↓	labeled SVEI-60-13-O-C	09
SVED-4-15-I		1:00PM						10
~~SVED 7-30-I~~		~~1:55PM~~						

*Preservation Code

A=None B=HCL C=H2SO4

D=HNO3 E=EnCore F=Methanol

G=NaOH O=Other(indicate)

Relinquished By:	Date/Time:	Received By:	Date/Time:
Mark Walter	7/29/08 6:15 PM	[illegible]	07-29-08 6:15
Relinquished By:	Date/Time:	Received By:	Date/Time:

Custody Seal: Present/Absent Intact/Not Intact Seal #'s

Shipped Via:

Receipt Temp: hand delivered

Temp Blank Y N

WHITE - REPORT COPY YELLOW - LABORATORY COPY PINK - SAMPLER/SUBMITTER

Environmental Chemistry Consulting Services, Inc.
2525 Advance Road Madison, WI 53718
Phone 608-221-8700 FAX 608-221-4889

CHAIN OF CUSTODY

No. 019441 *

A083106

Page 2 of 2

Turn Around (circle one) Normal Rush

Report Due:

Project Number:

Project Name:

Project Location:

Sampled By (Print):

Mail Report To:

Company:

Address:

Invoice To:

Company:

Address:

P.O. No.: Quote No.:

Sample Description	Collection Date	Collection Time	Matrix	Total Bottles	Preserv*	Analysis Requested	Comments	Laboratory Number
SVED-12-15-I-C	7/29/08	3:30PM	Air	1	N/A	CVOCs		11
SVED-12-15-O-C		3:30PM						12
SVED-12-60-I-C		4:15PM						13
SVED-12-60-Postcarbon-C		4:15PM						14
~~SVED-12-15-Postcarbon-C~~		~~3:30PM~~						
SVED-12-60-O-C						yes, analyze per client 7/30/08 also received		15

*Preservation Code
A=None B=HCL C=H2SO4
D=HNO3 E=EnCore F=Methanol
G=NaOH O=Other(Indicate)

Relinquished By: [signature] Date/Time: 7/21/08 6:15 PM Received By: [signature] Date/Time: 07-29-08 615

Relinquished By: Date/Time: Received By: Date/Time:

Custody Seal: Present/Absent Intact/Not Intact Seal #'s

Shipped Via:

Receipt Temp: hand delivered
Temp Blank Y N

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Appendix D
Groundwater Remediation by Enhanced Reductive Dechlorination Pilot Test Technical Memorandum

RMT

Technical Memorandum

Date: January 30, 2009

To: Craig Campbell – Dana Holding Corporation
Paul Renberg – Dana Holding Corporation
Rich Fahey – Vory, Sater, Seymour, and Pease, LLP

cc: John Rice and Tom Jancek – RMT, Inc.

From: Jim Buss

Project No.: 2541.29

Subject: Findings and Conclusions of the Groundwater Remediation Enhanced Reductive Dechlorination Pilot-Scale Test by the Injection of Lactate and Zero-Valent Iron, Former Warner Electric, Roscoe, Illinois

Background and Conclusions

This Memorandum summarizes the results from the enhanced reductive dechlorination pilot-scale test on groundwater by the injection of lactate and zero-valent iron (ZVI) at the Dana Holding Corporation (Dana) former Warner Electric facility (Warner) in Roscoe, Illinois. Enhanced reductive dechlorination was selected as the preferred corrective measure for remediating groundwater at this site for its ability to safely and cost-effectively shift the redox state of affected groundwater. The pilot-scale test results show that this shift resulted in a substantial reduction in the concentration of chlorinated volatile organic compounds (CVOCs), principally trichloroethene (TCE), and to a lesser extent cis-1,2-dichloroethene (cis-1,2-DCE) in groundwater downgradient from the treatment zone. Overall, the results suggest that this approach can either achieve the remedial goals for groundwater, or lower groundwater concentrations to a level at which remediation by monitored natural attenuation could complete groundwater remediation at the site. Figure 1 depicts the site layout and shows the injection zone, the distribution of affected groundwater, the groundwater sample locations, and the monitoring wells.

During the 2006 On-Site Soil and Groundwater Investigation (RMT, 2006), groundwater data were collected from borings B-12 and B-13, as well as from groundwater screening sample locations PSG-81, 82, 83, and -104. These locations near and downgradient from the former TCE storage area showed elevated concentrations of chlorinated volatile organic compounds (CVOCs). Near the TCE storage area, TCE concentrations were relatively higher (up to 1,500 µg/L). With distance downgradient, there was substantial evidence of reductive dechlorination, and the degradation byproduct cis-1,2-DCE was detected at concentrations up to 1,000 µg/L. The September 2008 Groundwater Screening Technical Memorandum (RMT, 2008) showed that these elevated concentrations formed a narrow core of affected groundwater that extended south-southwest from the facility with CVOC; TCE; and cis-1,2-DCE concentrations in the 100s µg/L at the facility fence line, approximately 600 feet downgradient.

Both the 2006 and the 2008 sampling events showed that the affected groundwater was confined to the uppermost portion of the outwash aquifer. The limited vertical distribution of affected groundwater and the evidence of natural reductive dechlorination suggest that enhanced reductive dechlorination will be a cost-effective option to stimulate CVOC degradation to levels that can be addressed through monitored natural attenuation. Implementing this remedy will be much more efficient than the existing pump-and-treat system, which captures and treats affected groundwater near the Rock River, approximately 1.25 miles downgradient from the former Warner facility. This existing system, which has operated nearly continuously since 1991, has become increasingly inefficient and ineffective as concentrations of the hazardous constituents in groundwater have decreased over time.

The pilot-scale lactate injection test evaluated the reductive dechlorination technology and verified design parameters such as frequency, volume, and concentration of the injected constituents.

Permitting

Injection wells are typically permitted as Class V injection wells under the State of Illinois' Underground Injection Control (UIC) Program. This designation is used for aquifer remediation–related wells, which consist of wells used to prevent, control, or remediate aquifer pollution. The owner of a Class V well is not required to obtain a permit prior to beginning injection. Class V wells are Rule Authorized, and the Well Inventory Information, identifying the type of Class V well and the nature of the injection activity, must be submitted prior to beginning injection. Attachment 1 contains a copy of the Well Inventory Information for the Warner facility, which was provided to the Illinois Environmental Protection Agency (IEPA) prior to injection. The IEPA has made no further requests for information regarding this effort.

Pilot Test Design

RMT selected the area immediately upgradient of boring B-13, where elevated concentrations of TCE were detected during the 2006 groundwater sampling event, for the pilot-scale injection. The injection system was sized and positioned to extend approximately 40 feet across the plume (perpendicular to groundwater flow). RMT selected a mixture of lactate and zero-valent iron (ZVI) for this injection program. The lactate and iron form a suitable electron donor, and as our experience has shown, have substantial residency time in the aquifer.

To monitor the results of the test, four 2-inch–diameter water table monitoring wells (MW-101, MW-102., MW-103, and MW-104) were installed at distances of 0, 20, 50, and 80 feet downgradient from the injection zone. These distances were selected on the basis of the high flow rates associated with the site (1 to 5 feet per day). Attachment 2 contains the boring logs, well construction reports, and well development documentation for the wells.

Redox Tech, LLC, performed the pilot-scale lactate-ZVI injections from September 22, through September 25, 2008. Geoprobe® injections were performed at 24 RMT-specified locations, spaced on approximately 5-foot centers, in an array of three rows, perpendicular to groundwater flow. The rows, each of which had eight injection points, were staggered to decrease the amount of water avoiding contact with the injection solution while passing through the injection zone. The array of injection points

extended approximately 40 feet and spanned the majority of the upgradient end of the projected 1,000 µg/L TCE plume (see Figure 1). This width enabled adequate characterization of the success of the test at the downgradient monitoring points.

RMT coordinated the use of a water truck, which was filled with water from the facility's fire loop. An on-site water source was necessary for mixing with the injection chemicals, in trailer-mounted tanks, to achieve the desired solution and promote the dispersion of the chemicals throughout the aquifer. Metering pumps and miscellaneous tubing and valves were used to inject the solution into the Geoprobe® drill rods. Non-chlorinated water was used because it was readily available and is less disruptive to native bacterial populations.

The lactate-ZVI solution (U.S. Patent Nos. 6,001,252 and 6,472,198) was injected at depths of 35, 33, 31, 29, 27, and 25 feet below ground surface (bgs). The following is a summary of the injection at each depth of each injection point:

- 10.5 gallons of groundwater were added to the mixing vessel.
- 3.5 gallons the patented mixture of lactates, fatty acids, and a phosphate buffer were added to the vessel. The lactates and fatty acids serve as electron donors for reductive dechlorination of the chlorinated solvents. The phosphate buffer brings the solution to a neutral pH, which is necessary for anaerobic microorganisms to perform effectively.
- 22 pounds of zero-valent iron (ZVI) were added by Redox Tech, LLC. Research has shown that providing ZVI enhances reductive dechlorination. A reductive dechlorination process occurs on the surface of the granular iron, with the iron acting as an electron donor.
- Approximately 1.7 grams of yeast extract were added to the solution. Research has shown that providing trace nutrients is essential for enhancing anaerobic biodegradation. Yeast extract is a simple way to provide all the necessary nutrient constituents without preparing individual solutions.
- Approximately 18.2 grams of sodium sulfite were added to the solution. This addition helps to scavenge and remove oxygen from the water and create more favorable conditions for anaerobic organisms.

Groundwater Monitoring and Results

Success of the reductive dechlorination was measured from groundwater samples collected at the injection zone (MW-101) and at downgradient monitoring points (MW-102, -103, and 104). Monitoring was conducted before and after the lactate solution injections, to evaluate temperature, pH, conductivity, ORP, and the concentrations of dissolved oxygen, iron, manganese, nitrate, sulfate, and CVOCs. The objective of the pilot test is to determine if the process of biodegradation of TCE and its breakdown products at the former Warner Electric site can be accelerated with the addition of the lactate solution, and if so, what the preliminary design for the full-scale program should be. No specific numeric performance goals were set for the pilot test.

Table 1 presents the results of groundwater sampling conducted for this pilot-scale injection test and includes field parameters from groundwater sampling (temperature, pH, and conductivity), inorganic parameters showing the reduction-oxidation (redox) condition of groundwater (dissolved oxygen, oxygen reduction potential [ORP]), inorganic indicators (sulfate, dissolved iron, dissolved manganese, and nitrate), and CVOCs (1,1,1-TCA; 1,1-DCA; PCE; TCE; cis-1,2-DCE; trans-1,2-DCE; and vinyl chloride. Results for other VOCs, which are listed as hazardous constituents in the consent order for the site, but were not detected in laboratory samples are included in the laboratory data reports presented in Attachment 3. Figures 2 through 5 show trends in ORP; TCE; and cis-1,2-DCE over the course of the sampling program.

The initial background sampling round, conducted on September 16, 2008, immediately following well development, showed anomalously low CVOC concentrations (TCE ranged from 35.7 to 172 μg/L, and cis-1,2-DCE ranged from 3 to 27.4 μg/L). After reviewing the results, it was determined that the low concentrations reflected excessive mixing of groundwater within the wells during development. To address this, a second background sampling event was conducted 10 days later on September 26. While this second event was conducted immediately following the pilot-scale injection program, the inorganic parameters reflecting redox conditions at MW-102, 103, and 104 showed that the groundwater had not yet been affected by the injection program. MW-101, which was installed within the injection zone, was notably affected by lactate and could not be resampled. During this second background sampling event, CVOC concentrations were notably higher (TCE ranged from 106 to 356 μg/L, and cis-1,2-DCE ranged from 17.1 to 59.3 μg/L). These second round results are considered the background concentrations for purposes of evaluating the pilot-scale test.

During the September 26 sampling event, vertical stratification of affected groundwater was evaluated by collecting shallow and deep samples in wells MW-102 and MW-103. The results, noted in Table 1 with S* and D*, did not show evidence of stratification, and as a result, the shallow and deep sampling effort was not repeated.

To assess the success of the pilot-scale test, the monitoring wells were sampled at 2 weeks (10/8), 6 weeks (11/6), 9 weeks (11/24), and 12 weeks (12/15) following the pilot-scale injection. Results from these sampling events are listed in Table 1, and the concentration trends for TCE; cis-1,2-DCE; and ORP are depicted on Figures 2 through 5. These parameters were selected for graphing as they reflect the change in the oxidation state of the shallow aquifer and show reduction in CVOC concentrations.

All four figures show that the redox state of the groundwater decreased from +200 to +300 mVolts to -200 to -400 mVolts. This reflects a strong shift to a reduced state in the aquifer, which is much more conducive to reductive dechlorination. This is also reflected in the dissolved oxygen (DO) concentrations. Table 1 shows that the DO levels ranged from 1.5 to 8 mg/L before the injection. Following the injection, the DO level decreased to less than 0.5 mg/L in all wells. At MW-104, the most distant well from the injection zone, the decrease was not observed until the November 24 and December 15 sampling events. This is consistent with the travel time estimates for the shallow groundwater.

More importantly, Table 1 and Figures 2 through 5 also show a dramatic decrease in CVOC concentrations. At MW-101, in the injection zone, CVOC concentrations decreased by more than 10 times. The lack of cis-1,2-DCE rebound suggests that abiotic degradation, in addition to reductive dechlorination, is contributing to the decrease in concentrations. With distance downgradient from the injection zone, the reduced CVOC concentrations are somewhat less dramatic, but continue to show levels 3 to 4 times lower than they were prior to the injection.

Conclusions and Full-Scale Design

Overall, the pilot-scale injection program shows that ongoing reductive dechlorination at the site can be stimulated to result in dramatic decreases in CVOC concentrations in the shallow aquifer. Using enhanced reductive dechlorination to reduce CVOC concentrations to levels below 100 μg/L should enable final remediation of the affected groundwater to be addressed through monitored natural attenuation.

Figure 6 shows the proposed layout of injection points for a full-scale enhanced bioremediation system. Multiple injections are planned for the area of affected groundwater near the former TCE storage area. Given the lower level of affected groundwater, beneath the western portion of the building, only single injection zones are planned for these areas. At each point, we recommend injecting a mixture of lactate, ZVI, yeast extract, and sodium sulfite in accordance with the pilot-scale test procedures at the six depth ranges listed above. Monitoring of the full-scale system should be conducted at new monitoring wells installed at, and downgradient of, each injection zone, as shown on Figure 2. Property boundary monitoring wells, recommended in the September 19, 2008, memo, would supplement the monitoring system and serve as locations for MNA monitoring.

List of Attachments

- Table 1 – Summary of *In situ* Groundwater Sampling Results
- Figure 1 – Reductive Dechlorination Pilot Scale Injection Test
- Figure 2 – MW-101 CVOC Concentration Trend (in injection zone)
- Figure 3 – MW-102 CVOC Concentration Trend (20 ft from injection zone)
- Figure 4 – MW-103 CVOC Concentration Trend (50 ft from injection zone)
- Figure 5 – MW-104 CVOC Concentration Trend (80 ft from injection zone)
- Figure 6 – Full Scale Injection Design
- Attachment 1 – Well Inventory Form for Injection Permit
- Attachment 2 – Boring Logs and Well Construction Reports
- Attachment 3 – Laboratory Data Reports

Tables

Table 1
Summary of *In situ* Groundwater Samping Results
Former Warner Electric
Roscoe, Illinois

		Field Parameters						Inorganics				Volatile Organic Compounds						
PARAMETER		Depth To Water	Sample Temperature	pH	Conductivity	ORP	Dissolved Oxygen	Dissolved Iron	Dissolved Manganese	Nitrate	Sulfate	1,1,1-TCA	1,1-DCA	PCE	TCE	cis-1,2-DCE	trans-1,2-DCE	Vinyl Chloride
Well	Date	Feet	°C	Std. Units	µmhos/cm	mV	mg/L	µg/L	µg/L	mg/L	mg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
MW-101	9/16/2008	25.59	14	6.65	840	311	1.5-2.0	NM	NM	NM	NM	<1.0	<1.0	<1.0	35.7	3	<1.0	<1.0
	9/26/2008	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NA	NA	NA	NA	NA	NA	NA
	10/8/2008	26.04	14.6	6.24	2,280	-569	1.46	327,000	5,440	<0.40	29.3	<1.0	1.4	<1.0	134	45.7	<1.0	<1.0
	11/6/2008	26.65	13.9	7.12	940	-130	1.01	35,700	863	0.73	13.2	<1.0	<1.0	<1.0	7.0	<1.0	<1.0	<1.0
	11/24/2008	27.00	13.3	7.71	825	-255	0.16	14,700	273	0.51	11.6	<1.0	<1.0	<1.0	12.9	3.2	<1.0	<1.0
	12/15/2008	27.25	12.9	7.82	788	-273	0.20	12,600	126	<0.40	9.5	<1.0	<1.0	<1.0	6.4	1.3	<1.0	<1.0
MW-102	9/16/2008	25.40	14	6.49	854	331	1.5-2.0	NM	NM	NM	NM	1.8	<1.0	<1.0	80.7	14.9	<1.0	<1.0
	9/26/2008 (S*)	NM	15.6	6.96	855	270	8.83	NM	NM	NM	NM	2.3	1	<1.0	106	17.1	<1.0	<1.0
	9/26/2008 (D*)	NM	15.2	6.97	855	263	7.92	NM	NM	NM	NM	2.6	1.2	<1.0	128	21.8	<1.0	<1.0
	10/8/2008	25.93	14.5	6.9	1,012	-284	1.84	1,230	953	<0.40	22.7	2.1	<1.0	<1.0	100	16.2	<1.0	<1.0
	11/6/2008	26.51	14.4	6.97	858	-205	0.45	2,470	1,570	<0.40	12.1	1	<1.0	<1.0	75.4	11.5	<1.0	<1.0
	11/24/2008	26.85	13.1	7.07	837	-229	0.25	6,300	810	<0.40	9.6	<1.0	<1.0	<1.0	43.7	11.7	<1.0	<1.0
	12/15/2008	27.25	12.5	7.15	725	-210	0.33	4,760	613	<0.40	10.5	<1.0	<1.0	<1.0	23.3	7.0	<1.0	<1.0
MW-103	9/16/2008	25.4	14.3	6.65	864	344	1.5-2.5	NM	NM	NM	NM	1.3	<1.0	<1.0	132	23.1	<1.0	<1.0
	9/26/2008	NM	14.2	6.93	867	243	8.68	NM	NM	NM	NM	<5.0	<5.0	<5.0	230	39.9	<5.0	<5.0
	10/8/2008	25.96	14.1	6.88	984	-93	3.9	969	758	2.3	22.6	1.3	<1.0	<1.0	149	23.3	<1.0	<1.0
	11/6/2008	26.57	14.4	6.89	906	-200	1.2	2,440	1,340	0.41	12.2	1.1	<1.0	<1.0	120	19.7	<1.0	<1.0
	11/24/2008	26.86	13.4	6.88	948	-244	0.31	2,770	1,170	<0.40	7.3	<1.0	<1.0	<1.0	78.2	23.3	<1.0	<1.0
	12/15/2008	27.27	13.5	7.14	774	-223	0.22	3,240	512	<0.40	4.4	<1.0	<1.0	<1.0	62.0	44.8	<1.0	<1.0
MW-104	9/16/2008	25.47	14.3	6.79	842	337	1.5-2.0	NM	NM	NM	NM	1.4	1	<1.0	172	27.4	<1.0	<1.0
	9/26/2008 (S*)	NM	14.8	6.87	868	166	8.42	NM	NM	NM	NM	<5.0	<5.0	<5.0	356	59.3	<5.0	<5.0
	9/26/2008 (D*)	NM	14.5	6.8	858	176	7.78	NM	NM	NM	NM	<5.0	<5.0	<5.0	256	41.2	<5.0	<5.0
	10/8/2008	26.01	14.1	7.13	849	226	8.25	1,250	47.7	5.9	22.2	<2.0	<2.0	<2.0	157	21.7	<2.0	<2.0
	11/6/2008	26.62	14.6	6.82	954	-127	3.15	<100	830	1.3	22.2	<2.5	<2.5	<2.5	150	51.4	<2.5	<2.5
	11/24/2008	26.95	12	6.64	893	-158	0.92	644	950	<0.40	12.6	1.8	<1.0	<1.0	126.0	51	<1.0	<1.0
	12/15/2008	27.34	12.6	7.03	759	-201	0.46	557	800	<0.40	10.5	1.5	<1.0	<1.0	109.0	34.9	<1.0	<1.0

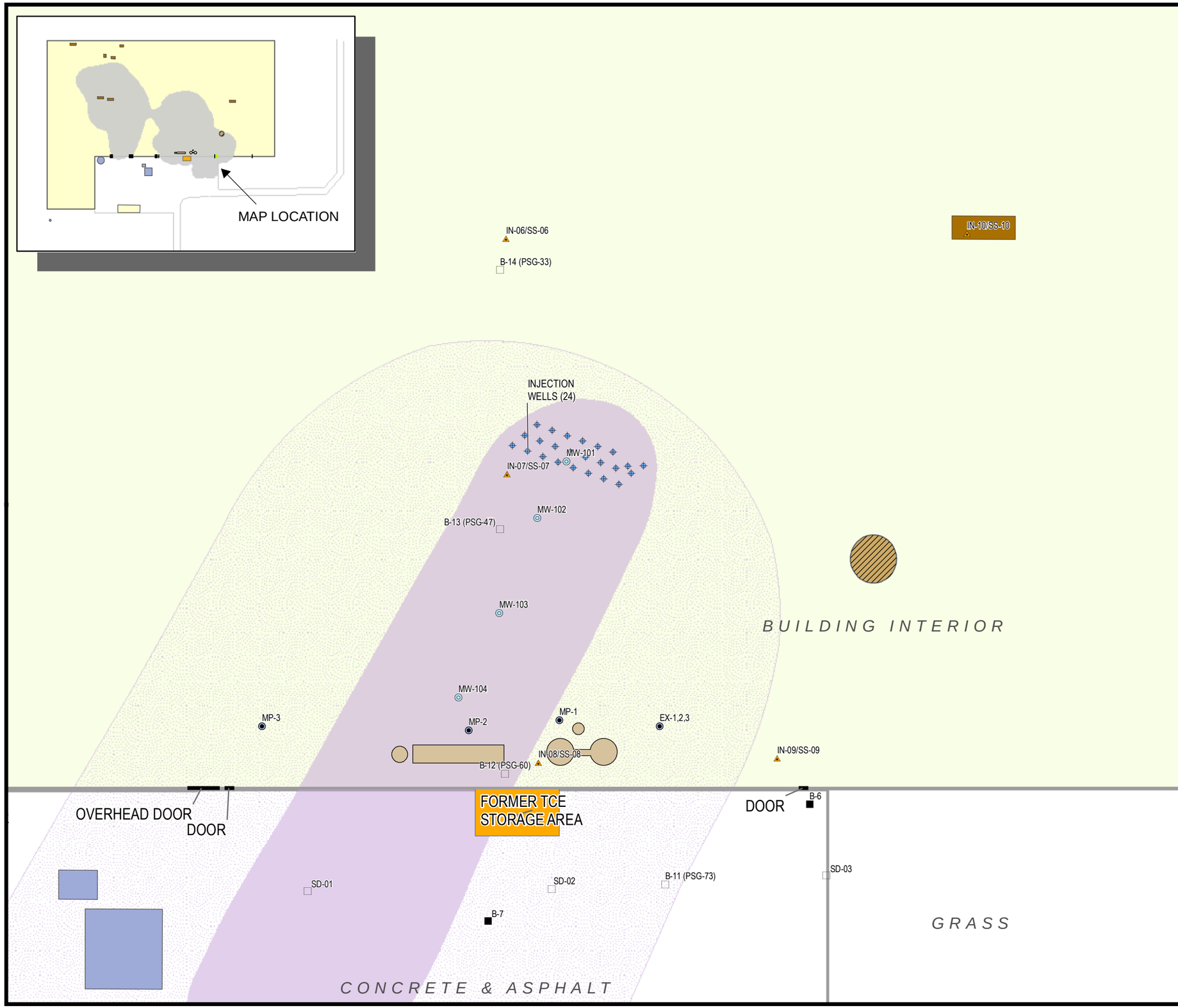
Notes: 1. S* indicates the samples was collected from the top of the water column in the well (less than 2 feet below the top of well screen.

2. D* indicates the samples was collected from the bottom of the water column in the well (less than 2 feet below the bottom of the well screen.

3. NM indicates not measured

4. < indicates parameter was not detected above the listed method detection limit.

Figures



LEGEND

- LIMITS OF SOIL REQUIRING SVE REMEDIATION
- DEEP SOIL VAPOR EXTRACTION WELL NEST & MONITORING POINTS
- GROUNDWATER SCREENING SAMPLE
- MONITORING WELL
- SOIL GAS & SUBSLAB SOIL VAPOR SAMPLE LOCATION
- SOIL BORING LOCATION BY EKI (NO LOG AVAILABLE)
- SOIL BORING LOCATION BY RMT (LOG AVAILABLE)
- DOOR
- BUILDING OUTLINES
- SOIL GAS EXTRACTION SYSTEM
- FORMER TCE STORAGE AREA
- FORMER DEGREASER LOCATION
- FORMER FURNACE LOCATION
- FORMER TANK LOCATION
- ROAD/ASPHALT EDGE
- TRENCH SYSTEM (ABANDONED)
- AREA OF AFFECTED GROUNDWATER
- CORE OF AFFECTED GROUNDWATER

NOTES

1. MONITORING POINTS LOCATED BY GPS, "DISTANCE –FROM-POINT" MEASUREMENTS OR FROM APPROXIMATION.

N

0 30 60 FEET

1 " = 30 '
1:360

PROJECT:
DANA CORPORATION
FORMER WARNER ELECTRIC DIVISION
ROSCOE, ILLINOIS

SHEET TITLE:
REDUCTIVE DECHLORINATION PILOT SCALE INJECTION TEST

DRAWN BY:	MCKEEFRY J	SCALE:		PROJ. NO.	00-02541.27
CHECKED BY:	BUSS J		AS NOTED	FILE NO.	025412711.mxd
APPROVED BY:	RICE J	DATE PRINTED:	1/30/2009	**FIGURE 1**	
DATE:	JANUARY 2009				

RMT
744 Heartland Trail
Madison, WI 53717-1934
P.O. Box 8923 53708-8923
Phone: 608-831-4444
Fax: 608-831-3334

D:\02541\27\MXD\025412711.mxd 1/30/2009 11:08:46

Figure 2
MW-101 CVOC Concentration Trend (in injection zone)

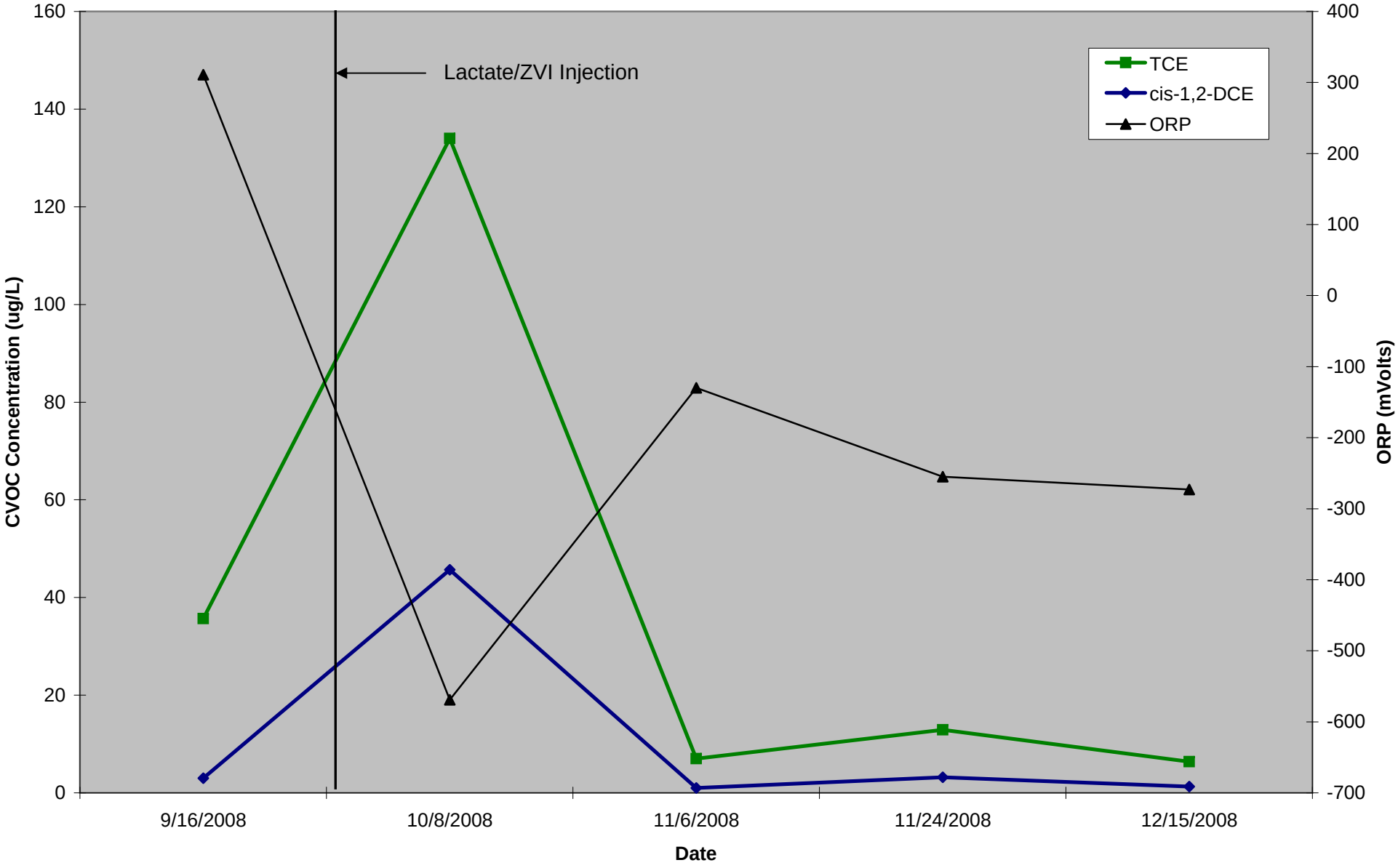


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Figure 3
MW-102 CVOC Concentration Trend (20 feet from injection zone)

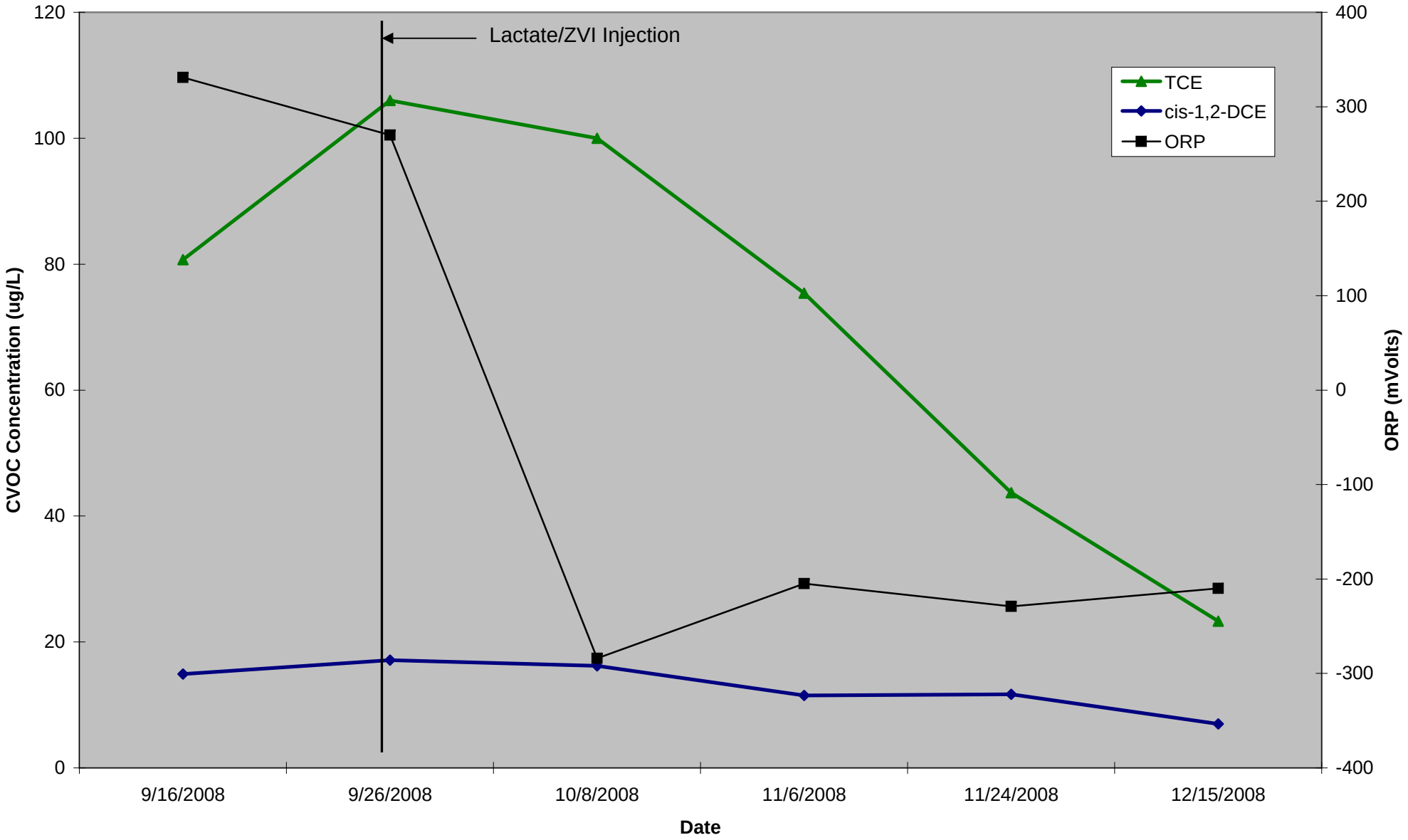

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Figure 4
MW-103 CVOC Concentration Trend (50 feet from injection zone)

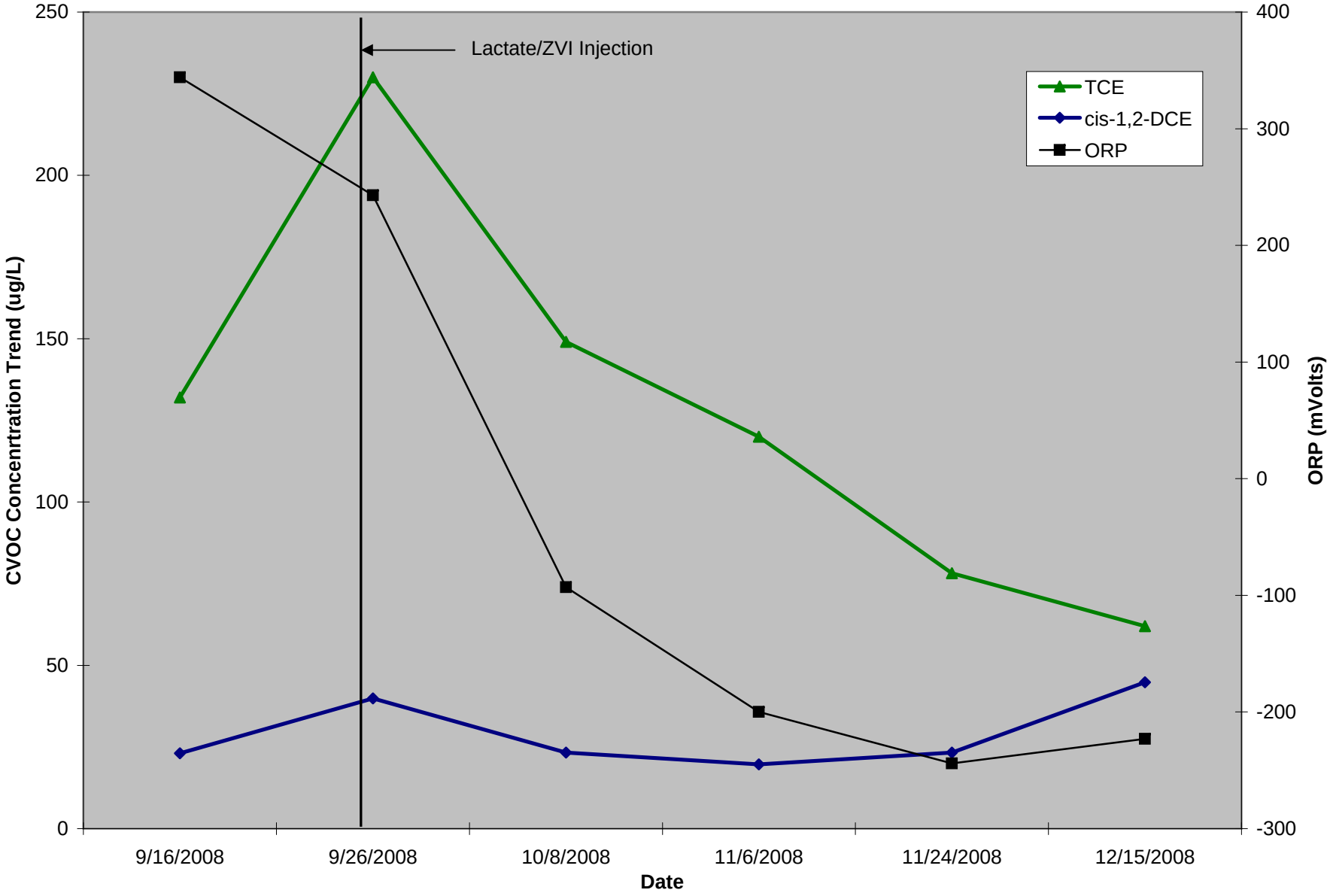

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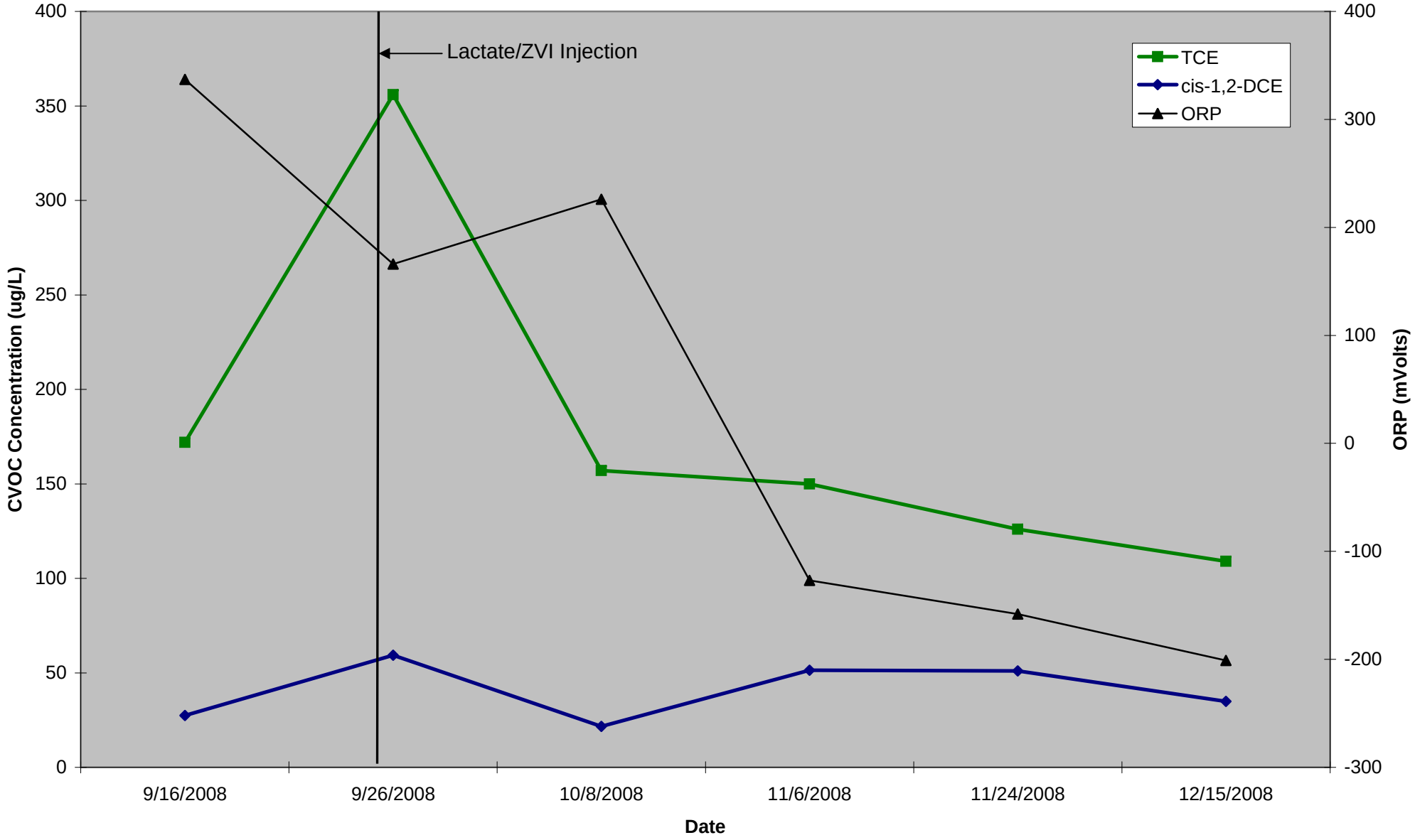
Figure 5
MW-104 CVOC Concentration Trend (80 feet from injection zone)



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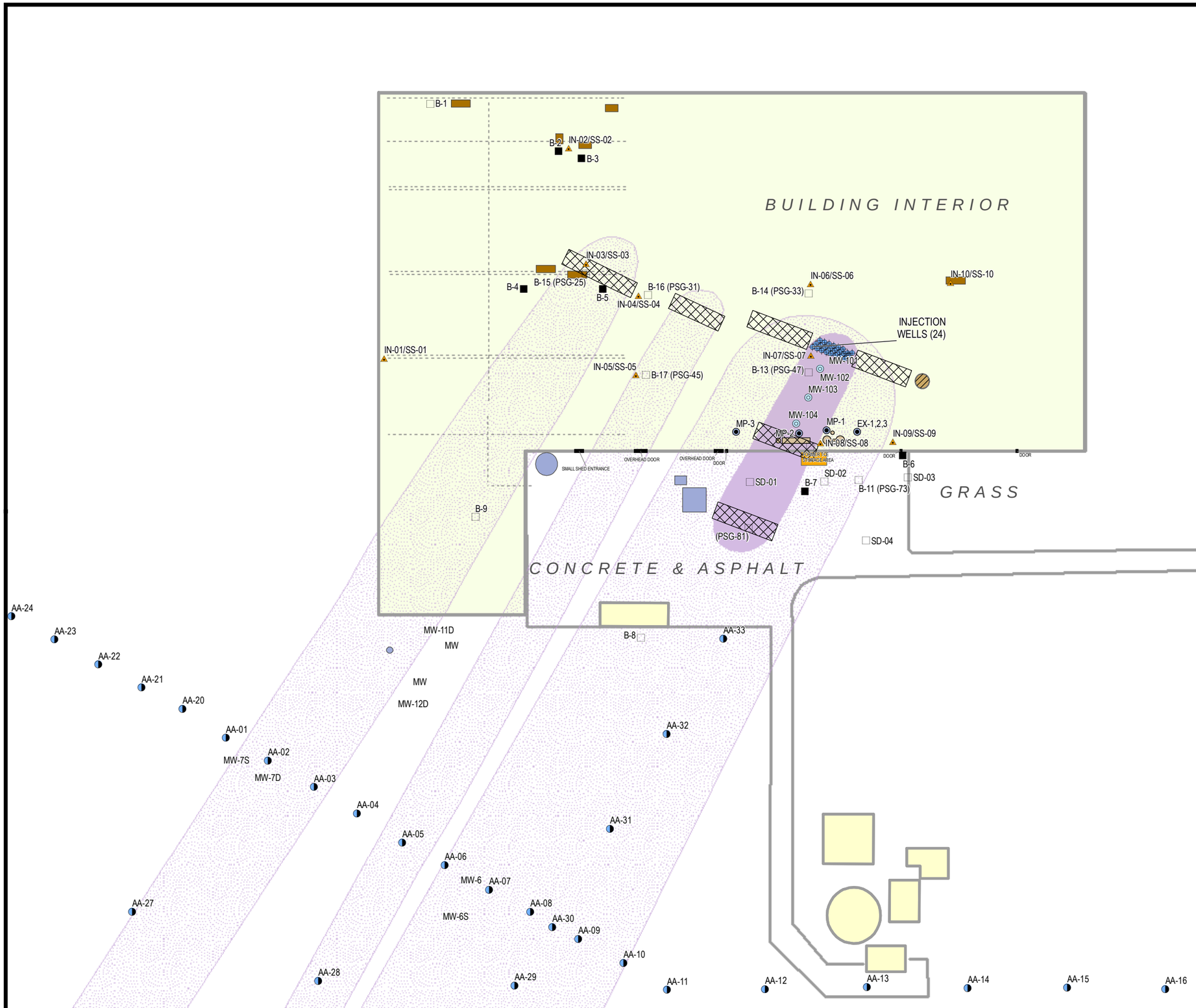

LEGEND

- LIMITS OF SOIL REQUIRING SVE REMEDIATION
- DEEP SOIL VAPOR EXTRACTION WELL NEST & MONITORING POINTS
- GROUNDWATER SCREENING SAMPLE
- MONITORING WELL
- SOIL GAS & SUBSLAB SOIL VAPOR SAMPLE LOCATION
- SOIL BORING LOCATION BY EKI (NO LOG AVAILABLE)
- SOIL BORING LOCATION BY RMT (LOG AVAILABLE)
- DOOR
- BUILDING OUTLINES
- SOIL GAS EXTRACTION SYSTEM
- FORMER TCE STORAGE AREA
- FORMER DEGREASER LOCATION
- FORMER FURNACE LOCATION
- FORMER TANK LOCATION
- ROAD/ASPHALT EDGE
- TRENCH SYSTEM (ABANDONED)
- NEW INJECTION WELL AREAS
- AREA OF AFFECTED GROUNDWATER
- CORE OF AFFECTED GROUNDWATER

NOTES

1. MONITORING POINTS LOCATED BY GPS, "DISTANCE –FROM-POINT" MEASUREMENTS OR FROM APPROXIMATION.

N

0 100 200 FEET

1 " = 100 '
1:1,200

PROJECT:
DANA CORPORATION
FORMER WARNER ELECTRIC DIVISION
ROSCOE, ILLINOIS

SHEET TITLE:
FULL SCALE INJECTION DESIGN

DRAWN BY: MCKEEFRY J	SCALE:	PROJ. NO.	00-02541.27
CHECKED BY: BUSS J	AS NOTED	FILE NO.	025412713.mxd
APPROVED BY: RICE J	DATE PRINTED:	**FIGURE 6**	
DATE: JANUARY 2009	1/30/2009		

RMT
744 Heartland Trail
Madison, WI 53717-1934
P.O. Box 8923 53708-8923
Phone: 608-831-4444
Fax: 608-831-3334

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Attachment 1

Well Inventory Form for Injection Permit

Illinois Environmental Protection Agency
Bureau of Land
Class V Injection Well Inventory Form

1. Date Prepared: 09/12/2008 2. County: Winnebago

3. Prepared by: Mark Walter

Company/Agency: RMT, Inc.

Phone Number: (608) 662-5138

4. IEPA Site Number: 006 114 169

☐ Indicate here if a number has not been previously assigned by the Bureau of Land and provide the Township name: _____

5. Facility Transaction (Check One):

☑ First Time Entry ☐ Modify Entry

6. Facility Name: Former Warner Electric Facility

Facility Contact: Jim Buss

Facility Phone Number: (608) 662-5367

Facility Address: 5253 McCurry Road

City: Roscoe

State: IL Zip Code: 61073

7. Owner: Craig Campbell

Owner's Organization: Dana Holding Corporation

Owner's Phone Number: (419) 535-4500

Owner's Address: 4500 Dorr Street

City: Toledo

State: OH Zip Code: 43615

8. Ownership (Check One) ☑ Private ☐ Public ☐ State ☐ Federal

☐ Other (specify) _____

9. Injection Fluid Information

Description of fluid: Concentrated lactate solution (see attached chemical description)

Is all of the fluid to be injected generated at this facility (Check One)?

☑ Yes ☐ No

If no, indicate the name and address of the facility(s) where the fluid is generated: _____

This Agency is authorized to require this information under the Illinois Environmental Protection Act 415 ILCS 5/39. Disclosure of this information is required and failure to do so may prevent this form from being processed and could result in your application being denied. This form has been approved by the Forms Management Center.

IL532-2043 LPC443

10. Distance to closest drinking water well (in feet): 6,600

If the distance is 200 feet or less, please include the date of completion of the drinking water well: _____

Ownership of the drinking water well: ☐ Public ☑ Private

11. Well Information"

A. Well Code	B. Total Wells this code	C. Well Status	D. Well Location Latitude Degree Minute Seconds	Longitude Degree Minute Seconds	E Well Transaction
5X26	24	UC	42 26 24.836 N	89 0 48.053 W	A

12. Comments (optional): _____

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Owner: _____ Date: _____

Operator: [signature] Date: 9/12/08

IL532-2043 LPC 443

The anaerobic biodegradation of trichloroethene (TCE) can occur by a process known as reductive dehalogenation. This process is a redox reaction consisting of reduction of an electron acceptor (TCE) by replacement of a chlorine atom with a hydrogen atom, and oxidation of an electron donor (organic substrate). Microorganisms are able to obtain energy from reductive dehalogenation, making it energetically favorable.

Various electron donors, such as methanol, lactate, acetate, propionate, and hydrogen have been shown to support reductive dehalogenation of TCE and its breakdown products. It is believed that the intermediate, hydrogen, is likely the actual electron donor in the overall process. The organic substrate we propose to inject is lactate, because it has been shown to be very effective and it is a rather innocuous compound.

The concentrated lactate solution, made with groundwater and directly injected through Geoprobe® drill rods, will consist of the following components:

Electron Donor: Redox Tech's patented ABC mixture of lactates, fatty acids, and a phosphate buffer. The lactates and fatty acids serve as electron donors to reduce chlorinated solvents. The phosphate buffer brings the solution to a neutral pH, which is the necessary range for the anaerobic microorganisms.

Injected Concentration: 280,000 mg/L

Zero Valent Iron (ZVI). It has been shown by researchers that providing ZVI is essential for enhancing reductive dechlorination. The process using ZVI is an abiotic reductive dechlorination process occurring on the surface of the granular iron, with the iron acting as an electron donor.

Injected Concentration: 190,000 mg/L

Trace nutrients: Yeast extract. It has been shown by researchers that providing trace nutrients is essential for enhancing anaerobic biodegradation. Yeast extract is a simple way to provide all the necessary constituents without preparing individual solutions.

Injected Concentration: 30 mg/L

Deoxygenator: Sodium Sulfite. Typically used in the wastewater industry to deoxygenate water. This is necessary to remove oxygen and provide a head start for the anaerobic organisms.

Injected Concentration: 50 mg/L

Attachment 2

Boring Logs and Well Construction Reports

WELL CONSTRUCTION LOG

RMT

WELL NO. MW-101

Facility/Project Name:	Date Drilling Started:	Date Drilling Completed:	Project Number:
Former Warner Electric	9/15/08	9/15/08	2541.27

Drilling Firm:	Drilling Method:	Surface Elev. (ft)	TOC Elevation (ft)	Total Depth (ft bgs)	Borehole Dia. (in)
On-Site Environmental	Direct Push	---	---	35.5	2

Boring Location:	Personnel	Drilling Equipment:
NW ¼ of NW ¼ of Section 28, T 46 R 12 E	Logged By - Ted O'Connell Driller - Tony Kapugi	Geoprobe

Civil Town/City/or Village:	County:	State:	Water Level Observations:
Roscoe	Winnebago	Illinois	While Drilling: Date/Time ▽ Depth (ft bgs) 27 After Drilling: Date/Time Depth (ft bgs)

SAMPLE NUMBER AND TYPE	RECOVERY (%)	BLOW COUNTS	DEPTH IN FEET	LITHOLOGIC DESCRIPTION	USCS	GRAPHIC LOG	WELL DIAGRAM	PID (PPM)	COMMENTS
				CONCRETE					
				SILTY SAND (SM) with gravel, fine to medium grained sand, 20% fines, 20% small to large gravel, non plastic, brown 10YR 5/3, slight odor, dry.	SM				
1 GP	67		2	**POORLY GRADED SAND WITH SILT AND GRAVEL (SP-SM)**, fine to medium grained sand, 20% to 25% fines, 15% to 20% small to large gravel, non plastic, very dark brown 10YR 3/2, slight odor, slightly moist.	SP-SM			2.7	
			4	Same as above w/ 10% to 15% gravel.					
			6	**SILTY SAND (SM)**, fine to medium grained sand, 20% to 30% fines, non plastic, dark brown 10YR 3/3, no odor, moist, dense.	SM				
2 GP	92		8	**POORLY GRADED SAND (SP)**, fine to medium grained, 5% to 10% fines, non plastic, brown 10YR 4/3, no odor, moist, slightly dense.	SP			5.4	
				CLAYEY SAND (SC) with trace gravel, fine to medium grained sand, 25% to 30% fines, 5% to 10% small to medium gravel, slightly plastic, dark yellowish brown 10YR 3/4, no odor, slightly moist.	SC				
			10	**POORLY GRADED SAND WITH GRAVEL (SP)**, medium grained sand, 20% to 25% small to large gravel, non plastic, light yellowish brown 10YR 6/4, no odor, dry, loose.	SP				
3 GP	100		12	**SILTY SAND (SM)**, fine to medium grained sand, 20% fines, slightly plastic, very dark grayish brown 10YR 3/2, no odor, slightly moist.	SM			0.0	
			14	**SILTY SAND (SM)**, fine to medium grained sand, 10% fines, non plastic, yellowish brown 10YR 5/4, no odor, slightly moist.	SC				
			16	**CLAYEY SAND WITH GRAVEL (SC)**, fine to medium grained sand, 15% to 25% fines, 5% to 10% gravel, slightly plastic, dark yellowish brown 10YR 4/4, no odor, slightly moist.	SC				
4 GP	50		18	**POORLY GRADED SAND WITH GRAVEL (SP)**, fine to medium grained sand, 30% to 40% small to large gravel, non plastic, light yellowish brown 10YR 6/4, no odor, dry, loose. Same as above, slightly moist at 18 feet.	SP			1.8	

Signature:	Firm: RMT, Inc. 744 Heartland Trail Madison, WI 53717	608-831-4444 Fax 608-831-3334

Checked By: J. Buss

SOIL BORING WELL CONSTRUCTION LOG 02541WGENERIC.GPJ RMT CORP.GDT 2541.27 11/18/08

WELL CONSTRUCTION LOG

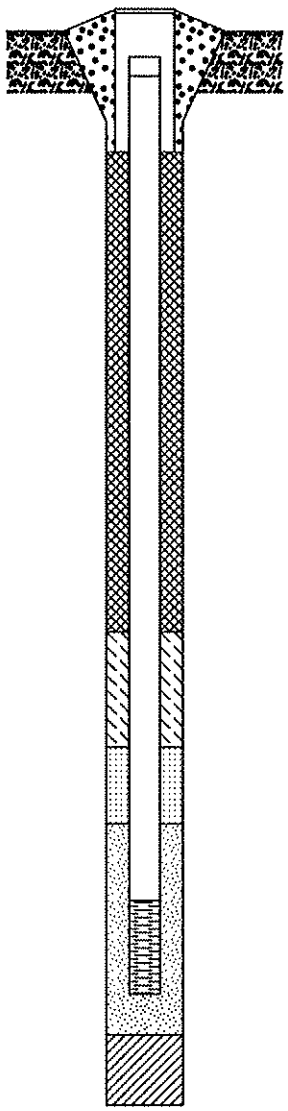
RMT

WELL NO. MW-101

SAMPLE NUMBER AND TYPE	RECOVERY (%)	BLOW COUNTS	DEPTH IN FEET	LITHOLOGIC DESCRIPTION	USCS	GRAPHIC LOG	WELL DIAGRAM	PID (PPM)	COMMENTS
5 GP	100		22, 24	Same as above, slight odor.				4.4	
6 GP	100		26, 28	Same as above, wet at 27 feet. ▽	SP			5.4	
			30, 32, 34	Augers used from 30 to 35.5 feet, cuttings logged for description.					
			36	**End of boring at 35.5 feet.**					
			38, 40, 42, 44, 46						

WELL CONSTRUCTION DIAGRAM

PROJECT:	Former Warner Electric					WELL NUMBER:	MW-101
PROJ. NO:	2541.27	DATE INSTALLED:	9/15/2008	INST. BY:	On-Site Environmental	OBSV. BY:	Ted O'Connell
NW 1/4 of NW 1/4 of Sec. 28, T. 46 N, R. 12 ☒ E ☐ W				State Plane COORDINATES: _____ ft. N, _____ ft. E.			



ELEVATION (FT., M.S.L.)	DEPTH (FT., BGS)	
		PROTECTIVE PIPE
	0.0	GROUND SURFACE
		TOP OF WELL
		Suface Seal: Concrete
	1.0	BASE OF SURFACE SEAL
		Material Between Protop & Well Casing
		Annular Space Seal: Granular Bentonite
	1.0	TOP OF BENTONITE SEAL Bentonite Seal: Granular Bentonite
	20.0	TOP OF FINE SAND Fine Sand: Sidley Sand
	22.0	TOP OF FILTER PACK Filter Pack:
	25.0	TOP OF WELL SCREEN Screen Length: 10.0 ft.
	35.0	BOTTOM OF WELL
	35.5	BOTTOM OF FILTER PACK
	35.5	BOTTOM OF BOREHOLE Material Below Filterpack (if any)

1. CASING AND SCREEN DETAILS:

Protective Cover with Lock? No Key No: NA

Protective Cover Description: _____

Riser Pipe (Material & Schedule): Schedule 40 PVC

Well Casing Diameter (in): 2 I.D. 2.375 O.D.

Screen Type: Factory Slotted PVC

Slot Size (in): 0.010 Pipe Joints: Threaded

Borehole Diameter (in): 4.25 From 0 ft. To 35.5 ft.

_____ From _____ ft. To _____ ft.

Comments: _____

2. WELL DEVELOPMENT:

Development Method: Disposable Bailer/Proactive Purge Pump

Time Spent Developing (min): 60

Water: Removed: 22 Gallons

Added: 0 Gallons

Water Clarity Before/After Development:

Before: Red-brown, moderate turbidity

After: Clear, no turbidity

Water Level Information:

Before Development:

Measurement Date/Time: 9/16/2008 8:40:00 AM

Depth to Water: 25.59 ft. Depth to Bottom: 34.95 ft.

After Development:

Measurement Date/Time: 9/16/2008 9:40:00 AM

Depth to Water: 25.40 ft. Depth to Bottom: 34.95 ft.

Comments: _____

WELL CONSTRUCTION LOG

RMT

WELL NO. MW-102

Facility/Project Name:	Date Drilling Started:	Date Drilling Completed:	Project Number:
Former Warner Electric	9/15/08	9/15/08	2541.27

Drilling Firm:	Drilling Method:	Surface Elev. (ft)	TOC Elevation (ft)	Total Depth (ft bgs)	Borehole Dia. (in)
On-Site Environmental	Direct Push	---	---	35.5	2

Boring Location:	Personnel	Drilling Equipment:
NW ¼ of NW ¼ of Section 28, T 46 R 12 E	Logged By - Ted O'Connell Driller - Tony Kapugi	Geoprobe

Civil Town/City/or Village:	County:	State:	Water Level Observations:
Roscoe	Winnebago	Illinois	While Drilling: Date/Time ▽ Depth (ft bgs) 27 After Drilling: Date/Time Depth (ft bgs)

SAMPLE NUMBER AND TYPE	RECOVERY (%)	BLOW COUNTS	DEPTH IN FEET	LITHOLOGIC DESCRIPTION	USCS	GRAPHIC LOG	WELL DIAGRAM	PID (PPM)	COMMENTS
				CONCRETE					
1 GP	67		2 4	**SILTY SAND WITH GRAVEL (SM)**, fine to medium grained sand, 15% to 25% small to large gravel, 10% to 20% fines, non plastic, dark brown 10YR 3/3, slight odor, slightly moist, loose.	SM			4.5	
2 GP	92		6 8	**SILTY SAND (SM)**, fine to medium grained sand, 20% to 30% fines, very dark brown - black 10YR 2/1, no odor, slightly moist.	SM			9.0	
				POORLY GRADED SAND WITH GRAVEL (SP), fine grained sand, 20% to 25% small to medium gravel, non plastic, yellowish brown 10YR 5/4, slight odor, slightly moist, loose.	SP				
				SILTY SAND (SM), fine grained sand, 20% to 30% fines, very dark brown - black 10YR 2/1, no odor, slightly moist.	SM				
				POORLY GRADED SAND (SP), fine grained sand, non plastic, dark yellowish brown 10YR 4/6, no odor, moist.	SP				
				SILTY SAND (SM), fine grained sand, 30% to 40% fines, slightly plastic, dark brown 7.5YR 3/3, no odor, moist.	SM				
3 GP	100		10 12 14	**POORLY GRADED SAND WITH GRAVEL (SP)**, fine to medium grained sand, 20% to 30% small to large gravel, non plastic, slight odor, dry, loose.	SP			1.8	
				SILT (ML), non plastic, brown 7.5YR 5/4, no odor, slightly moist.	ML				
4 GP	50		16 18	**POORLY GRADED SAND WITH SILT AND GRAVEL (SP-SM)**, 15% to 20% fines, 15% to 20% small to large gravel, non plastic, yellowish brown 10YR 5/4, slight odor, slightly moist, loose.	SP-SM			1.8	
				POORLY GRADED SAND WITH GRAVEL (SP), fine to medium grained sand, 20% small to large gravel, non plastic, very pale brown 10YR 7/4, no odor, dry, loose.	SP				

SOIL BORING WELL CONSTRUCTION LOG 02541WGENERIC.GPJ RMT_CORP.GDT 2541.27 11/18/08

Signature:	Firm: RMT, Inc. 744 Heartland Trail Madison, WI 53717	608-831-4444 Fax 608-831-3334

Checked By: J. Buss

4

WELL CONSTRUCTION LOG

RMT

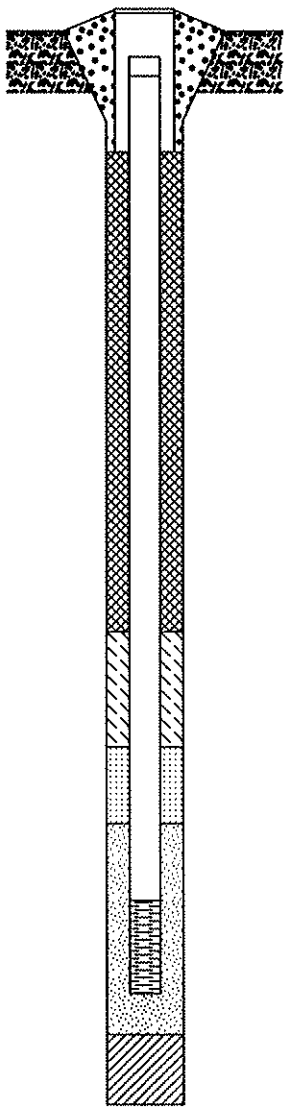
WELL NO. MW-102

SAMPLE NUMBER AND TYPE	RECOVERY (%)	BLOW COUNTS	DEPTH IN FEET	LITHOLOGIC DESCRIPTION	USCS	GRAPHIC LOG	WELL DIAGRAM	PID (PPM)	COMMENTS
5 GP	80		22, 24	Same as above				3.6	
6 GP	83		26, 28	Same as above. Wet at 27.	SP			3.0	
			30, 32, 34	Same as above. Augers used from 30 to 35.5 feet, cuttings were logged for description.					
			35.5	**End of boring at 35.5 feet.**					
			36, 38, 40, 42, 44, 46						

SOIL BORING WELL CONSTRUCTION LOG 02541WGENERIC.GPJ RMT_CORP.GDT 2541.27 11/18/08

WELL CONSTRUCTION DIAGRAM

PROJECT:	Former Warner Electric					WELL NUMBER:	MW-102
PROJ. NO:	2541.27	DATE INSTALLED:	9/15/2008	INST. BY:	On-Site Environmental	OBSV. BY:	Ted O'Connell
NW 1/4 of NW 1/4 of Sec. 28, T. 46 N, R. 12 ☒ E ☐ W				State Plane COORDINATES: _____ ft. N, _____ ft. E.			



ELEVATION (FT., M.S.L.)	DEPTH (FT., BGS)	
		PROTECTIVE PIPE
	0.0	GROUND SURFACE
		TOP OF WELL
		Suface Seal: Concrete
	1.0	BASE OF SURFACE SEAL
		Material Between Protop & Well Casing
		Annular Space Seal: Granular Bentonite
	1.0	TOP OF BENTONITE SEAL Bentonite Seal: Granular Bentonite
	20.0	TOP OF FINE SAND Fine Sand: Sidley Sand
	22.0	TOP OF FILTER PACK Filter Pack:
	25.0	TOP OF WELL SCREEN Screen Length: 10.0 ft.
	35.0	BOTTOM OF WELL
	35.5	BOTTOM OF FILTER PACK
	35.5	BOTTOM OF BOREHOLE Material Below Filterpack (if any)

1. CASING AND SCREEN DETAILS:

Protective Cover with Lock? No Key No: NA

Protective Cover Description: _____

Riser Pipe (Material & Schedule): Schedule 40 PVC

Well Casing Diameter (in): 2 I.D. 2.375 O.D.

Screen Type: Factory Slotted PVC

Slot Size (in): 0.010 Pipe Joints: Threaded

Borehole Diameter (in): 4.25 From 0 ft. To 35.5 ft.

_____ From _____ ft. To _____ ft.

Comments: _____

2. WELL DEVELOPMENT:

Development Method: Proactive purge pump

Time Spent Developing (min): 25

Water: Removed: 25 Gallons

Added: 0 Gallons

Water Clarity Before/After Development:

Before: Red-brown, moderate turbidity

After: Clear, no turbidity

Water Level Information:

Before Development:

Measurement Date/Time: 9/16/2008 10:41:00 AM

Depth to Water: 25.40 ft. Depth to Bottom: 35.00 ft.

After Development:

Measurement Date/Time: 9/16/2008 11:06:00 AM

Depth to Water: 25.32 ft. Depth to Bottom: 35.00 ft.

Comments: _____

6

WELL CONSTRUCTION LOG

RMT

WELL NO. MW-103

Facility/Project Name:	Date Drilling Started:	Date Drilling Completed:	Project Number:
Former Warner Electric	9/15/08	9/15/08	2541.27

Drilling Firm:	Drilling Method:	Surface Elev. (ft)	TOC Elevation (ft)	Total Depth (ft bgs)	Borehole Dia. (in)
On-Site Environmental	Direct Push	---	---	35.5	2

Boring Location:	Personnel	Drilling Equipment:
NW ¼ of NW ¼ of Section 28, T 46 R 12 E	Logged By - Ted O'Connell Driller - Tony Kapugi	Geoprobe

Civil Town/City/or Village:	County:	State:	Water Level Observations:
Roscoe	Winnebago	Illinois	While Drilling: Date/Time ▽ Depth (ft bgs) 27 After Drilling: Date/Time Depth (ft bgs)

SAMPLE NUMBER AND TYPE	RECOVERY (%)	BLOW COUNTS	DEPTH IN FEET	LITHOLOGIC DESCRIPTION	USCS	GRAPHIC LOG	WELL DIAGRAM	PID (PPM)	COMMENTS
				CONCRETE					
1 GP	50		2, 4	**POORLY GRADED SAND WITH SILT AND GRAVEL (SP-SM)**, fine to medium grained sand, 20% to 25% small to large gravel, 10% to 15% fines, non plastic, light yellow brown 10YR 6/4, slight odor, dry, loose.	SP-SM			2.7	
2 GP	58		6, 8	**SILTY SAND (SM)**, very fine to fine grained sand, 15% to 20% fines, non plastic, very dark brown 10YR 2/2, odor, slightly moist.	SM			9.1	
				POORLY GRADED SAND (SP), very fine to fine grained sand, non plastic, yellowish brown 10YR 5/6, no odor, slightly moist.	SP				
3 GP	80		10, 12, 14	**SILTY SAND (SM)**, fine to medium grained sand, 20% to 30% fines, non plastic, dark yellowish brown 10YR 4/4, slight odor, slightly moist, medium dense.	SM			8.1	
				POORLY GRADED SAND (SP), fine grained, 5% fines, dark yellowish brown 10YR 4/6, no odor, slightly moist, loose.	SP				
				SILTY SAND (SM) with trace gravel, 15% to 20% fines, 5% small gravel, non plastic, dark yellowish brown 10YR 3/4, no odor, slightly moist, medium dense.	SM				
				SILT (ML), slightly plastic, very pale brown 10YR 7/4, no odor, slightly moist.	ML				
4 GP	100		16, 18	**POORLY GRADED SAND WITH GRAVEL (SP)**, fine to medium grained sand, 25% to 35% small to large gravel, non plastic, yellowish brown 10YR 5/4, no odor, slightly moist, loose.	SP			6.3	

SOIL BORING WELL CONSTRUCTION LOG 02541WGENERIC.GPJ RMT_CORP.GDT 2541.27 11/18/08

Signature:	Firm: RMT, Inc. 744 Heartland Trail Madison, WI 53717	608-831-4444 Fax 608-831-3334

Checked By: J. Buss

WELL CONSTRUCTION LOG

RMT

WELL NO. MW-103

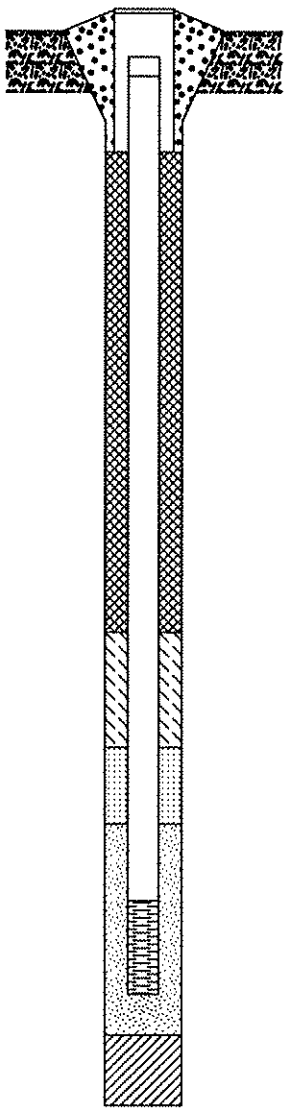
SAMPLE NUMBER AND TYPE	SAMPLE RECOVERY (%)	BLOW COUNTS	DEPTH IN FEET	LITHOLOGIC DESCRIPTION	USCS	GRAPHIC LOG	WELL DIAGRAM	PID (PPM)	COMMENTS
5 GP	100		22, 24	Same as above.				1.8	
6 GP	100		26, 28	Same as above	SP			1.8	
			30, 32, 34	Same as above. Augers were used from 30 to 35.5, cuttings were logged for description.					
			36	**End of Boring at 35.5 feet.**					
			38, 40, 42, 44, 46						

8

WELL CONSTRUCTION DIAGRAM

PROJECT:	Former Warner Electric					WELL NUMBER:	MW-103
PROJ. NO:	2541.27	DATE INSTALLED:	9/15/2008	INST. BY:	On-Site Environmental	OBSV. BY:	Ted O'Connell
NW 1/4 of NW 1/4 of Sec. 28, T. 46 N, R. 12 ☒ E ☐ W				State Plane COORDINATES: ____ ft. N, ____ ft. E.			

ELEVATION (FT., M.S.L.) | DEPTH (FT., BGS)



Depth (FT., BGS)	Elevation (FT., M.S.L.)	
		PROTECTIVE PIPE
0.0		GROUND SURFACE
		TOP OF WELL
		Suface Seal: Concrete
1.0		BASE OF SURFACE SEAL
		Material Between Protop & Well Casing
		Annular Space Seal: Granular Bentonite
1.0		TOP OF BENTONITE SEAL Bentonite Seal: Granular Bentonite
20.0		TOP OF FINE SAND Fine Sand: Sidley Sand
22.0		TOP OF FILTER PACK Filter Pack:
25.0		TOP OF WELL SCREEN Screen Length: 10.0 ft.
35.0		BOTTOM OF WELL
35.5		BOTTOM OF FILTER PACK
35.5		BOTTOM OF BOREHOLE Material Below Filterpack (if any):

1. CASING AND SCREEN DETAILS:

Protective Cover with Lock? No Key No: NA

Protective Cover Description: ____

Riser Pipe (Material & Schedule): Schedule 40 PVC

Well Casing Diameter (in): 2 I.D. 2.375 O.D.

Screen Type: Factory Slotted PVC

Slot Size (in): 0.010 Pipe Joints: Threaded

Borehole Diameter (in): 4.25 From 0 ft. To 35.5 ft.

____ From ____ ft. To ____ ft.

Comments: ____

2. WELL DEVELOPMENT:

Development Method: Proactive purge pump

Time Spent Developing (min): 27

Water: Removed: 22 Gallons
Added: 0 Gallons

Water Clarity Before/After Development:

Before: Red-brown, moderate turbidty

After: Clear, no turbidity

Water Level Information:

Before Development:

Measurement Date/Time: 9/16/2008 12:37:00 PM

Depth to Water: 25.40 ft. Depth to Bottom: 34.80 ft.

After Development:

Measurement Date/Time: 9/16/2008 1:04:00 PM

Depth to Water: 25.40 ft. Depth to Bottom: 34.80 ft.

Comments: ____

WELL CONSTRUCTION LOG

RMT

WELL NO. MW-104

Facility/Project Name:	Date Drilling Started:	Date Drilling Completed:	Project Number:
Former Warner Electric	9/15/08	9/15/08	2541.27

Drilling Firm:	Drilling Method:	Surface Elev. (ft)	TOC Elevation (ft)	Total Depth (ft bgs)	Borehole Dia. (in)
On-Site Environmental	Direct Push	---	---	35.5	2

Boring Location:

Personnel
Logged By -
Driller -

Drilling Equipment:

Civil Town/City/or Village:	County:	State:
Roscoe	Winnebago	Illinois

Water Level Observations:
While Drilling: Date/Time Depth (ft bgs)
After Drilling: Date/Time Depth (ft bgs)

SAMPLE NUMBER AND TYPE	RECOVERY (%)	BLOW COUNTS	DEPTH IN FEET	LITHOLOGIC DESCRIPTION	USCS	GRAPHIC LOG	WELL DIAGRAM	PID (PPM)	COMMENTS
				CONCRETE					
1 GP	58			**SILTY SAND (SM)**, fine grained sand, 30% to 40% fines, slightly plastic, very dark brown 10YR 2/2, slight odor, slightly moist.	SM				
				POORLY GRADED SAND WITH SILT AND GRAVEL (SP-SM), fine to medium grained sand, 20% small to large gravel, 10% to 15% fines, non plastic, brown 10YR 4/3, slight odor, moist.	SP-SM			20.2	
			5	**SILTY SAND (SM)**, very fine to fine grained sand, 20% to 30% fines, non plastic, very dark brown 10YR 2/2, slight odor, slightly moist.	SM				
2 GP	83			**POORLY GRADED SAND (SP)**, very fine to fine grained, non plastic, dark yellowish brown10YR 3/4, odor, slightly moist, loose.	SP			5.4	
				SILTY SAND (SM) with trace clay and gravel, fine to medium grained sand, 30% fines, 5% small to large gravel, slightly plastic, dark brown 10YR 3/3, slight odor, slightly moist.	SM				
					SP-SM				
			10		ML				
3 GP	100			**POORLY GRADED SAND WITH SILT AND GRAVEL (SP-SM)**, fine grained sand, 20% to 30% fines, 15% to 25% small to large gravel, non plastic, dark yellowish brown 10YR 4/4, no odor, slightly moist.				0.9	
				SILT (SM), slightly plastic, brown 10YR 5/3, slight odor, moist.					
			15	**POORLY GRADED SAND WITH GRAVEL (SP)**, fine to medium grained sand, 25% to 35% small to large gravel, non plastic, light yellowish brown 10YR 6/4, strong odor, slightly moist, loose.					
4 GP	100			Same as above	SP			2.7	
			20	Same as above. Moist from 23 - 25 feet.					
5 GP	83							0.9	

SOIL BORING WELL CONSTRUCTION LOG 02541WGENERIC.GPJ RMT_CORP.GDT 2541.27 11/18/08

Signature:

Firm: RMT, Inc.
744 Heartland Trail Madison, WI 53717
608-831-4444
Fax 608-831-3334

Checked By: _____

WELL CONSTRUCTION LOG

RMT

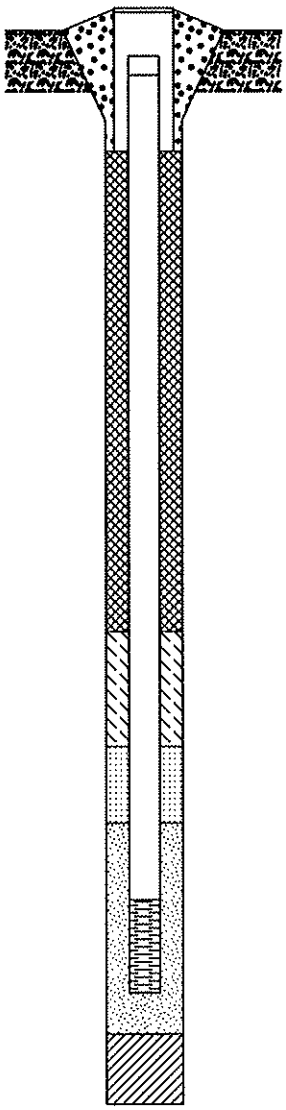
WELL NO. MW-104

SAMPLE NUMBER AND TYPE	SAMPLE RECOVERY (%)	BLOW COUNTS	DEPTH IN FEET	LITHOLOGIC DESCRIPTION	USCS	GRAPHIC LOG	WELL DIAGRAM	PID (PPM)	COMMENTS
6 GP	100			Same as above. Wet at 26 feet.				0.0	
			30	Same as above. Augers were used from 30 to 35.5 feet, cuttings were logged for description.	SP				
			35	**End of boring at 35.5 feet.**					
			40						
			45						
			50						
			55						

WELL CONSTRUCTION DIAGRAM

PROJECT:	Former Warner Electric					WELL NUMBER:	MW-104
PROJ. NO:	2541.27	DATE INSTALLED:	9/15/2008	INST. BY:	On-Site Environmental	OBSV. BY:	
____1/4 of ____ 1/4 of Sec. ____, T.____ N, R. ____ ☐ E ☐ W				State Plane COORDINATES: ____ ft. N, ____ ft. E.			

ELEVATION (FT., M.S.L.) | DEPTH (FT., BGS)



Depth (FT., BGS)	Item
	PROTECTIVE PIPE
0.0	GROUND SURFACE
	TOP OF WELL
	Suface Seal: Concrete
1.0	BASE OF SURFACE SEAL
	Material Between Protop & Well Casing
	Annular Space Seal: Granular Bentonite
1.0	TOP OF BENTONITE SEAL Bentonite Seal: Granular Bentonite
20.0	TOP OF FINE SAND Fine Sand: Sidley Sand
22.0	TOP OF FILTER PACK Filter Pack:
25.0	TOP OF WELL SCREEN Screen Length: 10.0 ft.
35.0	BOTTOM OF WELL
35.5	BOTTOM OF FILTER PACK
35.5	BOTTOM OF BOREHOLE Material Below Filterpack (if any)

1. CASING AND SCREEN DETAILS:

Protective Cover with Lock? No Key No: NA

Protective Cover Description: ____

Riser Pipe (Material & Schedule): Schedule 40 PVC

Well Casing Diameter (in): 2 I.D. 2.375 O.D.

Screen Type: Factory Slotted PVC

Slot Size (in): 0.010 Pipe Joints: Threaded

Borehole Diameter (in): 4.25 From 0 ft. To 35.5 ft.

____ From ____ ft. To ____ ft.

Comments: ____

2. WELL DEVELOPMENT:

Development Method: Proactive purge pump

Time Spent Developing (min): 22

Water: Removed: 22 Gallons

Added: 0 Gallons

Water Clarity Before/After Development:

Before: Red-brown, moderate turbidity

After: Clear, no turbidity

Water Level Information:

Before Development:

Measurement Date/Time: 9/16/2008 1:21:00 PM

Depth to Water: 25.47 ft. Depth to Bottom: 34.95 ft.

After Development:

Measurement Date/Time: 9/16/2008 1:43:00 PM

Depth to Water: 25.47 ft. Depth to Bottom: 34.95 ft.

Comments: ____

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Attachment 3

Laboratory Data Reports

Pace Analytical Services, Inc.
1241 Bellevue Street
Green Bay, WI 54302
(920)469-2436

September 25, 2008

JIM BUSS
RMT MADISON
744 HEARTLAND TRAIL
Madison, WI 537171934

RE: Project: 2541.27 DANA ROSCOE
Pace Project No.: 409137

Dear JIM BUSS:
Enclosed are the analytical results for sample(s) received by the laboratory on September 18, 2008. The results relate only to the samples included in this report. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Tod Noltemeyer

tod.noltemeyer@pacelabs.com
Project Manager

Enclosures

REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: 2541.27 DANA ROSCOE
Pace Project No.: 409137

Green Bay Certification IDs

Louisiana Certification #: 04168
Kentucky Certification #: 82
Wisconsin DATCP Certification #: 105-444
Wisconsin Certification #: 405132750
South Carolina Certification #: 83006001
Minnesota Certification #: 055-999-334
North Carolina Certification #: 503
North Dakota Certification #: R-150
New York Certification #: 11888
Illinois Certification #: 200050
Florida (NELAP) Certification #: E87948

Green Bay Volatiles Certification IDs

Louisiana Certification #: 04169
Kentucky Certification #: 83
Wisconsin DATCP Certification #: 105-444
Wisconsin Certification #: 405132750
South Carolina Certification #: 83006001
Minnesota Certification #: 055-999-334
North Carolina Certification #: 503
North Dakota Certification #: R-200
New York Certification #: 11887
Illinois Certification #: 200051
Florida (NELAP) Certification #: E87951

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SAMPLE SUMMARY

Project: 2541.27 DANA ROSCOE
Pace Project No.: 409137

Lab ID	Sample ID	Matrix	Date Collected	Date Received
409137001	**MW-101**	Water	09/16/08 09:40	09/18/08 09:28
409137002	**MW-102**	Water	09/16/08 11:00	09/18/08 09:28
409137003	**MW-103**	Water	09/16/08 13:04	09/18/08 09:28
409137004	**MW-104**	Water	09/16/08 13:43	09/18/08 09:28
409137005	**TRIP BLANK**	Water	09/16/08 00:00	09/18/08 09:28

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SAMPLE ANALYTE COUNT

Project: 2541.27 DANA ROSCOE
Pace Project No.: 409137

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
409137001	MW-101	EPA 8260	SMT	14	PASI-G
409137002	MW-102	EPA 8260	SMT	14	PASI-G
409137003	MW-103	EPA 8260	SMT	14	PASI-G
409137004	MW-104	EPA 8260	SMT	14	PASI-G
409137005	TRIP BLANK	EPA 8260	SMT	14	PASI-G

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PROJECT NARRATIVE

Project: 2541.27 DANA ROSCOE
Pace Project No.: 409137

Method: **EPA 8260**
Description: 8260 MSV
Client: RMT MADISON
Date: September 25, 2008

General Information:
5 samples were analyzed for EPA 8260. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Internal Standards:
All internal standards were within QC limits with any exceptions noted below.

Surrogates:
All surrogates were within QC limits with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.

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ANALYTICAL RESULTS

Project: 2541.27 DANA ROSCOE
Pace Project No.: 409137

Sample: MW-101 **Lab ID: 409137001** Collected: 09/16/08 09:40 Received: 09/18/08 09:28 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
1,1,1-Trichloroethane	**<1.0**	ug/L	1.0	0.90	1		09/19/08 14:20	71-55-6	
1,1-Dichloroethane	**<1.0**	ug/L	1.0	0.75	1		09/19/08 14:20	75-34-3	
1,4-Dichlorobenzene	**<1.0**	ug/L	1.0	0.95	1		09/19/08 14:20	106-46-7	
Dichlorodifluoromethane	**<1.0**	ug/L	1.0	0.99	1		09/19/08 14:20	75-71-8	
Methylene Chloride	**<1.0**	ug/L	1.0	0.43	1		09/19/08 14:20	75-09-2	
Tetrachloroethene	**<1.0**	ug/L	1.0	0.45	1		09/19/08 14:20	127-18-4	
Toluene	**<1.0**	ug/L	1.0	0.67	1		09/19/08 14:20	108-88-3	
Trichloroethene	**35.7**	ug/L	1.0	0.48	1		09/19/08 14:20	79-01-6	
Vinyl chloride	**<1.0**	ug/L	1.0	0.18	1		09/19/08 14:20	75-01-4	
cis-1,2-Dichloroethene	**3.0**	ug/L	1.0	0.83	1		09/19/08 14:20	156-59-2	
trans-1,2-Dichloroethene	**<1.0**	ug/L	1.0	0.89	1		09/19/08 14:20	156-60-5	
4-Bromofluorobenzene (S)	105	%	64-132		1		09/19/08 14:20	460-00-4	
Dibromofluoromethane (S)	99	%	68-122		1		09/19/08 14:20	1868-53-7	
Toluene-d8 (S)	107	%	73-127		1		09/19/08 14:20	2037-26-5	

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ANALYTICAL RESULTS

Project: 2541.27 DANA ROSCOE
Pace Project No.: 409137

Sample: MW-102 **Lab ID: 409137002** Collected: 09/16/08 11:00 Received: 09/18/08 09:28 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
1,1,1-Trichloroethane	**1.8**	ug/L	1.0	0.90	1		09/24/08 01:29	71-55-6	
1,1-Dichloroethane	**<1.0**	ug/L	1.0	0.75	1		09/24/08 01:29	75-34-3	
1,4-Dichlorobenzene	**<1.0**	ug/L	1.0	0.95	1		09/24/08 01:29	106-46-7	
Dichlorodifluoromethane	**<1.0**	ug/L	1.0	0.99	1		09/24/08 01:29	75-71-8	
Methylene Chloride	**<1.0**	ug/L	1.0	0.43	1		09/24/08 01:29	75-09-2	
Tetrachloroethene	**<1.0**	ug/L	1.0	0.45	1		09/24/08 01:29	127-18-4	
Toluene	**<1.0**	ug/L	1.0	0.67	1		09/24/08 01:29	108-88-3	
Trichloroethene	**80.7**	ug/L	1.0	0.48	1		09/24/08 01:29	79-01-6	
Vinyl chloride	**<1.0**	ug/L	1.0	0.18	1		09/24/08 01:29	75-01-4	
cis-1,2-Dichloroethene	**14.9**	ug/L	1.0	0.83	1		09/24/08 01:29	156-59-2	
trans-1,2-Dichloroethene	**<1.0**	ug/L	1.0	0.89	1		09/24/08 01:29	156-60-5	
4-Bromofluorobenzene (S)	98	%	64-132		1		09/24/08 01:29	460-00-4	
Dibromofluoromethane (S)	108	%	68-122		1		09/24/08 01:29	1868-53-7	
Toluene-d8 (S)	106	%	73-127		1		09/24/08 01:29	2037-26-5	

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ANALYTICAL RESULTS

Project: 2541.27 DANA ROSCOE
Pace Project No.: 409137

Sample: MW-103 **Lab ID: 409137003** Collected: 09/16/08 13:04 Received: 09/18/08 09:28 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
1,1,1-Trichloroethane	**1.3**	ug/L	1.0	0.90	1		09/24/08 01:53	71-55-6	
1,1-Dichloroethane	**<1.0**	ug/L	1.0	0.75	1		09/24/08 01:53	75-34-3	
1,4-Dichlorobenzene	**<1.0**	ug/L	1.0	0.95	1		09/24/08 01:53	106-46-7	
Dichlorodifluoromethane	**<1.0**	ug/L	1.0	0.99	1		09/24/08 01:53	75-71-8	
Methylene Chloride	**<1.0**	ug/L	1.0	0.43	1		09/24/08 01:53	75-09-2	
Tetrachloroethene	**<1.0**	ug/L	1.0	0.45	1		09/24/08 01:53	127-18-4	
Toluene	**<1.0**	ug/L	1.0	0.67	1		09/24/08 01:53	108-88-3	
Trichloroethene	**132**	ug/L	1.0	0.48	1		09/24/08 01:53	79-01-6	
Vinyl chloride	**<1.0**	ug/L	1.0	0.18	1		09/24/08 01:53	75-01-4	
cis-1,2-Dichloroethene	**23.1**	ug/L	1.0	0.83	1		09/24/08 01:53	156-59-2	
trans-1,2-Dichloroethene	**<1.0**	ug/L	1.0	0.89	1		09/24/08 01:53	156-60-5	
4-Bromofluorobenzene (S)	98	%	64-132		1		09/24/08 01:53	460-00-4	
Dibromofluoromethane (S)	109	%	68-122		1		09/24/08 01:53	1868-53-7	
Toluene-d8 (S)	105	%	73-127		1		09/24/08 01:53	2037-26-5	

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ANALYTICAL RESULTS

Project: 2541.27 DANA ROSCOE
Pace Project No.: 409137

Sample: MW-104 **Lab ID: 409137004** Collected: 09/16/08 13:43 Received: 09/18/08 09:28 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
1,1,1-Trichloroethane	**1.4**	ug/L	1.0	0.90	1		09/23/08 18:26	71-55-6	
1,1-Dichloroethane	**1.0**	ug/L	1.0	0.75	1		09/23/08 18:26	75-34-3	
1,4-Dichlorobenzene	**<1.0**	ug/L	1.0	0.95	1		09/23/08 18:26	106-46-7	
Dichlorodifluoromethane	**<1.0**	ug/L	1.0	0.99	1		09/23/08 18:26	75-71-8	
Methylene Chloride	**<1.0**	ug/L	1.0	0.43	1		09/23/08 18:26	75-09-2	
Tetrachloroethene	**<1.0**	ug/L	1.0	0.45	1		09/23/08 18:26	127-18-4	
Toluene	**<1.0**	ug/L	1.0	0.67	1		09/23/08 18:26	108-88-3	
Trichloroethene	**172**	ug/L	1.0	0.48	1		09/23/08 18:26	79-01-6	
Vinyl chloride	**<1.0**	ug/L	1.0	0.18	1		09/23/08 18:26	75-01-4	
cis-1,2-Dichloroethene	**27.4**	ug/L	1.0	0.83	1		09/23/08 18:26	156-59-2	
trans-1,2-Dichloroethene	**<1.0**	ug/L	1.0	0.89	1		09/23/08 18:26	156-60-5	
4-Bromofluorobenzene (S)	97	%	64-132		1		09/23/08 18:26	460-00-4	
Dibromofluoromethane (S)	103	%	68-122		1		09/23/08 18:26	1868-53-7	
Toluene-d8 (S)	105	%	73-127		1		09/23/08 18:26	2037-26-5	

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ANALYTICAL RESULTS

Project: 2541.27 DANA ROSCOE
Pace Project No.: 409137

Sample: TRIP BLANK **Lab ID: 409137005** Collected: 09/16/08 00:00 Received: 09/18/08 09:28 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
1,1,1-Trichloroethane	**<1.0**	ug/L	1.0	0.90	1		09/23/08 18:49	71-55-6	
1,1-Dichloroethane	**<1.0**	ug/L	1.0	0.75	1		09/23/08 18:49	75-34-3	
1,4-Dichlorobenzene	**<1.0**	ug/L	1.0	0.95	1		09/23/08 18:49	106-46-7	
Dichlorodifluoromethane	**<1.0**	ug/L	1.0	0.99	1		09/23/08 18:49	75-71-8	
Methylene Chloride	**<1.0**	ug/L	1.0	0.43	1		09/23/08 18:49	75-09-2	
Tetrachloroethene	**<1.0**	ug/L	1.0	0.45	1		09/23/08 18:49	127-18-4	
Toluene	**<1.0**	ug/L	1.0	0.67	1		09/23/08 18:49	108-88-3	
Trichloroethene	**<1.0**	ug/L	1.0	0.48	1		09/23/08 18:49	79-01-6	
Vinyl chloride	**<1.0**	ug/L	1.0	0.18	1		09/23/08 18:49	75-01-4	
cis-1,2-Dichloroethene	**<1.0**	ug/L	1.0	0.83	1		09/23/08 18:49	156-59-2	
trans-1,2-Dichloroethene	**<1.0**	ug/L	1.0	0.89	1		09/23/08 18:49	156-60-5	
4-Bromofluorobenzene (S)	97	%	64-132		1		09/23/08 18:49	460-00-4	
Dibromofluoromethane (S)	107	%	68-122		1		09/23/08 18:49	1868-53-7	
Toluene-d8 (S)	103	%	73-127		1		09/23/08 18:49	2037-26-5	

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QUALITY CONTROL DATA

Project: 2541.27 DANA ROSCOE
Pace Project No.: 409137

QC Batch: MSV/2628 | Analysis Method: EPA 8260
QC Batch Method: EPA 8260 | Analysis Description: 8260 MSV
Associated Lab Samples: 409137001

METHOD BLANK: 78765 | Matrix: Water
Associated Lab Samples: 409137001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	<1.0	1.0	09/19/08 11:04	
1,1-Dichloroethane	ug/L	<1.0	1.0	09/19/08 11:04	
1,4-Dichlorobenzene	ug/L	<1.0	1.0	09/19/08 11:04	
cis-1,2-Dichloroethene	ug/L	<1.0	1.0	09/19/08 11:04	
Dichlorodifluoromethane	ug/L	<1.0	1.0	09/19/08 11:04	
Methylene Chloride	ug/L	<1.0	1.0	09/19/08 11:04	
Tetrachloroethene	ug/L	<1.0	1.0	09/19/08 11:04	
Toluene	ug/L	<1.0	1.0	09/19/08 11:04	
trans-1,2-Dichloroethene	ug/L	<1.0	1.0	09/19/08 11:04	
Trichloroethene	ug/L	<1.0	1.0	09/19/08 11:04	
Vinyl chloride	ug/L	<1.0	1.0	09/19/08 11:04	
4-Bromofluorobenzene (S)	%	103	64-132	09/19/08 11:04	
Dibromofluoromethane (S)	%	101	68-122	09/19/08 11:04	
Toluene-d8 (S)	%	108	73-127	09/19/08 11:04	

LABORATORY CONTROL SAMPLE & LCSD: 78766 78767

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
1,1,1-Trichloroethane	ug/L	50	50.2	48.6	100	97	75-128	3	20	
1,1-Dichloroethane	ug/L	50	42.6	41.4	85	83	71-130	3	20	
cis-1,2-Dichloroethene	ug/L	50	47.0	46.6	94	93	75-125	1	20	
Methylene Chloride	ug/L	50	42.9	42.1	86	84	75-125	2	20	
Tetrachloroethene	ug/L	50	61.0	57.7	122	115	75-130	6	20	
Toluene	ug/L	50	49.0	49.4	98	99	75-125	.9	20	
trans-1,2-Dichloroethene	ug/L	50	45.9	45.6	92	91	75-125	.6	20	
Trichloroethene	ug/L	50	53.6	53.2	107	106	75-125	.7	20	
Vinyl chloride	ug/L	50	41.9	38.3	84	77	65-130	9	20	
4-Bromofluorobenzene (S)	%				107	103	64-132			
Dibromofluoromethane (S)	%				103	99	68-122			
Toluene-d8 (S)	%				107	110	73-127			

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 78791 78792

Parameter	Units	409137001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,1,1-Trichloroethane	ug/L	<1.0	50	50	49.7	45.9	98	91	70-130	8	30	
1,1-Dichloroethane	ug/L	<1.0	50	50	43.5	38.5	87	77	70-130	12	30	
cis-1,2-Dichloroethene	ug/L	3.0	50	50	48.8	45.2	92	84	70-130	8	30	
Methylene Chloride	ug/L	<1.0	50	50	40.7	39.1	81	78	70-130	4	30	
Tetrachloroethene	ug/L	<1.0	50	50	58.9	53.6	118	107	70-130	9	30	

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QUALITY CONTROL DATA

Project: 2541.27 DANA ROSCOE
Pace Project No.: 409137

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 78791 78792

Parameter	Units	409137001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Toluene	ug/L	<1.0	50	50	47.6	43.6	95	87	70-130	9	30	
trans-1,2-Dichloroethene	ug/L	<1.0	50	50	45.8	40.3	92	81	70-130	13	30	
Trichloroethene	ug/L	35.7	50	50	89.9	86.2	108	101	70-130	4	30	
Vinyl chloride	ug/L	<1.0	50	50	37.5	34.3	75	69	62-138	9	30	
4-Bromofluorobenzene (S)	%						104	106	64-132			
Dibromofluoromethane (S)	%						102	104	68-122			
Toluene-d8 (S)	%						107	107	73-127			

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QUALITY CONTROL DATA

Project: 2541.27 DANA ROSCOE
Pace Project No.: 409137

QC Batch: MSV/2635 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV
Associated Lab Samples: 409137002, 409137003, 409137004, 409137005

METHOD BLANK: 79163 Matrix: Water
Associated Lab Samples: 409137002, 409137003, 409137004, 409137005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	<1.0	1.0	09/23/08 16:28	
1,1-Dichloroethane	ug/L	<1.0	1.0	09/23/08 16:28	
1,4-Dichlorobenzene	ug/L	<1.0	1.0	09/23/08 16:28	
cis-1,2-Dichloroethene	ug/L	<1.0	1.0	09/23/08 16:28	
Dichlorodifluoromethane	ug/L	<1.0	1.0	09/23/08 16:28	
Methylene Chloride	ug/L	<1.0	1.0	09/23/08 16:28	
Tetrachloroethene	ug/L	<1.0	1.0	09/23/08 16:28	
Toluene	ug/L	<1.0	1.0	09/23/08 16:28	
trans-1,2-Dichloroethene	ug/L	<1.0	1.0	09/23/08 16:28	
Trichloroethene	ug/L	<1.0	1.0	09/23/08 16:28	
Vinyl chloride	ug/L	<1.0	1.0	09/23/08 16:28	
4-Bromofluorobenzene (S)	%	98	64-132	09/23/08 16:28	
Dibromofluoromethane (S)	%	108	68-122	09/23/08 16:28	
Toluene-d8 (S)	%	105	73-127	09/23/08 16:28	

LABORATORY CONTROL SAMPLE & LCSD: 79164 79165

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
1,1,1-Trichloroethane	ug/L	50	51.6	51.0	103	102	75-128	1	20	
1,1-Dichloroethane	ug/L	50	55.1	54.2	110	108	71-130	2	20	
cis-1,2-Dichloroethene	ug/L	50	54.1	53.9	108	108	75-125	.5	20	
Methylene Chloride	ug/L	50	53.6	51.9	107	104	75-125	3	20	
Tetrachloroethene	ug/L	50	48.0	46.1	96	92	75-130	4	20	
Toluene	ug/L	50	51.3	51.1	103	102	75-125	.3	20	
trans-1,2-Dichloroethene	ug/L	50	52.6	52.8	105	106	75-125	.5	20	
Trichloroethene	ug/L	50	54.6	52.7	109	105	75-125	4	20	
Vinyl chloride	ug/L	50	56.2	55.7	112	111	65-130	.9	20	
4-Bromofluorobenzene (S)	%				97	97	64-132			
Dibromofluoromethane (S)	%				106	104	68-122			
Toluene-d8 (S)	%				104	105	73-127			

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 79166 79167

Parameter	Units	409137004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,1,1-Trichloroethane	ug/L	1.4	50	50	52.1	51.6	101	100	70-130	.9	30	
1,1-Dichloroethane	ug/L	1.0	50	50	52.8	53.6	104	105	70-130	1	30	
cis-1,2-Dichloroethene	ug/L	27.4	50	50	79.2	78.8	104	103	70-130	.4	30	
Methylene Chloride	ug/L	<1.0	50	50	51.2	50.6	102	101	70-130	1	30	
Tetrachloroethene	ug/L	<1.0	50	50	43.4	44.2	87	88	70-130	2	30	

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QUALITY CONTROL DATA

Project: 2541.27 DANA ROSCOE
Pace Project No.: 409137

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 79166 79167

Parameter	Units	409137004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Toluene	ug/L	<1.0	50	50	50.4	51.0	101	102	70-130	1	30	
trans-1,2-Dichloroethene	ug/L	<1.0	50	50	49.9	49.6	100	99	70-130	.5	30	
Trichloroethene	ug/L	172	50	50	214	223	85	103	70-130	4	30	
Vinyl chloride	ug/L	<1.0	50	50	45.1	45.1	90	90	62-138	.1	30	
4-Bromofluorobenzene (S)	%						97	99	64-132			
Dibromofluoromethane (S)	%						104	104	68-122			
Toluene-d8 (S)	%						105	105	73-127			

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QUALIFIERS

Project: 2541.27 DANA ROSCOE
Pace Project No.: 409137

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

Pace Analytical is NELAP accredited. Contact your Pace PM for the current list of accredited analytes.

LABORATORIES

PASI-G Pace Analytical Services - Green Bay

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 2541.27 DANA ROSCOE
Pace Project No.: 409137

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
409137001	**MW-101**	EPA 8260	MSV/2628		
409137002	**MW-102**	EPA 8260	MSV/2635		
409137003	**MW-103**	EPA 8260	MSV/2635		
409137004	**MW-104**	EPA 8260	MSV/2635		
409137005	**TRIP BLANK**	EPA 8260	MSV/2635		

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Sample Condition Upon Receipt

Pace Analytical

Client Name: RMT INC Project # 4109137

Courier: ☑ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☐ Pace Other _____

Tracking #: _____

Optional: Proj. Due Date: Proj. Name:

Custody Seal on Cooler/Box Present: ☑ yes ☐ no Seals intact: ☑ yes ☐ no

Packing Material: ☐ Bubble Wrap ☑ Bubble Bags ☐ None ☐ Other _____

Thermometer Used JB Type of Ice: Wet Blue None ☐ Samples on ice, cooling process has begun

Cooler Temperature 2.0 Biological Tissue is Frozen: Yes No

Date and Initials of person examining contents: 9/18 KC

Temp should be above freezing to 6°C

		Comments:
Chain of Custody Present:	☑Yes ☐No ☐N/A	1.
Chain of Custody Filled Out:	☑Yes ☐No ☐N/A	2.
Chain of Custody Relinquished:	☑Yes ☐No ☐N/A	3.
Sampler Name & Signature on COC:	☑Yes ☐No ☐N/A	4.
Samples Arrived within Hold Time:	☑Yes ☐No ☐N/A	5.
Short Hold Time Analysis (<72hr):	☐Yes ☑No ☐N/A	6.
Rush Turn Around Time Requested:	☑Yes ☐No ☐N/A	7. RUSH
Sufficient Volume:	☑Yes ☐No ☐N/A	8.
Correct Containers Used:	☑Yes ☐No ☐N/A	9.
-Pace Containers Used:	☑Yes ☐No ☐N/A	
Containers Intact:	☑Yes ☐No ☐N/A	10.
Filtered volume received for Dissolved tests	☐Yes ☐No ☑N/A	11.
Sample Labels match COC:	☑Yes ☐No ☐N/A	12.
-Includes date/time/ID/Analysis Matrix: W		
All containers needing preservation have been checked.	☐Yes ☐No ☑N/A	13.
All containers needing preservation are found to be in compliance with EPA recommendation.	☐Yes ☐No ☑N/A	
exceptions: VOA, coliform, TOC, O&G, WI-DRO (water)	☐Yes ☐No	Initial when completed / Lot # of added preservative
Samples checked for dechlorination:	☐Yes ☐No ☑N/A	14.
Headspace in VOA Vials (>6mm):	☐Yes ☑No ☐N/A	15.
Trip Blank Present:	☑Yes ☐No ☐N/A	16. added to c.o.c. by lab 9/18 KC
Trip Blank Custody Seals Present	☑Yes ☐No ☐N/A	
Pace Trip Blank Lot # (if purchased): _____		

Client Notification/ Resolution: Field Data Required? Y / N

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: DAA **Date:** 9/18/08

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e out of hold, incorrect preservative, out of temp, incorrect containers)

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UPPER MIDWEST REGION
MN: 612-607-1700 WI: 920-469-2436

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CHAIN OF CUSTODY

*Preservation Codes
A=None B=HCL C=H2SO4 D=HNO3 E=DI Water F=Methanol G=NaOH
H=Sodium Bisulfate Solution I=Sodium Thiosulfate J=Other

(Please Print Clearly)	
Company Name:	RMT INC
Branch/Location:	MADISON
Project Contact:	J. BUSS
Phone:	608-831-4444
Project Number:	2541.27
Project Name:	DANA ROSCOE
Project State:	IL
Sampled By (Print):	T. O'Connell
Sampled By (Sign):	Ted Mell
PO #:	Regulatory Program:

Quote #:	
Mail To Contact:	J. BUSS
Mail To Company:	RMT INC
Mail To Address:	744 Heartland Dr. Madison WI 53717
Invoice To Contact:	J. BUSS
Invoice To Company:	RMT INC
Invoice To Address:	SAME
Invoice To Phone:	608. 831. 4444

Data Package Options (billable)
- ☐ EPA Level III
- ☐ EPA Level IV

MS/MSD
- ☐ On your sample (billable)
- ☐ NOT needed on your sample

Matrix Codes
A = Air, B = Biota, C = Charcoal, O = Oil, S = Soil, SI = Sludge, W = Water, DW = Drinking Water, GW = Ground Water, SW = Surface Water, WW = Waste Water, WP = Wipe

PACE LAB #	CLIENT FIELD ID	COLLECTION DATE	COLLECTION TIME	MATRIX	Analyses Requested: FILTERED? (YES/NO) Y/N	PRESERVATION (CODE)* Pick Letter								CLIENT COMMENTS	LAB COMMENTS (Lab Use Only)	Profile #
					N	B										
						VOC										
001	MW-101	9/16/08	9:40	GW										RUSH TURN	3-40mL	
002	MW-102	↓	11:06	↓											↓	
003	MW-103		13:04													
004	MW-104		13:45											EXTRA FOR MS/MSD	5-40mL	
005	TRIP - added by lab 9/18 KL														2-40mL	

Rush Turnaround Time Requested - Prelims
(Rush TAT subject to approval/surcharge)
Date Needed:

Transmit Prelim Rush Results by (complete what you want):
Email #1: ted.oconnell@rmtinc.com
Email #2:
Telephone:
Fax:

Samples on HOLD are subject to special pricing and release of liability

Relinquished By:	Date/Time:	Received By:	Date/Time:
Ted Mell	9/16/08 15:45	RMT COOLER	9/16/08 15:45
		Dunham	
Dunham	9/18/08 928	[illegible]	9/18/08 928

PACE Project No. 409137
Receipt Temp = 2.0 °C
Sample Receipt pH OK / Adjusted
Cooler Custody Seal Present / Not Present
Intact / Not Intact

Version 6.0 06/14/06

0019a(27Jun2006)

ORIGINAL

Pace Analytical Services, Inc.
1241 Bellevue Street
Green Bay, WI 54302
(920)469-2436

October 06, 2008

JIM BUSS
RMT MADISON
744 HEARTLAND TRAIL
Madison, WI 537171934

RE: Project: DANA ROSCOE 2541.27
Pace Project No.: 409599

Dear JIM BUSS:
Enclosed are the analytical results for sample(s) received by the laboratory on September 30, 2008. The results relate only to the samples included in this report. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Tod Noltemeyer

Tod Noltemeyer

tod.noltemeyer@pacelabs.com
Project Manager

Enclosures

REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: DANA ROSCOE 2541.27
Pace Project No.: 409599

Green Bay Certification IDs

Louisiana Certification #: 04168
Kentucky Certification #: 82
Wisconsin DATCP Certification #: 105-444
Wisconsin Certification #: 405132750
South Carolina Certification #: 83006001
Minnesota Certification #: 055-999-334
North Carolina Certification #: 503
North Dakota Certification #: R-150
New York Certification #: 11888
Illinois Certification #: 200050
Florida (NELAP) Certification #: E87948

Green Bay Volatiles Certification IDs

Louisiana Certification #: 04169
Kentucky Certification #: 83
Wisconsin DATCP Certification #: 105-444
Wisconsin Certification #: 405132750
South Carolina Certification #: 83006001
Minnesota Certification #: 055-999-334
North Carolina Certification #: 503
North Dakota Certification #: R-200
New York Certification #: 11887
Illinois Certification #: 200051
Florida (NELAP) Certification #: E87951

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SAMPLE SUMMARY

Project: DANA ROSCOE 2541.27
Pace Project No.: 409599

Lab ID	Sample ID	Matrix	Date Collected	Date Received
409599001	**MW-104B**	Water	09/26/08 11:55	09/30/08 08:30
409599002	**MW-104A**	Water	09/26/08 12:40	09/30/08 08:30
409599003	**MW-103**	Water	09/26/08 13:20	09/30/08 08:30
409599004	**MW-102B**	Water	09/26/08 14:40	09/30/08 08:30
409599005	**MW-102A**	Water	09/26/08 14:00	09/30/08 08:30

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SAMPLE ANALYTE COUNT

Project: DANA ROSCOE 2541.27
Pace Project No.: 409599

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
409599001	**MW-104B**	EPA 8260	SMT	14	PASI-G
409599002	**MW-104A**	EPA 8260	SMT	14	PASI-G
409599003	**MW-103**	EPA 8260	SMT	14	PASI-G
409599004	**MW-102B**	EPA 8260	SMT	14	PASI-G
409599005	**MW-102A**	EPA 8260	SMT	14	PASI-G

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PROJECT NARRATIVE

Project: DANA ROSCOE 2541.27
Pace Project No.: 409599

Method: **EPA 8260**
Description: 8260 MSV
Client: RMT MADISON
Date: October 06, 2008

General Information:
5 samples were analyzed for EPA 8260. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Internal Standards:
All internal standards were within QC limits with any exceptions noted below.

Surrogates:
All surrogates were within QC limits with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.

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nelac

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: DANA ROSCOE 2541.27
Pace Project No.: 409599

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
409599001	**MW-104B**	EPA 8260	MSV/2731		
409599002	**MW-104A**	EPA 8260	MSV/2731		
409599003	**MW-103**	EPA 8260	MSV/2731		
409599004	**MW-102B**	EPA 8260	MSV/2731		
409599005	**MW-102A**	EPA 8260	MSV/2731		

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ANALYTICAL RESULTS

Project: DANA ROSCOE 2541.27
Pace Project No.: 409599

Sample: MW-104B **Lab ID: 409599001** Collected: 09/26/08 11:55 Received: 09/30/08 08:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
1,1,1-Trichloroethane	**<5.0**	ug/L	5.0	4.5	5		10/02/08 00:54	71-55-6	
1,1-Dichloroethane	**<5.0**	ug/L	5.0	3.8	5		10/02/08 00:54	75-34-3	
1,4-Dichlorobenzene	**<5.0**	ug/L	5.0	4.8	5		10/02/08 00:54	106-46-7	
Dichlorodifluoromethane	**<5.0**	ug/L	5.0	5.0	5		10/02/08 00:54	75-71-8	
Methylene Chloride	**<5.0**	ug/L	5.0	2.2	5		10/02/08 00:54	75-09-2	
Tetrachloroethene	**<5.0**	ug/L	5.0	2.2	5		10/02/08 00:54	127-18-4	
Toluene	**<5.0**	ug/L	5.0	3.4	5		10/02/08 00:54	108-88-3	
Trichloroethene	**256**	ug/L	5.0	2.4	5		10/02/08 00:54	79-01-6	
Vinyl chloride	**<5.0**	ug/L	5.0	0.90	5		10/02/08 00:54	75-01-4	
cis-1,2-Dichloroethene	**41.2**	ug/L	5.0	4.2	5		10/02/08 00:54	156-59-2	
trans-1,2-Dichloroethene	**<5.0**	ug/L	5.0	4.4	5		10/02/08 00:54	156-60-5	
4-Bromofluorobenzene (S)	104	%	64-132		5		10/02/08 00:54	460-00-4	
Dibromofluoromethane (S)	111	%	68-122		5		10/02/08 00:54	1868-53-7	
Toluene-d8 (S)	108	%	73-127		5		10/02/08 00:54	2037-26-5	

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ANALYTICAL RESULTS

Project: DANA ROSCOE 2541.27
Pace Project No.: 409599

Sample: MW-104A **Lab ID: 409599002** Collected: 09/26/08 12:40 Received: 09/30/08 08:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
1,1,1-Trichloroethane	**<5.0**	ug/L	5.0	4.5	5		10/02/08 01:17	71-55-6	
1,1-Dichloroethane	**<5.0**	ug/L	5.0	3.8	5		10/02/08 01:17	75-34-3	
1,4-Dichlorobenzene	**<5.0**	ug/L	5.0	4.8	5		10/02/08 01:17	106-46-7	
Dichlorodifluoromethane	**<5.0**	ug/L	5.0	5.0	5		10/02/08 01:17	75-71-8	
Methylene Chloride	**<5.0**	ug/L	5.0	2.2	5		10/02/08 01:17	75-09-2	
Tetrachloroethene	**<5.0**	ug/L	5.0	2.2	5		10/02/08 01:17	127-18-4	
Toluene	**<5.0**	ug/L	5.0	3.4	5		10/02/08 01:17	108-88-3	
Trichloroethene	**356**	ug/L	5.0	2.4	5		10/02/08 01:17	79-01-6	
Vinyl chloride	**<5.0**	ug/L	5.0	0.90	5		10/02/08 01:17	75-01-4	
cis-1,2-Dichloroethene	**59.3**	ug/L	5.0	4.2	5		10/02/08 01:17	156-59-2	
trans-1,2-Dichloroethene	**<5.0**	ug/L	5.0	4.4	5		10/02/08 01:17	156-60-5	
4-Bromofluorobenzene (S)	104	%	64-132		5		10/02/08 01:17	460-00-4	
Dibromofluoromethane (S)	109	%	68-122		5		10/02/08 01:17	1868-53-7	
Toluene-d8 (S)	106	%	73-127		5		10/02/08 01:17	2037-26-5	

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ANALYTICAL RESULTS

Project: DANA ROSCOE 2541.27
Pace Project No.: 409599

Sample: MW-103 **Lab ID: 409599003** Collected: 09/26/08 13:20 Received: 09/30/08 08:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
1,1,1-Trichloroethane	**<5.0**	ug/L	5.0	4.5	5		10/02/08 01:39	71-55-6	
1,1-Dichloroethane	**<5.0**	ug/L	5.0	3.8	5		10/02/08 01:39	75-34-3	
1,4-Dichlorobenzene	**<5.0**	ug/L	5.0	4.8	5		10/02/08 01:39	106-46-7	
Dichlorodifluoromethane	**<5.0**	ug/L	5.0	5.0	5		10/02/08 01:39	75-71-8	
Methylene Chloride	**<5.0**	ug/L	5.0	2.2	5		10/02/08 01:39	75-09-2	
Tetrachloroethene	**<5.0**	ug/L	5.0	2.2	5		10/02/08 01:39	127-18-4	
Toluene	**<5.0**	ug/L	5.0	3.4	5		10/02/08 01:39	108-88-3	
Trichloroethene	**230**	ug/L	5.0	2.4	5		10/02/08 01:39	79-01-6	
Vinyl chloride	**<5.0**	ug/L	5.0	0.90	5		10/02/08 01:39	75-01-4	
cis-1,2-Dichloroethene	**39.9**	ug/L	5.0	4.2	5		10/02/08 01:39	156-59-2	
trans-1,2-Dichloroethene	**<5.0**	ug/L	5.0	4.4	5		10/02/08 01:39	156-60-5	
4-Bromofluorobenzene (S)	106	%	64-132		5		10/02/08 01:39	460-00-4	
Dibromofluoromethane (S)	111	%	68-122		5		10/02/08 01:39	1868-53-7	
Toluene-d8 (S)	110	%	73-127		5		10/02/08 01:39	2037-26-5	

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ANALYTICAL RESULTS

Project: DANA ROSCOE 2541.27
Pace Project No.: 409599

Sample: MW-102B **Lab ID: 409599004** Collected: 09/26/08 14:40 Received: 09/30/08 08:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
1,1,1-Trichloroethane	**2.6**	ug/L	1.0	0.90	1		10/02/08 00:09	71-55-6	
1,1-Dichloroethane	**1.2**	ug/L	1.0	0.75	1		10/02/08 00:09	75-34-3	
1,4-Dichlorobenzene	**<1.0**	ug/L	1.0	0.95	1		10/02/08 00:09	106-46-7	
Dichlorodifluoromethane	**<1.0**	ug/L	1.0	0.99	1		10/02/08 00:09	75-71-8	
Methylene Chloride	**<1.0**	ug/L	1.0	0.43	1		10/02/08 00:09	75-09-2	
Tetrachloroethene	**<1.0**	ug/L	1.0	0.45	1		10/02/08 00:09	127-18-4	
Toluene	**<1.0**	ug/L	1.0	0.67	1		10/02/08 00:09	108-88-3	
Trichloroethene	**128**	ug/L	1.0	0.48	1		10/02/08 00:09	79-01-6	
Vinyl chloride	**<1.0**	ug/L	1.0	0.18	1		10/02/08 00:09	75-01-4	
cis-1,2-Dichloroethene	**21.8**	ug/L	1.0	0.83	1		10/02/08 00:09	156-59-2	
trans-1,2-Dichloroethene	**<1.0**	ug/L	1.0	0.89	1		10/02/08 00:09	156-60-5	
4-Bromofluorobenzene (S)	102	%	64-132		1		10/02/08 00:09	460-00-4	
Dibromofluoromethane (S)	108	%	68-122		1		10/02/08 00:09	1868-53-7	
Toluene-d8 (S)	107	%	73-127		1		10/02/08 00:09	2037-26-5	

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ANALYTICAL RESULTS

Project: DANA ROSCOE 2541.27
Pace Project No.: 409599

Sample: MW-102A **Lab ID: 409599005** Collected: 09/26/08 14:00 Received: 09/30/08 08:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
1,1,1-Trichloroethane	**2.3**	ug/L	1.0	0.90	1		10/02/08 00:31	71-55-6	
1,1-Dichloroethane	**1.0**	ug/L	1.0	0.75	1		10/02/08 00:31	75-34-3	
1,4-Dichlorobenzene	**<1.0**	ug/L	1.0	0.95	1		10/02/08 00:31	106-46-7	
Dichlorodifluoromethane	**<1.0**	ug/L	1.0	0.99	1		10/02/08 00:31	75-71-8	
Methylene Chloride	**<1.0**	ug/L	1.0	0.43	1		10/02/08 00:31	75-09-2	
Tetrachloroethene	**<1.0**	ug/L	1.0	0.45	1		10/02/08 00:31	127-18-4	
Toluene	**<1.0**	ug/L	1.0	0.67	1		10/02/08 00:31	108-88-3	
Trichloroethene	**106**	ug/L	1.0	0.48	1		10/02/08 00:31	79-01-6	
Vinyl chloride	**<1.0**	ug/L	1.0	0.18	1		10/02/08 00:31	75-01-4	
cis-1,2-Dichloroethene	**17.1**	ug/L	1.0	0.83	1		10/02/08 00:31	156-59-2	
trans-1,2-Dichloroethene	**<1.0**	ug/L	1.0	0.89	1		10/02/08 00:31	156-60-5	
4-Bromofluorobenzene (S)	102	%	64-132		1		10/02/08 00:31	460-00-4	
Dibromofluoromethane (S)	108	%	68-122		1		10/02/08 00:31	1868-53-7	
Toluene-d8 (S)	108	%	73-127		1		10/02/08 00:31	2037-26-5	

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QUALITY CONTROL DATA

Project: DANA ROSCOE 2541.27
Pace Project No.: 409599

QC Batch: MSV/2731 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV
Associated Lab Samples: 409599001, 409599002, 409599003, 409599004, 409599005

METHOD BLANK: 83073 Matrix: Water
Associated Lab Samples: 409599001, 409599002, 409599003, 409599004, 409599005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	<1.0	1.0	10/01/08 16:56	
1,1-Dichloroethane	ug/L	<1.0	1.0	10/01/08 16:56	
1,4-Dichlorobenzene	ug/L	<1.0	1.0	10/01/08 16:56	
cis-1,2-Dichloroethene	ug/L	<1.0	1.0	10/01/08 16:56	
Dichlorodifluoromethane	ug/L	<1.0	1.0	10/01/08 16:56	
Methylene Chloride	ug/L	<1.0	1.0	10/01/08 16:56	
Tetrachloroethene	ug/L	<1.0	1.0	10/01/08 16:56	
Toluene	ug/L	<1.0	1.0	10/01/08 16:56	
trans-1,2-Dichloroethene	ug/L	<1.0	1.0	10/01/08 16:56	
Trichloroethene	ug/L	<1.0	1.0	10/01/08 16:56	
Vinyl chloride	ug/L	<1.0	1.0	10/01/08 16:56	
4-Bromofluorobenzene (S)	%	104	64-132	10/01/08 16:56	
Dibromofluoromethane (S)	%	110	68-122	10/01/08 16:56	
Toluene-d8 (S)	%	107	73-127	10/01/08 16:56	

LABORATORY CONTROL SAMPLE & LCSD: 83074 83075

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
1,1,1-Trichloroethane	ug/L	50	53.2	56.0	106	112	75-128	5	20	
1,1-Dichloroethane	ug/L	50	53.4	54.4	107	109	71-130	2	20	
cis-1,2-Dichloroethene	ug/L	50	48.1	51.0	96	102	75-125	6	20	
Methylene Chloride	ug/L	50	50.4	50.5	101	101	75-125	.3	20	
Tetrachloroethene	ug/L	50	47.6	49.7	95	99	75-130	4	20	
Toluene	ug/L	50	48.8	50.1	98	100	75-125	3	20	
trans-1,2-Dichloroethene	ug/L	50	47.3	51.4	95	103	75-125	8	20	
Trichloroethene	ug/L	50	52.1	53.3	104	107	75-125	2	20	
Vinyl chloride	ug/L	50	49.9	51.4	100	103	65-130	3	20	
4-Bromofluorobenzene (S)	%				106	106	64-132			
Dibromofluoromethane (S)	%				107	111	68-122			
Toluene-d8 (S)	%				110	109	73-127			

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QUALIFIERS

Project: DANA ROSCOE 2541.27
Pace Project No.: 409599

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

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LABORATORIES

PASI-G Pace Analytical Services - Green Bay

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Sample Condition Upon Receipt

Pace Analytical

Client Name: RMT Project # 409599

Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☐ Client ☑ Commercial (WACTO) ☐ Pace Other _____

Tracking #: _____

Optional
Proj. Due Date:
Proj. Name:

Custody Seal on Cooler/Box Present: ☑ yes ☐ no Seals intact: ☑ yes ☐ no

Packing Material: ☐ Bubble Wrap ☑ Bubble Bags ☐ None ☐ Other _____

Thermometer Used JB **Type of Ice:** Wet Blue None ☐ Samples on ice, cooling process has begun

Cooler Temperature 2.0c **Biological Tissue is Frozen:** Yes No

Date and Initials of person examining contents: 9/30 RL

Temp should be above freezing to 6°C

		Comments:
Chain of Custody Present:	☑Yes ☐No ☐N/A	1.
Chain of Custody Filled Out:	☑Yes ☐No ☐N/A	2.
Chain of Custody Relinquished:	☑Yes ☐No ☐N/A	3.
Sampler Name & Signature on COC:	☑Yes ☐No ☐N/A	4.
Samples Arrived within Hold Time:	☑Yes ☐No ☐N/A	5.
Short Hold Time Analysis (<72hr):	☐Yes ☑No ☐N/A	6.
Rush Turn Around Time Requested:	☐Yes ☑No ☐N/A	7.
Sufficient Volume:	☑Yes ☐No ☐N/A	8.
Correct Containers Used:	☑Yes ☐No ☐N/A	9.
-Pace Containers Used:	☑Yes ☐No ☐N/A	
Containers Intact:	☑Yes ☐No ☐N/A	10.
Filtered volume received for Dissolved tests	☐Yes ☐No ☑N/A	11.
Sample Labels match COC:	☑Yes ☐No ☐N/A	12. * SEE COMMENTS
-Includes date/time/ID/Analysis Matrix: W		
All containers needing preservation have been checked.	☐Yes ☐No ☑N/A	13.
All containers needing preservation are found to be in compliance with EPA recommendation.	☐Yes ☐No ☑N/A	
exceptions: VOA, coliform, TOC, O&G, WI-DRO (water)	☐Yes ☐No	Initial when completed / Lot # of added preservative
Samples checked for dechlorination:	☐Yes ☐No ☑N/A	14.
Headspace in VOA Vials (>6mm):	☐Yes ☑No ☐N/A	15.
Trip Blank Present:	☐Yes ☑No ☐N/A	16.
Trip Blank Custody Seals Present	☐Yes ☐No ☑N/A	
Pace Trip Blank Lot # (if purchased): _____		

Client Notification/ Resolution: Field Data Required? Y / N

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: * MW-101 LISTED ON C.O.C. - NO VOLUME RECD 9/30 RL

Project Manager Review: NAH **Date:** 9/30/08

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e out of hold, incorrect preservative, out of temp, incorrect containers)

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UPPER MIDWEST REGION
MN: 612-607-1700 WI: 920-469-2436

CHAIN OF CUSTODY

(Please Print Clearly)	
Company Name:	RMT
Branch/Location:	Madison
Project Contact:	Ted O'Connell
Phone:	608-831-4444
Project Number:	2541.27
Project Name:	Dana Roscoe
Project State:	IL
Sampled By (Print):	Lance Bakken
Sampled By (Sign):	
PO #:	Regulatory Program:

*Preservation Codes
A=None B=HCL C=H2SO4 D=HNO3 E=DI Water F=Methanol G=NaOH
H=Sodium Bisulfate Solution I=Sodium Thiosulfate J=Other

Quote #:	
Mail To Contact:	Jim Buss
Mail To Company:	RMT
Mail To Address:	Madison
Invoice To Contact:	Same
Invoice To Company:	
Invoice To Address:	
Invoice To Phone:	

Data Package Options (billable)
- ☐ EPA Level III
- ☐ EPA Level IV

MS/MSD
- ☐ On your sample (billable)
- ☐ NOT needed on your sample

Matrix Codes
A = Air, B = Biota, C = Charcoal, O = Oil, S = Soil, SI = Sludge, W = Water, DW = Drinking Water, GW = Ground Water, SW = Surface Water, WW = Waste Water, WP = Wipe

PACE LAB #	CLIENT FIELD ID	COLLECTION DATE	COLLECTION TIME	MATRIX	Analyses Requested (FILTERED? (YES/NO) Y/N; PRESERVATION (CODE)* Pick Letter)	CLIENT COMMENTS	LAB COMMENTS (Lab Use Only)	Profile #
01	MW-104B	9/26/08	1155	GW	X		3-40mL	
02	MW-104A		1240		X			
03	MW-103		1320		X			
04	MW-102B		1440		X			
05	MW-102A		1400		X			
	MW-101				X			

Analyses Requested: VOC

Rush Turnaround Time Requested - Prelims
(Rush TAT subject to approval/surcharge)
Date Needed:

Transmit Prelim Rush Results by (complete what you want):
Email #1:
Email #2:
Telephone:
Fax:

Samples on HOLD are subject to special pricing and release of liability

Relinquished By:	Date/Time:	Received By:	Date/Time:
[signature]	9/29/08 900	[signature]	9/29/08 1115
[signature]	9/29/08 1200	WATTO	
WATTO	9/30 830	[signature]	9/30 830

PACE Project No. 409599
Receipt Temp = 2.0 °C
Sample Receipt pH OK / Adjusted
Cooler Custody Seal Present / Not Present
Intact / Not Intact

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November 03, 2008

JIM BUSS
RMT MADISON
744 HEARTLAND TRAIL
Madison, WI 537171934

RE: Project: 2541.29 DANA ROSCOE
Pace Project No.: 4010052

Dear JIM BUSS:
Enclosed are the analytical results for sample(s) received by the laboratory on October 09, 2008. The results relate only to the samples included in this report. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Tod Noltemeyer

Tod Noltemeyer

tod.noltemeyer@pacelabs.com
Project Manager

Enclosures

REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: 2541.29 DANA ROSCOE
Pace Project No.: 4010052

Green Bay Certification IDs

Louisiana Certification #: 04169
Louisiana Certification #: 04168
Kentucky Certification #: 83
Kentucky Certification #: 82
Wisconsin DATCP Certification #: 105-444
Wisconsin DATCP Certification #: 105-444
Wisconsin Certification #: 405132750
Wisconsin Certification #: 405132750
South Carolina Certification #: 83006001
South Carolina Certification #: 83006001
Minnesota Certification #: 055-999-334
Minnesota Certification #: 055-999-334
North Carolina Certification #: 503
North Carolina Certification #: 503
North Dakota Certification #: R-200
North Dakota Certification #: R-150
New York Certification #: 11888
New York Certification #: 11887
Illinois Certification #: 200051
Illinois Certification #: 200050
Florida (NELAP) Certification #: E87951
Florida (NELAP) Certification #: E87948

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SAMPLE SUMMARY

Project: 2541.29 DANA ROSCOE
Pace Project No.: 4010052

Lab ID	Sample ID	Matrix	Date Collected	Date Received
4010052001	HEMW-1	Water	10/08/08 13:50	10/09/08 10:15
4010052002	HEMW-2	Water	10/08/08 12:50	10/09/08 10:15
4010052003	HEMW-3	Water	10/08/08 11:40	10/09/08 10:15
4010052004	HEMW-4	Water	10/08/08 10:40	10/09/08 10:15
4010052005	RB-01	Water	10/08/08 11:55	10/09/08 10:15
4010052006	DUP-01	Water	10/08/08 00:00	10/09/08 10:15
4010052007	MW-101	Water	10/08/08 17:00	10/09/08 10:15
4010052008	MW-102	Water	10/08/08 16:15	10/09/08 10:15
4010052009	MW-103	Water	10/08/08 15:30	10/09/08 10:15
4010052010	MW-104	Water	10/08/08 14:45	10/09/08 10:15
4010052011	TRIP BLANK	Water	10/08/08 00:00	10/09/08 10:15

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SAMPLE ANALYTE COUNT

Project: 2541.29 DANA ROSCOE
Pace Project No.: 4010052

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
4010052001	HEMW-1	EPA 8260	SMT	14	PASI-G
4010052002	HEMW-2	EPA 8260	SMT	14	PASI-G
4010052003	HEMW-3	EPA 8260	SMT	14	PASI-G
4010052004	HEMW-4	EPA 8260	SMT	14	PASI-G
4010052005	RB-01	EPA 8260	SMT	14	PASI-G
4010052006	DUP-01	EPA 8260	SMT	14	PASI-G
4010052007	MW-101	EPA 300.0	DDY	2	PASI-G
		EPA 6010	DLB	2	PASI-G
		EPA 8260	SMT	14	PASI-G
4010052008	MW-102	EPA 300.0	DDY	2	PASI-G
		EPA 6010	DLB	2	PASI-G
		EPA 8260	SMT	14	PASI-G
4010052009	MW-103	EPA 300.0	DDY	2	PASI-G
		EPA 6010	DLB	2	PASI-G
		EPA 8260	SMT	14	PASI-G
4010052010	MW-104	EPA 300.0	DDY	2	PASI-G
		EPA 6010	DLB	2	PASI-G
		EPA 8260	SMT	14	PASI-G
4010052011	TRIP BLANK	EPA 8260	SMT	14	PASI-G

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PROJECT NARRATIVE

Project: 2541.29 DANA ROSCOE
Pace Project No.: 4010052

Method: **EPA 6010**
Description: 6010 MET ICP
Client: RMT MADISON
Date: November 03, 2008

General Information:
4 samples were analyzed for EPA 6010. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:
The samples were prepared in accordance with EPA 3010 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: 2541.29 DANA ROSCOE
Pace Project No.: 4010052

Method: **EPA 8260**
Description: 8260 MSV
Client: RMT MADISON
Date: November 03, 2008

General Information:
11 samples were analyzed for EPA 8260. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Internal Standards:
All internal standards were within QC limits with any exceptions noted below.

Surrogates:
All surrogates were within QC limits with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: 2541.29 DANA ROSCOE
Pace Project No.: 4010052

Method: EPA 300.0
Description: 300.0 IC Anions
Client: RMT MADISON
Date: November 03, 2008

General Information:
4 samples were analyzed for EPA 300.0. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: WETA/2520

A matrix spike and matrix spike duplicate (MS/MSD) were performed on the following sample(s): 4010050005,4010052008

M0: Matrix spike recovery was outside laboratory control limits.

- MS (Lab ID: 88389)
  - Nitrate as N
- MSD (Lab ID: 88390)
  - Nitrate as N

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: 2541.29 DANA ROSCOE
Pace Project No.: 4010052

Method: **EPA 300.0**
Description: 300.0 IC Anions 28 Days
Client: RMT MADISON
Date: November 03, 2008

General Information:
4 samples were analyzed for EPA 300.0. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.

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ANALYTICAL RESULTS

Project: 2541.29 DANA ROSCOE
Pace Project No.: 4010052

Sample: HEMW-1 **Lab ID: 4010052001** Collected: 10/08/08 13:50 Received: 10/09/08 10:15 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
1,1,1-Trichloroethane	**<1.0**	ug/L	1.0	0.90	1		10/13/08 14:27	71-55-6	
1,1-Dichloroethane	**<1.0**	ug/L	1.0	0.75	1		10/13/08 14:27	75-34-3	
1,4-Dichlorobenzene	**<1.0**	ug/L	1.0	0.95	1		10/13/08 14:27	106-46-7	
Dichlorodifluoromethane	**<1.0**	ug/L	1.0	0.99	1		10/13/08 14:27	75-71-8	
Methylene Chloride	**<1.0**	ug/L	1.0	0.43	1		10/13/08 14:27	75-09-2	
Tetrachloroethene	**<1.0**	ug/L	1.0	0.45	1		10/13/08 14:27	127-18-4	
Toluene	**<1.0**	ug/L	1.0	0.67	1		10/13/08 14:27	108-88-3	
Trichloroethene	**<1.0**	ug/L	1.0	0.48	1		10/13/08 14:27	79-01-6	
Vinyl chloride	**<1.0**	ug/L	1.0	0.18	1		10/13/08 14:27	75-01-4	
cis-1,2-Dichloroethene	**<1.0**	ug/L	1.0	0.83	1		10/13/08 14:27	156-59-2	
trans-1,2-Dichloroethene	**<1.0**	ug/L	1.0	0.89	1		10/13/08 14:27	156-60-5	
4-Bromofluorobenzene (S)	99	%	64-132		1		10/13/08 14:27	460-00-4	
Dibromofluoromethane (S)	110	%	68-122		1		10/13/08 14:27	1868-53-7	
Toluene-d8 (S)	105	%	73-127		1		10/13/08 14:27	2037-26-5	

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ANALYTICAL RESULTS

Project: 2541.29 DANA ROSCOE
Pace Project No.: 4010052

Sample: HEMW-2 **Lab ID: 4010052002** Collected: 10/08/08 12:50 Received: 10/09/08 10:15 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
1,1,1-Trichloroethane	**<1.0**	ug/L	1.0	0.90	1		10/13/08 14:51	71-55-6	
1,1-Dichloroethane	**<1.0**	ug/L	1.0	0.75	1		10/13/08 14:51	75-34-3	
1,4-Dichlorobenzene	**<1.0**	ug/L	1.0	0.95	1		10/13/08 14:51	106-46-7	
Dichlorodifluoromethane	**<1.0**	ug/L	1.0	0.99	1		10/13/08 14:51	75-71-8	
Methylene Chloride	**<1.0**	ug/L	1.0	0.43	1		10/13/08 14:51	75-09-2	
Tetrachloroethene	**<1.0**	ug/L	1.0	0.45	1		10/13/08 14:51	127-18-4	
Toluene	**<1.0**	ug/L	1.0	0.67	1		10/13/08 14:51	108-88-3	
Trichloroethene	**<1.0**	ug/L	1.0	0.48	1		10/13/08 14:51	79-01-6	
Vinyl chloride	**<1.0**	ug/L	1.0	0.18	1		10/13/08 14:51	75-01-4	
cis-1,2-Dichloroethene	**<1.0**	ug/L	1.0	0.83	1		10/13/08 14:51	156-59-2	
trans-1,2-Dichloroethene	**<1.0**	ug/L	1.0	0.89	1		10/13/08 14:51	156-60-5	
4-Bromofluorobenzene (S)	100	%	64-132		1		10/13/08 14:51	460-00-4	
Dibromofluoromethane (S)	113	%	68-122		1		10/13/08 14:51	1868-53-7	
Toluene-d8 (S)	106	%	73-127		1		10/13/08 14:51	2037-26-5	

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ANALYTICAL RESULTS

Project: 2541.29 DANA ROSCOE
Pace Project No.: 4010052

Sample: HEMW-3 **Lab ID: 4010052003** Collected: 10/08/08 11:40 Received: 10/09/08 10:15 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
1,1,1-Trichloroethane	**<1.0**	ug/L	1.0	0.90	1		10/10/08 16:44	71-55-6	
1,1-Dichloroethane	**<1.0**	ug/L	1.0	0.75	1		10/10/08 16:44	75-34-3	
1,4-Dichlorobenzene	**<1.0**	ug/L	1.0	0.95	1		10/10/08 16:44	106-46-7	
Dichlorodifluoromethane	**<1.0**	ug/L	1.0	0.99	1		10/10/08 16:44	75-71-8	
Methylene Chloride	**<1.0**	ug/L	1.0	0.43	1		10/10/08 16:44	75-09-2	
Tetrachloroethene	**<1.0**	ug/L	1.0	0.45	1		10/10/08 16:44	127-18-4	
Toluene	**<1.0**	ug/L	1.0	0.67	1		10/10/08 16:44	108-88-3	
Trichloroethene	**<1.0**	ug/L	1.0	0.48	1		10/10/08 16:44	79-01-6	
Vinyl chloride	**<1.0**	ug/L	1.0	0.18	1		10/10/08 16:44	75-01-4	
cis-1,2-Dichloroethene	**<1.0**	ug/L	1.0	0.83	1		10/10/08 16:44	156-59-2	
trans-1,2-Dichloroethene	**<1.0**	ug/L	1.0	0.89	1		10/10/08 16:44	156-60-5	
4-Bromofluorobenzene (S)	101	%	64-132		1		10/10/08 16:44	460-00-4	
Dibromofluoromethane (S)	103	%	68-122		1		10/10/08 16:44	1868-53-7	
Toluene-d8 (S)	104	%	73-127		1		10/10/08 16:44	2037-26-5	

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ANALYTICAL RESULTS

Project: 2541.29 DANA ROSCOE
Pace Project No.: 4010052

Sample: HEMW-4 **Lab ID: 4010052004** Collected: 10/08/08 10:40 Received: 10/09/08 10:15 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
1,1,1-Trichloroethane	**<1.0**	ug/L	1.0	0.90	1		10/10/08 17:08	71-55-6	
1,1-Dichloroethane	**<1.0**	ug/L	1.0	0.75	1		10/10/08 17:08	75-34-3	
1,4-Dichlorobenzene	**<1.0**	ug/L	1.0	0.95	1		10/10/08 17:08	106-46-7	
Dichlorodifluoromethane	**<1.0**	ug/L	1.0	0.99	1		10/10/08 17:08	75-71-8	
Methylene Chloride	**<1.0**	ug/L	1.0	0.43	1		10/10/08 17:08	75-09-2	
Tetrachloroethene	**<1.0**	ug/L	1.0	0.45	1		10/10/08 17:08	127-18-4	
Toluene	**<1.0**	ug/L	1.0	0.67	1		10/10/08 17:08	108-88-3	
Trichloroethene	**<1.0**	ug/L	1.0	0.48	1		10/10/08 17:08	79-01-6	
Vinyl chloride	**<1.0**	ug/L	1.0	0.18	1		10/10/08 17:08	75-01-4	
cis-1,2-Dichloroethene	**<1.0**	ug/L	1.0	0.83	1		10/10/08 17:08	156-59-2	
trans-1,2-Dichloroethene	**<1.0**	ug/L	1.0	0.89	1		10/10/08 17:08	156-60-5	
4-Bromofluorobenzene (S)	106	%	64-132		1		10/10/08 17:08	460-00-4	
Dibromofluoromethane (S)	103	%	68-122		1		10/10/08 17:08	1868-53-7	
Toluene-d8 (S)	107	%	73-127		1		10/10/08 17:08	2037-26-5	

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ANALYTICAL RESULTS

Project: 2541.29 DANA ROSCOE
Pace Project No.: 4010052

Sample: RB-01 **Lab ID: 4010052005** Collected: 10/08/08 11:55 Received: 10/09/08 10:15 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
1,1,1-Trichloroethane	**<1.0**	ug/L	1.0	0.90	1		10/10/08 13:34	71-55-6	
1,1-Dichloroethane	**<1.0**	ug/L	1.0	0.75	1		10/10/08 13:34	75-34-3	
1,4-Dichlorobenzene	**<1.0**	ug/L	1.0	0.95	1		10/10/08 13:34	106-46-7	
Dichlorodifluoromethane	**<1.0**	ug/L	1.0	0.99	1		10/10/08 13:34	75-71-8	
Methylene Chloride	**<1.0**	ug/L	1.0	0.43	1		10/10/08 13:34	75-09-2	
Tetrachloroethene	**<1.0**	ug/L	1.0	0.45	1		10/10/08 13:34	127-18-4	
Toluene	**<1.0**	ug/L	1.0	0.67	1		10/10/08 13:34	108-88-3	
Trichloroethene	**<1.0**	ug/L	1.0	0.48	1		10/10/08 13:34	79-01-6	
Vinyl chloride	**<1.0**	ug/L	1.0	0.18	1		10/10/08 13:34	75-01-4	
cis-1,2-Dichloroethene	**<1.0**	ug/L	1.0	0.83	1		10/10/08 13:34	156-59-2	
trans-1,2-Dichloroethene	**<1.0**	ug/L	1.0	0.89	1		10/10/08 13:34	156-60-5	
4-Bromofluorobenzene (S)	101	%	64-132		1		10/10/08 13:34	460-00-4	
Dibromofluoromethane (S)	106	%	68-122		1		10/10/08 13:34	1868-53-7	
Toluene-d8 (S)	105	%	73-127		1		10/10/08 13:34	2037-26-5	

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ANALYTICAL RESULTS

Project: 2541.29 DANA ROSCOE
Pace Project No.: 4010052

Sample: DUP-01 **Lab ID: 4010052006** Collected: 10/08/08 00:00 Received: 10/09/08 10:15 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
1,1,1-Trichloroethane	**<1.0**	ug/L	1.0	0.90	1		10/10/08 17:32	71-55-6	
1,1-Dichloroethane	**<1.0**	ug/L	1.0	0.75	1		10/10/08 17:32	75-34-3	
1,4-Dichlorobenzene	**<1.0**	ug/L	1.0	0.95	1		10/10/08 17:32	106-46-7	
Dichlorodifluoromethane	**<1.0**	ug/L	1.0	0.99	1		10/10/08 17:32	75-71-8	
Methylene Chloride	**<1.0**	ug/L	1.0	0.43	1		10/10/08 17:32	75-09-2	
Tetrachloroethene	**<1.0**	ug/L	1.0	0.45	1		10/10/08 17:32	127-18-4	
Toluene	**<1.0**	ug/L	1.0	0.67	1		10/10/08 17:32	108-88-3	
Trichloroethene	**<1.0**	ug/L	1.0	0.48	1		10/10/08 17:32	79-01-6	
Vinyl chloride	**<1.0**	ug/L	1.0	0.18	1		10/10/08 17:32	75-01-4	
cis-1,2-Dichloroethene	**<1.0**	ug/L	1.0	0.83	1		10/10/08 17:32	156-59-2	
trans-1,2-Dichloroethene	**<1.0**	ug/L	1.0	0.89	1		10/10/08 17:32	156-60-5	
4-Bromofluorobenzene (S)	104	%	64-132		1		10/10/08 17:32	460-00-4	
Dibromofluoromethane (S)	109	%	68-122		1		10/10/08 17:32	1868-53-7	
Toluene-d8 (S)	107	%	73-127		1		10/10/08 17:32	2037-26-5	

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ANALYTICAL RESULTS

Project: 2541.29 DANA ROSCOE
Pace Project No.: 4010052

Sample: MW-101 **Lab ID: 4010052007** Collected: 10/08/08 17:00 Received: 10/09/08 10:15 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Iron	**327000**	ug/L	100	7.2	1	10/29/08 08:52	10/29/08 18:53	7439-89-6	
Manganese	**5440**	ug/L	5.0	0.66	1	10/29/08 08:52	10/29/08 18:53	7439-96-5	
8260 MSV	Analytical Method: EPA 8260								
1,1,1-Trichloroethane	**<1.0**	ug/L	1.0	0.90	1		10/10/08 13:58	71-55-6	
1,1-Dichloroethane	**1.4**	ug/L	1.0	0.75	1		10/10/08 13:58	75-34-3	
1,4-Dichlorobenzene	**<1.0**	ug/L	1.0	0.95	1		10/10/08 13:58	106-46-7	
Dichlorodifluoromethane	**<1.0**	ug/L	1.0	0.99	1		10/10/08 13:58	75-71-8	
Methylene Chloride	**<1.0**	ug/L	1.0	0.43	1		10/10/08 13:58	75-09-2	
Tetrachloroethene	**<1.0**	ug/L	1.0	0.45	1		10/10/08 13:58	127-18-4	
Toluene	**<1.0**	ug/L	1.0	0.67	1		10/10/08 13:58	108-88-3	
Trichloroethene	**134**	ug/L	1.0	0.48	1		10/10/08 13:58	79-01-6	
Vinyl chloride	**<1.0**	ug/L	1.0	0.18	1		10/10/08 13:58	75-01-4	
cis-1,2-Dichloroethene	**45.7**	ug/L	1.0	0.83	1		10/10/08 13:58	156-59-2	
trans-1,2-Dichloroethene	**<1.0**	ug/L	1.0	0.89	1		10/10/08 13:58	156-60-5	
4-Bromofluorobenzene (S)	102	%	64-132		1		10/10/08 13:58	460-00-4	
Dibromofluoromethane (S)	104	%	68-122		1		10/10/08 13:58	1868-53-7	
Toluene-d8 (S)	105	%	73-127		1		10/10/08 13:58	2037-26-5	
300.0 IC Anions	Analytical Method: EPA 300.0								
Nitrate as N	**<0.40**	mg/L	0.40	0.085	1		10/10/08 10:38	14797-55-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Sulfate	**29.3**	mg/L	4.0	0.51	1		10/22/08 03:44	14808-79-8	

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ANALYTICAL RESULTS

Project: 2541.29 DANA ROSCOE
Pace Project No.: 4010052

Sample: MW-102 **Lab ID: 4010052008** Collected: 10/08/08 16:15 Received: 10/09/08 10:15 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Iron	**1230**	ug/L	100	7.2	1	10/29/08 08:52	10/29/08 18:57	7439-89-6	B
Manganese	**953**	ug/L	5.0	0.66	1	10/29/08 08:52	10/29/08 18:57	7439-96-5	
8260 MSV	Analytical Method: EPA 8260								
1,1,1-Trichloroethane	**2.1**	ug/L	1.0	0.90	1		10/10/08 17:55	71-55-6	
1,1-Dichloroethane	**<1.0**	ug/L	1.0	0.75	1		10/10/08 17:55	75-34-3	
1,4-Dichlorobenzene	**<1.0**	ug/L	1.0	0.95	1		10/10/08 17:55	106-46-7	
Dichlorodifluoromethane	**<1.0**	ug/L	1.0	0.99	1		10/10/08 17:55	75-71-8	
Methylene Chloride	**<1.0**	ug/L	1.0	0.43	1		10/10/08 17:55	75-09-2	
Tetrachloroethene	**<1.0**	ug/L	1.0	0.45	1		10/10/08 17:55	127-18-4	
Toluene	**<1.0**	ug/L	1.0	0.67	1		10/10/08 17:55	108-88-3	
Trichloroethene	**100**	ug/L	1.0	0.48	1		10/10/08 17:55	79-01-6	
Vinyl chloride	**<1.0**	ug/L	1.0	0.18	1		10/10/08 17:55	75-01-4	
cis-1,2-Dichloroethene	**16.2**	ug/L	1.0	0.83	1		10/10/08 17:55	156-59-2	
trans-1,2-Dichloroethene	**<1.0**	ug/L	1.0	0.89	1		10/10/08 17:55	156-60-5	
4-Bromofluorobenzene (S)	105	%	64-132		1		10/10/08 17:55	460-00-4	
Dibromofluoromethane (S)	101	%	68-122		1		10/10/08 17:55	1868-53-7	
Toluene-d8 (S)	107	%	73-127		1		10/10/08 17:55	2037-26-5	
300.0 IC Anions	Analytical Method: EPA 300.0								
Nitrate as N	**<0.40**	mg/L	0.40	0.085	1		10/10/08 10:50	14797-55-8	M0
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Sulfate	**22.7**	mg/L	4.0	0.51	1		10/22/08 03:57	14808-79-8	

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ANALYTICAL RESULTS

Project: 2541.29 DANA ROSCOE
Pace Project No.: 4010052

Sample: MW-103 **Lab ID: 4010052009** Collected: 10/08/08 15:30 Received: 10/09/08 10:15 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Iron	**969**	ug/L	100	7.2	1	10/29/08 08:52	10/29/08 19:02	7439-89-6	B
Manganese	**758**	ug/L	5.0	0.66	1	10/29/08 08:52	10/29/08 19:02	7439-96-5	
8260 MSV	Analytical Method: EPA 8260								
1,1,1-Trichloroethane	**1.3**	ug/L	1.0	0.90	1		10/10/08 18:19	71-55-6	
1,1-Dichloroethane	**<1.0**	ug/L	1.0	0.75	1		10/10/08 18:19	75-34-3	
1,4-Dichlorobenzene	**<1.0**	ug/L	1.0	0.95	1		10/10/08 18:19	106-46-7	
Dichlorodifluoromethane	**<1.0**	ug/L	1.0	0.99	1		10/10/08 18:19	75-71-8	
Methylene Chloride	**<1.0**	ug/L	1.0	0.43	1		10/10/08 18:19	75-09-2	
Tetrachloroethene	**<1.0**	ug/L	1.0	0.45	1		10/10/08 18:19	127-18-4	
Toluene	**<1.0**	ug/L	1.0	0.67	1		10/10/08 18:19	108-88-3	
Trichloroethene	**149**	ug/L	1.0	0.48	1		10/10/08 18:19	79-01-6	
Vinyl chloride	**<1.0**	ug/L	1.0	0.18	1		10/10/08 18:19	75-01-4	
cis-1,2-Dichloroethene	**23.3**	ug/L	1.0	0.83	1		10/10/08 18:19	156-59-2	
trans-1,2-Dichloroethene	**<1.0**	ug/L	1.0	0.89	1		10/10/08 18:19	156-60-5	
4-Bromofluorobenzene (S)	105	%	64-132		1		10/10/08 18:19	460-00-4	
Dibromofluoromethane (S)	100	%	68-122		1		10/10/08 18:19	1868-53-7	
Toluene-d8 (S)	106	%	73-127		1		10/10/08 18:19	2037-26-5	
300.0 IC Anions	Analytical Method: EPA 300.0								
Nitrate as N	**2.3**	mg/L	0.40	0.085	1		10/10/08 11:51	14797-55-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Sulfate	**22.6**	mg/L	4.0	0.51	1		10/22/08 04:57	14808-79-8	

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ANALYTICAL RESULTS

Project: 2541.29 DANA ROSCOE
Pace Project No.: 4010052

Sample: MW-104 **Lab ID: 4010052010** Collected: 10/08/08 14:45 Received: 10/09/08 10:15 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Iron	**1250**	ug/L	100	7.2	1	10/29/08 08:52	10/29/08 19:06	7439-89-6	B
Manganese	**47.7**	ug/L	5.0	0.66	1	10/29/08 08:52	10/29/08 19:06	7439-96-5	
8260 MSV	Analytical Method: EPA 8260								
1,1,1-Trichloroethane	**<2.0**	ug/L	2.0	1.8	2		10/10/08 18:42	71-55-6	
1,1-Dichloroethane	**<2.0**	ug/L	2.0	1.5	2		10/10/08 18:42	75-34-3	
1,4-Dichlorobenzene	**<2.0**	ug/L	2.0	1.9	2		10/10/08 18:42	106-46-7	
Dichlorodifluoromethane	**<2.0**	ug/L	2.0	2.0	2		10/10/08 18:42	75-71-8	
Methylene Chloride	**11.4**	ug/L	2.0	0.86	2		10/10/08 18:42	75-09-2	Z3
Tetrachloroethene	**<2.0**	ug/L	2.0	0.90	2		10/10/08 18:42	127-18-4	
Toluene	**<2.0**	ug/L	2.0	1.3	2		10/10/08 18:42	108-88-3	
Trichloroethene	**157**	ug/L	2.0	0.96	2		10/10/08 18:42	79-01-6	
Vinyl chloride	**<2.0**	ug/L	2.0	0.36	2		10/10/08 18:42	75-01-4	
cis-1,2-Dichloroethene	**21.7**	ug/L	2.0	1.7	2		10/10/08 18:42	156-59-2	
trans-1,2-Dichloroethene	**<2.0**	ug/L	2.0	1.8	2		10/10/08 18:42	156-60-5	
4-Bromofluorobenzene (S)	106	%	64-132		2		10/10/08 18:42	460-00-4	
Dibromofluoromethane (S)	96	%	68-122		2		10/10/08 18:42	1868-53-7	
Toluene-d8 (S)	107	%	73-127		2		10/10/08 18:42	2037-26-5	
300.0 IC Anions	Analytical Method: EPA 300.0								
Nitrate as N	**5.9**	mg/L	0.40	0.085	1		10/10/08 12:03	14797-55-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Sulfate	**22.2**	mg/L	4.0	0.51	1		10/22/08 05:10	14808-79-8	

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ANALYTICAL RESULTS

Project: 2541.29 DANA ROSCOE
Pace Project No.: 4010052

Sample: TRIP BLANK **Lab ID: 4010052011** Collected: 10/08/08 00:00 Received: 10/09/08 10:15 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
1,1,1-Trichloroethane	**<1.0**	ug/L	1.0	0.90	1		10/10/08 13:11	71-55-6	
1,1-Dichloroethane	**<1.0**	ug/L	1.0	0.75	1		10/10/08 13:11	75-34-3	
1,4-Dichlorobenzene	**<1.0**	ug/L	1.0	0.95	1		10/10/08 13:11	106-46-7	
Dichlorodifluoromethane	**<1.0**	ug/L	1.0	0.99	1		10/10/08 13:11	75-71-8	
Methylene Chloride	**<1.0**	ug/L	1.0	0.43	1		10/10/08 13:11	75-09-2	
Tetrachloroethene	**<1.0**	ug/L	1.0	0.45	1		10/10/08 13:11	127-18-4	
Toluene	**<1.0**	ug/L	1.0	0.67	1		10/10/08 13:11	108-88-3	
Trichloroethene	**<1.0**	ug/L	1.0	0.48	1		10/10/08 13:11	79-01-6	
Vinyl chloride	**<1.0**	ug/L	1.0	0.18	1		10/10/08 13:11	75-01-4	
cis-1,2-Dichloroethene	**<1.0**	ug/L	1.0	0.83	1		10/10/08 13:11	156-59-2	
trans-1,2-Dichloroethene	**<1.0**	ug/L	1.0	0.89	1		10/10/08 13:11	156-60-5	
4-Bromofluorobenzene (S)	103	%	64-132		1		10/10/08 13:11	460-00-4	
Dibromofluoromethane (S)	98	%	68-122		1		10/10/08 13:11	1868-53-7	
Toluene-d8 (S)	107	%	73-127		1		10/10/08 13:11	2037-26-5	

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QUALITY CONTROL DATA

Project: 2541.29 DANA ROSCOE
Pace Project No.: 4010052

QC Batch: MSV/2880 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV
Associated Lab Samples: 4010052003, 4010052004, 4010052005, 4010052006, 4010052007, 4010052008, 4010052009, 4010052010, 4010052011

METHOD BLANK: 87623 Matrix: Water
Associated Lab Samples: 4010052003, 4010052004, 4010052005, 4010052006, 4010052007, 4010052008, 4010052009, 4010052010, 4010052011

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	<1.0	1.0	10/10/08 10:01	
1,1-Dichloroethane	ug/L	<1.0	1.0	10/10/08 10:01	
1,4-Dichlorobenzene	ug/L	<1.0	1.0	10/10/08 10:01	
cis-1,2-Dichloroethene	ug/L	<1.0	1.0	10/10/08 10:01	
Dichlorodifluoromethane	ug/L	<1.0	1.0	10/10/08 10:01	
Methylene Chloride	ug/L	<1.0	1.0	10/10/08 10:01	
Tetrachloroethene	ug/L	<1.0	1.0	10/10/08 10:01	
Toluene	ug/L	<1.0	1.0	10/10/08 10:01	
trans-1,2-Dichloroethene	ug/L	<1.0	1.0	10/10/08 10:01	
Trichloroethene	ug/L	<1.0	1.0	10/10/08 10:01	
Vinyl chloride	ug/L	<1.0	1.0	10/10/08 10:01	
4-Bromofluorobenzene (S)	%	103	64-132	10/10/08 10:01	
Dibromofluoromethane (S)	%	103	68-122	10/10/08 10:01	
Toluene-d8 (S)	%	107	73-127	10/10/08 10:01	

LABORATORY CONTROL SAMPLE & LCSD: 87624 87625

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
1,1,1-Trichloroethane	ug/L	50	51.0	48.8	102	98	75-128	4	20	
1,1-Dichloroethane	ug/L	50	51.6	48.8	103	98	71-130	6	20	
cis-1,2-Dichloroethene	ug/L	50	52.8	49.3	106	99	75-125	7	20	
Methylene Chloride	ug/L	50	47.6	42.4	95	85	75-125	11	20	
Tetrachloroethene	ug/L	50	52.1	54.8	104	110	75-130	5	20	
Toluene	ug/L	50	50.0	52.3	100	105	75-125	5	20	
trans-1,2-Dichloroethene	ug/L	50	52.8	50.3	106	101	75-125	5	20	
Trichloroethene	ug/L	50	51.9	50.7	104	101	75-125	2	20	
Vinyl chloride	ug/L	50	48.4	45.1	97	90	65-130	7	20	
4-Bromofluorobenzene (S)	%				98	100	64-132			
Dibromofluoromethane (S)	%				109	100	68-122			
Toluene-d8 (S)	%				104	107	73-127			

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 87626 87627

Parameter	Units	4010050009 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,1,1-Trichloroethane	ug/L	155	50	50	220	219	130	128	70-130	.5	30	
1,1-Dichloroethane	ug/L	158	50	50	215	211	115	106	70-130	2	30	
cis-1,2-Dichloroethene	ug/L	29.0	50	50	86.3	84.9	115	112	70-130	2	30	

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QUALITY CONTROL DATA

Project: 2541.29 DANA ROSCOE
Pace Project No.: 4010052

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 87626 87627

Parameter	Units	4010050009 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Methylene Chloride	ug/L	<0.43	50	50	47.2	45.2	94	90	70-130	4	30	
Tetrachloroethene	ug/L	<0.45	50	50	53.6	54.0	107	108	70-130	.9	30	
Toluene	ug/L	0.77J	50	50	51.2	52.7	101	104	70-130	3	30	
trans-1,2-Dichloroethene	ug/L	<0.89	50	50	51.0	52.9	102	106	70-130	4	30	
Vinyl chloride	ug/L	2.7	50	50	50.8	50.3	96	95	62-138	1	30	
4-Bromofluorobenzene (S)	%						103	102	64-132			
Dibromofluoromethane (S)	%						102	103	68-122			
Toluene-d8 (S)	%						103	105	73-127			

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QUALITY CONTROL DATA

Project: 2541.29 DANA ROSCOE
Pace Project No.: 4010052

QC Batch: MSV/2883 — Analysis Method: EPA 8260
QC Batch Method: EPA 8260 — Analysis Description: 8260 MSV
Associated Lab Samples: 4010052001, 4010052002

METHOD BLANK: 88304 — Matrix: Water
Associated Lab Samples: 4010052001, 4010052002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	<1.0	1.0	10/13/08 08:56	
1,1-Dichloroethane	ug/L	<1.0	1.0	10/13/08 08:56	
1,4-Dichlorobenzene	ug/L	<1.0	1.0	10/13/08 08:56	
cis-1,2-Dichloroethene	ug/L	<1.0	1.0	10/13/08 08:56	
Dichlorodifluoromethane	ug/L	<1.0	1.0	10/13/08 08:56	
Methylene Chloride	ug/L	<1.0	1.0	10/13/08 08:56	
Tetrachloroethene	ug/L	<1.0	1.0	10/13/08 08:56	
Toluene	ug/L	<1.0	1.0	10/13/08 08:56	
trans-1,2-Dichloroethene	ug/L	<1.0	1.0	10/13/08 08:56	
Trichloroethene	ug/L	<1.0	1.0	10/13/08 08:56	
Vinyl chloride	ug/L	<1.0	1.0	10/13/08 08:56	
4-Bromofluorobenzene (S)	%	98	64-132	10/13/08 08:56	
Dibromofluoromethane (S)	%	108	68-122	10/13/08 08:56	
Toluene-d8 (S)	%	104	73-127	10/13/08 08:56	

LABORATORY CONTROL SAMPLE & LCSD: 88305 88306

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
1,1,1-Trichloroethane	ug/L	50	51.9	52.6	104	105	75-128	1	20	
1,1-Dichloroethane	ug/L	50	52.7	53.0	105	106	71-130	.5	20	
cis-1,2-Dichloroethene	ug/L	50	54.5	54.6	109	109	75-125	.1	20	
Methylene Chloride	ug/L	50	52.5	52.1	105	104	75-125	.6	20	
Tetrachloroethene	ug/L	50	45.6	45.5	91	91	75-130	.3	20	
Toluene	ug/L	50	50.0	49.9	100	100	75-125	.08	20	
trans-1,2-Dichloroethene	ug/L	50	51.5	53.8	103	108	75-125	4	20	
Trichloroethene	ug/L	50	53.7	52.6	107	105	75-125	2	20	
Vinyl chloride	ug/L	50	46.5	47.3	93	95	65-130	2	20	
4-Bromofluorobenzene (S)	%				97	98	64-132			
Dibromofluoromethane (S)	%				106	106	68-122			
Toluene-d8 (S)	%				104	103	73-127			

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 88360 88361

Parameter	Units	4010119005 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,1,1-Trichloroethane	ug/L	<0.90	50	50	53.7	53.7	107	107	70-130	.03	30	
1,1-Dichloroethane	ug/L	<0.75	50	50	55.2	54.5	110	109	70-130	1	30	
cis-1,2-Dichloroethene	ug/L	<0.83	50	50	55.8	55.2	112	110	70-130	1	30	
Methylene Chloride	ug/L	<0.43	50	50	53.3	52.8	107	106	70-130	1	30	
Tetrachloroethene	ug/L	<0.45	50	50	44.2	45.2	88	90	70-130	2	30	

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QUALITY CONTROL DATA

Project: 2541.29 DANA ROSCOE
Pace Project No.: 4010052

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 88360 88361

Parameter	Units	4010119005 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Toluene	ug/L	<0.67	50	50	50.5	50.6	101	101	70-130	.2	30	
trans-1,2-Dichloroethene	ug/L	<0.89	50	50	53.3	54.0	107	108	70-130	1	30	
Trichloroethene	ug/L	<0.48	50	50	52.9	54.9	106	110	70-130	4	30	
Vinyl chloride	ug/L	<0.18	50	50	46.9	46.1	94	92	62-138	2	30	
4-Bromofluorobenzene (S)	%						98	98	64-132			
Dibromofluoromethane (S)	%						107	106	68-122			
Toluene-d8 (S)	%						104	104	73-127			

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QUALITY CONTROL DATA

Project: 2541.29 DANA ROSCOE
Pace Project No.: 4010052

QC Batch: WETA/2520 — Analysis Method: EPA 300.0
QC Batch Method: EPA 300.0 — Analysis Description: 300.0 IC Anions
Associated Lab Samples: 4010052007, 4010052008, 4010052009, 4010052010

METHOD BLANK: 88385 — Matrix: Water
Associated Lab Samples: 4010052007, 4010052008, 4010052009, 4010052010

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrate as N	mg/L	<0.40	0.40	10/10/08 08:00	

LABORATORY CONTROL SAMPLE: 88386

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrate as N	mg/L	1.6	1.5	96	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 88387 88388

Parameter	Units	4010050005 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Nitrate as N	mg/L		8	8	17.7	17.6	96	95	90-110	.3	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 88389 88390

Parameter	Units	4010052008 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Nitrate as N	mg/L	<0.40	1.6	1.6	1.1	1.1	68	69	90-110	2	20	M0

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QUALITY CONTROL DATA

Project: 2541.29 DANA ROSCOE
Pace Project No.: 4010052

QC Batch: WETA/2521 — Analysis Method: EPA 300.0
QC Batch Method: EPA 300.0 — Analysis Description: 300.0 IC Anions
Associated Lab Samples: 4010052007, 4010052008, 4010052009, 4010052010

METHOD BLANK: 88395 — Matrix: Water
Associated Lab Samples: 4010052007, 4010052008, 4010052009, 4010052010

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Sulfate	mg/L	<4.0	4.0	10/22/08 00:17	

LABORATORY CONTROL SAMPLE: 88396

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Sulfate	mg/L	16	15.5	97	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 88397 88398

Parameter	Units	4010050005 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Sulfate	mg/L		16	16	44.8	44.9	100	101	90-110	.3	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 88399 88400

Parameter	Units	4010052008 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Sulfate	mg/L	22.7	16	16	37.3	39.2	91	104	90-110	5	20	

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(920)469-2436

QUALITY CONTROL DATA

Project: 2541.29 DANA ROSCOE
Pace Project No.: 4010052

QC Batch: MPRP/1925 Analysis Method: EPA 6010
QC Batch Method: EPA 3010 Analysis Description: 6010 MET
Associated Lab Samples: 4010052007, 4010052008, 4010052009, 4010052010

METHOD BLANK: 95036 Matrix: Water
Associated Lab Samples: 4010052007, 4010052008, 4010052009, 4010052010

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Iron	ug/L	<100	100	10/29/08 18:26	
Manganese	ug/L	<5.0	5.0	10/29/08 18:26	

LABORATORY CONTROL SAMPLE: 95037

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Iron	ug/L	5000	5040	101	80-120	
Manganese	ug/L	500	500	100	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 95038 95039

Parameter	Units	4010762001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Iron	ug/L	124000	5000	5000	125000	130000	26	130	75-125	4	20	P6
Manganese	ug/L	1360	500	500	1800	1860	88	101	75-125	4	20	

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QUALIFIERS

Project: 2541.29 DANA ROSCOE
Pace Project No.: 4010052

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

Pace Analytical is NELAP accredited. Contact your Pace PM for the current list of accredited analytes.

LABORATORIES

PASI-G	Pace Analytical Services - Green Bay

ANALYTE QUALIFIERS

B	Analyte was detected in the associated method blank.
M0	Matrix spike recovery was outside laboratory control limits.
P6	Matrix spike recovery was outside laboratory control limits due to a parent sample concentration notably higher than the spike level.
Z3	Methylene chloride is a common laboratory contaminant. Results for this analyte should be considered estimated unless the amount found in the sample is 3 to 5 times higher than that found in the method blank.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 2541.29 DANA ROSCOE
Pace Project No.: 4010052

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
4010052003	HEMW-3	EPA 8260	MSV/2880		
4010052004	HEMW-4	EPA 8260	MSV/2880		
4010052005	RB-01	EPA 8260	MSV/2880		
4010052006	DUP-01	EPA 8260	MSV/2880		
4010052007	MW-101	EPA 8260	MSV/2880		
4010052008	MW-102	EPA 8260	MSV/2880		
4010052009	MW-103	EPA 8260	MSV/2880		
4010052010	MW-104	EPA 8260	MSV/2880		
4010052011	TRIP BLANK	EPA 8260	MSV/2880		
4010052001	HEMW-1	EPA 8260	MSV/2883		
4010052002	HEMW-2	EPA 8260	MSV/2883		
4010052007	MW-101	EPA 300.0	WETA/2520		
4010052008	MW-102	EPA 300.0	WETA/2520		
4010052009	MW-103	EPA 300.0	WETA/2520		
4010052010	MW-104	EPA 300.0	WETA/2520		
4010052007	MW-101	EPA 300.0	WETA/2521		
4010052008	MW-102	EPA 300.0	WETA/2521		
4010052009	MW-103	EPA 300.0	WETA/2521		
4010052010	MW-104	EPA 300.0	WETA/2521		
4010052007	MW-101	EPA 3010	MPRP/1925	EPA 6010	ICP/1734
4010052008	MW-102	EPA 3010	MPRP/1925	EPA 6010	ICP/1734
4010052009	MW-103	EPA 3010	MPRP/1925	EPA 6010	ICP/1734
4010052010	MW-104	EPA 3010	MPRP/1925	EPA 6010	ICP/1734

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UPPER MIDWEST REGION
MN: 612-607-1700 WI: 920-469-2436

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CHAIN OF CUSTODY

*Preservation Codes
A=None B=HCL C=H2SO4 D=HNO3 E=DI Water F=Methanol G=NaOH
H=Sodium Bisulfate Solution I=Sodium Thiosulfate J=Other

(Please Print Clearly)

Company Name:	RMT
Branch/Location:	Madison
Project Contact:	Jim Buss
Phone:	(608) 831-4444
Project Number:	2541.29
Project Name:	Dana Roscoe
Project State:	IL
Sampled By (Print):	Lance Bakken
Sampled By (Sign):	[signature]
PO #:	Regulatory Program:

Quote #:	
Mail To Contact:	Jim Buss
Mail To Company:	RMT
Mail To Address:	Madison
Invoice To Contact:	Same
Invoice To Company:	
Invoice To Address:	
Invoice To Phone:	

Data Package Options (billable)
- ☐ EPA Level III
- ☐ EPA Level IV

MS/MSD
- ☐ On your sample (billable)
- ☐ NOT needed on your sample

Matrix Codes
A = Air, B = Biota, C = Charcoal, O = Oil, S = Soil, SL = Sludge, W = Water, DW = Drinking Water, GW = Ground Water, SW = Surface Water, WW = Waste Water, WP = Wipe

PACE LAB #	CLIENT FIELD ID	COLLECTION DATE	COLLECTION TIME	MATRIX	VOC (8260B)	Sulfate	Nitrate	Manganese	Fe					CLIENT COMMENTS	LAB COMMENTS (Lab Use Only)	Profile #
					Y/N: N	N	N									
					Pick Letter: B	A	D									
	HE-MW-1	11/18/08	1350	GW	X											
	HE-MW-2		1250		X											
	HE-MW-3		1140		X											
	HE-MW-4		1040		X											
	BB-01		1155		X											
	DUP-01				X											
	MW-101		700		X	X	X									
	MW-102		615		X	X	X									
	MW-103		1530		X	X	X									
	MW-104		445		X	X	X									
	Trip Blank				X											

Rush Turnaround Time Requested - Prelims
(Rush TAT subject to approval/surcharge)
Date Needed:

Transmit Prelim Rush Results by (complete what you want):

Email #1:	
Email #2:	
Telephone:	
Fax:	

Samples on HOLD are subject to special pricing and release of liability

Relinquished By:	Date/Time:	Received By:	Date/Time:
[signature]	11/18/08 1830		

PACE Project No.

Receipt Temp = °C

Sample Receipt pH OK / Adjusted

Cooler Custody Seal Present / Not Present Intact / Not Intact

Version 6.0 06/14/06

C019a(27Jun2006)

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1241 Bellevue Street
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(920)469-2436

November 14, 2008

JIM BUSS
RMT MADISON
744 HEARTLAND TRAIL
Madison, WI 537171934

RE: Project: 2541.29 DANA ROSCOE
Pace Project No.: 4011200

Dear JIM BUSS:
Enclosed are the analytical results for sample(s) received by the laboratory on November 07, 2008. The results relate only to the samples included in this report. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

for Tod N.

Tod Noltemeyer

tod.noltemeyer@pacelabs.com
Project Manager

Enclosures

REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: 2541.29 DANA ROSCOE
Pace Project No.: 4011200

Green Bay Certification IDs

Louisiana Certification #: 04169
Louisiana Certification #: 04168
Kentucky Certification #: 83
Kentucky Certification #: 82
Wisconsin DATCP Certification #: 105-444
Wisconsin DATCP Certification #: 105-444
Wisconsin Certification #: 405132750
Wisconsin Certification #: 405132750
South Carolina Certification #: 83006001
South Carolina Certification #: 83006001
Minnesota Certification #: 055-999-334
Minnesota Certification #: 055-999-334
North Carolina Certification #: 503
North Carolina Certification #: 503
North Dakota Certification #: R-200
North Dakota Certification #: R-150
New York Certification #: 11888
New York Certification #: 11887
Illinois Certification #: 200051
Illinois Certification #: 200050
Florida (NELAP) Certification #: E87951
Florida (NELAP) Certification #: E87948

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SAMPLE SUMMARY

Project: 2541.29 DANA ROSCOE
Pace Project No.: 4011200

Lab ID	Sample ID	Matrix	Date Collected	Date Received
4011200001	**MW-104**	Water	11/06/08 00:00	11/07/08 10:15
4011200002	**MW-103**	Water	11/06/08 12:20	11/07/08 10:15
4011200003	**MW-102**	Water	11/06/08 13:30	11/07/08 10:15
4011200004	**MW-101**	Water	11/06/08 15:00	11/07/08 10:15
4011200005	**TRIP BLANK**	Water	11/06/08 00:00	11/07/08 10:15

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SAMPLE ANALYTE COUNT

Project: 2541.29 DANA ROSCOE
Pace Project No.: 4011200

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
4011200001	MW-104	EPA 300.0	DDY	2	PASI-G
		EPA 6010	DLB	2	PASI-G
		EPA 8260	JJB	14	PASI-G
4011200002	MW-103	EPA 300.0	DDY	2	PASI-G
		EPA 6010	DLB	2	PASI-G
		EPA 8260	JJB	14	PASI-G
4011200003	MW-102	EPA 300.0	DDY	2	PASI-G
		EPA 6010	DLB	2	PASI-G
		EPA 8260	JJB	14	PASI-G
4011200004	MW-101	EPA 300.0	DDY	2	PASI-G
		EPA 6010	DLB	2	PASI-G
		EPA 8260	JJB	14	PASI-G
4011200005	TRIP BLANK	EPA 8260	JJB	14	PASI-G

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PROJECT NARRATIVE

Project: 2541.29 DANA ROSCOE
Pace Project No.: 4011200

Method: **EPA 6010**
Description: 6010 MET ICP, Dissolved
Client: RMT MADISON
Date: November 14, 2008

General Information:
4 samples were analyzed for EPA 6010. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: 2541.29 DANA ROSCOE
Pace Project No.: 4011200

Method: EPA 8260
Description: 8260 MSV
Client: RMT MADISON
Date: November 14, 2008

General Information:
5 samples were analyzed for EPA 8260. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Internal Standards:
All internal standards were within QC limits with any exceptions noted below.

Surrogates:
All surrogates were within QC limits with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: 2541.29 DANA ROSCOE
Pace Project No.: 4011200

Method: **EPA 300.0**
Description: 300.0 IC Anions
Client: RMT MADISON
Date: November 14, 2008

General Information:
4 samples were analyzed for EPA 300.0. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: 2541.29 DANA ROSCOE
Pace Project No.: 4011200

Method: **EPA 300.0**
Description: 300.0 IC Anions 28 Days
Client: RMT MADISON
Date: November 14, 2008

General Information:
4 samples were analyzed for EPA 300.0. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.

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ANALYTICAL RESULTS

Project: 2541.29 DANA ROSCOE
Pace Project No.: 4011200

Sample: MW-104 **Lab ID: 4011200001** Collected: 11/06/08 00:00 Received: 11/07/08 10:15 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, Dissolved	Analytical Method: EPA 6010								
Iron, Dissolved	**<100**	ug/L	100	6.9	1		11/11/08 02:18	7439-89-6	
Manganese, Dissolved	**830**	ug/L	5.0	0.48	1		11/11/08 02:18	7439-96-5	
8260 MSV	Analytical Method: EPA 8260								
1,1,1-Trichloroethane	**<2.5**	ug/L	2.5	2.2	2.5		11/11/08 16:56	71-55-6	
1,1-Dichloroethane	**<2.5**	ug/L	2.5	1.9	2.5		11/11/08 16:56	75-34-3	
1,4-Dichlorobenzene	**<2.5**	ug/L	2.5	2.4	2.5		11/11/08 16:56	106-46-7	
Dichlorodifluoromethane	**<2.5**	ug/L	2.5	2.5	2.5		11/11/08 16:56	75-71-8	
Methylene Chloride	**<2.5**	ug/L	2.5	1.1	2.5		11/11/08 16:56	75-09-2	
Tetrachloroethene	**<2.5**	ug/L	2.5	1.1	2.5		11/11/08 16:56	127-18-4	
Toluene	**<2.5**	ug/L	2.5	1.7	2.5		11/11/08 16:56	108-88-3	
Trichloroethene	**150**	ug/L	2.5	1.2	2.5		11/11/08 16:56	79-01-6	
Vinyl chloride	**<2.5**	ug/L	2.5	0.45	2.5		11/11/08 16:56	75-01-4	
cis-1,2-Dichloroethene	**51.4**	ug/L	2.5	2.1	2.5		11/11/08 16:56	156-59-2	
trans-1,2-Dichloroethene	**<2.5**	ug/L	2.5	2.2	2.5		11/11/08 16:56	156-60-5	
4-Bromofluorobenzene (S)	94	%	64-132		2.5		11/11/08 16:56	460-00-4	
Dibromofluoromethane (S)	100	%	68-122		2.5		11/11/08 16:56	1868-53-7	
Toluene-d8 (S)	97	%	73-127		2.5		11/11/08 16:56	2037-26-5	
300.0 IC Anions	Analytical Method: EPA 300.0								
Nitrate as N	**1.3**	mg/L	0.40	0.085	1		11/07/08 19:56	14797-55-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Sulfate	**22.2**	mg/L	4.0	0.51	1		11/07/08 19:56	14808-79-8	

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ANALYTICAL RESULTS

Project: 2541.29 DANA ROSCOE
Pace Project No.: 4011200

Sample: MW-103 **Lab ID: 4011200002** Collected: 11/06/08 12:20 Received: 11/07/08 10:15 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, Dissolved	Analytical Method: EPA 6010								
Iron, Dissolved	**2440**	ug/L	100	6.9	1		11/11/08 02:22	7439-89-6	
Manganese, Dissolved	**1340**	ug/L	5.0	0.48	1		11/11/08 02:22	7439-96-5	
8260 MSV	Analytical Method: EPA 8260								
1,1,1-Trichloroethane	**1.1**	ug/L	1.0	0.90	1		11/11/08 15:45	71-55-6	
1,1-Dichloroethane	**<1.0**	ug/L	1.0	0.75	1		11/11/08 15:45	75-34-3	
1,4-Dichlorobenzene	**<1.0**	ug/L	1.0	0.95	1		11/11/08 15:45	106-46-7	
Dichlorodifluoromethane	**<1.0**	ug/L	1.0	0.99	1		11/11/08 15:45	75-71-8	
Methylene Chloride	**<1.0**	ug/L	1.0	0.43	1		11/11/08 15:45	75-09-2	
Tetrachloroethene	**<1.0**	ug/L	1.0	0.45	1		11/11/08 15:45	127-18-4	
Toluene	**<1.0**	ug/L	1.0	0.67	1		11/11/08 15:45	108-88-3	
Trichloroethene	**120**	ug/L	1.0	0.48	1		11/11/08 15:45	79-01-6	
Vinyl chloride	**<1.0**	ug/L	1.0	0.18	1		11/11/08 15:45	75-01-4	
cis-1,2-Dichloroethene	**19.7**	ug/L	1.0	0.83	1		11/11/08 15:45	156-59-2	
trans-1,2-Dichloroethene	**<1.0**	ug/L	1.0	0.89	1		11/11/08 15:45	156-60-5	
4-Bromofluorobenzene (S)	96	%	64-132		1		11/11/08 15:45	460-00-4	
Dibromofluoromethane (S)	99	%	68-122		1		11/11/08 15:45	1868-53-7	
Toluene-d8 (S)	100	%	73-127		1		11/11/08 15:45	2037-26-5	
300.0 IC Anions	Analytical Method: EPA 300.0								
Nitrate as N	**0.41**	mg/L	0.40	0.085	1		11/07/08 20:39	14797-55-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Sulfate	**12.2**	mg/L	4.0	0.51	1		11/07/08 20:39	14808-79-8	

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ANALYTICAL RESULTS

Project: 2541.29 DANA ROSCOE
Pace Project No.: 4011200

Sample: MW-102 **Lab ID: 4011200003** Collected: 11/06/08 13:30 Received: 11/07/08 10:15 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, Dissolved	Analytical Method: EPA 6010								
Iron, Dissolved	**2470**	ug/L	100	6.9	1		11/11/08 02:34	7439-89-6	
Manganese, Dissolved	**1570**	ug/L	5.0	0.48	1		11/11/08 02:34	7439-96-5	
8260 MSV	Analytical Method: EPA 8260								
1,1,1-Trichloroethane	**1.0**	ug/L	1.0	0.90	1		11/11/08 16:09	71-55-6	
1,1-Dichloroethane	**<1.0**	ug/L	1.0	0.75	1		11/11/08 16:09	75-34-3	
1,4-Dichlorobenzene	**<1.0**	ug/L	1.0	0.95	1		11/11/08 16:09	106-46-7	
Dichlorodifluoromethane	**<1.0**	ug/L	1.0	0.99	1		11/11/08 16:09	75-71-8	
Methylene Chloride	**<1.0**	ug/L	1.0	0.43	1		11/11/08 16:09	75-09-2	
Tetrachloroethene	**<1.0**	ug/L	1.0	0.45	1		11/11/08 16:09	127-18-4	
Toluene	**<1.0**	ug/L	1.0	0.67	1		11/11/08 16:09	108-88-3	
Trichloroethene	**75.4**	ug/L	1.0	0.48	1		11/11/08 16:09	79-01-6	
Vinyl chloride	**<1.0**	ug/L	1.0	0.18	1		11/11/08 16:09	75-01-4	
cis-1,2-Dichloroethene	**11.5**	ug/L	1.0	0.83	1		11/11/08 16:09	156-59-2	
trans-1,2-Dichloroethene	**<1.0**	ug/L	1.0	0.89	1		11/11/08 16:09	156-60-5	
4-Bromofluorobenzene (S)	91	%	64-132		1		11/11/08 16:09	460-00-4	
Dibromofluoromethane (S)	97	%	68-122		1		11/11/08 16:09	1868-53-7	
Toluene-d8 (S)	94	%	73-127		1		11/11/08 16:09	2037-26-5	
300.0 IC Anions	Analytical Method: EPA 300.0								
Nitrate as N	**<0.40**	mg/L	0.40	0.085	1		11/07/08 20:53	14797-55-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Sulfate	**12.1**	mg/L	4.0	0.51	1		11/07/08 20:53	14808-79-8	

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ANALYTICAL RESULTS

Project: 2541.29 DANA ROSCOE
Pace Project No.: 4011200

Sample: MW-101 **Lab ID: 4011200004** Collected: 11/06/08 15:00 Received: 11/07/08 10:15 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, Dissolved	Analytical Method: EPA 6010								
Iron, Dissolved	**35700**	ug/L	100	6.9	1		11/11/08 02:38	7439-89-6	
Manganese, Dissolved	**863**	ug/L	5.0	0.48	1		11/11/08 02:38	7439-96-5	
8260 MSV	Analytical Method: EPA 8260								
1,1,1-Trichloroethane	**<1.0**	ug/L	1.0	0.90	1		11/11/08 16:33	71-55-6	
1,1-Dichloroethane	**<1.0**	ug/L	1.0	0.75	1		11/11/08 16:33	75-34-3	
1,4-Dichlorobenzene	**<1.0**	ug/L	1.0	0.95	1		11/11/08 16:33	106-46-7	
Dichlorodifluoromethane	**<1.0**	ug/L	1.0	0.99	1		11/11/08 16:33	75-71-8	
Methylene Chloride	**<1.0**	ug/L	1.0	0.43	1		11/11/08 16:33	75-09-2	
Tetrachloroethene	**<1.0**	ug/L	1.0	0.45	1		11/11/08 16:33	127-18-4	
Toluene	**<1.0**	ug/L	1.0	0.67	1		11/11/08 16:33	108-88-3	
Trichloroethene	**7.0**	ug/L	1.0	0.48	1		11/11/08 16:33	79-01-6	
Vinyl chloride	**<1.0**	ug/L	1.0	0.18	1		11/11/08 16:33	75-01-4	
cis-1,2-Dichloroethene	**<1.0**	ug/L	1.0	0.83	1		11/11/08 16:33	156-59-2	
trans-1,2-Dichloroethene	**<1.0**	ug/L	1.0	0.89	1		11/11/08 16:33	156-60-5	
4-Bromofluorobenzene (S)	94	%	64-132		1		11/11/08 16:33	460-00-4	
Dibromofluoromethane (S)	97	%	68-122		1		11/11/08 16:33	1868-53-7	
Toluene-d8 (S)	98	%	73-127		1		11/11/08 16:33	2037-26-5	
300.0 IC Anions	Analytical Method: EPA 300.0								
Nitrate as N	**0.73**	mg/L	0.40	0.085	1		11/07/08 21:07	14797-55-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Sulfate	**13.2**	mg/L	4.0	0.51	1		11/07/08 21:07	14808-79-8	

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ANALYTICAL RESULTS

Project: 2541.29 DANA ROSCOE
Pace Project No.: 4011200

Sample: TRIP BLANK **Lab ID: 4011200005** Collected: 11/06/08 00:00 Received: 11/07/08 10:15 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
1,1,1-Trichloroethane	**<1.0**	ug/L	1.0	0.90	1		11/11/08 10:37	71-55-6	
1,1-Dichloroethane	**<1.0**	ug/L	1.0	0.75	1		11/11/08 10:37	75-34-3	
1,4-Dichlorobenzene	**<1.0**	ug/L	1.0	0.95	1		11/11/08 10:37	106-46-7	
Dichlorodifluoromethane	**<1.0**	ug/L	1.0	0.99	1		11/11/08 10:37	75-71-8	
Methylene Chloride	**<1.0**	ug/L	1.0	0.43	1		11/11/08 10:37	75-09-2	
Tetrachloroethene	**<1.0**	ug/L	1.0	0.45	1		11/11/08 10:37	127-18-4	
Toluene	**<1.0**	ug/L	1.0	0.67	1		11/11/08 10:37	108-88-3	
Trichloroethene	**<1.0**	ug/L	1.0	0.48	1		11/11/08 10:37	79-01-6	
Vinyl chloride	**<1.0**	ug/L	1.0	0.18	1		11/11/08 10:37	75-01-4	
cis-1,2-Dichloroethene	**<1.0**	ug/L	1.0	0.83	1		11/11/08 10:37	156-59-2	
trans-1,2-Dichloroethene	**<1.0**	ug/L	1.0	0.89	1		11/11/08 10:37	156-60-5	
4-Bromofluorobenzene (S)	94	%	64-132		1		11/11/08 10:37	460-00-4	
Dibromofluoromethane (S)	95	%	68-122		1		11/11/08 10:37	1868-53-7	
Toluene-d8 (S)	94	%	73-127		1		11/11/08 10:37	2037-26-5	

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QUALITY CONTROL DATA

Project: 2541.29 DANA ROSCOE
Pace Project No.: 4011200

QC Batch: MSV/3129 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV
Associated Lab Samples: 4011200001, 4011200002, 4011200003, 4011200004, 4011200005

METHOD BLANK: 99527 Matrix: Water
Associated Lab Samples: 4011200001, 4011200002, 4011200003, 4011200004, 4011200005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	<1.0	1.0	11/11/08 07:28	
1,1-Dichloroethane	ug/L	<1.0	1.0	11/11/08 07:28	
1,4-Dichlorobenzene	ug/L	<1.0	1.0	11/11/08 07:28	
cis-1,2-Dichloroethene	ug/L	<1.0	1.0	11/11/08 07:28	
Dichlorodifluoromethane	ug/L	<1.0	1.0	11/11/08 07:28	
Methylene Chloride	ug/L	<1.0	1.0	11/11/08 07:28	
Tetrachloroethene	ug/L	<1.0	1.0	11/11/08 07:28	
Toluene	ug/L	<1.0	1.0	11/11/08 07:28	
trans-1,2-Dichloroethene	ug/L	<1.0	1.0	11/11/08 07:28	
Trichloroethene	ug/L	<1.0	1.0	11/11/08 07:28	
Vinyl chloride	ug/L	<1.0	1.0	11/11/08 07:28	
4-Bromofluorobenzene (S)	%	97	64-132	11/11/08 07:28	
Dibromofluoromethane (S)	%	93	68-122	11/11/08 07:28	
Toluene-d8 (S)	%	98	73-127	11/11/08 07:28	

LABORATORY CONTROL SAMPLE & LCSD: 99528 99529

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
1,1,1-Trichloroethane	ug/L	50	54.4	52.6	109	105	75-128	3	20	
1,1-Dichloroethane	ug/L	50	52.5	50.8	105	102	71-130	3	20	
cis-1,2-Dichloroethene	ug/L	50	53.7	50.7	107	101	75-125	6	20	
Methylene Chloride	ug/L	50	53.1	50.7	106	101	75-125	5	20	
Tetrachloroethene	ug/L	50	56.7	57.1	113	114	75-130	.7	20	
Toluene	ug/L	50	53.2	50.5	106	101	75-125	5	20	
trans-1,2-Dichloroethene	ug/L	50	50.9	50.4	102	101	75-125	1	20	
Trichloroethene	ug/L	50	56.0	53.2	112	106	75-125	5	20	
Vinyl chloride	ug/L	50	53.3	51.6	107	103	65-130	3	20	
4-Bromofluorobenzene (S)	%				96	100	64-132			
Dibromofluoromethane (S)	%				94	95	68-122			
Toluene-d8 (S)	%				100	100	73-127			

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 99530 99531

Parameter	Units	4011160006 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,1,1-Trichloroethane	ug/L	2.4J	50	50	56.4	59.7	108	115	70-130	6	30	
1,1-Dichloroethane	ug/L	2.3J	50	50	54.2	57.5	104	111	70-130	6	30	
cis-1,2-Dichloroethene	ug/L	<0.83	50	50	52.4	55.2	104	109	70-130	5	30	
Methylene Chloride	ug/L	<0.43	50	50	51.5	53.0	103	106	70-130	3	30	
Tetrachloroethene	ug/L	<0.45	50	50	55.8	57.2	112	114	70-130	2	30	

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QUALITY CONTROL DATA

Project: 2541.29 DANA ROSCOE
Pace Project No.: 4011200

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 99530 99531

Parameter	Units	4011160006 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Toluene	ug/L	<0.67	50	50	54.4	53.3	109	107	70-130	2	30	
trans-1,2-Dichloroethene	ug/L	<0.89	50	50	50.3	53.3	101	107	70-130	6	30	
Trichloroethene	ug/L	1.1J	50	50	57.6	57.8	113	113	70-130	.4	30	
Vinyl chloride	ug/L	<0.18	50	50	49.2	55.3	98	111	62-138	12	30	
4-Bromofluorobenzene (S)	%						94	98	64-132			
Dibromofluoromethane (S)	%						95	101	68-122			
Toluene-d8 (S)	%						97	100	73-127			

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QUALITY CONTROL DATA

Project: 2541.29 DANA ROSCOE
Pace Project No.: 4011200

QC Batch: WETA/2722 Analysis Method: EPA 300.0
QC Batch Method: EPA 300.0 Analysis Description: 300.0 IC Anions
Associated Lab Samples: 4011200001, 4011200002, 4011200003, 4011200004

METHOD BLANK: 99614 Matrix: Water
Associated Lab Samples: 4011200001, 4011200002, 4011200003, 4011200004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrate as N	mg/L	<0.40	0.40	11/07/08 19:00	

LABORATORY CONTROL SAMPLE: 99615

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrate as N	mg/L	1.6	1.6	101	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 99616 99617

Parameter	Units	4011200001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Nitrate as N	mg/L	1.3	1.6	1.6	2.9	2.9	99	100	90-110	.7	20	

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QUALITY CONTROL DATA

Project: 2541.29 DANA ROSCOE
Pace Project No.: 4011200

QC Batch: WETA/2723 Analysis Method: EPA 300.0
QC Batch Method: EPA 300.0 Analysis Description: 300.0 IC Anions
Associated Lab Samples: 4011200001, 4011200002, 4011200003, 4011200004

METHOD BLANK: 99618 Matrix: Water
Associated Lab Samples: 4011200001, 4011200002, 4011200003, 4011200004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Sulfate	mg/L	<4.0	4.0	11/07/08 19:00	

LABORATORY CONTROL SAMPLE: 99619

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Sulfate	mg/L	16	16.1	101	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 99620 99621

Parameter	Units	4011200001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Sulfate	mg/L	22.2	16	16	39.3	39.5	107	108	90-110	.5	20	

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QUALITY CONTROL DATA

Project: 2541.29 DANA ROSCOE
Pace Project No.: 4011200

QC Batch: ICP/1761 Analysis Method: EPA 6010
QC Batch Method: EPA 6010 Analysis Description: ICP Metals, Trace, Dissolved
Associated Lab Samples: 4011200001, 4011200002, 4011200003, 4011200004

METHOD BLANK: 99889 Matrix: Water
Associated Lab Samples: 4011200001, 4011200002, 4011200003, 4011200004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Iron, Dissolved	ug/L	<100	100	11/11/08 01:13	
Manganese, Dissolved	ug/L	<5.0	5.0	11/11/08 01:13	

LABORATORY CONTROL SAMPLE: 99890

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Iron, Dissolved	ug/L	5000	5130	103	80-120	
Manganese, Dissolved	ug/L	500	505	101	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 99891 99892

Parameter	Units	4011163001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Iron, Dissolved	ug/L	<6.9	5000	5000	4820	4930	96	99	75-125	2	20	
Manganese, Dissolved	ug/L	509	500	500	986	990	95	96	75-125	.3	20	

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QUALIFIERS

Project: 2541.29 DANA ROSCOE
Pace Project No.: 4011200

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

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LABORATORIES

PASI-G Pace Analytical Services - Green Bay

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 2541.29 DANA ROSCOE
Pace Project No.: 4011200

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
4011200001	MW-104	EPA 8260	MSV/3129		
4011200002	MW-103	EPA 8260	MSV/3129		
4011200003	MW-102	EPA 8260	MSV/3129		
4011200004	MW-101	EPA 8260	MSV/3129		
4011200005	TRIP BLANK	EPA 8260	MSV/3129		
4011200001	MW-104	EPA 300.0	WETA/2722		
4011200002	MW-103	EPA 300.0	WETA/2722		
4011200003	MW-102	EPA 300.0	WETA/2722		
4011200004	MW-101	EPA 300.0	WETA/2722		
4011200001	MW-104	EPA 300.0	WETA/2723		
4011200002	MW-103	EPA 300.0	WETA/2723		
4011200003	MW-102	EPA 300.0	WETA/2723		
4011200004	MW-101	EPA 300.0	WETA/2723		
4011200001	MW-104	EPA 6010	ICP/1761		
4011200002	MW-103	EPA 6010	ICP/1761		
4011200003	MW-102	EPA 6010	ICP/1761		
4011200004	MW-101	EPA 6010	ICP/1761		

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CHAIN OF CUSTODY

*Preservation Codes
A=None B=HCL C=H2SO4 D=HNO3 E=DI Water F=Methanol G=NaOH
H=Sodium Bisulfate Solution I=Sodium Thiosulfate J=Other

(Please Print Clearly)

Company Name:	RMT
Branch/Location:	Madison
Project Contact:	Lance Bakken/Jim Buss
Phone:	(608) 831-4444
Project Number:	2541.29
Project Name:	Dana Roscoe
Project State:	IL
Sampled By (Print):	Lance Bakken
Sampled By (Sign):	Lance Bakken
PO #:	Regulatory Program:

Quote #:	
Mail To Contact:	Jim Buss
Mail To Company:	RMT
Mail To Address:	Madison
Invoice To Contact:	Same
Invoice To Company:	
Invoice To Address:	
Invoice To Phone:	

Data Package Options (billable)
- ☐ EPA Level III
- ☐ EPA Level IV

MS/MSD
- ☐ On your sample (billable)
- ☐ NOT needed on your sample

Matrix Codes
A = Air, W = Water, B = Biota, DW = Drinking Water, C = Charcoal, GW = Ground Water, O = Oil, SW = Surface Water, S = Soil, WW = Waste Water, Sl = Sludge, WP = Wipe

PACE LAB #	CLIENT FIELD ID	COLLECTION DATE	COLLECTION TIME	MATRIX	VOC 8260B (Y/N: N, Pick Letter: B)	Sulfate (Y/N: N, Pick Letter: A)	Nitrate Manganese Fe (Y/N: Y, Pick Letter: D)	CLIENT COMMENTS	LAB COMMENTS (Lab Use Only)	Profile #
001	MW-104	11/6	1120	GW	X	X	X	Short Hold Time	2-250mL A,D ; 5-40mL	
002	MW-103	↓	1220	↓	X	X	X		2-250mL A,D ; 3-40mL	
003	MW-102		1330		X	X	X		↓	
004	MW-101		1500		X	X	X			
005	TripBlank								2-40mL	

Rush Turnaround Time Requested - Prelims
(Rush TAT subject to approval/surcharge)
Date Needed:

Transmit Prelim Rush Results by (complete what you want):

Email #1:	
Email #2:	
Telephone:	
Fax:	

Samples on HOLD are subject to special pricing and release of liability

Relinquished By:	Date/Time:	Received By:	Date/Time:
[signature]	11/6/08 1730		
[signature]	11/7/08 1015	[signature]	11/7/08 1015

PACE Project No. 4011200

Receipt Temp = 1° °C

Sample Receipt pH OK / Adjusted

Cooler Custody Seal Present / Not Present Intact / Not Intact

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1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

December 04, 2008

JIM BUSS
RMT MADISON
744 HEARTLAND TRAIL
Madison, WI 537171934

RE: Project: 2541.29 DANA ROSCOE
Pace Project No.: 4011836

Dear JIM BUSS:
Enclosed are the analytical results for sample(s) received by the laboratory on November 25, 2008. The results relate only to the samples included in this report. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

for Tod N.

Tod Noltemeyer

tod.noltemeyer@pacelabs.com
Project Manager

Enclosures

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CERTIFICATIONS

Project: 2541.29 DANA ROSCOE
Pace Project No.: 4011836

Green Bay Certification IDs

Louisiana Certification #: 04169
Louisiana Certification #: 04168
Kentucky Certification #: 83
Kentucky Certification #: 82
Wisconsin DATCP Certification #: 105-444
Wisconsin DATCP Certification #: 105-444
Wisconsin Certification #: 405132750
Wisconsin Certification #: 405132750
South Carolina Certification #: 83006001
South Carolina Certification #: 83006001
Minnesota Certification #: 055-999-334
Minnesota Certification #: 055-999-334
North Carolina Certification #: 503
North Carolina Certification #: 503
North Dakota Certification #: R-200
North Dakota Certification #: R-150
New York Certification #: 11888
New York Certification #: 11887
Illinois Certification #: 200051
Illinois Certification #: 200050
Florida (NELAP) Certification #: E87951
Florida (NELAP) Certification #: E87948

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SAMPLE SUMMARY

Project: 2541.29 DANA ROSCOE
Pace Project No.: 4011836

Lab ID	Sample ID	Matrix	Date Collected	Date Received
4011836001	**MW-104**	Water	11/24/08 12:10	11/25/08 10:25
4011836002	**MW-103**	Water	11/24/08 13:30	11/25/08 10:25
4011836003	**MW-102**	Water	11/24/08 14:35	11/25/08 10:25
4011836004	**MW-101**	Water	11/24/08 15:30	11/25/08 10:25
4011836005	**TRIP BLANK**	Water	11/24/08 00:00	11/25/08 10:25

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SAMPLE ANALYTE COUNT

Project: 2541.29 DANA ROSCOE
Pace Project No.: 4011836

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
4011836001	MW-104	EPA 300.0	DDY	2	PASI-G
		EPA 6010	DLB	2	PASI-G
		EPA 8260	SMT	14	PASI-G
4011836002	MW-103	EPA 300.0	DDY	2	PASI-G
		EPA 6010	DLB	2	PASI-G
		EPA 8260	SMT	14	PASI-G
4011836003	MW-102	EPA 300.0	DDY	2	PASI-G
		EPA 6010	DLB	2	PASI-G
		EPA 8260	SMT	14	PASI-G
4011836004	MW-101	EPA 300.0	DDY	2	PASI-G
		EPA 6010	DLB	2	PASI-G
		EPA 8260	SMT	14	PASI-G
4011836005	TRIP BLANK	EPA 8260	SMT	14	PASI-G

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PROJECT NARRATIVE

Project: 2541.29 DANA ROSCOE
Pace Project No.: 4011836

Method: **EPA 6010**
Description: 6010 MET ICP, Dissolved
Client: RMT MADISON
Date: December 04, 2008

General Information:
4 samples were analyzed for EPA 6010. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: 2541.29 DANA ROSCOE
Pace Project No.: 4011836

Method: **EPA 8260**
Description: 8260 MSV
Client: RMT MADISON
Date: December 04, 2008

General Information:
5 samples were analyzed for EPA 8260. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Internal Standards:
All internal standards were within QC limits with any exceptions noted below.

Surrogates:
All surrogates were within QC limits with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: 2541.29 DANA ROSCOE
Pace Project No.: 4011836

Method: **EPA 300.0**
Description: 300.0 IC Anions
Client: RMT MADISON
Date: December 04, 2008

General Information:
4 samples were analyzed for EPA 300.0. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: 2541.29 DANA ROSCOE
Pace Project No.: 4011836

Method: **EPA 300.0**
Description: 300.0 IC Anions 28 Days
Client: RMT MADISON
Date: December 04, 2008

General Information:
4 samples were analyzed for EPA 300.0. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.

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ANALYTICAL RESULTS

Project: 2541.29 DANA ROSCOE
Pace Project No.: 4011836

Sample: MW-104 **Lab ID: 4011836001** Collected: 11/24/08 12:10 Received: 11/25/08 10:25 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, Dissolved	Analytical Method: EPA 6010								
Iron, Dissolved	**644**	ug/L	100	6.9	1		12/02/08 01:13	7439-89-6	
Manganese, Dissolved	**950**	ug/L	5.0	0.48	1		12/02/08 01:13	7439-96-5	
8260 MSV	Analytical Method: EPA 8260								
1,1,1-Trichloroethane	**1.8**	ug/L	1.0	0.90	1		12/03/08 09:20	71-55-6	
1,1-Dichloroethane	**<1.0**	ug/L	1.0	0.75	1		12/03/08 09:20	75-34-3	
1,4-Dichlorobenzene	**<1.0**	ug/L	1.0	0.95	1		12/03/08 09:20	106-46-7	
Dichlorodifluoromethane	**<1.0**	ug/L	1.0	0.99	1		12/03/08 09:20	75-71-8	
Methylene Chloride	**<1.0**	ug/L	1.0	0.43	1		12/03/08 09:20	75-09-2	
Tetrachloroethene	**<1.0**	ug/L	1.0	0.45	1		12/03/08 09:20	127-18-4	
Toluene	**<1.0**	ug/L	1.0	0.67	1		12/03/08 09:20	108-88-3	
Trichloroethene	**126**	ug/L	1.0	0.48	1		12/03/08 09:20	79-01-6	
Vinyl chloride	**<1.0**	ug/L	1.0	0.18	1		12/03/08 09:20	75-01-4	
cis-1,2-Dichloroethene	**51.0**	ug/L	1.0	0.83	1		12/03/08 09:20	156-59-2	
trans-1,2-Dichloroethene	**<1.0**	ug/L	1.0	0.89	1		12/03/08 09:20	156-60-5	
4-Bromofluorobenzene (S)	93	%	64-132		1		12/03/08 09:20	460-00-4	
Dibromofluoromethane (S)	95	%	68-122		1		12/03/08 09:20	1868-53-7	
Toluene-d8 (S)	102	%	73-127		1		12/03/08 09:20	2037-26-5	
300.0 IC Anions	Analytical Method: EPA 300.0								
Nitrate as N	**<0.40**	mg/L	0.40	0.085	1		11/26/08 04:16	14797-55-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Sulfate	**12.6**	mg/L	4.0	0.51	1		11/26/08 04:16	14808-79-8	

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ANALYTICAL RESULTS

Project: 2541.29 DANA ROSCOE
Pace Project No.: 4011836

Sample: MW-103 **Lab ID: 4011836002** Collected: 11/24/08 13:30 Received: 11/25/08 10:25 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, Dissolved	Analytical Method: EPA 6010								
Iron, Dissolved	**2770**	ug/L	100	6.9	1		12/02/08 01:32	7439-89-6	
Manganese, Dissolved	**1170**	ug/L	5.0	0.48	1		12/02/08 01:32	7439-96-5	
8260 MSV	Analytical Method: EPA 8260								
1,1,1-Trichloroethane	**<1.0**	ug/L	1.0	0.90	1		12/03/08 16:39	71-55-6	
1,1-Dichloroethane	**<1.0**	ug/L	1.0	0.75	1		12/03/08 16:39	75-34-3	
1,4-Dichlorobenzene	**<1.0**	ug/L	1.0	0.95	1		12/03/08 16:39	106-46-7	
Dichlorodifluoromethane	**<1.0**	ug/L	1.0	0.99	1		12/03/08 16:39	75-71-8	
Methylene Chloride	**<1.0**	ug/L	1.0	0.43	1		12/03/08 16:39	75-09-2	
Tetrachloroethene	**<1.0**	ug/L	1.0	0.45	1		12/03/08 16:39	127-18-4	
Toluene	**<1.0**	ug/L	1.0	0.67	1		12/03/08 16:39	108-88-3	
Trichloroethene	**78.2**	ug/L	1.0	0.48	1		12/03/08 16:39	79-01-6	
Vinyl chloride	**<1.0**	ug/L	1.0	0.18	1		12/03/08 16:39	75-01-4	
cis-1,2-Dichloroethene	**23.3**	ug/L	1.0	0.83	1		12/03/08 16:39	156-59-2	
trans-1,2-Dichloroethene	**<1.0**	ug/L	1.0	0.89	1		12/03/08 16:39	156-60-5	
4-Bromofluorobenzene (S)	98	%	64-132		1		12/03/08 16:39	460-00-4	
Dibromofluoromethane (S)	97	%	68-122		1		12/03/08 16:39	1868-53-7	
Toluene-d8 (S)	107	%	73-127		1		12/03/08 16:39	2037-26-5	
300.0 IC Anions	Analytical Method: EPA 300.0								
Nitrate as N	**<0.40**	mg/L	0.40	0.085	1		11/26/08 04:30	14797-55-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Sulfate	**7.3**	mg/L	4.0	0.51	1		11/26/08 04:30	14808-79-8	

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ANALYTICAL RESULTS

Project: 2541.29 DANA ROSCOE
Pace Project No.: 4011836

Sample: MW-102 **Lab ID: 4011836003** Collected: 11/24/08 14:35 Received: 11/25/08 10:25 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, Dissolved	Analytical Method: EPA 6010								
Iron, Dissolved	**6300**	ug/L	100	6.9	1		12/02/08 01:36	7439-89-6	
Manganese, Dissolved	**810**	ug/L	5.0	0.48	1		12/02/08 01:36	7439-96-5	
8260 MSV	Analytical Method: EPA 8260								
1,1,1-Trichloroethane	**<1.0**	ug/L	1.0	0.90	1		12/03/08 17:03	71-55-6	
1,1-Dichloroethane	**<1.0**	ug/L	1.0	0.75	1		12/03/08 17:03	75-34-3	
1,4-Dichlorobenzene	**<1.0**	ug/L	1.0	0.95	1		12/03/08 17:03	106-46-7	
Dichlorodifluoromethane	**<1.0**	ug/L	1.0	0.99	1		12/03/08 17:03	75-71-8	
Methylene Chloride	**<1.0**	ug/L	1.0	0.43	1		12/03/08 17:03	75-09-2	
Tetrachloroethene	**<1.0**	ug/L	1.0	0.45	1		12/03/08 17:03	127-18-4	
Toluene	**<1.0**	ug/L	1.0	0.67	1		12/03/08 17:03	108-88-3	
Trichloroethene	**43.7**	ug/L	1.0	0.48	1		12/03/08 17:03	79-01-6	
Vinyl chloride	**<1.0**	ug/L	1.0	0.18	1		12/03/08 17:03	75-01-4	
cis-1,2-Dichloroethene	**11.7**	ug/L	1.0	0.83	1		12/03/08 17:03	156-59-2	
trans-1,2-Dichloroethene	**<1.0**	ug/L	1.0	0.89	1		12/03/08 17:03	156-60-5	
4-Bromofluorobenzene (S)	94	%	64-132		1		12/03/08 17:03	460-00-4	
Dibromofluoromethane (S)	95	%	68-122		1		12/03/08 17:03	1868-53-7	
Toluene-d8 (S)	105	%	73-127		1		12/03/08 17:03	2037-26-5	
300.0 IC Anions	Analytical Method: EPA 300.0								
Nitrate as N	**<0.40**	mg/L	0.40	0.085	1		11/26/08 04:44	14797-55-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Sulfate	**9.6**	mg/L	4.0	0.51	1		11/26/08 04:44	14808-79-8	

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ANALYTICAL RESULTS

Project: 2541.29 DANA ROSCOE
Pace Project No.: 4011836

Sample: MW-101 **Lab ID: 4011836004** Collected: 11/24/08 15:30 Received: 11/25/08 10:25 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, Dissolved	Analytical Method: EPA 6010								
Iron, Dissolved	**14700**	ug/L	100	6.9	1		12/02/08 01:40	7439-89-6	
Manganese, Dissolved	**273**	ug/L	5.0	0.48	1		12/02/08 01:40	7439-96-5	
8260 MSV	Analytical Method: EPA 8260								
1,1,1-Trichloroethane	**<1.0**	ug/L	1.0	0.90	1		12/03/08 17:26	71-55-6	
1,1-Dichloroethane	**<1.0**	ug/L	1.0	0.75	1		12/03/08 17:26	75-34-3	
1,4-Dichlorobenzene	**<1.0**	ug/L	1.0	0.95	1		12/03/08 17:26	106-46-7	
Dichlorodifluoromethane	**<1.0**	ug/L	1.0	0.99	1		12/03/08 17:26	75-71-8	
Methylene Chloride	**<1.0**	ug/L	1.0	0.43	1		12/03/08 17:26	75-09-2	
Tetrachloroethene	**<1.0**	ug/L	1.0	0.45	1		12/03/08 17:26	127-18-4	
Toluene	**<1.0**	ug/L	1.0	0.67	1		12/03/08 17:26	108-88-3	
Trichloroethene	**12.9**	ug/L	1.0	0.48	1		12/03/08 17:26	79-01-6	
Vinyl chloride	**<1.0**	ug/L	1.0	0.18	1		12/03/08 17:26	75-01-4	
cis-1,2-Dichloroethene	**3.2**	ug/L	1.0	0.83	1		12/03/08 17:26	156-59-2	
trans-1,2-Dichloroethene	**<1.0**	ug/L	1.0	0.89	1		12/03/08 17:26	156-60-5	
4-Bromofluorobenzene (S)	93	%	64-132		1		12/03/08 17:26	460-00-4	
Dibromofluoromethane (S)	99	%	68-122		1		12/03/08 17:26	1868-53-7	
Toluene-d8 (S)	105	%	73-127		1		12/03/08 17:26	2037-26-5	
300.0 IC Anions	Analytical Method: EPA 300.0								
Nitrate as N	**0.51**	mg/L	0.40	0.085	1		11/26/08 04:58	14797-55-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Sulfate	**11.6**	mg/L	4.0	0.51	1		11/26/08 04:58	14808-79-8	

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ANALYTICAL RESULTS

Project: 2541.29 DANA ROSCOE
Pace Project No.: 4011836

Sample: TRIP BLANK **Lab ID: 4011836005** Collected: 11/24/08 00:00 Received: 11/25/08 10:25 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
1,1,1-Trichloroethane	**<1.0**	ug/L	1.0	0.90	1		12/03/08 09:44	71-55-6	
1,1-Dichloroethane	**<1.0**	ug/L	1.0	0.75	1		12/03/08 09:44	75-34-3	
1,4-Dichlorobenzene	**<1.0**	ug/L	1.0	0.95	1		12/03/08 09:44	106-46-7	
Dichlorodifluoromethane	**<1.0**	ug/L	1.0	0.99	1		12/03/08 09:44	75-71-8	
Methylene Chloride	**<1.0**	ug/L	1.0	0.43	1		12/03/08 09:44	75-09-2	
Tetrachloroethene	**<1.0**	ug/L	1.0	0.45	1		12/03/08 09:44	127-18-4	
Toluene	**<1.0**	ug/L	1.0	0.67	1		12/03/08 09:44	108-88-3	
Trichloroethene	**<1.0**	ug/L	1.0	0.48	1		12/03/08 09:44	79-01-6	
Vinyl chloride	**<1.0**	ug/L	1.0	0.18	1		12/03/08 09:44	75-01-4	
cis-1,2-Dichloroethene	**<1.0**	ug/L	1.0	0.83	1		12/03/08 09:44	156-59-2	
trans-1,2-Dichloroethene	**<1.0**	ug/L	1.0	0.89	1		12/03/08 09:44	156-60-5	
4-Bromofluorobenzene (S)	103	%	64-132		1		12/03/08 09:44	460-00-4	
Dibromofluoromethane (S)	91	%	68-122		1		12/03/08 09:44	1868-53-7	
Toluene-d8 (S)	107	%	73-127		1		12/03/08 09:44	2037-26-5	

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QUALITY CONTROL DATA

Project: 2541.29 DANA ROSCOE
Pace Project No.: 4011836

QC Batch: WETA/2846 Analysis Method: EPA 300.0
QC Batch Method: EPA 300.0 Analysis Description: 300.0 IC Anions
Associated Lab Samples: 4011836001, 4011836002, 4011836003, 4011836004

METHOD BLANK: 106269 Matrix: Water
Associated Lab Samples: 4011836001, 4011836002, 4011836003, 4011836004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrate as N	mg/L	<0.40	0.40	11/26/08 03:47	

LABORATORY CONTROL SAMPLE: 106270

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrate as N	mg/L	1.6	1.6	99	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 106271 106272

Parameter	Units	4011839001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Nitrate as N	mg/L	<0.085	1.6	1.6	1.6	1.6	100	99	90-110	.6	20	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 2541.29 DANA ROSCOE
Pace Project No.: 4011836

QC Batch: WETA/2847 Analysis Method: EPA 300.0
QC Batch Method: EPA 300.0 Analysis Description: 300.0 IC Anions
Associated Lab Samples: 4011836001, 4011836002, 4011836003, 4011836004

METHOD BLANK: 106283 Matrix: Water
Associated Lab Samples: 4011836001, 4011836002, 4011836003, 4011836004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Sulfate	mg/L	<4.0	4.0	11/26/08 03:47	

LABORATORY CONTROL SAMPLE: 106284

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Sulfate	mg/L	16	15.8	98	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 106285 106286

Parameter	Units	4011839001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Sulfate	mg/L	17.2	16	16	33.2	33.0	99	99	90-110	.4	20	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 2541.29 DANA ROSCOE
Pace Project No.: 4011836

QC Batch: ICP/1825 Analysis Method: EPA 6010
QC Batch Method: EPA 6010 Analysis Description: ICP Metals, Trace, Dissolved
Associated Lab Samples: 4011836001, 4011836002, 4011836003, 4011836004

METHOD BLANK: 107190 Matrix: Water
Associated Lab Samples: 4011836001, 4011836002, 4011836003, 4011836004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Iron, Dissolved	ug/L	<100	100	12/02/08 01:05	
Manganese, Dissolved	ug/L	<5.0	5.0	12/02/08 01:05	

LABORATORY CONTROL SAMPLE: 107191

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Iron, Dissolved	ug/L	5000	5010	100	80-120	
Manganese, Dissolved	ug/L	500	525	105	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 107192 107193

Parameter	Units	4011836001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Iron, Dissolved	ug/L	644	5000	5000	5390	5450	95	96	75-125	1	20	
Manganese, Dissolved	ug/L	950	500	500	1450	1460	100	102	75-125	.6	20	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 2541.29 DANA ROSCOE
Pace Project No.: 4011836

QC Batch: MSV/3291 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV
Associated Lab Samples: 4011836001, 4011836002, 4011836003, 4011836004, 4011836005

METHOD BLANK: 107387 Matrix: Water
Associated Lab Samples: 4011836001, 4011836002, 4011836003, 4011836004, 4011836005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	<1.0	1.0	12/03/08 07:22	
1,1-Dichloroethane	ug/L	<1.0	1.0	12/03/08 07:22	
1,4-Dichlorobenzene	ug/L	<1.0	1.0	12/03/08 07:22	
cis-1,2-Dichloroethene	ug/L	<1.0	1.0	12/03/08 07:22	
Dichlorodifluoromethane	ug/L	<1.0	1.0	12/03/08 07:22	
Methylene Chloride	ug/L	<1.0	1.0	12/03/08 07:22	
Tetrachloroethene	ug/L	<1.0	1.0	12/03/08 07:22	
Toluene	ug/L	<1.0	1.0	12/03/08 07:22	
trans-1,2-Dichloroethene	ug/L	<1.0	1.0	12/03/08 07:22	
Trichloroethene	ug/L	<1.0	1.0	12/03/08 07:22	
Vinyl chloride	ug/L	<1.0	1.0	12/03/08 07:22	
4-Bromofluorobenzene (S)	%	94	64-132	12/03/08 07:22	
Dibromofluoromethane (S)	%	90	68-122	12/03/08 07:22	
Toluene-d8 (S)	%	105	73-127	12/03/08 07:22	

LABORATORY CONTROL SAMPLE & LCSD: 107388 107389

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
1,1,1-Trichloroethane	ug/L	50	52.8	50.6	106	101	75-128	4	20	
1,1-Dichloroethane	ug/L	50	49.3	46.0	99	92	71-130	7	20	
cis-1,2-Dichloroethene	ug/L	50	48.7	46.7	97	93	75-125	4	20	
Methylene Chloride	ug/L	50	50.8	47.6	102	95	75-125	6	20	
Tetrachloroethene	ug/L	50	56.8	55.3	114	111	75-130	3	20	
Toluene	ug/L	50	51.4	50.1	103	100	75-125	2	20	
trans-1,2-Dichloroethene	ug/L	50	47.5	45.0	95	90	75-125	5	20	
Trichloroethene	ug/L	50	54.5	52.8	109	106	75-125	3	20	
Vinyl chloride	ug/L	50	48.4	46.2	97	92	65-130	5	20	
4-Bromofluorobenzene (S)	%				99	98	64-132			
Dibromofluoromethane (S)	%				100	96	68-122			
Toluene-d8 (S)	%				105	107	73-127			

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 107390 107391

Parameter	Units	4011836001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,1,1-Trichloroethane	ug/L	1.8	50	50	54.6	53.5	105	103	70-130	2	30	
1,1-Dichloroethane	ug/L	<1.0	50	50	47.6	50.5	93	99	70-130	6	30	
cis-1,2-Dichloroethene	ug/L	51.0	50	50	99.8	99.8	98	98	70-130	.03	30	
Methylene Chloride	ug/L	<1.0	50	50	49.5	50.3	99	101	70-130	2	30	
Tetrachloroethene	ug/L	<1.0	50	50	54.8	56.5	110	113	70-130	3	30	

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QUALITY CONTROL DATA

Project: 2541.29 DANA ROSCOE
Pace Project No.: 4011836

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 107390 107391

Parameter	Units	4011836001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Toluene	ug/L	<1.0	50	50	49.1	50.8	98	102	70-130	3	30	
trans-1,2-Dichloroethene	ug/L	<1.0	50	50	46.7	48.2	93	96	70-130	3	30	
Trichloroethene	ug/L	126	50	50	185	186	117	119	70-130	.7	30	
Vinyl chloride	ug/L	<1.0	50	50	46.9	44.6	94	89	62-138	5	30	
4-Bromofluorobenzene (S)	%						102	101	64-132			
Dibromofluoromethane (S)	%						97	100	68-122			
Toluene-d8 (S)	%						104	105	73-127			

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QUALIFIERS

Project: 2541.29 DANA ROSCOE
Pace Project No.: 4011836

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

Pace Analytical is NELAP accredited. Contact your Pace PM for the current list of accredited analytes.

LABORATORIES

PASI-G Pace Analytical Services - Green Bay

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 2541.29 DANA ROSCOE
Pace Project No.: 4011836

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
4011836001	MW-104	EPA 300.0	WETA/2846		
4011836002	MW-103	EPA 300.0	WETA/2846		
4011836003	MW-102	EPA 300.0	WETA/2846		
4011836004	MW-101	EPA 300.0	WETA/2846		
4011836001	MW-104	EPA 300.0	WETA/2847		
4011836002	MW-103	EPA 300.0	WETA/2847		
4011836003	MW-102	EPA 300.0	WETA/2847		
4011836004	MW-101	EPA 300.0	WETA/2847		
4011836001	MW-104	EPA 6010	ICP/1825		
4011836002	MW-103	EPA 6010	ICP/1825		
4011836003	MW-102	EPA 6010	ICP/1825		
4011836004	MW-101	EPA 6010	ICP/1825		
4011836001	MW-104	EPA 8260	MSV/3291		
4011836002	MW-103	EPA 8260	MSV/3291		
4011836003	MW-102	EPA 8260	MSV/3291		
4011836004	MW-101	EPA 8260	MSV/3291		
4011836005	TRIP BLANK	EPA 8260	MSV/3291		

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CHAIN OF CUSTODY

*Preservation Codes
A=None B=HCL C=H2SO4 D=HNO3 E=DI Water F=Methanol G=NaOH
H=Sodium Bisulfate Solution I=Sodium Thiosulfate J=Other

(Please Print Clearly)

Company Name:	~~AECOM~~ RMT
Branch/Location:	Madison
Project Contact:	Lance Bakken / Jim Buss
Phone:	608-831-4444
Project Number:	2541.29
Project Name:	Dana Roscoe
Project State:	IL
Sampled By (Print):	Lance Bakken
Sampled By (Sign):	[signature]
PO #:	Regulatory Program:

Quote #:	
Mail To Contact:	Jim Buss
Mail To Company:	RMT
Mail To Address:	Madison
Invoice To Contact:	Same
Invoice To Company:	
Invoice To Address:	
Invoice To Phone:	

Data Package Options (billable)
- ☐ EPA Level III
- ☐ EPA Level IV

MS/MSD
- ☐ On your sample (billable)
- ☐ NOT needed on your sample

Matrix Codes
A = Air, B = Biota, C = Charcoal, O = Oil, S = Soil, Sl = Sludge, W = Water, DW = Drinking Water, GW = Ground Water, SW = Surface Water, WW = Waste Water, WP = Wipe

PACE LAB #	CLIENT FIELD ID	COLLECTION DATE	COLLECTION TIME	MATRIX	VOC (8260)	Sulfate Nitrate	Manganese Fe	CLIENT COMMENTS	LAB COMMENTS (Lab Use Only)	Profile #
				FILTERED? (YES/NO) Y/N	N	N	Y			
				PRESERVATION (CODE)* Pick Letter	B	A	D			
001	MW-104	11/24	1210	GW	X	X	X	MS/MSD	5-40mL-B, 1-250mL-C, 1-250mL-D	
002	MW-103		1330	GW	X	X	X		3-40mL-B, 1-250mL-poly C, 1-250mL-poly D	
003	MW-102		1435	GW	X	X	X			
004	MW-101		1530	GW	X	X	X			
005	Trip Blank				X				2-40mL-A	

Rush Turnaround Time Requested - Prelims
(Rush TAT subject to approval/surcharge)
Date Needed:

Transmit Prelim Rush Results by (complete what you want):
Email #1:
Email #2:
Telephone:
Fax:

Samples on HOLD are subject to special pricing and release of liability

Relinquished By:	Date/Time:	Received By:	Date/Time:
[signature]	11/24/08 1745		
~~[signature]~~ Fed Ex	11-25-08 1025	[signature]	11-25-08 1025
~~[signature]~~			

PACE Project No. 40118836
Receipt Temp = [illegible] °C
Sample Receipt pH OK / Adjusted
Cooler Custody Seal Present / Not Present
Intact / Not Intact

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December 29, 2008

JIM BUSS
RMT MADISON
744 HEARTLAND TRAIL
Madison, WI 537171934

RE: Project: 2541.29 DANA ROSCOE
Pace Project No.: 4012516

Dear JIM BUSS:
Enclosed are the analytical results for sample(s) received by the laboratory on December 16, 2008. The results relate only to the samples included in this report. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Tod Noltemeyer

Tod Noltemeyer

tod.noltemeyer@pacelabs.com
Project Manager

Enclosures

REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: 2541.29 DANA ROSCOE
Pace Project No.: 4012516

Green Bay Certification IDs

Wisconsin DATCP Certification #: 105-444
Wisconsin DATCP Certification #: 105-444
Wisconsin Certification #: 405132750
Wisconsin Certification #: 405132750
South Carolina Certification #: 83006001
South Carolina Certification #: 83006001
North Dakota Certification #: R-200
North Dakota Certification #: R-150
North Carolina Certification #: 503
North Carolina Certification #: 503
New York Certification #: 11888
New York Certification #: 11887
Minnesota Certification #: 055-999-334
Minnesota Certification #: 055-999-334
Louisiana Certification #: 04169
Louisiana Certification #: 04168
Kentucky Certification #: 83
Kentucky Certification #: 82
Illinois Certification #: 200051
Illinois Certification #: 200050
Florida/NELAP Certification #: E87951
Florida/NELAP Certification #: E87948

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SAMPLE SUMMARY

Project: 2541.29 DANA ROSCOE
Pace Project No.: 4012516

Lab ID	Sample ID	Matrix	Date Collected	Date Received
4012516001	**MW-104**	Water	12/15/08 11:35	12/16/08 09:00
4012516002	**MW-103**	Water	12/15/08 12:25	12/16/08 09:00
4012516003	**MW-102**	Water	12/15/08 13:25	12/16/08 09:00
4012516004	**MW-101**	Water	12/15/08 14:25	12/16/08 09:00

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SAMPLE ANALYTE COUNT

Project: 2541.29 DANA ROSCOE
Pace Project No.: 4012516

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
4012516001	**MW-104**	EPA 300.0	DDY	2	PASI-G
		EPA 6010	DLB	2	PASI-G
		EPA 8260	SMT	14	PASI-G
4012516002	**MW-103**	EPA 300.0	DDY	2	PASI-G
		EPA 6010	DLB	2	PASI-G
		EPA 8260	JJB	14	PASI-G
4012516003	**MW-102**	EPA 300.0	DDY	2	PASI-G
		EPA 6010	DLB	2	PASI-G
		EPA 8260	JJB	14	PASI-G
4012516004	**MW-101**	EPA 300.0	DDY	2	PASI-G
		EPA 6010	DLB	2	PASI-G
		EPA 8260	JJB	14	PASI-G

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PROJECT NARRATIVE

Project: 2541.29 DANA ROSCOE
Pace Project No.: 4012516

Method: **EPA 6010**
Description: 6010 MET ICP, Dissolved
Client: RMT MADISON
Date: December 29, 2008

General Information:
4 samples were analyzed for EPA 6010. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: 2541.29 DANA ROSCOE
Pace Project No.: 4012516

Method: **EPA 8260**
Description: 8260 MSV
Client: RMT MADISON
Date: December 29, 2008

General Information:
4 samples were analyzed for EPA 8260. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Internal Standards:
All internal standards were within QC limits with any exceptions noted below.

Surrogates:
All surrogates were within QC limits with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: 2541.29 DANA ROSCOE
Pace Project No.: 4012516

Method: **EPA 300.0**
Description: 300.0 IC Anions
Client: RMT MADISON
Date: December 29, 2008

General Information:
4 samples were analyzed for EPA 300.0. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: 2541.29 DANA ROSCOE
Pace Project No.: 4012516

Method: **EPA 300.0**
Description: 300.0 IC Anions 28 Days
Client: RMT MADISON
Date: December 29, 2008

General Information:
4 samples were analyzed for EPA 300.0. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.

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ANALYTICAL RESULTS

Project: 2541.29 DANA ROSCOE
Pace Project No.: 4012516

Sample: MW-104 **Lab ID: 4012516001** Collected: 12/15/08 11:35 Received: 12/16/08 09:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, Dissolved	Analytical Method: EPA 6010								
Iron, Dissolved	**557**	ug/L	100	6.9	1		12/17/08 15:14	7439-89-6	
Manganese, Dissolved	**800**	ug/L	5.0	0.48	1		12/17/08 15:14	7439-96-5	
8260 MSV	Analytical Method: EPA 8260								
1,1,1-Trichloroethane	**1.5**	ug/L	1.0	0.90	1		12/19/08 11:27	71-55-6	
1,1-Dichloroethane	**<1.0**	ug/L	1.0	0.75	1		12/19/08 11:27	75-34-3	
1,4-Dichlorobenzene	**<1.0**	ug/L	1.0	0.95	1		12/19/08 11:27	106-46-7	
Dichlorodifluoromethane	**<1.0**	ug/L	1.0	0.99	1		12/19/08 11:27	75-71-8	
Methylene Chloride	**<1.0**	ug/L	1.0	0.43	1		12/19/08 11:27	75-09-2	
Tetrachloroethene	**<1.0**	ug/L	1.0	0.45	1		12/19/08 11:27	127-18-4	
Toluene	**<1.0**	ug/L	1.0	0.67	1		12/19/08 11:27	108-88-3	
Trichloroethene	**109**	ug/L	1.0	0.48	1		12/19/08 11:27	79-01-6	
Vinyl chloride	**<1.0**	ug/L	1.0	0.18	1		12/19/08 11:27	75-01-4	
cis-1,2-Dichloroethene	**34.9**	ug/L	1.0	0.83	1		12/19/08 11:27	156-59-2	
trans-1,2-Dichloroethene	**<1.0**	ug/L	1.0	0.89	1		12/19/08 11:27	156-60-5	
4-Bromofluorobenzene (S)	99	%	64-132		1		12/19/08 11:27	460-00-4	
Dibromofluoromethane (S)	103	%	68-122		1		12/19/08 11:27	1868-53-7	
Toluene-d8 (S)	106	%	73-127		1		12/19/08 11:27	2037-26-5	
300.0 IC Anions	Analytical Method: EPA 300.0								
Nitrate as N	**<0.40**	mg/L	0.40	0.085	1		12/17/08 02:11	14797-55-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Sulfate	**10.5**	mg/L	4.0	0.51	1		12/17/08 02:11	14808-79-8	

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ANALYTICAL RESULTS

Project: 2541.29 DANA ROSCOE
Pace Project No.: 4012516

Sample: MW-103 **Lab ID: 4012516002** Collected: 12/15/08 12:25 Received: 12/16/08 09:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, Dissolved	Analytical Method: EPA 6010								
Iron, Dissolved	**3240**	ug/L	100	6.9	1		12/17/08 15:25	7439-89-6	
Manganese, Dissolved	**512**	ug/L	5.0	0.48	1		12/17/08 15:25	7439-96-5	
8260 MSV	Analytical Method: EPA 8260								
1,1,1-Trichloroethane	**<1.0**	ug/L	1.0	0.90	1		12/18/08 00:32	71-55-6	
1,1-Dichloroethane	**<1.0**	ug/L	1.0	0.75	1		12/18/08 00:32	75-34-3	
1,4-Dichlorobenzene	**<1.0**	ug/L	1.0	0.95	1		12/18/08 00:32	106-46-7	
Dichlorodifluoromethane	**<1.0**	ug/L	1.0	0.99	1		12/18/08 00:32	75-71-8	
Methylene Chloride	**<1.0**	ug/L	1.0	0.43	1		12/18/08 00:32	75-09-2	
Tetrachloroethene	**<1.0**	ug/L	1.0	0.45	1		12/18/08 00:32	127-18-4	
Toluene	**<1.0**	ug/L	1.0	0.67	1		12/18/08 00:32	108-88-3	
Trichloroethene	**62.0**	ug/L	1.0	0.48	1		12/18/08 00:32	79-01-6	
Vinyl chloride	**<1.0**	ug/L	1.0	0.18	1		12/18/08 00:32	75-01-4	
cis-1,2-Dichloroethene	**44.8**	ug/L	1.0	0.83	1		12/18/08 00:32	156-59-2	
trans-1,2-Dichloroethene	**<1.0**	ug/L	1.0	0.89	1		12/18/08 00:32	156-60-5	
4-Bromofluorobenzene (S)	87	%	64-132		1		12/18/08 00:32	460-00-4	
Dibromofluoromethane (S)	110	%	68-122		1		12/18/08 00:32	1868-53-7	
Toluene-d8 (S)	99	%	73-127		1		12/18/08 00:32	2037-26-5	
300.0 IC Anions	Analytical Method: EPA 300.0								
Nitrate as N	**<0.40**	mg/L	0.40	0.085	1		12/17/08 02:47	14797-55-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Sulfate	**4.4**	mg/L	4.0	0.51	1		12/17/08 02:47	14808-79-8	

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ANALYTICAL RESULTS

Project: 2541.29 DANA ROSCOE
Pace Project No.: 4012516

Sample: MW-102 **Lab ID: 4012516003** Collected: 12/15/08 13:25 Received: 12/16/08 09:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, Dissolved	Analytical Method: EPA 6010								
Iron, Dissolved	**4760**	ug/L	100	6.9	1		12/17/08 15:29	7439-89-6	
Manganese, Dissolved	**613**	ug/L	5.0	0.48	1		12/17/08 15:29	7439-96-5	
8260 MSV	Analytical Method: EPA 8260								
1,1,1-Trichloroethane	**<1.0**	ug/L	1.0	0.90	1		12/18/08 00:56	71-55-6	
1,1-Dichloroethane	**<1.0**	ug/L	1.0	0.75	1		12/18/08 00:56	75-34-3	
1,4-Dichlorobenzene	**<1.0**	ug/L	1.0	0.95	1		12/18/08 00:56	106-46-7	
Dichlorodifluoromethane	**<1.0**	ug/L	1.0	0.99	1		12/18/08 00:56	75-71-8	
Methylene Chloride	**<1.0**	ug/L	1.0	0.43	1		12/18/08 00:56	75-09-2	
Tetrachloroethene	**<1.0**	ug/L	1.0	0.45	1		12/18/08 00:56	127-18-4	
Toluene	**<1.0**	ug/L	1.0	0.67	1		12/18/08 00:56	108-88-3	
Trichloroethene	**23.3**	ug/L	1.0	0.48	1		12/18/08 00:56	79-01-6	
Vinyl chloride	**<1.0**	ug/L	1.0	0.18	1		12/18/08 00:56	75-01-4	
cis-1,2-Dichloroethene	**7.0**	ug/L	1.0	0.83	1		12/18/08 00:56	156-59-2	
trans-1,2-Dichloroethene	**<1.0**	ug/L	1.0	0.89	1		12/18/08 00:56	156-60-5	
4-Bromofluorobenzene (S)	88	%	64-132		1		12/18/08 00:56	460-00-4	
Dibromofluoromethane (S)	107	%	68-122		1		12/18/08 00:56	1868-53-7	
Toluene-d8 (S)	109	%	73-127		1		12/18/08 00:56	2037-26-5	
300.0 IC Anions	Analytical Method: EPA 300.0								
Nitrate as N	**<0.40**	mg/L	0.40	0.085	1		12/17/08 02:59	14797-55-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Sulfate	**10.5**	mg/L	4.0	0.51	1		12/17/08 02:59	14808-79-8	

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ANALYTICAL RESULTS

Project: 2541.29 DANA ROSCOE
Pace Project No.: 4012516

Sample: MW-101 **Lab ID: 4012516004** Collected: 12/15/08 14:25 Received: 12/16/08 09:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, Dissolved	Analytical Method: EPA 6010								
Iron, Dissolved	**12600**	ug/L	100	6.9	1		12/17/08 15:33	7439-89-6	
Manganese, Dissolved	**126**	ug/L	5.0	0.48	1		12/17/08 15:33	7439-96-5	
8260 MSV	Analytical Method: EPA 8260								
1,1,1-Trichloroethane	**<1.0**	ug/L	1.0	0.90	1		12/18/08 01:20	71-55-6	
1,1-Dichloroethane	**<1.0**	ug/L	1.0	0.75	1		12/18/08 01:20	75-34-3	
1,4-Dichlorobenzene	**<1.0**	ug/L	1.0	0.95	1		12/18/08 01:20	106-46-7	
Dichlorodifluoromethane	**<1.0**	ug/L	1.0	0.99	1		12/18/08 01:20	75-71-8	
Methylene Chloride	**<1.0**	ug/L	1.0	0.43	1		12/18/08 01:20	75-09-2	
Tetrachloroethene	**<1.0**	ug/L	1.0	0.45	1		12/18/08 01:20	127-18-4	
Toluene	**<1.0**	ug/L	1.0	0.67	1		12/18/08 01:20	108-88-3	
Trichloroethene	**6.4**	ug/L	1.0	0.48	1		12/18/08 01:20	79-01-6	
Vinyl chloride	**<1.0**	ug/L	1.0	0.18	1		12/18/08 01:20	75-01-4	
cis-1,2-Dichloroethene	**1.3**	ug/L	1.0	0.83	1		12/18/08 01:20	156-59-2	
trans-1,2-Dichloroethene	**<1.0**	ug/L	1.0	0.89	1		12/18/08 01:20	156-60-5	
4-Bromofluorobenzene (S)	87	%	64-132		1		12/18/08 01:20	460-00-4	
Dibromofluoromethane (S)	103	%	68-122		1		12/18/08 01:20	1868-53-7	
Toluene-d8 (S)	113	%	73-127		1		12/18/08 01:20	2037-26-5	
300.0 IC Anions	Analytical Method: EPA 300.0								
Nitrate as N	**<0.40**	mg/L	0.40	0.085	1		12/17/08 03:12	14797-55-8	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0								
Sulfate	**9.5**	mg/L	4.0	0.51	1		12/17/08 03:12	14808-79-8	

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QUALITY CONTROL DATA

Project: 2541.29 DANA ROSCOE
Pace Project No.: 4012516

QC Batch: WETA/2993 Analysis Method: EPA 300.0
QC Batch Method: EPA 300.0 Analysis Description: 300.0 IC Anions
Associated Lab Samples: 4012516001, 4012516002, 4012516003, 4012516004

METHOD BLANK: 112934 Matrix: Water
Associated Lab Samples: 4012516001, 4012516002, 4012516003, 4012516004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrate as N	mg/L	<0.40	0.40	12/17/08 01:46	

LABORATORY CONTROL SAMPLE: 112935

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrate as N	mg/L	1.6	1.7	104	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 112936 112937

Parameter	Units	4012516001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Nitrate as N	mg/L	<0.40	1.6	1.6	1.6	1.6	99	99	90-110	0	20	

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QUALITY CONTROL DATA

Project: 2541.29 DANA ROSCOE
Pace Project No.: 4012516

QC Batch: WETA/2994 Analysis Method: EPA 300.0
QC Batch Method: EPA 300.0 Analysis Description: 300.0 IC Anions
Associated Lab Samples: 4012516001, 4012516002, 4012516003, 4012516004

METHOD BLANK: 112938 Matrix: Water
Associated Lab Samples: 4012516001, 4012516002, 4012516003, 4012516004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Sulfate	mg/L	<4.0	4.0	12/17/08 01:46	

LABORATORY CONTROL SAMPLE: 112939

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Sulfate	mg/L	16	16.4	103	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 112940 112941

Parameter	Units	4012516001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Sulfate	mg/L	10.5	16	16	26.6	26.7	101	101	90-110	.2	20	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 2541.29 DANA ROSCOE
Pace Project No.: 4012516

QC Batch: MSV/3398 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV
Associated Lab Samples: 4012516002, 4012516003, 4012516004

METHOD BLANK: 113077 Matrix: Water
Associated Lab Samples: 4012516002, 4012516003, 4012516004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	<1.0	1.0	12/17/08 18:37	
1,1-Dichloroethane	ug/L	<1.0	1.0	12/17/08 18:37	
1,4-Dichlorobenzene	ug/L	<1.0	1.0	12/17/08 18:37	
cis-1,2-Dichloroethene	ug/L	<1.0	1.0	12/17/08 18:37	
Dichlorodifluoromethane	ug/L	<1.0	1.0	12/17/08 18:37	
Methylene Chloride	ug/L	<1.0	1.0	12/17/08 18:37	
Tetrachloroethene	ug/L	<1.0	1.0	12/17/08 18:37	
Toluene	ug/L	<1.0	1.0	12/17/08 18:37	
trans-1,2-Dichloroethene	ug/L	<1.0	1.0	12/17/08 18:37	
Trichloroethene	ug/L	<1.0	1.0	12/17/08 18:37	
Vinyl chloride	ug/L	<1.0	1.0	12/17/08 18:37	
4-Bromofluorobenzene (S)	%	87	64-132	12/17/08 18:37	
Dibromofluoromethane (S)	%	93	68-122	12/17/08 18:37	
Toluene-d8 (S)	%	107	73-127	12/17/08 18:37	

LABORATORY CONTROL SAMPLE & LCSD: 113078 113079

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
1,1,1-Trichloroethane	ug/L	50	52.3	52.4	105	105	75-128	.1	20	
1,1-Dichloroethane	ug/L	50	51.8	52.3	104	105	71-130	1	20	
cis-1,2-Dichloroethene	ug/L	50	54.5	55.0	109	110	75-125	.9	20	
Methylene Chloride	ug/L	50	53.2	53.3	106	107	75-125	.1	20	
Tetrachloroethene	ug/L	50	51.1	53.8	102	108	75-130	5	20	
Toluene	ug/L	50	53.4	53.6	107	107	75-125	.4	20	
trans-1,2-Dichloroethene	ug/L	50	55.5	55.8	111	112	75-125	.6	20	
Trichloroethene	ug/L	50	52.9	53.2	106	106	75-125	.6	20	
Vinyl chloride	ug/L	50	50.1	50.5	100	101	65-130	.8	20	
4-Bromofluorobenzene (S)	%				93	90	64-132			
Dibromofluoromethane (S)	%				96	95	68-122			
Toluene-d8 (S)	%				106	104	73-127			

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 113080 113081

Parameter	Units	4012552003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,1,1-Trichloroethane	ug/L	<45.0	2500	2500	2710	2660	108	107	70-130	2	30	
1,1-Dichloroethane	ug/L	<37.5	2500	2500	2650	2650	106	106	70-130	.05	30	
cis-1,2-Dichloroethene	ug/L	<41.5	2500	2500	2770	2740	111	109	70-130	1	30	
Methylene Chloride	ug/L	<21.5	2500	2500	2710	2720	108	109	70-130	.4	30	
Tetrachloroethene	ug/L	<22.5	2500	2500	2710	2680	108	107	70-130	1	30	

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QUALITY CONTROL DATA

Project: 2541.29 DANA ROSCOE
Pace Project No.: 4012516

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 113080 113081

Parameter	Units	4012552003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Toluene	ug/L	<33.5	2500	2500	2880	2800	114	111	70-130	3	30	
trans-1,2-Dichloroethene	ug/L	<44.5	2500	2500	2810	2740	112	109	70-130	3	30	
Trichloroethene	ug/L	<24.0	2500	2500	2640	2680	105	107	70-130	2	30	
Vinyl chloride	ug/L	<9.0	2500	2500	2550	2530	102	101	62-138	.8	30	
4-Bromofluorobenzene (S)	%						96	96	64-132			
Dibromofluoromethane (S)	%						99	96	68-122			
Toluene-d8 (S)	%						110	104	73-127			

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QUALITY CONTROL DATA

Project: 2541.29 DANA ROSCOE
Pace Project No.: 4012516

QC Batch: ICP/1868 Analysis Method: EPA 6010
QC Batch Method: EPA 6010 Analysis Description: ICP Metals, Trace, Dissolved
Associated Lab Samples: 4012516001, 4012516002, 4012516003, 4012516004

METHOD BLANK: 113233 Matrix: Water
Associated Lab Samples: 4012516001, 4012516002, 4012516003, 4012516004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Iron, Dissolved	ug/L	<100	100	12/17/08 15:06	
Manganese, Dissolved	ug/L	<5.0	5.0	12/17/08 15:06	

LABORATORY CONTROL SAMPLE: 113234

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Iron, Dissolved	ug/L	5000	4720	94	80-120	
Manganese, Dissolved	ug/L	500	478	96	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 113235 113236

Parameter	Units	4012516001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Iron, Dissolved	ug/L	557	5000	5000	4630	4720	81	83	75-125	2	20	
Manganese, Dissolved	ug/L	800	500	500	1250	1250	90	90	75-125	.2	20	

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QUALITY CONTROL DATA

Project: 2541.29 DANA ROSCOE
Pace Project No.: 4012516

QC Batch: MSV/3407 — Analysis Method: EPA 8260
QC Batch Method: EPA 8260 — Analysis Description: 8260 MSV
Associated Lab Samples: 4012516001

METHOD BLANK: 113493 — Matrix: Water
Associated Lab Samples: 4012516001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	<1.0	1.0	12/19/08 07:56	
1,1-Dichloroethane	ug/L	<1.0	1.0	12/19/08 07:56	
1,4-Dichlorobenzene	ug/L	<1.0	1.0	12/19/08 07:56	
cis-1,2-Dichloroethene	ug/L	<1.0	1.0	12/19/08 07:56	
Dichlorodifluoromethane	ug/L	<1.0	1.0	12/19/08 07:56	
Methylene Chloride	ug/L	<1.0	1.0	12/19/08 07:56	
Tetrachloroethene	ug/L	<1.0	1.0	12/19/08 07:56	
Toluene	ug/L	<1.0	1.0	12/19/08 07:56	
trans-1,2-Dichloroethene	ug/L	<1.0	1.0	12/19/08 07:56	
Trichloroethene	ug/L	<1.0	1.0	12/19/08 07:56	
Vinyl chloride	ug/L	<1.0	1.0	12/19/08 07:56	
4-Bromofluorobenzene (S)	%	97	64-132	12/19/08 07:56	
Dibromofluoromethane (S)	%	103	68-122	12/19/08 07:56	
Toluene-d8 (S)	%	104	73-127	12/19/08 07:56	

LABORATORY CONTROL SAMPLE & LCSD: 113494 113495

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
1,1,1-Trichloroethane	ug/L	50	52.2	50.3	104	101	75-128	4	20	
1,1-Dichloroethane	ug/L	50	52.8	52.0	106	104	71-130	1	20	
cis-1,2-Dichloroethene	ug/L	50	54.7	52.7	109	105	75-125	4	20	
Methylene Chloride	ug/L	50	46.2	45.2	92	90	75-125	2	20	
Tetrachloroethene	ug/L	50	53.9	52.5	108	105	75-130	3	20	
Toluene	ug/L	50	51.8	51.6	104	103	75-125	.4	20	
trans-1,2-Dichloroethene	ug/L	50	54.0	52.7	108	105	75-125	2	20	
Trichloroethene	ug/L	50	51.1	49.8	102	100	75-125	3	20	
Vinyl chloride	ug/L	50	52.9	50.8	106	102	65-130	4	20	
4-Bromofluorobenzene (S)	%				96	98	64-132			
Dibromofluoromethane (S)	%				107	106	68-122			
Toluene-d8 (S)	%				108	106	73-127			

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 113496 113497

Parameter	Units	4012516001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,1,1-Trichloroethane	ug/L	1.5	50	50	53.8	51.9	105	101	70-130	4	30	
1,1-Dichloroethane	ug/L	<1.0	50	50	52.9	50.9	104	100	70-130	4	30	
cis-1,2-Dichloroethene	ug/L	34.9	50	50	88.7	83.3	108	97	70-130	6	30	
Methylene Chloride	ug/L	<1.0	50	50	46.4	44.0	93	88	70-130	5	30	
Tetrachloroethene	ug/L	<1.0	50	50	53.8	50.8	108	102	70-130	6	30	

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QUALITY CONTROL DATA

Project: 2541.29 DANA ROSCOE
Pace Project No.: 4012516

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 113496 113497

Parameter	Units	4012516001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Toluene	ug/L	<1.0	50	50	52.0	51.5	104	103	70-130	.9	30	
trans-1,2-Dichloroethene	ug/L	<1.0	50	50	52.5	52.1	104	104	70-130	.7	30	
Trichloroethene	ug/L	109	50	50	163	156	107	93	70-130	5	30	
Vinyl chloride	ug/L	<1.0	50	50	51.6	49.8	103	100	62-138	4	30	
4-Bromofluorobenzene (S)	%						99	98	64-132			
Dibromofluoromethane (S)	%						105	104	68-122			
Toluene-d8 (S)	%						107	108	73-127			

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QUALIFIERS

Project: 2541.29 DANA ROSCOE
Pace Project No.: 4012516

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

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LABORATORIES

PASI-G Pace Analytical Services - Green Bay

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1241 Bellevue Street - Suite 9
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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 2541.29 DANA ROSCOE
Pace Project No.: 4012516

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
4012516001	**MW-104**	EPA 300.0	WETA/2993		
4012516002	**MW-103**	EPA 300.0	WETA/2993		
4012516003	**MW-102**	EPA 300.0	WETA/2993		
4012516004	**MW-101**	EPA 300.0	WETA/2993		
4012516001	**MW-104**	EPA 300.0	WETA/2994		
4012516002	**MW-103**	EPA 300.0	WETA/2994		
4012516003	**MW-102**	EPA 300.0	WETA/2994		
4012516004	**MW-101**	EPA 300.0	WETA/2994		
4012516002	**MW-103**	EPA 8260	MSV/3398		
4012516003	**MW-102**	EPA 8260	MSV/3398		
4012516004	**MW-101**	EPA 8260	MSV/3398		
4012516001	**MW-104**	EPA 6010	ICP/1868		
4012516002	**MW-103**	EPA 6010	ICP/1868		
4012516003	**MW-102**	EPA 6010	ICP/1868		
4012516004	**MW-101**	EPA 6010	ICP/1868		
4012516001	**MW-104**	EPA 8260	MSV/3407		

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REV

CHAIN OF CUSTODY

(Please Print Clearly)	
Company Name:	RMT
Branch/Location:	Madison
Project Contact:	Jim Buss / Lance Bakken
Phone:	608-831-4444
Project Number:	2541.29
Project Name:	Dana Roscoe
Project State:	IL
Sampled By (Print):	Lance Bakken
Sampled By (Sign):	[signature]
PO #:	Regulatory Program:

Quote #:	
Mail To Contact:	Jim Buss
Mail To Company:	RMT
Mail To Address:	Madison
Invoice To Contact:	Same
Invoice To Company:	
Invoice To Address:	
Invoice To Phone:	

*Preservation Codes
A=None B=HCL C=H2SO4 D=HNO3 E=DI Water F=Methanol G=NaOH
H=Sodium Bisulfate Solution I=Sodium Thiosulfate J=Other

Data Package Options (billable)
- ☐ EPA Level III
- ☐ EPA Level IV

MS/MSD
- ☐ On your sample (billable)
- ☐ NOT needed on your sample

Matrix Codes
A = Air, B = Biota, C = Charcoal, O = Oil, S = Soil, SI = Sludge, W = Water, DW = Drinking Water, GW = Ground Water, SW = Surface Water, WW = Waste Water, WP = Wipe

PACE LAB #	CLIENT FIELD ID	COLLECTION DATE	COLLECTION TIME	MATRIX	(8260) VOC	Sulfate	Nitrate	Fe Manganese	CLIENT COMMENTS	LAB COMMENTS (Lab Use Only)	Profile #
FILTERED? (YES/NO)					N	N	Y				
PRESERVATION (CODE)*					B	A	D				
	MW-104	12/15	1135	GW	X	X	X		MS/MSD	3-250ml AD 6-40ml B	
	MW-103	↓	1225	↓	X	X	X			3-250ml AD 3-40ml B	
	MW-102	↓	1325	↓	X	X	X			↓	
	MW-101	↓	1425	↓	X	X	X			↓	

Rush Turnaround Time Requested - Prelims
(Rush TAT subject to approval/surcharge)
Date Needed:

Transmit Prelim Rush Results by (complete what you want):
Email #1:
Email #2:
Telephone:
Fax:

Samples on HOLD are subject to special pricing and release of liability

Relinquished By:	Date/Time:	Received By:	Date/Time:
[signature]	12/15/08 1600		
Walto	12/16/08 900	[signature]	12/16/08 900

PACE Project No. 4012516
Receipt Temp = 1 °C
Sample Receipt pH OK / Adjusted
Cooler Custody Seal Present / Not Present
Intact / Not Intact

12/16/08

Appendix E
Groundwater Screening Results Technical Memorandum

RMT

Technical Memorandum

Date: September 19, 2008

To: Chris Black – USEPA Region 5

cc: Craig Campbell – Dana Holding Corporation
Paul Renberg – Dana Holding Corporation
Rich Fahey – Vory, Sater, Seymour, and Pease LLP
Stacy Koch and Tom Jancek – RMT

From: Jim Buss and Barbara Glijer

Project No.: 00-02541.27

Subject: **Groundwater Screening Results, Former Warner Electric, Roscoe, Illinois**

Background

This Technical Memorandum summarizes the groundwater screening effort conducted during July and August, 2008, at the Dana Holding Corporation (Dana) former Warner Electric facility (Warner) in Roscoe, Illinois. This screening program, which was conducted in accordance with the *Workplan To Amend Administrative Order on Consent,* (RMT, 2007, Workplan), refines our understanding of the areas of groundwater affected with chlorinated volatile organic compounds (CVOCs), both at the Warner facility, as well as downgradient near Hononegah Road, and at the distal end of the plume where that groundwater remediation system is located. Table 1 presents the hazardous waste constituents, which are listed in the Administrative Order on Consent for the site.

Trichloroethene (TCE) and its degradation byproduct, cis-1,2-dichloroethene (cis-1,2-DCE), are the principle site-related CVOCs detected during the screening program. Trace concentrations of 1,1-dichloroethane, 1,1,1-trichloroethane, and toluene were also detected during program. Table 1 presents the hazardous waste constituents, including these CVOCs, which are listed in the Administrative Order on Consent for the site. The CVOCs form a narrow, shallow core of affected groundwater, with concentrations in the 100s micrograms/liter (µg/L) emanating from source areas associated with the former TCE storage area and degreaser #1231 at the facility (Figure 1). As the affected groundwater migrates downstream, there is substantial attenuation and degradation of the TCE source material. The absence of CVOCs in deep groundwater samples demonstrates that there was no dense nonaqueous phase liquids (DNAPL) penetration of any significant distance into the aquifer. Near Hononegah Road and at the distal end of the plume, concentrations are reduced to the low 1s and 10s µg/L as the individual plumes coalesce and extend deeper into the shallow flow system with natural groundwater gradients. Near the Rock River, the CVOC concentrations do not exceed either the ecological or human health screening concentrations.

This Memo uses the results of this screening program to:

- propose a series of 12 long-term monitoring well locations;
- provide a point of comparison to relevant ecological and human health screening values for discharge to the Rock River, and;
- discuss the implications of the groundwater screening results and the need for continued operation of the existing groundwater remediation system.

Groundwater Screening Sample Locations and Methods

RMT supervised the installation of 48 direct-push soil borings equipped with a temporary well for the collection of groundwater samples in accordance with the Workplan. To ensure that the analytical data represent ambient (nonpumping) conditions, the remediation system was shut down 1 to 2 months before sampling. Figures 1 through 3 show the locations of the borings, which were generally conducted along three transects perpendicular to groundwater flow. Matrix Environmental, L.L.C., of Osseo, Minnesota (Matrix), and On-site Environmental, Inc., of Sun Prairie, Wisconsin, conducted drilling activities under the direction of RMT for this project. At each boring, the drilling subcontractor advanced a sheathed Geoprobe Screen-Point 16® sampling device to a depth of 10 to 80 feet below the water table. The screen point sampling device was then exposed to the formation, and approximately 2 to 4 liters of water were purged using new, disposable high-density polyethylene (HDPE) tubing with a check-ball valve. After purging, groundwater samples were collected for VOC analysis in laboratory-certified 40-mL volatile organic analysis (VOA) vials. The drilling subcontractor then withdrew the probe rods, pulling the screen point sampler up through the formation until it was positioned at the next sample interval. Two to 4 liters of water were again purged from the sampler with new HDPE tubing and a decontaminated check-ball valve before the next sample was collected. This process continued until sampling was completed near the water table at each boring. At the conclusion of sampling at each boring, the downhole drilling tools were pressure washed to remove residues from the sampling program.

Matrix performed field laboratory analysis on all of the groundwater samples using modified USEPA Method 8021B purge and trap with gas chromatography. The exception to this occurred at borings CC-07 through CC-10, as well as the deep samples (below 75 feet) from BB-04 and BB-05, which were submitted directly to PACE Analytical Services, Inc. (PACE), of Green Bay, Wisconsin, for fixed-base analysis. Field quality control measures included a 5-point calibration curve, standard samples to confirm the calibration, reagent water blank samples, surrogate standards, as well as spike and spike duplicate samples. Additional field quality control samples included daily trip and field duplicates. Ten percent of the field samples were also submitted to PACE for fixed-base laboratory analysis. PACE analyzed the samples using USEPA Method 8260. The field and fixed-base confirmation analyses quantified the CVOCs listed as hazardous constituents on the Administrative Order on Consent (with the exception of dichlorodifluoromethane for field analysis). The field quality control sample results and fixed-base laboratory confirmation sample results show that the data have adequate precision, accuracy, and reproducibility for its intended purpose of identifying permanent monitoring well locations and

making a preliminary assessment of discharge conditions to the Rock River. Attachment 1 contains the field and the fixed-base laboratory analytical reports.

Groundwater Screening Sample Results

Table 2 summarizes the results of groundwater screening program. Figures 4 through 6 depict the distribution of TCE and cis-1,2-DCE, the predominant CVOCs detected in the subsurface. The groundwater results show a distribution consistent with the conceptual model for the site. Small amounts of TCE released at the site have migrated vertically through the vadose zone below the facility. Most of the release has been attenuated in the vadose zone soil. The small amount that reached the water table did not have adequate mass (entry pressure) to penetrate the aquifer as a DNAPL. Rather, the TCE mass at the water table dissolved into the groundwater, forming a narrow, shallow, well-defined plume with concentrations in the 100s µg/L. Separate releases at the TCE storage area, vapor degreaser #1231, and near passive soil gas (PSG) samples PSG-40 and PSG-45, generate three separate areas of affected groundwater, less than 100 feet wide, as shown on Figure 1, and transect A1-A1' on Figure 4. As the TCE migrates downgradient from the facility, it undergoes substantial reductive dechlorination, resulting in the generation of cis-1,2-DCE, with concentrations nearly equal to TCE in the shallow groundwater.

Transect A3-A3', shown on Figure 5, depicts the plume core, extending from the source area near the former TCE storage area to the property boundary, parallel to groundwater flow direction. Although the data from borings B-12 through B-14, as well as PSG-82 and PSG-104, presented on this figure were collected in 2006, the data are considered adequately representative of existing site conditions for the purposes of this assessment.

The groundwater samples from borings AA-11 through AA-19, shown on transect A2-A2' in Figure 4, show no detectable CVOCs, confirming that the affected groundwater associated with the facility is limited to the manufacturing area and is not associated with the closed lagoons located south of the facility.

Approximately 3,500 feet downgradient of the facility boundary, the separate areas of affected groundwater commingle to form a single plume. Transect BB' on Figure 6 depicts this condition and shows that the core of affected groundwater is approximately 200 feet wide with a thickness of 35 feet. More importantly, attenuation of the plume results in a reduction in the TCE and cis-1,2-DCE concentrations below 21 µg/L and 13 µg/L, respectively.

Transect CC' on Figure 6 depicts conditions approximately 2,500 feet further downgradient, where the plume core retains the nominal dimensions of 200 feet in width and 35 feet in thickness. In this area, the core of the plume is approximately 300 feet east of the recovery well. This shift to the east may reflect conditions associated with the shutdown of the recovery well, or influence of the flooding on the Rock River (approximately 500 feet further downgradient from the CC' transect). More importantly, the results show TCE (maximum 24 µg/L) and cis-1,2-DCE (maximum 18.5 µg/L) concentrations remain low.

Reductive dechlorination of TCE is reflected in cis-1,2-DCE concentrations detected in the plume. With distance downgradient, CVOC concentrations decrease and the individual plumes coalesce into a single core of affected groundwater. Near the Rock River, CVOC concentrations have been substantially attenuated and, as discussed later in the memorandum, are below the ecological and human health screening concentrations.

Recommended Permanent Monitoring Well Locations

RMT recommends a series of 12 permanent monitoring wells (10 individual wells and 1 well nest), along the three transects where temporary well sampling was conducted. Permanent wells on the AA' transect will evaluate water quality as it moves downgradient towards the facility boundary. Permanent wells on the BB' transect will evaluate water quality immediately upgradient of the residential area in Hononegah Estates. Permanent wells on the CC' transect will enable evaluation water quality near the Rock River. The following list, along with Table 3 and Figures 4 through 6, summarize the recommended locations and screen depths:

AA' Transect

- A well at AA-02 screened from 32 to 37 feet (Figure 4). This well will monitor affected groundwater emanating from the area near former TCE vapor degreaser #1231. The screen will intersect the area of highest CVOC concentrations detected in this area of affected groundwater (AA-02 35 feet).
- A well at AA-05 screened from 35 to 40 feet (Figure 4). This well will monitor affected groundwater emanating from the area near PSG-40 and PSG-45. The screen will intersect the area of highest CVOC concentrations detected in this area of affected groundwater (AA-05 35 feet and AA-05 40 feet).
- A well nest at AA-29 with screens at 25 to 35 feet (water table) and 40 to 45 feet (Figure 5). This well nest will be located at the property boundary. The screens will intersect the water table and the area of highest CVOC concentrations emanating from the former TCE storage area.

BB' Transect

- Individual wells are recommended within the core of affected groundwater at BB-04 (80 to 85 feet) and at BB-05 (65 to 70 feet) to monitor long term natural attenuation of the plume. Individual wells are also recommended outside the core at BB-03 (70 to 75 feet) and at BB-06 (70 to 75 feet). Figure 6 depicts the well locations. These wells will be located near Hononegah Road and will enable monitoring of the affected groundwater as it migrates into the Hononegah Estates subdivision.

CC' Transect

- Individual wells are recommended within the core of affected groundwater at CC-07 (50 to 55 feet) and at CC-08 (50 to 55 feet) to monitor long term natural attenuation of the plume. Individual wells are also recommended outside the core at CC-03 (70 to 75 feet) and at CC-09 (80 to 85 feet). Figure 6 depicts the well locations. These wells will be located along Edgemere Terrace and will evaluate the core of the affected groundwater as it migrates towards the Rock River.

Comparison of Groundwater Data With Ecological and Human Health Benchmarks

While the results presented in this memorandum are considered as screening level quality and will need to be confirmed with samples from permanent monitoring wells that are submitted for fix-based laboratory analysis, the data are of adequate quality to evaluate the suitability of the current remediation system and future closure options, from both an ecological and human health perspective. Specifically, at the distal end of the plume, the Workplan called for a comparison of the detected concentration of the hazardous constituents in groundwater with the ecological screening limits (ESLs) established by the USEPA for surface water quality. In addition, Dana compared the results to the Illinois Environmental Protection Agency's (IEPA's) ambient water quality criteria as a point of comparison for potential human health affects. Table 1 presents the ESLs, as well as the lowest IEPA ambient water quality criteria.

For the purpose of this evaluation, it was conservatively assumed that affected groundwater at the distal end of the off-site plume discharges to the Rock River. Accordingly, if maximum concentrations of detected hazardous constituents are found to be below the ESLs and ambient water quality criteria, it will indicate a low probability of adverse impacts on ecological and human health receptors in the Rock River. Because the historical release of hazardous constituents at the former Warner Electric facility occurred predominately to subsurface soil, resulting in leaching to groundwater, the discharge of groundwater to surface water is considered to be the most significant contaminant transport pathway, and surface water of the Rock River is considered to be the most likely affected environmental medium.

Groundwater analytical data from the 10 borings (CC-01 through CC-10) advanced along transect CC' at the distal end of the off-site plume were used in this evaluation for potential impact of site-related contamination on aquatic receptors in the Rock River. Table 2 summarizes the analytical results and shows that three CVOCs (TCE; cis-1,2-DCE; and 1,1,1-TCA) were detected in groundwater samples collected from transect CC'.

Figure 3 depicts the temporary well locations, while Figure 6 depicts the analytical results along transect CC'. As previously noted, within the core of affected groundwater, TCE was detected at concentrations ranging from 15.5 μg/L (CC-08) to 24 μg/L (CC-07), while cis-1,2-DCE concentrations ranged from 10.2 μg/L (CC-08) to 18.5 μg/L (CC-07). Outside the core of affected groundwater, TCE and cis-1,2-DCE concentrations ranged from <1 μg/L to 13 μg/L. Most important, the detected CVOC concentrations of TCE; cis-1,2-DCE; and 1,1,1-TCA did not exceed the agreed-upon ESLs or ambient water quality criteria. Consequently, assuming these results at the CC' transect represent concentrations from the onsite

releases to groundwater discharging to the Rock River, they represent no unacceptable risk to the river's ecological or human health receptors. Moreover, given that groundwater migrates an additional 400 to 500 feet from transect CC' before discharging to the Rock River, including flow through more organic rich sediment in the river bottom, the affected groundwater would undergo additional attenuation and degradation through reductive dechlorination or adsorption, only further reducing the CVOC concentrations. Consequently, there is an additional buffer to support the conclusion that the existing levels of CVOC in the aquifer do not require further remediation at the point of discharge to the Rock River to protect the aquatic environment.

Indeed, the results support the conclusion that the existing groundwater remediation system has a negligible impact toward the restoration of affected groundwater. While the system has little, if any, benefit in addressing the groundwater contamination, the level of energy and other resources used to operate and maintain the system represents a significant cost. A cost/benefit analysis for the system supports its permanent closure. However, at this time, given the requirements of the existing Consent Order, and your letter of May 6, 2008, the system has been restarted.

Conclusions

The groundwater screening program successfully delineated the nature and extent of the existing area of affected groundwater. Based on this delineation, a series of 12 long-term monitoring well locations have been proposed to confirm preliminary groundwater results obtained from the temporary wells, and to monitor progress toward achieving the remedial goals (RGs) and closing the site. A comparison of the screening program data to EPA Region 5 ESLs and IEPA Ambient Water Quality Criteria shows that current concentrations of CVOCs in the groundwater meet the screening guidelines. Given this condition, it is no longer necessary to capture and treat affected groundwater prior to its discharge to the Rock River. The existing groundwater extraction and treatment system should, therefore, be abandoned. However, it is possible that planned source area remediation activities could temporarily increase downgradient CVOC concentrations. Therefore, the abandonment and decommissioning of the system should be delayed until confirmation that the groundwater concentrations are, and will remain, below the appropriate RGs. In the interim, the system should immediately be placed in a stand-by mode. Stand-by mode means that the system should be shut off (it was restarted after the recent sampling, as agreed upon with USEPA) and maintained such that it could be restarted if subsequent sampling showed the need. The system would be maintained in stand-by mode while source area remediation, including ongoing monitoring, proceeds. At the successful conclusion of the remediation, the system would be abandoned and permanently decommissioned. The attached Table 3, along with Figures 4, 5, and 6, outline the proposed monitoring well network, which would monitor groundwater as part of the source area remediation, for your review, comments and/or approval.

References

RMT. 2006. Passive soil gas survey at the Warner Electric Brake and Clutch Division property, Roscoe, Illinois. August 2006.

RMT, 2007. Workplan to amend administrative order on consent. Warner Electric Brake and Clutch Division, Roscoe, Illinois. October 2007.

U.S. EPA, 1997. Ecological risk assessment guidance for Superfund: Process for designing and conducting ecological risk assessments. Interim final. EPA 540R-97-006.

U.S. EPA, 2008. U.S. EPA's vapor intrusion database—preliminary evaluation of attenuation factors—draft document. U.S. EPA Office of Solid Waste, Washington, D.C. March 4, 2008.

Table 1
Hazardous Constituents, Cleanup Criteria, ESLs and Water Quality Criteria
Former Warner Electric Facility - Roscoe, Illinois

HAZARDOUS CONSTITUENT	CLEANUP CRITERIA (µg/L)	USEPA REGION 5 ESL[1] (µg/L)	IEPA Water Quality Criteria (lowest value) (µg/L)
Trichloroethylene	5[2]	47	0.025[9]
1,1,1,-Trichloroethane	200[2]	76	390[10]
Vinyl chloride	2[2]	930	120[9]
Methylene chloride	10[5]	940	340[9]
Tetrachloroethylene	5[3]	45	150[10]
cis-1,2-Dichloroethylene	70[3]	620[4]	1100[10]
Dichlorodifluoromethane	7000[5]	1960[6]	NA
trans-1,2-Dichloroethylene	100[3]	970	34,000[11]
1,1-Dichloroethane	200[7]	47	2,000[10]
1,4-Dichlorobenzene	75[2]	9.4	620[10]
Toluene	2,000[3]	253	NA
Chromium	50[8]	42	NA

Notes:

(1) ESL indicates ecological screening level.

(2) Maximum Concentration Level (MCL) promulgated under the Safe Drinking Water Act.

(3) Proposed MCL for the USEPA.

(4) Indiana Department of Environmental Management chronic aquatic life, USEPA. *Great Lakes Initiative Clearing House*. Accessed 12/18/07
http://cfpub.epa.gov/gliclear/criteria_qeury.cfn

(5) Health-based limit for systemic toxicant established by the USEPA.

(6) Region 6 Chronic Aquatic Life. Oak Ridge National Laboratory. *RAIS Ecological Benchmark Tool*. Accessed 12/4/07.
http:/raus,irbk,giv/cgibin/eco/ECO select.

(8) No limit or criterion established by the USEPA; limit indicated shall be used for this Consent Order.

9) Maximum concentration of constituents for groundwater protection (40 CFR 264.94).

9) Illinois Water Quality Criteria, Human Nonthreshold Criterion (Illinois Pollution Control Board (IPCB) regulations at 35 IAC 302.210, Nov. 11, 2008.

10) Illinois Water Quality Criteria, Acuatic Life Criteria – Chronic (Illinois Pollution Control Board (IPCB) regulations at 35 IAC 302.210, Nov. 11, 2008.

11) Illinois Water Quality Criteria, Human Threshold Criterion (Illinois Pollution Control Board (IPCB) regulations at 35 IAC 302.210, Nov. 11, 2008.

Table 2
Groundwater Screening Summary
Former Warner Electric
Roscoe, Illinois

Sample Designation		Analyte (µg/L)				
Boring Location	Sample Depth (ft)	Trichloroethene	cis-1,2-Dichloroethene	1,1-Dichloroethane	1,1,1-Trichloroethane	Toluene
AA-01	30	-	7	-	-	-
	40	-	-	-	-	-
AA-02	30	-	19	-	4	-
	35	-	66	-	10	-
Field Dup	35	-	69	-	10	-
	40	-	41	-	16	-
	45	1	-	-	-	-
	50	-	-	-	-	-
AA-03	30	1	-	-	-	-
	35	11	8	-	6	-
AA-04	30	-	-	-	-	-
	35	2	2	-	-	-
AA-05	30	1	2	-	-	-
	35	23	42	-	-	-
	40	18	28	-	-	-
	45	10	9	-	-	-
	50	2	-	-	-	-
AA-06	30	-	-	-	-	-
	35	-	-	-	-	-
AA-07	30	1	-	-	-	-
Field Dup	30	1	-	-	-	-
Lab Dup*	30	-	-	-	-	-
	35	1	-	-	-	-
Lab Dup*	35	1.1	-	-	-	-
AA-08	30	3	2	--	-	-
	35	35	45	-	-	-
AA-09	30	2	-	-	-	-
	35	49	18	-	-	-
AA-10	30	1	-	-	-	-
	35	6	1	-	-	-
AA-11	30	1	-	-	-	-
	35	1	-	-	-	-
AA-12	30	1	-	-	-	-
	35	4	-	-	-	-
AA-13	30	-	-	-	-	-
	35	-	-	-	-	-
AA-14	30	-	-	-	-	-
Field Dup	30	-	-	-	-	-
	35	-	-	-	-	-
Field Dup	35	-	-	-	-	-
Lab Dup*	35	-	-	-	-	-
AA-15	30	-	-	-	-	-
Field Dup	30	-	-	-	-	-
	35	-	-	-	-	-
Field Dup	35	-	-	-	-	-
AA-16	30	-	-	-	-	-
	35	-	-	-	-	-

Table 2
Groundwater Screening Summary
Former Warner Electric
Roscoe, Illinois

Sample Designation		Analyte (µg/L)				
Boring Location	Sample Depth (ft)	Trichloroethene	cis-1,2-Dichloroethene	1,1-Dichloroethane	1,1,1-Trichloroethane	Toluene
AA-17	30	-	-	-	-	-
	35	-	-	-	-	-
AA-18	30	-	-	-	-	-
	35	-	-	-	-	-
AA-19	30	-	-	-	-	-
	35	-	-	-	-	-
AA-20	30	-	-	-	2	-
	35	-	-	-	3	-
AA-21	30	-	-	-	-	-
	35	-	-	-	-	-
AA-22	30	-	-	-	-	-
	35	-	-	-	-	-
AA-23	30	-	-	-	-	-
	35	-	-	-	-	-
AA-24	30	-	-	-	-	-
	35	-	-	-	-	-
AA-25	30	-	-	-	-	-
	35	-	-	-	-	-
AA-26	30	-	-	-	-	-
	35	-	-	-	-	-
AA-27	30	-	2	-	-	-
	35	-	5	-	-	-
	40	-	-	-	-	-
	45	-	-	-	-	-
	50	-	-	-	-	-
AA-28	30	-	-	-	-	-
	35	4	11	-	-	-
	40	6	20	-	-	-
	45	8	6	-	-	-
	50	3	2	-	-	-
AA-29	30	79	55	2	-	-
	35	140	120	2	-	-
	40	758	568	-	-	-
	45	308	334	-	-	-
	50	366	252	-	-	-
AA-30	30	64	40	-	-	-
	40	334	372	-	-	-
	45	540	390	-	-	-
	50	328	200	-	-	-
	60	-	-	-	-	-
	70	-	-	-	-	-
	80	-	-	-	-	-
	90	-	-	-	-	-
BB-01	35	-	-	-	-	-
	50	2	2	-	-	-
	70	2	2	-	1	-
BB-02	35	-	-	-	-	-

Table 2
Groundwater Screening Summary
Former Warner Electric
Roscoe, Illinois

Sample Designation		Analyte (µg/L)				
Boring Location	Sample Depth (ft)	Trichloroethene	cis-1,2-Dichloroethene	1,1-Dichloroethane	1,1,1-Trichloroethane	Toluene
Lab Dup*	35	-	-	-	-	-
	50	3	4	-	-	-
Lab Dup*	50	-	1.7	-	-	-
	70	5	4	-	1	-
Lab Dup*	70	5.6	3.6	-	-	-
BB-03	35	3	2	-	-	-
	50	7	7	-	2	-
	70	7	4	-	1	-
	85	4	3	-	1	-
BB-04	35	6	3	-	-	-
Lab Dup*	35	5.6	2.9	-	-	-
	50	10	5	-	1	-
Lab Dup*	50	15.5	7.3	-	1.3	-
	70	18	11	-	1	-
Lab Dup*	70	20.9	12.7	-	1.2	-
*	80	19	10.2	-	1.1	-
Lab Dup*	80	19.5	10.4	-	1.3	-
*	90	13.1	6.9	-	-	-
*	110	10.7	5.5	-	1.1	-
BB-05	35	4	1	-	-	-
Lab Dup	35	2.6	-	-	-	-
	50	14	6	-	-	-
Lab Dup	50	12.8	5.3	-	-	-
	70	21	13	-	-	-
Field Dup	70	21	13	-	-	-
Lab Dup*	70	20.5	13.1	-	-	-
*	80	9.7	7.7	-	-	-
*	90	8.1	6.4	-	-	-
*	110	2.1	1.8	-	-	-
BB-06	35	-	-	-	-	-
	50	2	-	-	-	-
	70	2	2	-	-	-
BB-07	40	-	-	-	-	1.1
	50	1.2	-	-	-	1.3
	60	-	-	-	-	1.3
	70	-	-	-	-	1.4
	90	-	-	-	-	-
CC-01	20	3	4	-	-	-
	35	5	7	-	-	-
Field Dup	35	6	8	-	-	-
	55	7	6	-	1	-
	70	5	3	-	1	-
CC-02	20	3	4	-	-	-
	35	5	9	-	1	-
	55	6	5	-	1	-
CC-03	20	-	-	-	-	-
	35	-	-	-	-	-
	55	2	1	-	-	-

Table 2
Groundwater Screening Summary
Former Warner Electric
Roscoe, Illinois

Sample Designation		Analyte (µg/L)				
Boring Location	Sample Depth (ft)	Trichloroethene	cis-1,2-Dichloroethene	1,1-Dichloroethane	1,1,1-Trichloroethane	Toluene
	70	2	1	-	-	-
CC-04	20	-	-	-	-	-
	35	-	-	-	-	-
	55	-	-	-	1	-
CC-05	20	-	-	-	-	-
	35	-	-	-	-	-
	55	-	-	-	-	-
CC-06	35	-	-	-	-	-
	55	-	-	-	-	-
	70	-	-	-	-	-
CC-07 *	35	9.2	8.1	-	-	-
*	50	24	18.5	-	2.2	-
*	60	23.6	14.2	-	1.7	-
*	70	13.1	7.8	-	1.1	-
*	90	8.3	5.2	-	1	-
CC-08 *	35	6	5	-	-	1.4
*	50	18.3	12.3	-	-	-
*	60	15.5	10.2	-	-	1
*	70	10.8	7.8	-	-	-
*	90	1.8	1.3	-	-	-
CC-09 *	40	-	-	-	-	-
*	60	2.3	1.9	-	-	-
*	80	4.2	3.9	-	-	-
Lab Dup*	80	4.6	3.9	-	-	-
*	100	1.4	1	-	-	-
CC-10 *	40	-	-	-	-	-
*	60	-	-	-	-	-
*	80	-	-	-	-	-
*	100	-	-	-	-	-
HEMW 1*	60	-	-	-	-	-
2*	75	-	-	-	-	-
Lab Dup 2*	75	-	-	-	-	-
3*	90	-	-	-	-	-
4*	115	-	-	-	-	-

Notes:
1. All concentrations expressed in micrograms per liter (µg/L).
2. - indicates the parameter was not detected.
3. * Indixcates sample analyzed at PACE Analytical Services fixed-base laboratory. All other samples analyzed at MATRIX Environmental on-site mobile laboratory.
4. J = Estimated value outside of calibration range.
5. J* = Reported value above laboratory method detection limit but below reporting limit.
6. Field Dup indicates field screening duplicate analysis.
7. Lab Dup indicates fiix based laboratory duplicate analysis.

Table 3
Proposed Long Term Monitoring Well Locations
Fomer Warner Electric, Roscoe, Illinois

Well Location	Coordinates (X, Y Meters)	Screen Depth (feet bgs)	Rationale
Wells Immediaely DownGradient From Source Area			
AA-02	334231.32738, 4700493.6139	32 to 37	Monitor groundwater downgradient from former TCE vapor degreaser #1231 near property boundary.
AA-05	334273.077912, 4700468.24055	35 to 40	Monitor groundwater downgradient of PSG samples 40 and 45 near property boundary.
AA-29	334307.95863, 4700423.97934	25 to 35	Monitor shallow affected groundwater emanating from the former TCE storage area near property boundary.
AA-29	334307.95863, 4700423.97934	40 to 45	Monitor deep affected groundwater emanating from the former TCE storage area near property boundary.
Wells Located At Hononegah Road			
BB-03	333823.764344, 4699554.33855	70 to 75	Monitor western boundary of area of affected grounwater near Hononegah Road.
BB-04	333846.206303, 4699534.69869	80 to 85	Monitor core of affected groundwater near Hononegah Road.
BB-05	333869.913713, 4699515.54173	65 to 70	Monitor core of affected groundwater near Hononegah Road.
BB-06	333894.235475, 4699497.17104	70 to 75	Monitor eastern boundary of area of affected grounwater near Hononegah Road.
Wells Located At Distal End of Plume Near Hononegah Road			
CC-03	333638.258638, 4698956.17001	70 to 75	Monitor distal end of plume upgradient of extraction well.
CC-07	333712.392228, 4698926.31082	50 to 55	Monitor core of affected groundwater at distal end of plume upgradient from Rock River.
CC-08	333749.254165, 4698922.54816	50 to 55	Monitor core of affected groundwater at distal end of plume upgradient from Rock River.
CC-09	333781.524114, 4698920.96421	80 to 85	Monitor easten boundary of affected groundwater at distal end of plume upgradient of Rock River.

Notes 1. Coordinates are in NAD 83 UTM Zone 16N
2. PSG indicates passive soil gas sampler

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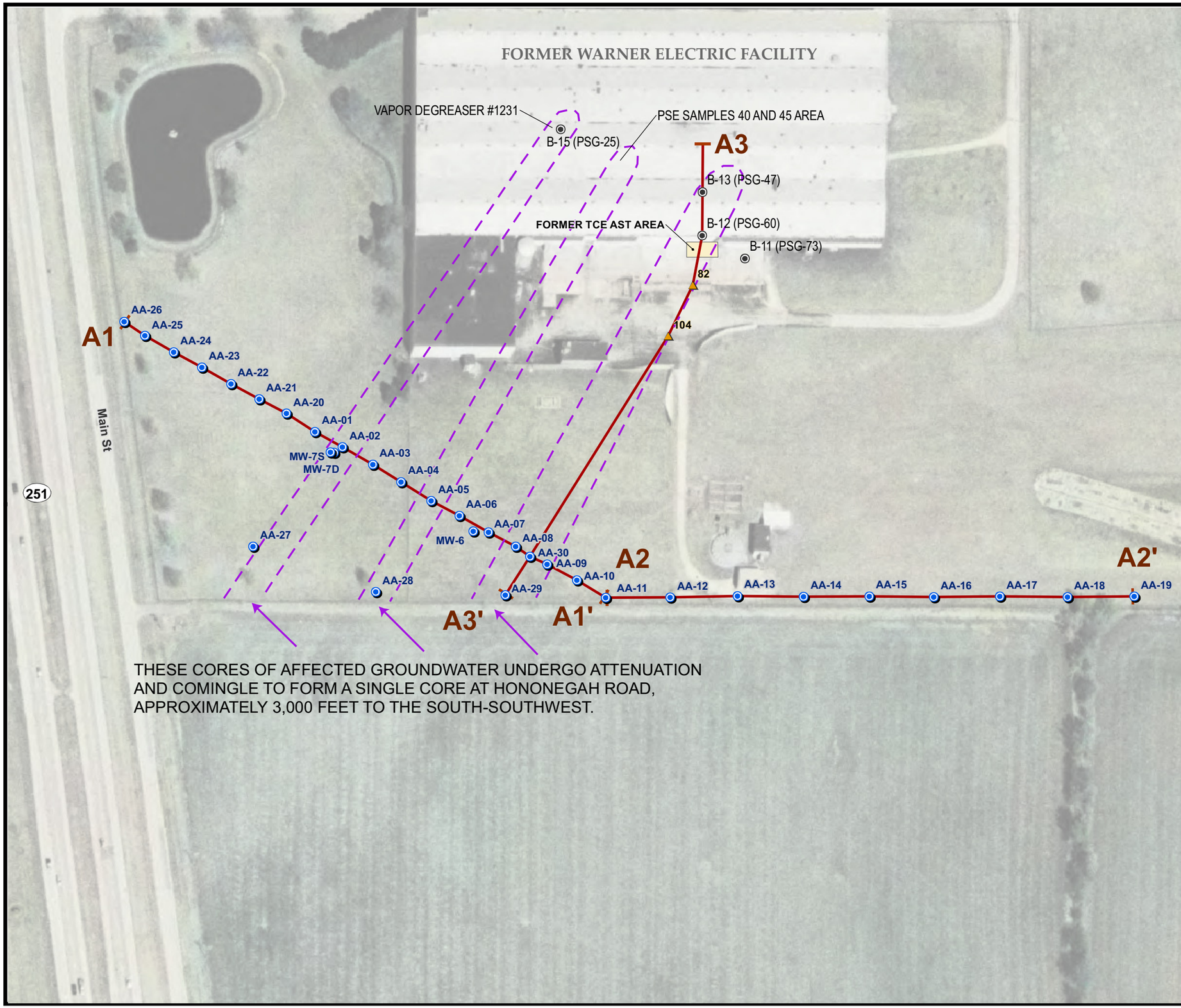
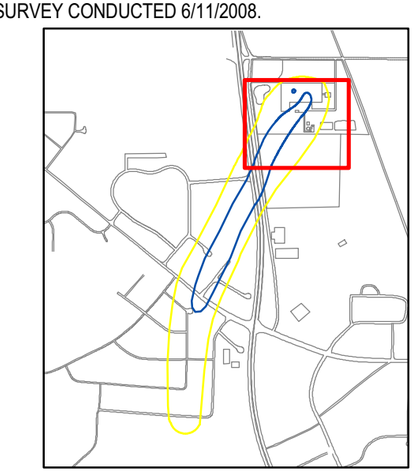


LEGEND

- TEMPORARY WELL LOCATION
- TRANSECT LINE
- SOIL/GROUNDWATER SAMPLE LOCATION
- SOIL GAS SAMPLE LOCATION
- CORE OF AFFECTED GROUNDWATER

NOTES

1. BASE MAP IMAGERY FROM USDA – NATIONAL AGRICULTURE IMAGERY PROGRAM (JULY 2006), PAN SHARPENED WITH ILLINOIS NATIONAL AERIAL PHOTOGRAPHY PROGRAM IMAGERY (SPRING 2005).
2. RMT GPS SURVEY CONDUCTED 6/11/2008.



0 150 300 FEET

1 " EQUALS 150 '
1:1,800

PROJECT: DANA HOLDING CORPORATION WARNER ELECTRIC ROSCOE, ILLLINOIS			
SHEET TITLE: GROUNDWATER SCREENING TRANSECTS A1-A1' AND A2-A2'			
DRAWN BY: PAPEZ J	SCALE: AS NOTED	PROJ. NO. 00-002541.25	
CHECKED BY: JAB		FILE NO. 25412507.mxd	
APPROVED BY: JAB	DATE PRINTED: 9/11/2008	FIGURE 1	
DATE: SEPTEMBER 2008			

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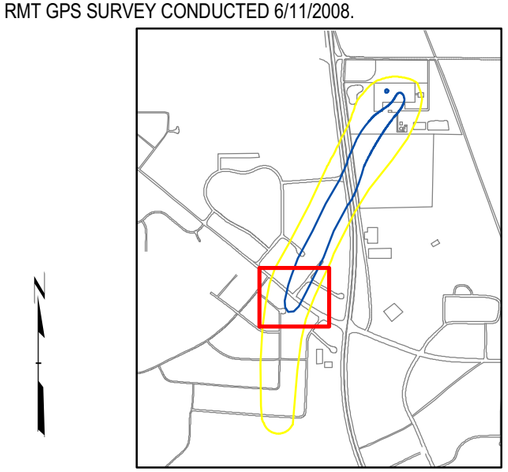
LEGEND

- TEMPORARY WELL LOCATION
- RMT GPS SURVEY LINE
- EXTENT OF DETECTED VOCS
- EXTENT OF VOCS GREATER THAN 100 µg/L
- TRANSECT LINE

NOTES

1. BASE MAP IMAGERY FROM USDA – NATIONAL AGRICULTURE IMAGERY PROGRAM (JULY 2006), PAN SHARPENED WITH ILLINOIS NATIONAL AERIAL PHOTOGRAPHY PROGRAM IMAGERY (SPRING 2005).
2. RMT GPS SURVEY CONDUCTED 6/11/2008.



0 100 200 FEET

1 " EQUALS 100 '
1:1,200

PROJECT: **DANA HOLDING CORPORATION**
WARNER ELECTRIC
ROSCOE, ILLLINOIS

SHEET TITLE: **GROUNDWATER SCREENING TRANSECT**
B-B'

DRAWN BY:	PAPEZ J	SCALE:	AS NOTED	PROJ. NO.	00-002541.25
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APPROVED BY:	KAB	DATE PRINTED:	9/11/2008	**FIGURE 2**	
DATE:	SEPTEMBER 2008				

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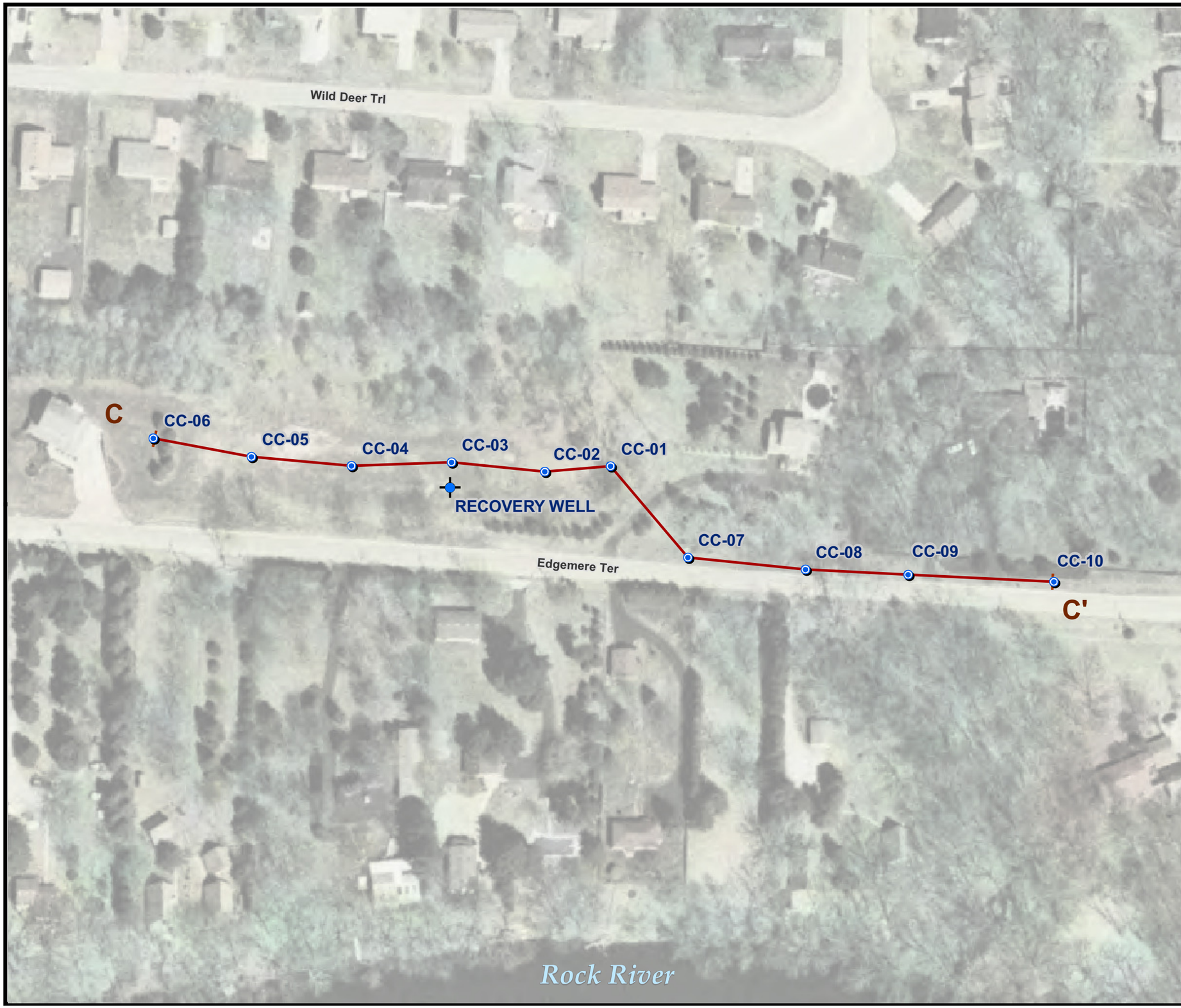
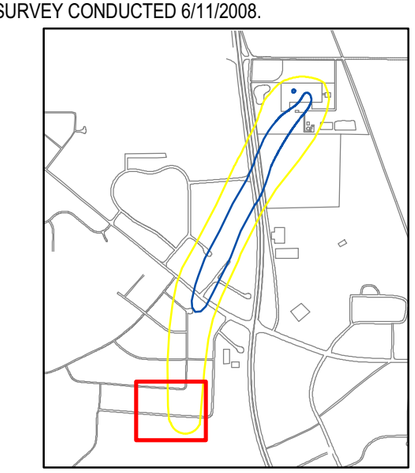


LEGEND

- TEMPORARY WELL LOCATION
- TRANSECT LINE
- RECOVERY WELL

NOTES

1. BASE MAP IMAGERY FROM USDA – NATIONAL AGRICULTURE IMAGERY PROGRAM (JULY 2006), PAN SHARPENED WITH ILLINOIS NATIONAL AERIAL PHOTOGRAPHY PROGRAM IMAGERY (SPRING 2005).
2. RMT GPS SURVEY CONDUCTED 6/11/2008.



0 100 200 FEET

1 " EQUALS 100 '
1:1,200

PROJECT: DANA HOLDING CORPORATION WARNER ELECTRIC ROSCOE, ILLLINOIS			
SHEET TITLE: GROUNDWATER SCREENING TRANSECT C-C'			
DRAWN BY: PAPEZ J	SCALE: AS NOTED	PROJ. NO. 00-002541.25	
CHECKED BY: JAB		FILE NO. 25412505.mxd	
APPROVED BY: JAB	DATE PRINTED: 9/11/2008	FIGURE 3	
DATE: SEPTEMBER 2008			

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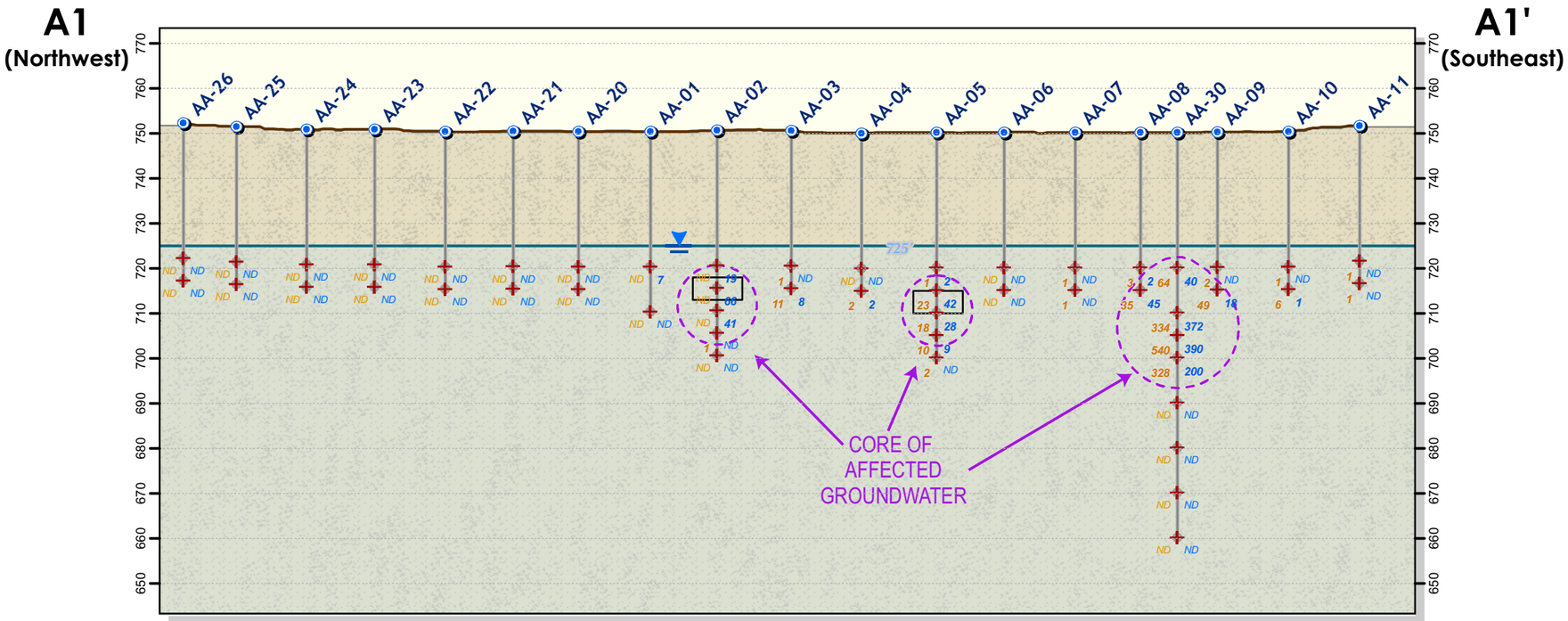

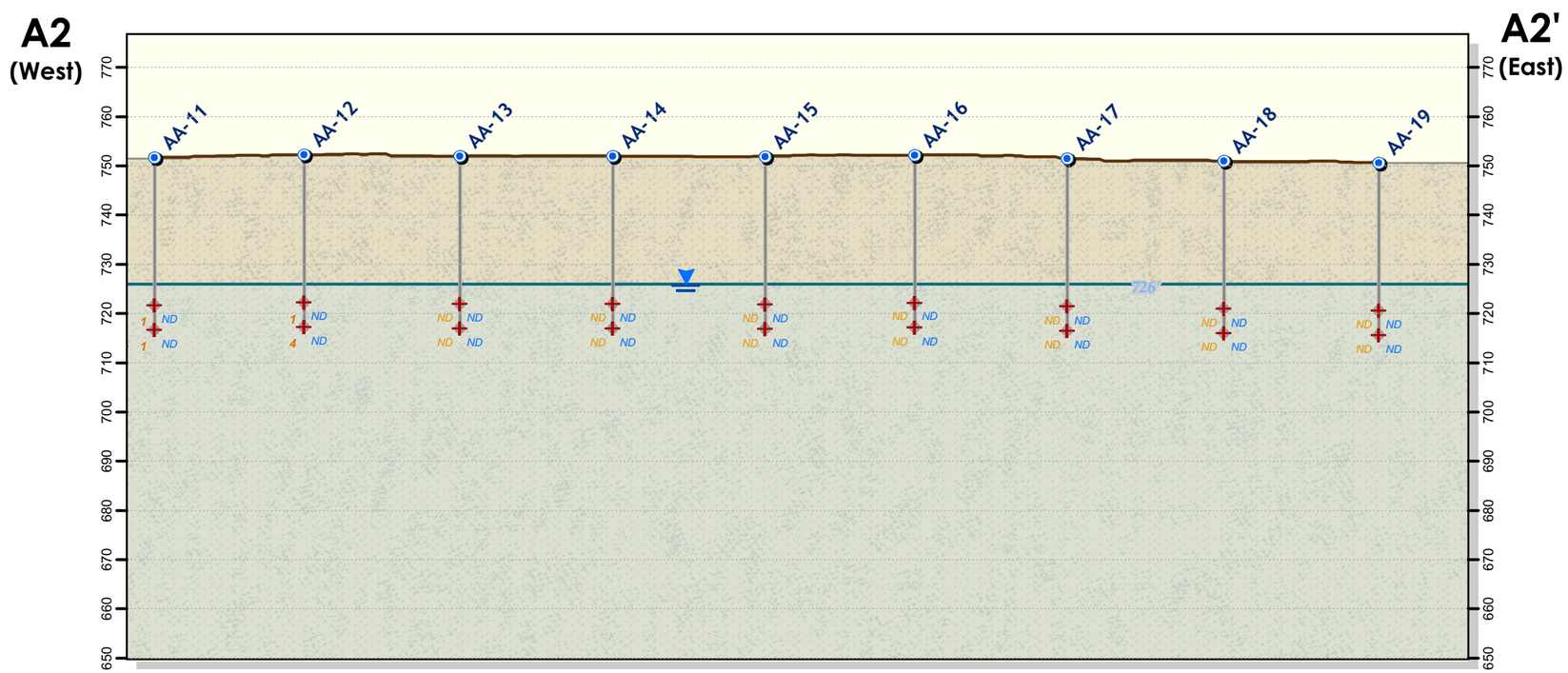

LEGEND

- BORING LOCATION
- GROUNDWATER SAMPLE LOCATION
  TCE (µg/L) DCE (µg/L)
- GROUND SURFACE PROFILE
- WATER TABLE
- PROPOSED WELL SCREEN INTERVAL
- CORE OF AFFECTED GROUNDWATER

NOTES

1. SAMPLE CHEMICAL RESULTS SUPPLIED BY MATRIX ENVIRONMENTAL, LLC AND PACE ANALYTICAL SERVICES, INC.
2. PROFILES AND ELEVATION INFORMATION BASED ON DATA FROM THE USGS NATIONAL ELEVATION DATASET (PIXEL RESOLUTION = 1/9 ARCSECOND).
3. CROSS SECTIONS HAVE APPROXIMATE 3.3 VERTICAL EXAGGERATION. HORIZONTAL UNITS ARE IN FEET, VERTICAL UNITS ARE IN FEET (MSL).

0 100 200 FEET

1" EQUALS ~100' HORIZONTAL
1" EQUALS ~30 ' VERTICAL
SCALE IS APPROXIMATE

PROJECT: **DANA HOLDING CORPORATION**
WARNER ELECTRIC
ROSCOE, ILLINOIS

SHEET TITLE: **TEMPORARY WELL SAMPLE RESULTS**
TRANSECTS A1 - A1' AND A2 - A2'

DRAWN BY:	PAPEZ J	SCALE:		PROJ. NO.	00-002541.25
CHECKED BY:	JAB	AS NOTED		FILE NO.	254125xsec01.mxd
APPROVED BY:	JAB	DATE PRINTED:		**FIGURE 4**	
DATE:	SEPTEMBER 2008	9/11/2008			

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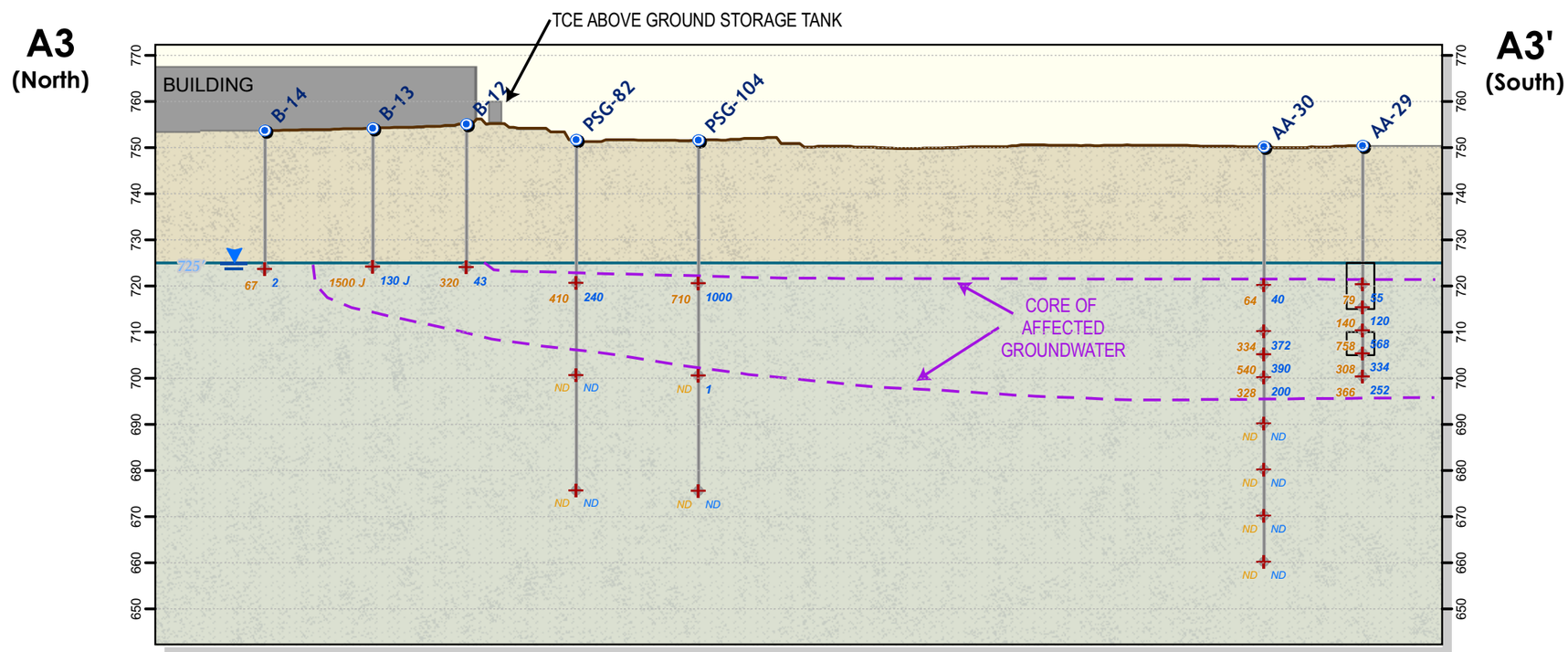

LEGEND

- BORING LOCATION
- GROUNDWATER SAMPLE LOCATION
  TCE (µg/L) DCE (µg/L)
- GROUND SURFACE PROFILE
- WATER TABLE
- PROPOSED WELL SCREEN INTERVAL
- CORE OF AFFECTED GROUNDWATER

NOTES

1. SAMPLE CHEMICAL RESULTS SUPPLIED BY MATRIX ENVIRONMENTAL, LLC AND PACE ANALYTICAL SERVICES, INC.
2. PROFILES AND ELEVATION INFORMATION BASED ON DATA FROM THE USGS NATIONAL ELEVATION DATASET (PIXEL RESOLUTION = 1/9 ARCSECOND).
3. CROSS SECTIONS HAS APPROXIMATE 3.3 VERTICAL EXAGGERATION. HORIZONTAL UNITS ARE IN FEET, VERTICAL UNITS ARE IN FEET (MSL).

0 100 200 FEET

1" EQUALS ~100' HORIZONTAL
1" EQUALS ~30 ' VERTICAL
SCALE IS APPROXIMATE

PROJECT: **DANA HOLDING CORPORATION**
WARNER ELECTRIC
ROSCOE, ILLINOIS

SHEET TITLE: **TEMPORARY WELL SAMPLE RESULTS**
TRANSECT A3 - A3'

DRAWN BY:	PAPEZ J	SCALE:		PROJ. NO.	00-002541.25
CHECKED BY:	JAB	AS NOTED		FILE NO.	254125xsec03.mxd
APPROVED BY:	JAB	DATE PRINTED:		**FIGURE 5**	
DATE:	SEPTEMBER 2008	9/11/2008			

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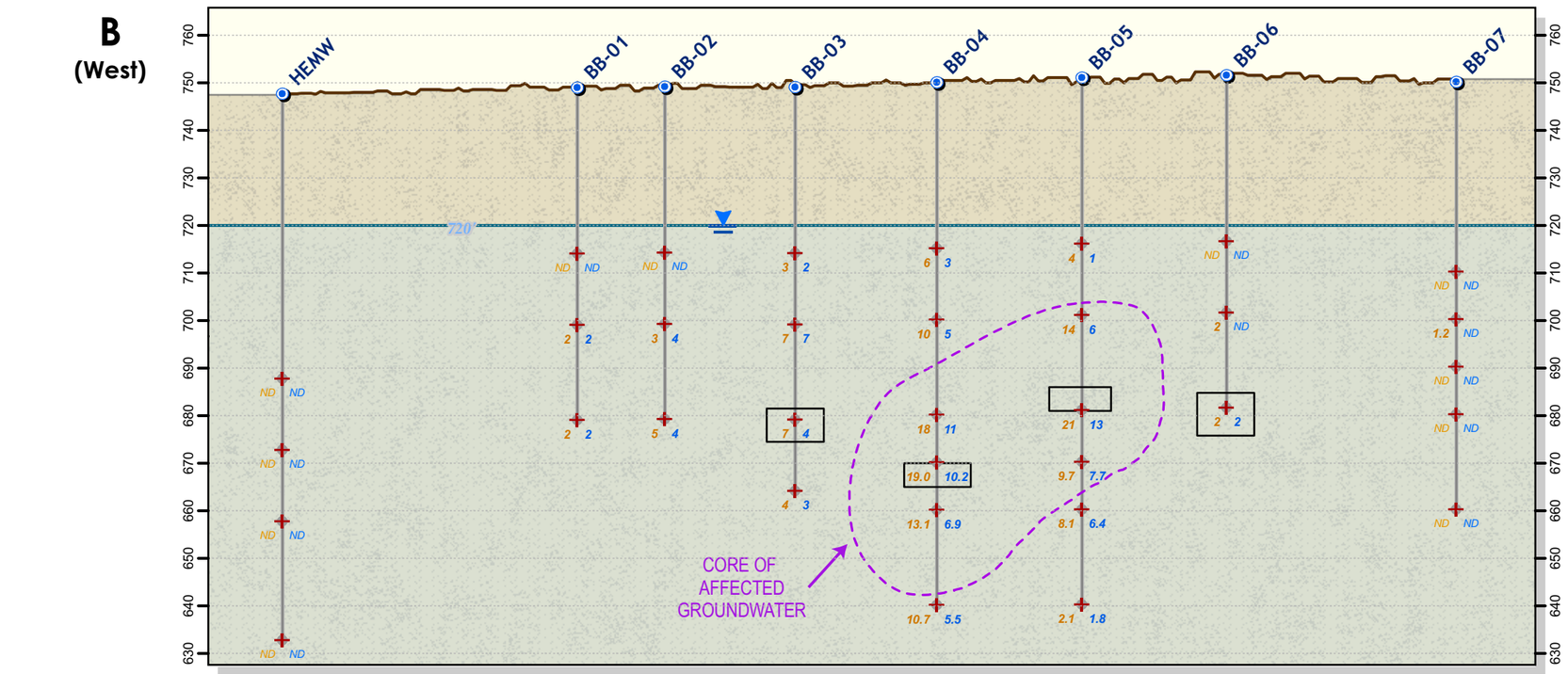

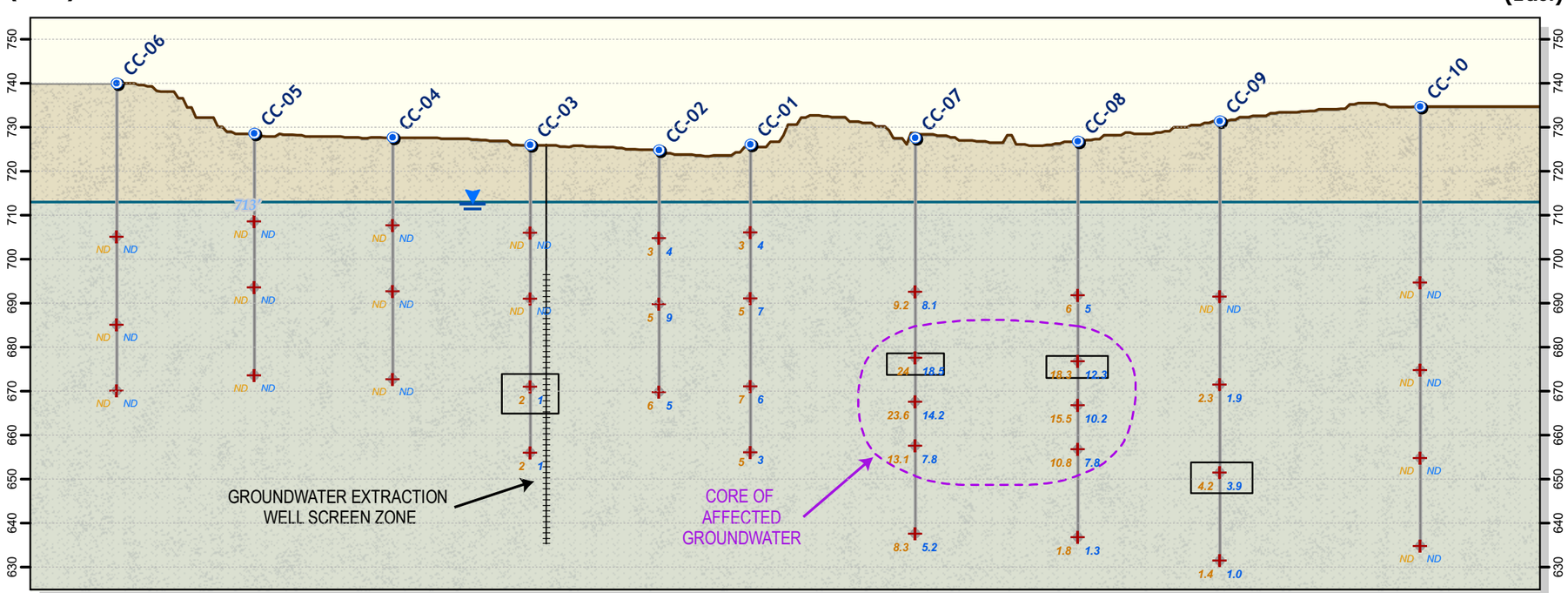

LEGEND

- BORING LOCATION
- GROUNDWATER SAMPLE LOCATION
  TCE (µg/L) DCE (µg/L)
- GROUND SURFACE PROFILE
- WATER TABLE
- PROPOSED WELL SCREEN INTERVAL
- CORE OF AFFECTED GROUNDWATER

NOTES

1. SAMPLE CHEMICAL RESULTS SUPPLIED BY MATRIX ENVIRONMENTAL, LLC AND PACE ANALYTICAL SERVICES, INC.
2. PROFILES AND ELEVATION INFORMATION BASED ON DATA FROM THE USGS NATIONAL ELEVATION DATASET (PIXEL RESOLUTION = 1/9 ARCSECOND).
3. CROSS SECTIONS HAVE APPROXIMATE 3.3 VERTICAL EXAGGERATION. HORIZONTAL UNITS ARE IN FEET, VERTICAL UNITS ARE IN FEET (MSL).

0 100 200 FEET

1" EQUALS ~100' HORIZONTAL
1" EQUALS ~30 ' VERTICAL
SCALE IS APPROXIMATE

PROJECT:	DANA HOLDING CORPORATION WARNER ELECTRIC ROSCOE, ILLINOIS		
SHEET TITLE:	TEMPORARY WELL SAMPLE RESULTS TRANSECTS B - B' AND C - C'		
DRAWN BY: PAPEZ J	SCALE:	PROJ. NO.	00-002541.25
CHECKED BY: JAB	AS NOTED	FILE NO.	254125xsec02.mxd
APPROVED BY: JAB	DATE PRINTED:	FIGURE 6	
DATE: SEPTEMBER 2008	9/11/2008		

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Attachment 1
Field Screening and Fix-Based Laboratory Reports

1/256

MATRIX ENVIRONMENTAL LLC

P.O. Box 364
Galena, OH 43021
740-965-8271
FAX: 740-965-8037

-Mobile Lab Analytical Report-

Client: RMT
Project Name: Roscoe
Location: Roscoe, IL
Project Number: 056-OHPL-08

Sample Name	Sample Matrix	Collection Date
AA-01-40	Water	6/02/2008
AA-01-30	Water	6/02/2008
AA-02-35	Water	6/03/2008
AA-02-30	Water	6/03/2008
AA-03-35	Water	6/03/2008
AA-03-30	Water	6/03/2008
AA-04-35	Water	6/03/2008
AA-04-30	Water	6/03/2008
AA-05-35	Water	6/03/2008
AA-05-30	Water	6/03/2008
AA-06-35	Water	6/03/2008
AA-06-30	Water	6/03/2008
AA-07-35	Water	6/03/2008
AA-07-30	Water	6/03/2008
AA-08-35	Water	6/03/2008
AA-08-30	Water	6/03/2008
AA-09-35	Water	6/04/2008
AA-09-30	Water	6/04/2008
AA-10-35	Water	6/04/2008
AA-10-30	Water	6/04/2008
AA-11-35	Water	6/04/2008
AA-11-30	Water	6/04/2008
AA-12-35	Water	6/04/2008
AA-12-30	Water	6/04/2008
AA-14-35	Water	6/04/2008
AA-14-30	Water	6/04/2008
AA-15-35	Water	6/04/2008
AA-15-30	Water	6/05/2008
AA-13-35	Water	6/05/2008

Sample Name	Sample Matrix	Collection Date
AA-13-30	Water	6/05/2008
AA-16-35	Water	6/05/2008
AA-16-30	Water	6/05/2008
AA-17-35	Water	6/05/2008
AA-17-30	Water	6/05/2008
AA-18-35	Water	6/05/2008
AA-18-30	Water	6/05/2008
AA-19-35	Water	6/05/2008
AA-19-30	Water	6/05/2008
AA-20-35	Water	6/05/2008
AA-20-30	Water	6/05/2008
AA-21-35	Water	6/06/2008
AA-21-30	Water	6/06/2008
AA-22-35	Water	6/06/2008
AA-22-30	Water	6/06/2008
AA-23-35	Water	6/06/2008
AA-23-30	Water	6/06/2008
AA-24-35	Water	6/06/2008
AA-24-30	Water	6/06/2008
AA-25-35	Water	6/06/2008
AA-25-30	Water	6/06/2008
AA-26-35	Water	6/06/2008
AA-26-30	Water	6/06/2008
AA-27-35	Water	6/06/2008
AA-27-30	Water	6/06/2008
AA-27-45	Water	6/06/2008
AA-27-40	Water	6/06/2008
AA-27-50	Water	6/06/2008
RB-01	Water	6/06/2008

Sample Name	Sample Matrix	Collection Date
AA-28-35	Water	6/06/2008
AA-28-30	Water	6/06/2008
AA-28-45	Water	6/06/2008
AA-28-40	Water	6/06/2008
AA-28-50	Water	6/06/2008
AA-29-35	Water	6/07/2008
AA-29-30	Water	6/07/2008
AA-29-45	Water	6/07/2008
AA-29-40	Water	6/07/2008
AA-29-50	Water	6/07/2008
AA-02-50	Water	6/07/2008
AA-02-45	Water	6/07/2008
AA-02-40	Water	6/07/2008
AA-05-50	Water	6/07/2008
AA-05-45	Water	6/07/2008
AA-05-40	Water	6/07/2008
AA-30-90	Water	6/07/2008
AA-30-80	Water	6/07/2008
AA-30-70	Water	6/07/2008
AA-30-60	Water	6/07/2008
AA-30-50	Water	6/07/2008
AA-30-45	Water	6/07/2008
AA-30-40	Water	6/07/2008
AA-30-30	Water	6/07/2008
AA-30-30	Water	6/07/2008
CC-01-70	Water	6/09/2008
CC-01-55	Water	6/09/2008
CC-01-35	Water	6/09/2008
CC-01-20	Water	6/09/2008
BB-05-70	Water	6/10/2008
BB-05-50	Water	6/10/2008
BB-05-35	Water	6/10/2008
BB-06-70	Water	6/10/2008
BB-06-50	Water	6/10/2008
BB-06-35	Water	6/10/2008

Sample Name	Sample Matrix	Collection Date
CC-02-55	Water	6/09/2008
CC-02-35	Water	6/09/2008
CC-02-20	Water	6/09/2008
CC-03-70	Water	6/09/2008
CC-03-55	Water	6/09/2008
CC-03-35	Water	6/09/2008
CC-03-20	Water	6/09/2008
CC-04-55	Water	6/09/2008
CC-04-35	Water	6/09/2008
CC-04-20	Water	6/09/2008
CC-05-55	Water	6/09/2008
CC-05-35	Water	6/09/2008
CC-05-20	Water	6/09/2008
CC-06-70	Water	6/09/2008
CC-06-55	Water	6/09/2008
CC-06-35	Water	6/09/2008
BB-01-70	Water	6/10/2008
BB-01-50	Water	6/10/2008
BB-01-35	Water	6/10/2008
BB-02-70	Water	6/10/2008
BB-02-50	Water	6/10/2008
BB-02-35	Water	6/10/2008
BB-03-85	Water	6/10/2008
BB-03-70	Water	6/10/2008
BB-03-50	Water	6/10/2008
BB-03-35	Water	6/10/2008
BB-04-70	Water	6/10/2008
BB-04-50	Water	6/10/2008
BB-04-35	Water	6/10/2008

The analysis and opinions expressed in this report are based upon data obtained from the samples collected at the indicated locations and from other information discussed in this report. Exceptions, if any, are discussed in the accompanying sample comments. This report is prepared for the exclusive use of our client for specific application to the project discussed and has been prepared in accordance with generally accepted practices. Reported results shall not be reproduced, except in full, without written approval of the lab. The sample results relate only to the analytes of interest tested. No warranties, expressed or implied are intended or made.

I certify that the data contained in this final report has been generated and reviewed in accordance with approved methods and our Standard Operating Procedure. Release of this final report is authorized by Laboratory management, which is verified by the following signature.

Approval Signature

6/12/08
Date

ON-SITE CHEMICAL ANALYSIS

Samples were analyzed on-site and quantified for volatile organic compounds in accordance with modified US EPA Method 8021B. Samples were concentrated with an OI-Analytical Model 4560 purge and trap sample concentrator. The purge and trap sample concentrator is directly connected to a Hewlett Packard 5890 series II gas chromatograph. The samples were split and analyzed by a tandem photo ionization detector (PID) and flame ionization detector (FID). The other part of the split was analyzed by a halogen specific detector (XSD). The results of the chemical analysis are summarized in Table 1.

The following quality assurance/quality control measures were conducted to ensure the validity of the analytical results:

- A five point calibration curve for the method target compounds was established.
- A prepared standard was run to verify the calibration curve.
- A reagent water blank was run to assure the entire analytical system was free of interferences prior to sample analysis.
- A surrogate standard (4-bromofluorobenzene) was run with each sample to monitor retention time accuracy and concentration efficiency.
- A spike and spike duplicate were run to confirm precision and accuracy of the analytical system and to identify possible matrix effects.

POTENTIAL QUALIFIERS

1	Method detection limit (MDL) study completed on 05/30/2008 in Lab ID: 53OH.
2	Water sample results reported in micrograms per liter (µg/l) or parts per billion (ppb).
2	Soil samples are reported in milligrams per kilogram (mg/kg) or parts per million (ppm) and are wet weight results
3	Surrogate (1,4-Bromofluorobenzene) added to confirm retention time and concentration accuracy.
U	Represents less than the method reporting limit.
I	Not quantifiable due to sample interference.
J	Estimated value outside of calibration range.
J*	Reported value above MDL but below RL.
B	Compound found in blank.
*	Low surrogate recovery due to sample matrix effects.

MATRIX ENVIRONMENTAL LLC

Mobile Lab Analytical Report
Mobile Lab: [illegible] OH
Matrix Type: [illegible]

PO Box 364
Galena, OH
740-965-8271

Client:	RMT	Matrix Project Number:	056-OHPL-08
Project Name:	Roscoe	Collection Date:	6/3/2008
Project Location:	Roscoe, IL	Report Date:	6/4/2008

Sample ID: AA-01-30

Analyte	Result[4]	Qualifier	RL	MDL[1]	Dilution	Units	Date Analyzed	Analytical Method
Benzene	1	U	1	0.15	1	µg/l	6/3/2008	SW846 8021
Bromodichloromethane	1	U	1	0.50	1	µg/l	6/3/2008	SW846 8021
1,2 Dibromoethane	1	U	1	0.45	1	µg/l	6/3/2008	SW846 8021
Bromoform	10	U	10	0.89	1	µg/l	6/3/2008	SW846 8021
Carbon Tetrachoride	1	U	1	0.41	1	µg/l	6/3/2008	SW846 8021
Chlorobenzene	1	U	1	0.44	1	µg/l	6/3/2008	SW846 8021
Chloroethane	10	U	10	2.84	1	µg/l	6/3/2008	SW846 8021
Chloroform	1	U	1	0.43	1	µg/l	6/3/2008	SW846 8021
Dibromochloromethane	5	U	5	0.92	1	µg/l	6/3/2008	SW846 8021
1,2-Dichlorobenzene	1	U	1	0.37	1	µg/l	6/3/2008	SW846 8021
1,3-Dichlorobenzene	1	U	1	0.44	1	µg/l	6/3/2008	SW846 8021
1,4-Dichlorobenzene	1	U	1	0.22	1	µg/l	6/3/2008	SW846 8021
1,1-Dichloroethane	1	U	1	0.40	1	µg/l	6/3/2008	SW846 8021
1,2-Dichloroethane	1	U	1	0.38	1	µg/l	6/3/2008	SW846 8021
1,1-Dichloroethene	1	U	1	0.48	1	µg/l	6/3/2008	SW846 8021
Cis-1,2-Dichloroethene	7		1	0.45	1	µg/l	6/3/2008	SW846 8021
Trans-1,2-Dichloroethene	1	U	1	0.43	1	µg/l	6/3/2008	SW846 8021
1,2-Dichloropropane	1	U	1	0.41	1	µg/l	6/3/2008	SW846 8021
Cis-1,3-Dichloropropene	1	U	1	0.18	1	µg/l	6/3/2008	SW846 8021
Trans-1,3-Dichloropropene	1	U	1	0.36	1	µg/l	6/3/2008	SW846 8021
Ethyl benzene	1	U	1	0.38	1	µg/l	6/3/2008	SW846 8021
Methylene Chloride	1	U	1	0.46	1	µg/l	6/3/2008	SW846 8021
1,1,1,2-Tetrachloroethane	1	U	1	0.38	1	µg/l	6/3/2008	SW846 8021
1,1,2,2-Tetrachloroethane	1	U	1	0.22	1	µg/l	6/3/2008	SW846 8021
Tetrachloroethene	1	U	1	0.27	1	µg/l	6/3/2008	SW846 8021
Toluene	2	U	2	0.49	1	µg/l	6/3/2008	SW846 8021
1,1,1-Trichloroethane	1	U	1	0.35	1	µg/l	6/3/2008	SW846 8021
1,1,2-Trichloroethane	1	U	1	0.32	1	µg/l	6/3/2008	SW846 8021
Trichloroethene	1	U	1	0.36	1	µg/l	6/3/2008	SW846 8021
Vinyl Chloride	2	U	2	0.89	1	µg/l	6/3/2008	SW846 8021
Total Xylenes	3	U	3	0.41	1	µg/l	6/3/2008	SW846 8021
1,4-Bromofluorobenzene[2]	104%					% Recovery		

MATRIX ENVIRONMENTAL LLC

Mobile Lab Analytical Report
Mobile Lab ID: OH
Matrix Type: Water

PO Box 364
Galena, OH
740-965-8271

Client:	RMT	Matrix Project Number:	056-OHPL-08
Project Name:	Roscoe	Collection Date:	6/3/2008
Project Location:	Roscoe, IL	Report Date:	6/4/2008

Sample ID: AA-01-40

Analyte	Result[4]	Qualifier	RL	MDL[1]	Dilution	Units	Date Analyzed	Analytical Method
Benzene	1	U	1	0.15	1	µg/l	6/3/2008	SW846 8021
Bromodichloromethane	1	U	1	0.50	1	µg/l	6/3/2008	SW846 8021
1,2 Dibromoethane	1	U	1	0.45	1	µg/l	6/3/2008	SW846 8021
Bromoform	10	U	10	0.89	1	µg/l	6/3/2008	SW846 8021
Carbon Tetrachoride	1	U	1	0.41	1	µg/l	6/3/2008	SW846 8021
Chlorobenzene	1	U	1	0.44	1	µg/l	6/3/2008	SW846 8021
Chloroethane	10	U	10	2.84	1	µg/l	6/3/2008	SW846 8021
Chloroform	1	U	1	0.43	1	µg/l	6/3/2008	SW846 8021
Dibromochloromethane	5	U	5	0.92	1	µg/l	6/3/2008	SW846 8021
1,2-Dichlorobenzene	1	U	1	0.37	1	µg/l	6/3/2008	SW846 8021
1,3-Dichlorobenzene	1	U	1	0.44	1	µg/l	6/3/2008	SW846 8021
1,4-Dichlorobenzene	1	U	1	0.22	1	µg/l	6/3/2008	SW846 8021
1,1-Dichloroethane	1	U	1	0.40	1	µg/l	6/3/2008	SW846 8021
1,2-Dichloroethane	1	U	1	0.38	1	µg/l	6/3/2008	SW846 8021
1,1-Dichloroethene	1	U	1	0.48	1	µg/l	6/3/2008	SW846 8021
Cis-1,2-Dichloroethene	1	U	1	0.45	1	µg/l	6/3/2008	SW846 8021
Trans-1,2-Dichloroethene	1	U	1	0.43	1	µg/l	6/3/2008	SW846 8021
1,2-Dichloropropane	1	U	1	0.41	1	µg/l	6/3/2008	SW846 8021
Cis-1,3-Dichloropropene	1	U	1	0.18	1	µg/l	6/3/2008	SW846 8021
Trans-1,3-Dichloropropene	1	U	1	0.36	1	µg/l	6/3/2008	SW846 8021
Ethyl benzene	1	U	1	0.38	1	µg/l	6/3/2008	SW846 8021
Methylene Chloride	1	U	1	0.46	1	µg/l	6/3/2008	SW846 8021
1,1,1,2-Tetrachloroethane	1	U	1	0.38	1	µg/l	6/3/2008	SW846 8021
1,1,2,2-Tetrachloroethane	1	U	1	0.22	1	µg/l	6/3/2008	SW846 8021
Tetrachloroethene	1	U	1	0.27	1	µg/l	6/3/2008	SW846 8021
Toluene	2	U	2	0.49	1	µg/l	6/3/2008	SW846 8021
1,1,1-Trichloroethane	1	U	1	0.35	1	µg/l	6/3/2008	SW846 8021
1,1,2-Trichloroethane	1	U	1	0.32	1	µg/l	6/3/2008	SW846 8021
Trichloroethene	1	U	1	0.36	1	µg/l	6/3/2008	SW846 8021
Vinyl Chloride	2	U	2	0.89	1	µg/l	6/3/2008	SW846 8021
Total Xylenes	3	U	3	0.41	1	µg/l	6/3/2008	SW846 8021
1,4-Bromofluorobenzene[2]	112%					% Recovery		

MATRIX ENVIRONMENTAL LLC

Mobile Lab Analytical Report
Mobile Lab ID: OH
Matrix Type: Water

PO Box 364
Galena, OH
740-965-8271

Client:	RMT	Matrix Project Number:	056-OHPL-08
Project Name:	Roscoe	Collection Date:	6/3/2008
Project Location:	Roscoe, IL	Report Date:	6/4/2008

Sample ID: AA-02-30

Analyte	Result[4]	Qualifier	RL	MDL[1]	Dilution	Units	Date Analyzed	Analytical Method
Benzene	1	U	1	0.15	1	µg/l	6/3/2008	SW846 8021
Bromodichloromethane	1	U	1	0.50	1	µg/l	6/3/2008	SW846 8021
1,2 Dibromoethane	1	U	1	0.45	1	µg/l	6/3/2008	SW846 8021
Bromoform	10	U	10	0.89	1	µg/l	6/3/2008	SW846 8021
Carbon Tetrachoride	1	U	1	0.41	1	µg/l	6/3/2008	SW846 8021
Chlorobenzene	1	U	1	0.44	1	µg/l	6/3/2008	SW846 8021
Chloroethane	10	U	10	2.84	1	µg/l	6/3/2008	SW846 8021
Chloroform	1	U	1	0.43	1	µg/l	6/3/2008	SW846 8021
Dibromochloromethane	5	U	5	0.92	1	µg/l	6/3/2008	SW846 8021
1,2-Dichlorobenzene	1	U	1	0.37	1	µg/l	6/3/2008	SW846 8021
1,3-Dichlorobenzene	1	U	1	0.44	1	µg/l	6/3/2008	SW846 8021
1,4-Dichlorobenzene	1	U	1	0.22	1	µg/l	6/3/2008	SW846 8021
1,1-Dichloroethane	1	U	1	0.40	1	µg/l	6/3/2008	SW846 8021
1,2-Dichloroethane	1	U	1	0.38	1	µg/l	6/3/2008	SW846 8021
1,1-Dichloroethene	1	U	1	0.48	1	µg/l	6/3/2008	SW846 8021
Cis-1,2-Dichloroethene	19		1	0.45	1	µg/l	6/3/2008	SW846 8021
Trans-1,2-Dichloroethene	1	U	1	0.43	1	µg/l	6/3/2008	SW846 8021
1,2-Dichloropropane	1	U	1	0.41	1	µg/l	6/3/2008	SW846 8021
Cis-1,3-Dichloropropene	1	U	1	0.18	1	µg/l	6/3/2008	SW846 8021
Trans-1,3-Dichloropropene	1	U	1	0.36	1	µg/l	6/3/2008	SW846 8021
Ethyl benzene	1	U	1	0.38	1	µg/l	6/3/2008	SW846 8021
Methylene Chloride	1	U	1	0.46	1	µg/l	6/3/2008	SW846 8021
1,1,1,2-Tetrachloroethane	1	U	1	0.38	1	µg/l	6/3/2008	SW846 8021
1,1,2,2-Tetrachloroethane	1	U	1	0.22	1	µg/l	6/3/2008	SW846 8021
Tetrachloroethene	1	U	1	0.27	1	µg/l	6/3/2008	SW846 8021
Toluene	2	U	2	0.49	1	µg/l	6/3/2008	SW846 8021
1,1,1-Trichloroethane	4		1	0.35	1	µg/l	6/3/2008	SW846 8021
1,1,2-Trichloroethane	1	U	1	0.32	1	µg/l	6/3/2008	SW846 8021
Trichloroethene	1	U	1	0.36	1	µg/l	6/3/2008	SW846 8021
Vinyl Chloride	2	U	2	0.89	1	µg/l	6/3/2008	SW846 8021
Total Xylenes	3	U	3	0.41	1	µg/l	6/3/2008	SW846 8021
1,4-Bromofluorobenzene[2]	101%				% Recovery			

MATRIX ENVIRONMENTAL LLC

Mobile Lab Analytical Report
Mobile Lab ID: OH
Matrix Type: Water

PO Box 364
Galena, OH
740-965-8271

Client:	RMT	Matrix Project Number:	056-OHPL-08
Project Name:	Roscoe	Collection Date:	6/3/2008
Project Location:	Roscoe, IL	Report Date:	6/4/2008

Sample ID: AA-02-35

Analyte	Result[4]	Qualifier	RL	MDL[1]	Dilution	Units	Date Analyzed	Analytical Method
Benzene	1	U	1	0.15	1	µg/l	6/3/2008	SW846 8021
Bromodichloromethane	1	U	1	0.50	1	µg/l	6/3/2008	SW846 8021
1,2 Dibromoethane	1	U	1	0.45	1	µg/l	6/3/2008	SW846 8021
Bromoform	10	U	10	0.89	1	µg/l	6/3/2008	SW846 8021
Carbon Tetrachoride	1	U	1	0.41	1	µg/l	6/3/2008	SW846 8021
Chlorobenzene	1	U	1	0.44	1	µg/l	6/3/2008	SW846 8021
Chloroethane	10	U	10	2.84	1	µg/l	6/3/2008	SW846 8021
Chloroform	1	U	1	0.43	1	µg/l	6/3/2008	SW846 8021
Dibromochloromethane	5	U	5	0.92	1	µg/l	6/3/2008	SW846 8021
1,2-Dichlorobenzene	1	U	1	0.37	1	µg/l	6/3/2008	SW846 8021
1,3-Dichlorobenzene	1	U	1	0.44	1	µg/l	6/3/2008	SW846 8021
1,4-Dichlorobenzene	1	U	1	0.22	1	µg/l	6/3/2008	SW846 8021
1,1-Dichloroethane	1	U	1	0.40	1	µg/l	6/3/2008	SW846 8021
1,2-Dichloroethane	1	U	1	0.38	1	µg/l	6/3/2008	SW846 8021
1,1-Dichloroethene	1	U	1	0.48	1	µg/l	6/3/2008	SW846 8021
Cis-1,2-Dichloroethene	**66**		1	0.45	1	µg/l	6/3/2008	SW846 8021
Trans-1,2-Dichloroethene	1	U	1	0.43	1	µg/l	6/3/2008	SW846 8021
1,2-Dichloropropane	1	U	1	0.41	1	µg/l	6/3/2008	SW846 8021
Cis-1,3-Dichloropropene	1	U	1	0.18	1	µg/l	6/3/2008	SW846 8021
Trans-1,3-Dichloropropene	1	U	1	0.36	1	µg/l	6/3/2008	SW846 8021
Ethyl benzene	1	U	1	0.38	1	µg/l	6/3/2008	SW846 8021
Methylene Chloride	1	U	1	0.46	1	µg/l	6/3/2008	SW846 8021
1,1,1,2-Tetrachloroethane	1	U	1	0.38	1	µg/l	6/3/2008	SW846 8021
1,1,2,2-Tetrachloroethane	1	U	1	0.22	1	µg/l	6/3/2008	SW846 8021
Tetrachloroethene	1	U	1	0.27	1	µg/l	6/3/2008	SW846 8021
Toluene	2	U	2	0.49	1	µg/l	6/3/2008	SW846 8021
1,1,1-Trichloroethane	**10**		1	0.35	1	µg/l	6/3/2008	SW846 8021
1,1,2-Trichloroethane	1	U	1	0.32	1	µg/l	6/3/2008	SW846 8021
Trichloroethene	1	U	1	0.36	1	µg/l	6/3/2008	SW846 8021
Vinyl Chloride	2	U	2	0.89	1	µg/l	6/3/2008	SW846 8021
Total Xylenes	3	U	3	0.41	1	µg/l	6/3/2008	SW846 8021
1,4-Bromofluorobenzene[2]	95%					% Recovery		

MATRIX ENVIRONMENTAL LLC

Mobile Lab Analytical Report
Mobile Lab ID: OH
Matrix Type: Water

PO Box 364
Galena, OH
740-965-8271

Client:	RMT	Matrix Project Number:	056-OHPL-08
Project Name:	Roscoe	Collection Date:	6/3/2008
Project Location:	Roscoe, IL	Report Date:	6/4/2008

Sample ID: AA-02-35 Duplicate

Analyte	Result[4]	Qualifier	RL	MDL[1]	Dilution	Units	Date Analyzed	Analytical Method
Benzene	1	U	1	0.15	1	µg/l	6/3/2008	SW846 8021
Bromodichloromethane	1	U	1	0.50	1	µg/l	6/3/2008	SW846 8021
1,2 Dibromoethane	1	U	1	0.45	1	µg/l	6/3/2008	SW846 8021
Bromoform	10	U	10	0.89	1	µg/l	6/3/2008	SW846 8021
Carbon Tetrachoride	1	U	1	0.41	1	µg/l	6/3/2008	SW846 8021
Chlorobenzene	1	U	1	0.44	1	µg/l	6/3/2008	SW846 8021
Chloroethane	10	U	10	2.84	1	µg/l	6/3/2008	SW846 8021
Chloroform	1	U	1	0.43	1	µg/l	6/3/2008	SW846 8021
Dibromochloromethane	5	U	5	0.92	1	µg/l	6/3/2008	SW846 8021
1,2-Dichlorobenzene	1	U	1	0.37	1	µg/l	6/3/2008	SW846 8021
1,3-Dichlorobenzene	1	U	1	0.44	1	µg/l	6/3/2008	SW846 8021
1,4-Dichlorobenzene	1	U	1	0.22	1	µg/l	6/3/2008	SW846 8021
1,1-Dichloroethane	1	U	1	0.40	1	µg/l	6/3/2008	SW846 8021
1,2-Dichloroethane	1	U	1	0.38	1	µg/l	6/3/2008	SW846 8021
1,1-Dichloroethene	1	U	1	0.48	1	µg/l	6/3/2008	SW846 8021
Cis-1,2-Dichloroethene	**69**		1	0.45	1	µg/l	6/3/2008	SW846 8021
Trans-1,2-Dichloroethene	1	U	1	0.43	1	µg/l	6/3/2008	SW846 8021
1,2-Dichloropropane	1	U	1	0.41	1	µg/l	6/3/2008	SW846 8021
Cis-1,3-Dichloropropene	1	U	1	0.18	1	µg/l	6/3/2008	SW846 8021
Trans-1,3-Dichloropropene	1	U	1	0.36	1	µg/l	6/3/2008	SW846 8021
Ethyl benzene	1	U	1	0.38	1	µg/l	6/3/2008	SW846 8021
Methylene Chloride	1	U	1	0.46	1	µg/l	6/3/2008	SW846 8021
1,1,1,2-Tetrachloroethane	1	U	1	0.38	1	µg/l	6/3/2008	SW846 8021
1,1,2,2-Tetrachloroethane	1	U	1	0.22	1	µg/l	6/3/2008	SW846 8021
Tetrachloroethene	1	U	1	0.27	1	µg/l	6/3/2008	SW846 8021
Toluene	2	U	2	0.49	1	µg/l	6/3/2008	SW846 8021
1,1,1-Trichloroethane	**10**		1	0.35	1	µg/l	6/3/2008	SW846 8021
1,1,2-Trichloroethane	1	U	1	0.32	1	µg/l	6/3/2008	SW846 8021
Trichloroethene	1	U	1	0.36	1	µg/l	6/3/2008	SW846 8021
Vinyl Chloride	2	U	2	0.89	1	µg/l	6/3/2008	SW846 8021
Total Xylenes	3	U	3	0.41	1	µg/l	6/3/2008	SW846 8021
1,4-Bromofluorobenzene[2]	95%					% Recovery		

MATRIX ENVIRONMENTAL LLC

Mobile Lab Analytical Report
Mobile Lab ID: OH
Matrix Type: Water

PO Box 364
Galena, OH
740-965-8271

Client:	RMT	Matrix Project Number:	056-OHPL-08
Project Name:	Roscoe	Collection Date:	6/7/2008
Project Location:	Roscoe, IL	Report Date:	6/7/2008

Sample ID: AA-2-40

Analyte	Result[4]	Qualifier	RL	MDL[1]	Dilution	Units	Date Analyzed	Analytical Method
Benzene	1	U	1	0.15	1	µg/l	6/7/2008	SW846 8021
Bromodichloromethane	1	U	1	0.50	1	µg/l	6/7/2008	SW846 8021
1,2 Dibromoethane	1	U	1	0.45	1	µg/l	6/7/2008	SW846 8021
Bromoform	10	U	10	0.89	1	µg/l	6/7/2008	SW846 8021
Carbon Tetrachoride	1	U	1	0.41	1	µg/l	6/7/2008	SW846 8021
Chlorobenzene	1	U	1	0.44	1	µg/l	6/7/2008	SW846 8021
Chloroethane	10	U	10	2.84	1	µg/l	6/7/2008	SW846 8021
Chloroform	1	U	1	0.43	1	µg/l	6/7/2008	SW846 8021
Dibromochloromethane	5	U	5	0.92	1	µg/l	6/7/2008	SW846 8021
1,2-Dichlorobenzene	1	U	1	0.37	1	µg/l	6/7/2008	SW846 8021
1,3-Dichlorobenzene	1	U	1	0.44	1	µg/l	6/7/2008	SW846 8021
1,4-Dichlorobenzene	1	U	1	0.22	1	µg/l	6/7/2008	SW846 8021
1,1-Dichloroethane	1	U	1	0.40	1	µg/l	6/7/2008	SW846 8021
1,2-Dichloroethane	1	U	1	0.38	1	µg/l	6/7/2008	SW846 8021
1,1-Dichloroethene	1	U	1	0.48	1	µg/l	6/7/2008	SW846 8021
Cis-1,2-Dichloroethene	**41**		1	0.45	1	µg/l	6/7/2008	SW846 8021
Trans-1,2-Dichloroethene	1	U	1	0.43	1	µg/l	6/7/2008	SW846 8021
1,2-Dichloropropane	1	U	1	0.41	1	µg/l	6/7/2008	SW846 8021
Cis-1,3-Dichloropropene	1	U	1	0.18	1	µg/l	6/7/2008	SW846 8021
Trans-1,3-Dichloropropene	1	U	1	0.36	1	µg/l	6/7/2008	SW846 8021
Ethyl benzene	1	U	1	0.38	1	µg/l	6/7/2008	SW846 8021
Methylene Chloride	1	U	1	0.46	1	µg/l	6/7/2008	SW846 8021
1,1,1,2-Tetrachloroethane	1	U	1	0.38	1	µg/l	6/7/2008	SW846 8021
1,1,2,2-Tetrachloroethane	1	U	1	0.22	1	µg/l	6/7/2008	SW846 8021
Tetrachloroethene	1	U	1	0.27	1	µg/l	6/7/2008	SW846 8021
Toluene	2	U	2	0.49	1	µg/l	6/7/2008	SW846 8021
1,1,1-Trichloroethane	1	U	1	0.35	1	µg/l	6/7/2008	SW846 8021
1,1,2-Trichloroethane	1	U	1	0.32	1	µg/l	6/7/2008	SW846 8021
Trichloroethene	**16**		1	0.36	1	µg/l	6/7/2008	SW846 8021
Vinyl Chloride	2	U	2	0.89	1	µg/l	6/7/2008	SW846 8021
Total Xylenes	3	U	3	0.41	1	µg/l	6/7/2008	SW846 8021
1,4-Bromofluorobenzene[2]	108%					% Recovery		

MATRIX ENVIRONMENTAL LLC

Mobile Lab Analytical Report
Mobile Lab ID: [illegible]OH
Matrix Type: Water

PO Box 364
Galena, OH
740-965-8271

Client:	RMT	Matrix Project Number:	056-OHPL-08
Project Name:	Roscoe	Collection Date:	6/7/2008
Project Location:	Roscoe, IL	Report Date:	6/7/2008

Sample ID: AA-2-45

Analyte	Result[4]	Qualifier	RL	MDL[1]	Dilution	Units	Date Analyzed	Analytical Method
Benzene	1	U	1	0.15	1	µg/l	6/7/2008	SW846 8021
Bromodichloromethane	1	U	1	0.50	1	µg/l	6/7/2008	SW846 8021
1,2 Dibromoethane	1	U	1	0.45	1	µg/l	6/7/2008	SW846 8021
Bromoform	10	U	10	0.89	1	µg/l	6/7/2008	SW846 8021
Carbon Tetrachoride	1	U	1	0.41	1	µg/l	6/7/2008	SW846 8021
Chlorobenzene	1	U	1	0.44	1	µg/l	6/7/2008	SW846 8021
Chloroethane	10	U	10	2.84	1	µg/l	6/7/2008	SW846 8021
Chloroform	1	U	1	0.43	1	µg/l	6/7/2008	SW846 8021
Dibromochloromethane	5	U	5	0.92	1	µg/l	6/7/2008	SW846 8021
1,2-Dichlorobenzene	1	U	1	0.37	1	µg/l	6/7/2008	SW846 8021
1,3-Dichlorobenzene	1	U	1	0.44	1	µg/l	6/7/2008	SW846 8021
1,4-Dichlorobenzene	1	U	1	0.22	1	µg/l	6/7/2008	SW846 8021
1,1-Dichloroethane	1	U	1	0.40	1	µg/l	6/7/2008	SW846 8021
1,2-Dichloroethane	1	U	1	0.38	1	µg/l	6/7/2008	SW846 8021
1,1-Dichloroethene	1	U	1	0.48	1	µg/l	6/7/2008	SW846 8021
Cis-1,2-Dichloroethene	1	U	1	0.45	1	µg/l	6/7/2008	SW846 8021
Trans-1,2-Dichloroethene	1	U	1	0.43	1	µg/l	6/7/2008	SW846 8021
1,2-Dichloropropane	1	U	1	0.41	1	µg/l	6/7/2008	SW846 8021
Cis-1,3-Dichloropropene	1	U	1	0.18	1	µg/l	6/7/2008	SW846 8021
Trans-1,3-Dichloropropene	1	U	1	0.36	1	µg/l	6/7/2008	SW846 8021
Ethyl benzene	1	U	1	0.38	1	µg/l	6/7/2008	SW846 8021
Methylene Chloride	1	U	1	0.46	1	µg/l	6/7/2008	SW846 8021
1,1,1,2-Tetrachloroethane	1	U	1	0.38	1	µg/l	6/7/2008	SW846 8021
1,1,2,2-Tetrachloroethane	1	U	1	0.22	1	µg/l	6/7/2008	SW846 8021
Tetrachloroethene	1	U	1	0.27	1	µg/l	6/7/2008	SW846 8021
Toluene	2	U	2	0.49	1	µg/l	6/7/2008	SW846 8021
1,1,1-Trichloroethane	1	U	1	0.35	1	µg/l	6/7/2008	SW846 8021
1,1,2-Trichloroethane	1	U	1	0.32	1	µg/l	6/7/2008	SW846 8021
Trichloroethene	1		1	0.36	1	µg/l	6/7/2008	SW846 8021
Vinyl Chloride	2	U	2	0.89	1	µg/l	6/7/2008	SW846 8021
Total Xylenes	3	U	3	0.41	1	µg/l	6/7/2008	SW846 8021
1,4-Bromofluorobenzene[2]	98%					% Recovery		

MATRIX ENVIRONMENTAL LLC

Mobile Lab Analytical Report
Mobile Lab ID: OH
Matrix Type: Water

PO Box 364
Galena, OH
740-965-8271

Client:	RMT	Matrix Project Number:	056-OHPL-08
Project Name:	Roscoe	Collection Date:	6/7/2008
Project Location:	Roscoe, IL	Report Date:	6/7/2008

Sample ID: AA-2-50

Analyte	Result[4]	Qualifier	RL	MDL[1]	Dilution	Units	Date Analyzed	Analytical Method
Benzene	1	U	1	0.15	1	µg/l	6/7/2008	SW846 8021
Bromodichloromethane	1	U	1	0.50	1	µg/l	6/7/2008	SW846 8021
1,2 Dibromoethane	1	U	1	0.45	1	µg/l	6/7/2008	SW846 8021
Bromoform	10	U	10	0.89	1	µg/l	6/7/2008	SW846 8021
Carbon Tetrachoride	1	U	1	0.41	1	µg/l	6/7/2008	SW846 8021
Chlorobenzene	1	U	1	0.44	1	µg/l	6/7/2008	SW846 8021
Chloroethane	10	U	10	2.84	1	µg/l	6/7/2008	SW846 8021
Chloroform	1	U	1	0.43	1	µg/l	6/7/2008	SW846 8021
Dibromochloromethane	5	U	5	0.92	1	µg/l	6/7/2008	SW846 8021
1,2-Dichlorobenzene	1	U	1	0.37	1	µg/l	6/7/2008	SW846 8021
1,3-Dichlorobenzene	1	U	1	0.44	1	µg/l	6/7/2008	SW846 8021
1,4-Dichlorobenzene	1	U	1	0.22	1	µg/l	6/7/2008	SW846 8021
1,1-Dichloroethane	1	U	1	0.40	1	µg/l	6/7/2008	SW846 8021
1,2-Dichloroethane	1	U	1	0.38	1	µg/l	6/7/2008	SW846 8021
1,1-Dichloroethene	1	U	1	0.48	1	µg/l	6/7/2008	SW846 8021
Cis-1,2-Dichloroethene	1	U	1	0.45	1	µg/l	6/7/2008	SW846 8021
Trans-1,2-Dichloroethene	1	U	1	0.43	1	µg/l	6/7/2008	SW846 8021
1,2-Dichloropropane	1	U	1	0.41	1	µg/l	6/7/2008	SW846 8021
Cis-1,3-Dichloropropene	1	U	1	0.18	1	µg/l	6/7/2008	SW846 8021
Trans-1,3-Dichloropropene	1	U	1	0.36	1	µg/l	6/7/2008	SW846 8021
Ethyl benzene	1	U	1	0.38	1	µg/l	6/7/2008	SW846 8021
Methylene Chloride	1	U	1	0.46	1	µg/l	6/7/2008	SW846 8021
1,1,1,2-Tetrachloroethane	1	U	1	0.38	1	µg/l	6/7/2008	SW846 8021
1,1,2,2-Tetrachloroethane	1	U	1	0.22	1	µg/l	6/7/2008	SW846 8021
Tetrachloroethene	1	U	1	0.27	1	µg/l	6/7/2008	SW846 8021
Toluene	2	U	2	0.49	1	µg/l	6/7/2008	SW846 8021
1,1,1-Trichloroethane	1	U	1	0.35	1	µg/l	6/7/2008	SW846 8021
1,1,2-Trichloroethane	1	U	1	0.32	1	µg/l	6/7/2008	SW846 8021
Trichloroethene	1	U	1	0.36	1	µg/l	6/7/2008	SW846 8021
Vinyl Chloride	2	U	2	0.89	1	µg/l	6/7/2008	SW846 8021
Total Xylenes	3	U	3	0.41	1	µg/l	6/7/2008	SW846 8021
1,4-Bromofluorobenzene[2]	99%					% Recovery		

MATRIX ENVIRONMENTAL LLC

Mobile Lab Analytical Report
Mobile Lab ID: [illegible]H
Matrix Type: Water

PO Box 364
Galena, OH
740-965-8271

Client:	RMT	Matrix Project Number:	056-OHPL-08
Project Name:	Roscoe	Collection Date:	6/3/2008
Project Location:	Roscoe, IL	Report Date:	6/4/2008

Sample ID: AA-03-30

Analyte	Result[4]	Qualifier	RL	MDL[1]	Dilution	Units	Date Analyzed	Analytical Method
Benzene	1	U	1	0.15	1	µg/l	6/3/2008	SW846 8021
Bromodichloromethane	1	U	1	0.50	1	µg/l	6/3/2008	SW846 8021
1,2 Dibromoethane	1	U	1	0.45	1	µg/l	6/3/2008	SW846 8021
Bromoform	10	U	10	0.89	1	µg/l	6/3/2008	SW846 8021
Carbon Tetrachoride	1	U	1	0.41	1	µg/l	6/3/2008	SW846 8021
Chlorobenzene	1	U	1	0.44	1	µg/l	6/3/2008	SW846 8021
Chloroethane	10	U	10	2.84	1	µg/l	6/3/2008	SW846 8021
Chloroform	1	U	1	0.43	1	µg/l	6/3/2008	SW846 8021
Dibromochloromethane	5	U	5	0.92	1	µg/l	6/3/2008	SW846 8021
1,2-Dichlorobenzene	1	U	1	0.37	1	µg/l	6/3/2008	SW846 8021
1,3-Dichlorobenzene	1	U	1	0.44	1	µg/l	6/3/2008	SW846 8021
1,4-Dichlorobenzene	1	U	1	0.22	1	µg/l	6/3/2008	SW846 8021
1,1-Dichloroethane	1	U	1	0.40	1	µg/l	6/3/2008	SW846 8021
1,2-Dichloroethane	1	U	1	0.38	1	µg/l	6/3/2008	SW846 8021
1,1-Dichloroethene	1	U	1	0.48	1	µg/l	6/3/2008	SW846 8021
Cis-1,2-Dichloroethene	1	U	1	0.45	1	µg/l	6/3/2008	SW846 8021
Trans-1,2-Dichloroethene	1	U	1	0.43	1	µg/l	6/3/2008	SW846 8021
1,2-Dichloropropane	1	U	1	0.41	1	µg/l	6/3/2008	SW846 8021
Cis-1,3-Dichloropropene	1	U	1	0.18	1	µg/l	6/3/2008	SW846 8021
Trans-1,3-Dichloropropene	1	U	1	0.36	1	µg/l	6/3/2008	SW846 8021
Ethyl benzene	1	U	1	0.38	1	µg/l	6/3/2008	SW846 8021
Methylene Chloride	1	U	1	0.46	1	µg/l	6/3/2008	SW846 8021
1,1,1,2-Tetrachloroethane	1	U	1	0.38	1	µg/l	6/3/2008	SW846 8021
1,1,2,2-Tetrachloroethane	1	U	1	0.22	1	µg/l	6/3/2008	SW846 8021
Tetrachloroethene	1	U	1	0.27	1	µg/l	6/3/2008	SW846 8021
Toluene	2	U	2	0.49	1	µg/l	6/3/2008	SW846 8021
1,1,1-Trichloroethane	1	U	1	0.35	1	µg/l	6/3/2008	SW846 8021
1,1,2-Trichloroethane	1	U	1	0.32	1	µg/l	6/3/2008	SW846 8021
Trichloroethene	1		1	0.36	1	µg/l	6/3/2008	SW846 8021
Vinyl Chloride	2	U	2	0.89	1	µg/l	6/3/2008	SW846 8021
Total Xylenes	3	U	3	0.41	1	µg/l	6/3/2008	SW846 8021
1,4-Bromofluorobenzene[2]	110%					% Recovery		

MATRIX ENVIRONMENTAL LLC

Mobile Lab Analytical Report
Mobile Lab ID: [illegible]OH
Matrix Type: Water

PO Box 364
Galena, OH
740-965-8271

Client:	RMT	Matrix Project Number:	056-OHPL-08
Project Name:	Roscoe	Collection Date:	6/3/2008
Project Location:	Roscoe, IL	Report Date:	6/4/2008

Sample ID: AA-03-35

Analyte	Result[4]	Qualifier	RL	MDL[1]	Dilution	Units	Date Analyzed	Analytical Method
Benzene	1	U	1	0.15	1	µg/l	6/3/2008	SW846 8021
Bromodichloromethane	1	U	1	0.50	1	µg/l	6/3/2008	SW846 8021
1,2 Dibromoethane	1	U	1	0.45	1	µg/l	6/3/2008	SW846 8021
Bromoform	10	U	10	0.89	1	µg/l	6/3/2008	SW846 8021
Carbon Tetrachoride	1	U	1	0.41	1	µg/l	6/3/2008	SW846 8021
Chlorobenzene	1	U	1	0.44	1	µg/l	6/3/2008	SW846 8021
Chloroethane	10	U	10	2.84	1	µg/l	6/3/2008	SW846 8021
Chloroform	1	U	1	0.43	1	µg/l	6/3/2008	SW846 8021
Dibromochloromethane	5	U	5	0.92	1	µg/l	6/3/2008	SW846 8021
1,2-Dichlorobenzene	1	U	1	0.37	1	µg/l	6/3/2008	SW846 8021
1,3-Dichlorobenzene	1	U	1	0.44	1	µg/l	6/3/2008	SW846 8021
1,4-Dichlorobenzene	1	U	1	0.22	1	µg/l	6/3/2008	SW846 8021
1,1-Dichloroethane	1	U	1	0.40	1	µg/l	6/3/2008	SW846 8021
1,2-Dichloroethane	1	U	1	0.38	1	µg/l	6/3/2008	SW846 8021
1,1-Dichloroethene	1	U	1	0.48	1	µg/l	6/3/2008	SW846 8021
Cis-1,2-Dichloroethene	**8**		1	0.45	1	µg/l	6/3/2008	SW846 8021
Trans-1,2-Dichloroethene	1	U	1	0.43	1	µg/l	6/3/2008	SW846 8021
1,2-Dichloropropane	1	U	1	0.41	1	µg/l	6/3/2008	SW846 8021
Cis-1,3-Dichloropropene	1	U	1	0.18	1	µg/l	6/3/2008	SW846 8021
Trans-1,3-Dichloropropene	1	U	1	0.36	1	µg/l	6/3/2008	SW846 8021
Ethyl benzene	1	U	1	0.38	1	µg/l	6/3/2008	SW846 8021
Methylene Chloride	1	U	1	0.46	1	µg/l	6/3/2008	SW846 8021
1,1,1,2-Tetrachloroethane	1	U	1	0.38	1	µg/l	6/3/2008	SW846 8021
1,1,2,2-Tetrachloroethane	1	U	1	0.22	1	µg/l	6/3/2008	SW846 8021
Tetrachloroethene	1	U	1	0.27	1	µg/l	6/3/2008	SW846 8021
Toluene	2	U	2	0.49	1	µg/l	6/3/2008	SW846 8021
1,1,1-Trichloroethane	**6**		1	0.35	1	µg/l	6/3/2008	SW846 8021
1,1,2-Trichloroethane	1	U	1	0.32	1	µg/l	6/3/2008	SW846 8021
Trichloroethene	**11**		1	0.36	1	µg/l	6/3/2008	SW846 8021
Vinyl Chloride	2	U	2	0.89	1	µg/l	6/3/2008	SW846 8021
Total Xylenes	3	U	3	0.41	1	µg/l	6/3/2008	SW846 8021
1,4-Bromofluorobenzene[2]	112%					% Recovery		

MATRIX ENVIRONMENTAL LLC

Mobile Lab Analytical Report
Mobile Lab ID: [illegible]OH
Matrix Type: Water

PO Box 364
Galena, OH
740-965-8271

Client:	RMT	Matrix Project Number:	056-OHPL-08
Project Name:	Roscoe	Collection Date:	6/3/2008
Project Location:	Roscoe, IL	Report Date:	6/4/2008

Sample ID: AA-04-30

Analyte	Result[4]	Qualifier	RL	MDL[1]	Dilution	Units	Date Analyzed	Analytical Method
Benzene	1	U	1	0.15	1	µg/l	6/3/2008	SW846 8021
Bromodichloromethane	1	U	1	0.50	1	µg/l	6/3/2008	SW846 8021
1,2 Dibromoethane	1	U	1	0.45	1	µg/l	6/3/2008	SW846 8021
Bromoform	10	U	10	0.89	1	µg/l	6/3/2008	SW846 8021
Carbon Tetrachoride	1	U	1	0.41	1	µg/l	6/3/2008	SW846 8021
Chlorobenzene	1	U	1	0.44	1	µg/l	6/3/2008	SW846 8021
Chloroethane	10	U	10	2.84	1	µg/l	6/3/2008	SW846 8021
Chloroform	1	U	1	0.43	1	µg/l	6/3/2008	SW846 8021
Dibromochloromethane	5	U	5	0.92	1	µg/l	6/3/2008	SW846 8021
1,2-Dichlorobenzene	1	U	1	0.37	1	µg/l	6/3/2008	SW846 8021
1,3-Dichlorobenzene	1	U	1	0.44	1	µg/l	6/3/2008	SW846 8021
1,4-Dichlorobenzene	1	U	1	0.22	1	µg/l	6/3/2008	SW846 8021
1,1-Dichloroethane	1	U	1	0.40	1	µg/l	6/3/2008	SW846 8021
1,2-Dichloroethane	1	U	1	0.38	1	µg/l	6/3/2008	SW846 8021
1,1-Dichloroethene	1	U	1	0.48	1	µg/l	6/3/2008	SW846 8021
Cis-1,2-Dichloroethene	1	U	1	0.45	1	µg/l	6/3/2008	SW846 8021
Trans-1,2-Dichloroethene	1	U	1	0.43	1	µg/l	6/3/2008	SW846 8021
1,2-Dichloropropane	1	U	1	0.41	1	µg/l	6/3/2008	SW846 8021
Cis-1,3-Dichloropropene	1	U	1	0.18	1	µg/l	6/3/2008	SW846 8021
Trans-1,3-Dichloropropene	1	U	1	0.36	1	µg/l	6/3/2008	SW846 8021
Ethyl benzene	1	U	1	0.38	1	µg/l	6/3/2008	SW846 8021
Methylene Chloride	1	U	1	0.46	1	µg/l	6/3/2008	SW846 8021
1,1,1,2-Tetrachloroethane	1	U	1	0.38	1	µg/l	6/3/2008	SW846 8021
1,1,2,2-Tetrachloroethane	1	U	1	0.22	1	µg/l	6/3/2008	SW846 8021
Tetrachloroethene	1	U	1	0.27	1	µg/l	6/3/2008	SW846 8021
Toluene	2	U	2	0.49	1	µg/l	6/3/2008	SW846 8021
1,1,1-Trichloroethane	1	U	1	0.35	1	µg/l	6/3/2008	SW846 8021
1,1,2-Trichloroethane	1	U	1	0.32	1	µg/l	6/3/2008	SW846 8021
Trichloroethene	1	U	1	0.36	1	µg/l	6/3/2008	SW846 8021
Vinyl Chloride	2	U	2	0.89	1	µg/l	6/3/2008	SW846 8021
Total Xylenes	3	U	3	0.41	1	µg/l	6/3/2008	SW846 8021
1,4-Bromofluorobenzene[2]	112%					% Recovery		

MATRIX ENVIRONMENTAL LLC

Mobile Lab Analytical Report
Mobile Lab ID: [illegible]OH
Matrix Type: Water

PO Box 364
Galena, OH
740-965-8271

Client:	RMT	Matrix Project Number:	056-OHPL-08
Project Name:	Roscoe	Collection Date:	6/3/2008
Project Location:	Roscoe, IL	Report Date:	6/4/2008

Sample ID: AA-04-35

Analyte	Result[1]	Qualifier	RL	MDL[1]	Dilution	Units	Date Analyzed	Analytical Method
Benzene	1	U	1	0.15	1	µg/l	6/3/2008	SW846 8021
Bromodichloromethane	1	U	1	0.50	1	µg/l	6/3/2008	SW846 8021
1,2 Dibromoethane	1	U	1	0.45	1	µg/l	6/3/2008	SW846 8021
Bromoform	10	U	10	0.89	1	µg/l	6/3/2008	SW846 8021
Carbon Tetrachoride	1	U	1	0.41	1	µg/l	6/3/2008	SW846 8021
Chlorobenzene	1	U	1	0.44	1	µg/l	6/3/2008	SW846 8021
Chloroethane	10	U	10	2.84	1	µg/l	6/3/2008	SW846 8021
Chloroform	1	U	1	0.43	1	µg/l	6/3/2008	SW846 8021
Dibromochloromethane	5	U	5	0.92	1	µg/l	6/3/2008	SW846 8021
1,2-Dichlorobenzene	1	U	1	0.37	1	µg/l	6/3/2008	SW846 8021
1,3-Dichlorobenzene	1	U	1	0.44	1	µg/l	6/3/2008	SW846 8021
1,4-Dichlorobenzene	1	U	1	0.22	1	µg/l	6/3/2008	SW846 8021
1,1-Dichloroethane	1	U	1	0.40	1	µg/l	6/3/2008	SW846 8021
1,2-Dichloroethane	1	U	1	0.38	1	µg/l	6/3/2008	SW846 8021
1,1-Dichloroethene	1	U	1	0.48	1	µg/l	6/3/2008	SW846 8021
Cis-1,2-Dichloroethene	**2**		1	0.45	1	µg/l	6/3/2008	SW846 8021
Trans-1,2-Dichloroethene	1	U	1	0.43	1	µg/l	6/3/2008	SW846 8021
1,2-Dichloropropane	1	U	1	0.41	1	µg/l	6/3/2008	SW846 8021
Cis-1,3-Dichloropropene	1	U	1	0.18	1	µg/l	6/3/2008	SW846 8021
Trans-1,3-Dichloropropene	1	U	1	0.36	1	µg/l	6/3/2008	SW846 8021
Ethyl benzene	1	U	1	0.38	1	µg/l	6/3/2008	SW846 8021
Methylene Chloride	1	U	1	0.46	1	µg/l	6/3/2008	SW846 8021
1,1,1,2-Tetrachloroethane	1	U	1	0.38	1	µg/l	6/3/2008	SW846 8021
1,1,2,2-Tetrachloroethane	1	U	1	0.22	1	µg/l	6/3/2008	SW846 8021
Tetrachloroethene	1	U	1	0.27	1	µg/l	6/3/2008	SW846 8021
Toluene	2	U	2	0.49	1	µg/l	6/3/2008	SW846 8021
1,1,1-Trichloroethane	1	U	1	0.35	1	µg/l	6/3/2008	SW846 8021
1,1,2-Trichloroethane	1	U	1	0.32	1	µg/l	6/3/2008	SW846 8021
Trichloroethene	**2**		1	0.36	1	µg/l	6/3/2008	SW846 8021
Vinyl Chloride	2	U	2	0.89	1	µg/l	6/3/2008	SW846 8021
Total Xylenes	3	U	3	0.41	1	µg/l	6/3/2008	SW846 8021
1,4-Bromofluorobenzene[2]	100%					% Recovery		

MATRIX ENVIRONMENTAL LLC

Mobile Lab Analytical Report
Mobile Lab ID: OH
Matrix Type: Water

PO Box 364
Galena, OH
740-965-8271

Client:	RMT	Matrix Project Number:	056-OHPL-08
Project Name:	Roscoe	Collection Date:	6/3/2008
Project Location:	Roscoe, IL	Report Date:	6/4/2008

Sample ID: AA-05-30

Analyte	Result[4]	Qualifier	RL	MDL[1]	Dilution	Units	Date Analyzed	Analytical Method
Benzene	1	U	1	0.15	1	µg/l	6/3/2008	SW846 8021
Bromodichloromethane	1	U	1	0.50	1	µg/l	6/3/2008	SW846 8021
1,2 Dibromoethane	1	U	1	0.45	1	µg/l	6/3/2008	SW846 8021
Bromoform	10	U	10	0.89	1	µg/l	6/3/2008	SW846 8021
Carbon Tetrachoride	1	U	1	0.41	1	µg/l	6/3/2008	SW846 8021
Chlorobenzene	1	U	1	0.44	1	µg/l	6/3/2008	SW846 8021
Chloroethane	10	U	10	2.84	1	µg/l	6/3/2008	SW846 8021
Chloroform	1	U	1	0.43	1	µg/l	6/3/2008	SW846 8021
Dibromochloromethane	5	U	5	0.92	1	µg/l	6/3/2008	SW846 8021
1,2-Dichlorobenzene	1	U	1	0.37	1	µg/l	6/3/2008	SW846 8021
1,3-Dichlorobenzene	1	U	1	0.44	1	µg/l	6/3/2008	SW846 8021
1,4-Dichlorobenzene	1	U	1	0.22	1	µg/l	6/3/2008	SW846 8021
1,1-Dichloroethane	1	U	1	0.40	1	µg/l	6/3/2008	SW846 8021
1,2-Dichloroethane	1	U	1	0.38	1	µg/l	6/3/2008	SW846 8021
1,1-Dichloroethene	1	U	1	0.48	1	µg/l	6/3/2008	SW846 8021
Cis-1,2-Dichloroethene	2		1	0.45	1	µg/l	6/3/2008	SW846 8021
Trans-1,2-Dichloroethene	1	U	1	0.43	1	µg/l	6/3/2008	SW846 8021
1,2-Dichloropropane	1	U	1	0.41	1	µg/l	6/3/2008	SW846 8021
Cis-1,3-Dichloropropene	1	U	1	0.18	1	µg/l	6/3/2008	SW846 8021
Trans-1,3-Dichloropropene	1	U	1	0.36	1	µg/l	6/3/2008	SW846 8021
Ethyl benzene	1	U	1	0.38	1	µg/l	6/3/2008	SW846 8021
Methylene Chloride	1	U	1	0.46	1	µg/l	6/3/2008	SW846 8021
1,1,1,2-Tetrachloroethane	1	U	1	0.38	1	µg/l	6/3/2008	SW846 8021
1,1,2,2-Tetrachloroethane	1	U	1	0.22	1	µg/l	6/3/2008	SW846 8021
Tetrachloroethene	1	U	1	0.27	1	µg/l	6/3/2008	SW846 8021
Toluene	2	U	2	0.49	1	µg/l	6/3/2008	SW846 8021
1,1,1-Trichloroethane	1	U	1	0.35	1	µg/l	6/3/2008	SW846 8021
1,1,2-Trichloroethane	1	U	1	0.32	1	µg/l	6/3/2008	SW846 8021
Trichloroethene	1		1	0.36	1	µg/l	6/3/2008	SW846 8021
Vinyl Chloride	2	U	2	0.89	1	µg/l	6/3/2008	SW846 8021
Total Xylenes	3	U	3	0.41	1	µg/l	6/3/2008	SW846 8021
1,4-Bromofluorobenzene[2]	103%					% Recovery		

MATRIX ENVIRONMENTAL LLC

Mobile Lab Analytical Report
Mobile Lab ID: OH
Matrix Type: Water

PO Box 364
Galena, OH
740-965-8271

Client:	RMT	Matrix Project Number:	056-OHPL-08
Project Name:	Roscoe	Collection Date:	6/3/2008
Project Location:	Roscoe, IL	Report Date:	6/4/2008

Sample ID: AA-05-35

Analyte	Result[4]	Qualifier	RL	MDL[1]	Dilution	Units	Date Analyzed	Analytical Method
Benzene	1	U	1	0.15	1	µg/l	6/3/2008	SW846 8021
Bromodichloromethane	1	U	1	0.50	1	µg/l	6/3/2008	SW846 8021
1,2 Dibromoethane	1	U	1	0.45	1	µg/l	6/3/2008	SW846 8021
Bromoform	10	U	10	0.89	1	µg/l	6/3/2008	SW846 8021
Carbon Tetrachoride	1	U	1	0.41	1	µg/l	6/3/2008	SW846 8021
Chlorobenzene	1	U	1	0.44	1	µg/l	6/3/2008	SW846 8021
Chloroethane	10	U	10	2.84	1	µg/l	6/3/2008	SW846 8021
Chloroform	1	U	1	0.43	1	µg/l	6/3/2008	SW846 8021
Dibromochloromethane	5	U	5	0.92	1	µg/l	6/3/2008	SW846 8021
1,2-Dichlorobenzene	1	U	1	0.37	1	µg/l	6/3/2008	SW846 8021
1,3-Dichlorobenzene	1	U	1	0.44	1	µg/l	6/3/2008	SW846 8021
1,4-Dichlorobenzene	1	U	1	0.22	1	µg/l	6/3/2008	SW846 8021
1,1-Dichloroethane	1	U	1	0.40	1	µg/l	6/3/2008	SW846 8021
1,2-Dichloroethane	1	U	1	0.38	1	µg/l	6/3/2008	SW846 8021
1,1-Dichloroethene	1	U	1	0.48	1	µg/l	6/3/2008	SW846 8021
Cis-1,2-Dichloroethene	**42**		1	0.45	1	µg/l	6/3/2008	SW846 8021
Trans-1,2-Dichloroethene	1	U	1	0.43	1	µg/l	6/3/2008	SW846 8021
1,2-Dichloropropane	1	U	1	0.41	1	µg/l	6/3/2008	SW846 8021
Cis-1,3-Dichloropropene	1	U	1	0.18	1	µg/l	6/3/2008	SW846 8021
Trans-1,3-Dichloropropene	1	U	1	0.36	1	µg/l	6/3/2008	SW846 8021
Ethyl benzene	1	U	1	0.38	1	µg/l	6/3/2008	SW846 8021
Methylene Chloride	1	U	1	0.46	1	µg/l	6/3/2008	SW846 8021
1,1,1,2-Tetrachloroethane	1	U	1	0.38	1	µg/l	6/3/2008	SW846 8021
1,1,2,2-Tetrachloroethane	1	U	1	0.22	1	µg/l	6/3/2008	SW846 8021
Tetrachloroethene	1	U	1	0.27	1	µg/l	6/3/2008	SW846 8021
Toluene	2	U	2	0.49	1	µg/l	6/3/2008	SW846 8021
1,1,1-Trichloroethane	1	U	1	0.35	1	µg/l	6/3/2008	SW846 8021
1,1,2-Trichloroethane	1	U	1	0.32	1	µg/l	6/3/2008	SW846 8021
Trichloroethene	**23**		1	0.36	1	µg/l	6/3/2008	SW846 8021
Vinyl Chloride	2	U	2	0.89	1	µg/l	6/3/2008	SW846 8021
Total Xylenes	3	U	3	0.41	1	µg/l	6/3/2008	SW846 8021
1,4-Bromofluorobenzene[2]	113%					% Recovery		

MATRIX ENVIRONMENTAL LLC

Mobile Lab Analytical Report
Mobile Lab ID: OH
Matrix Type: Water

PO Box 364
Galena, OH
740-965-8271

Client:	RMT	Matrix Project Number:	056-OHPL-08
Project Name:	Roscoe	Collection Date:	6/7/2008
Project Location:	Roscoe, IL	Report Date:	6/7/2008

Sample ID: AA-5-40

Analyte	Result[4]	Qualifier	RL	MDL[1]	Dilution	Units	Date Analyzed	Analytical Method
Benzene	1	U	1	0.15	1	µg/l	6/7/2008	SW846 8021
Bromodichloromethane	1	U	1	0.50	1	µg/l	6/7/2008	SW846 8021
1,2 Dibromoethane	1	U	1	0.45	1	µg/l	6/7/2008	SW846 8021
Bromoform	10	U	10	0.89	1	µg/l	6/7/2008	SW846 8021
Carbon Tetrachoride	1	U	1	0.41	1	µg/l	6/7/2008	SW846 8021
Chlorobenzene	1	U	1	0.44	1	µg/l	6/7/2008	SW846 8021
Chloroethane	10	U	10	2.84	1	µg/l	6/7/2008	SW846 8021
Chloroform	1	U	1	0.43	1	µg/l	6/7/2008	SW846 8021
Dibromochloromethane	5	U	5	0.92	1	µg/l	6/7/2008	SW846 8021
1,2-Dichlorobenzene	1	U	1	0.37	1	µg/l	6/7/2008	SW846 8021
1,3-Dichlorobenzene	1	U	1	0.44	1	µg/l	6/7/2008	SW846 8021
1,4-Dichlorobenzene	1	U	1	0.22	1	µg/l	6/7/2008	SW846 8021
1,1-Dichloroethane	1	U	1	0.40	1	µg/l	6/7/2008	SW846 8021
1,2-Dichloroethane	1	U	1	0.38	1	µg/l	6/7/2008	SW846 8021
1,1-Dichloroethene	1	U	1	0.48	1	µg/l	6/7/2008	SW846 8021
Cis-1,2-Dichloroethene	**28**		1	0.45	1	µg/l	6/7/2008	SW846 8021
Trans-1,2-Dichloroethene	1	U	1	0.43	1	µg/l	6/7/2008	SW846 8021
1,2-Dichloropropane	1	U	1	0.41	1	µg/l	6/7/2008	SW846 8021
Cis-1,3-Dichloropropene	1	U	1	0.18	1	µg/l	6/7/2008	SW846 8021
Trans-1,3-Dichloropropene	1	U	1	0.36	1	µg/l	6/7/2008	SW846 8021
Ethyl benzene	1	U	1	0.38	1	µg/l	6/7/2008	SW846 8021
Methylene Chloride	1	U	1	0.46	1	µg/l	6/7/2008	SW846 8021
1,1,1,2-Tetrachloroethane	1	U	1	0.38	1	µg/l	6/7/2008	SW846 8021
1,1,2,2-Tetrachloroethane	1	U	1	0.22	1	µg/l	6/7/2008	SW846 8021
Tetrachloroethene	1	U	1	0.27	1	µg/l	6/7/2008	SW846 8021
Toluene	2	U	2	0.49	1	µg/l	6/7/2008	SW846 8021
1,1,1-Trichloroethane	1	U	1	0.35	1	µg/l	6/7/2008	SW846 8021
1,1,2-Trichloroethane	1	U	1	0.32	1	µg/l	6/7/2008	SW846 8021
Trichloroethene	**18**		1	0.36	1	µg/l	6/7/2008	SW846 8021
Vinyl Chloride	2	U	2	0.89	1	µg/l	6/7/2008	SW846 8021
Total Xylenes	3	U	3	0.41	1	µg/l	6/7/2008	SW846 8021
1,4-Bromofluorobenzene[2]	95%					% Recovery		

MATRIX ENVIRONMENTAL LLC

Mobile Lab Analytical Report
Mobile Lab ID: OH
Matrix Type: Water

PO Box 364
Galena, OH
740-965-8271

Client:	RMT	Matrix Project Number:	056-OHPL-08
Project Name:	Roscoe	Collection Date:	6/7/2008
Project Location:	Roscoe, IL	Report Date:	6/7/2008

Sample ID: AA-5-45

Analyte	Result[4]	Qualifier	RL	MDL[1]	Dilution	Units	Date Analyzed	Analytical Method
Benzene	1	U	1	0.15	1	µg/l	6/7/2008	SW846 8021
Bromodichloromethane	1	U	1	0.50	1	µg/l	6/7/2008	SW846 8021
1,2 Dibromoethane	1	U	1	0.45	1	µg/l	6/7/2008	SW846 8021
Bromoform	10	U	10	0.89	1	µg/l	6/7/2008	SW846 8021
Carbon Tetrachoride	1	U	1	0.41	1	µg/l	6/7/2008	SW846 8021
Chlorobenzene	1	U	1	0.44	1	µg/l	6/7/2008	SW846 8021
Chloroethane	10	U	10	2.84	1	µg/l	6/7/2008	SW846 8021
Chloroform	1	U	1	0.43	1	µg/l	6/7/2008	SW846 8021
Dibromochloromethane	5	U	5	0.92	1	µg/l	6/7/2008	SW846 8021
1,2-Dichlorobenzene	1	U	1	0.37	1	µg/l	6/7/2008	SW846 8021
1,3-Dichlorobenzene	1	U	1	0.44	1	µg/l	6/7/2008	SW846 8021
1,4-Dichlorobenzene	1	U	1	0.22	1	µg/l	6/7/2008	SW846 8021
1,1-Dichloroethane	1	U	1	0.40	1	µg/l	6/7/2008	SW846 8021
1,2-Dichloroethane	1	U	1	0.38	1	µg/l	6/7/2008	SW846 8021
1,1-Dichloroethene	1	U	1	0.48	1	µg/l	6/7/2008	SW846 8021
Cis-1,2-Dichloroethene	**9**		1	0.45	1	µg/l	6/7/2008	SW846 8021
Trans-1,2-Dichloroethene	1	U	1	0.43	1	µg/l	6/7/2008	SW846 8021
1,2-Dichloropropane	1	U	1	0.41	1	µg/l	6/7/2008	SW846 8021
Cis-1,3-Dichloropropene	1	U	1	0.18	1	µg/l	6/7/2008	SW846 8021
Trans-1,3-Dichloropropene	1	U	1	0.36	1	µg/l	6/7/2008	SW846 8021
Ethyl benzene	1	U	1	0.38	1	µg/l	6/7/2008	SW846 8021
Methylene Chloride	1	U	1	0.46	1	µg/l	6/7/2008	SW846 8021
1,1,1,2-Tetrachloroethane	1	U	1	0.38	1	µg/l	6/7/2008	SW846 8021
1,1,2,2-Tetrachloroethane	1	U	1	0.22	1	µg/l	6/7/2008	SW846 8021
Tetrachloroethene	1	U	1	0.27	1	µg/l	6/7/2008	SW846 8021
Toluene	2	U	2	0.49	1	µg/l	6/7/2008	SW846 8021
1,1,1-Trichloroethane	1	U	1	0.35	1	µg/l	6/7/2008	SW846 8021
1,1,2-Trichloroethane	1	U	1	0.32	1	µg/l	6/7/2008	SW846 8021
Trichloroethene	**10**		1	0.36	1	µg/l	6/7/2008	SW846 8021
Vinyl Chloride	2	U	2	0.89	1	µg/l	6/7/2008	SW846 8021
Total Xylenes	3	U	3	0.41	1	µg/l	6/7/2008	SW846 8021
1,4-Bromofluorobenzene[2]	105%					% Recovery		

MATRIX ENVIRONMENTAL LLC

Mobile Lab Analytical Report
Mobile Lab ID: [illegible]OH
Matrix Type: Water

PO Box 364
Galena, OH
740-965-8271

Client:	RMT	Matrix Project Number:	056-OHPL-08
Project Name:	Roscoe	Collection Date:	6/7/2008
Project Location:	Roscoe, IL	Report Date:	6/7/2008

Sample ID: AA-5-50

Analyte	Result[4]	Qualifier	RL	MDL[1]	Dilution	Units	Date Analyzed	Analytical Method
Benzene	1	U	1	0.15	1	µg/l	6/7/2008	SW846 8021
Bromodichloromethane	1	U	1	0.50	1	µg/l	6/7/2008	SW846 8021
1,2 Dibromoethane	1	U	1	0.45	1	µg/l	6/7/2008	SW846 8021
Bromoform	10	U	10	0.89	1	µg/l	6/7/2008	SW846 8021
Carbon Tetrachoride	1	U	1	0.41	1	µg/l	6/7/2008	SW846 8021
Chlorobenzene	1	U	1	0.44	1	µg/l	6/7/2008	SW846 8021
Chloroethane	10	U	10	2.84	1	µg/l	6/7/2008	SW846 8021
Chloroform	1	U	1	0.43	1	µg/l	6/7/2008	SW846 8021
Dibromochloromethane	5	U	5	0.92	1	µg/l	6/7/2008	SW846 8021
1,2-Dichlorobenzene	1	U	1	0.37	1	µg/l	6/7/2008	SW846 8021
1,3-Dichlorobenzene	1	U	1	0.44	1	µg/l	6/7/2008	SW846 8021
1,4-Dichlorobenzene	1	U	1	0.22	1	µg/l	6/7/2008	SW846 8021
1,1-Dichloroethane	1	U	1	0.40	1	µg/l	6/7/2008	SW846 8021
1,2-Dichloroethane	1	U	1	0.38	1	µg/l	6/7/2008	SW846 8021
1,1-Dichloroethene	1	U	1	0.48	1	µg/l	6/7/2008	SW846 8021
Cis-1,2-Dichloroethene	1	U	1	0.45	1	µg/l	6/7/2008	SW846 8021
Trans-1,2-Dichloroethene	1	U	1	0.43	1	µg/l	6/7/2008	SW846 8021
1,2-Dichloropropane	1	U	1	0.41	1	µg/l	6/7/2008	SW846 8021
Cis-1,3-Dichloropropene	1	U	1	0.18	1	µg/l	6/7/2008	SW846 8021
Trans-1,3-Dichloropropene	1	U	1	0.36	1	µg/l	6/7/2008	SW846 8021
Ethyl benzene	1	U	1	0.38	1	µg/l	6/7/2008	SW846 8021
Methylene Chloride	1	U	1	0.46	1	µg/l	6/7/2008	SW846 8021
1,1,1,2-Tetrachloroethane	1	U	1	0.38	1	µg/l	6/7/2008	SW846 8021
1,1,2,2-Tetrachloroethane	1	U	1	0.22	1	µg/l	6/7/2008	SW846 8021
Tetrachloroethene	1	U	1	0.27	1	µg/l	6/7/2008	SW846 8021
Toluene	2	U	2	0.49	1	µg/l	6/7/2008	SW846 8021
1,1,1-Trichloroethane	1	U	1	0.35	1	µg/l	6/7/2008	SW846 8021
1,1,2-Trichloroethane	1	U	1	0.32	1	µg/l	6/7/2008	SW846 8021
Trichloroethene	**2**		1	0.36	1	µg/l	6/7/2008	SW846 8021
Vinyl Chloride	2	U	2	0.89	1	µg/l	6/7/2008	SW846 8021
Total Xylenes	3	U	3	0.41	1	µg/l	6/7/2008	SW846 8021
1,4-Bromofluorobenzene[2]	99%					% Recovery		

MATRIX ENVIRONMENTAL LLC

Mobile Laboratory Report
Mobile Lab ID: OH
Matrix Type: Water

PO Box 364
Galena, OH
740-965-8271

Client:	RMT	Matrix Project Number:	056-OHPL-08
Project Name:	Roscoe	Collection Date:	6/3/2008
Project Location:	Roscoe, IL	Report Date:	6/4/2008

Sample ID: AA-06-30

Analyte	Result[4]	Qualifier	RL	MDL[1]	Dilution	Units	Date Analyzed	Analytical Method
Benzene	1	U	1	0.15	1	µg/l	6/3/2008	SW846 8021
Bromodichloromethane	1	U	1	0.50	1	µg/l	6/3/2008	SW846 8021
1,2 Dibromoethane	1	U	1	0.45	1	µg/l	6/3/2008	SW846 8021
Bromoform	10	U	10	0.89	1	µg/l	6/3/2008	SW846 8021
Carbon Tetrachoride	1	U	1	0.41	1	µg/l	6/3/2008	SW846 8021
Chlorobenzene	1	U	1	0.44	1	µg/l	6/3/2008	SW846 8021
Chloroethane	10	U	10	2.84	1	µg/l	6/3/2008	SW846 8021
Chloroform	1	U	1	0.43	1	µg/l	6/3/2008	SW846 8021
Dibromochloromethane	5	U	5	0.92	1	µg/l	6/3/2008	SW846 8021
1,2-Dichlorobenzene	1	U	1	0.37	1	µg/l	6/3/2008	SW846 8021
1,3-Dichlorobenzene	1	U	1	0.44	1	µg/l	6/3/2008	SW846 8021
1,4-Dichlorobenzene	1	U	1	0.22	1	µg/l	6/3/2008	SW846 8021
1,1-Dichloroethane	1	U	1	0.40	1	µg/l	6/3/2008	SW846 8021
1,2-Dichloroethane	1	U	1	0.38	1	µg/l	6/3/2008	SW846 8021
1,1-Dichloroethene	1	U	1	0.48	1	µg/l	6/3/2008	SW846 8021
Cis-1,2-Dichloroethene	1	U	1	0.45	1	µg/l	6/3/2008	SW846 8021
Trans-1,2-Dichloroethene	1	U	1	0.43	1	µg/l	6/3/2008	SW846 8021
1,2-Dichloropropane	1	U	1	0.41	1	µg/l	6/3/2008	SW846 8021
Cis-1,3-Dichloropropene	1	U	1	0.18	1	µg/l	6/3/2008	SW846 8021
Trans-1,3-Dichloropropene	1	U	1	0.36	1	µg/l	6/3/2008	SW846 8021
Ethyl benzene	1	U	1	0.38	1	µg/l	6/3/2008	SW846 8021
Methylene Chloride	1	U	1	0.46	1	µg/l	6/3/2008	SW846 8021
1,1,1,2-Tetrachloroethane	1	U	1	0.38	1	µg/l	6/3/2008	SW846 8021
1,1,2,2-Tetrachloroethane	1	U	1	0.22	1	µg/l	6/3/2008	SW846 8021
Tetrachloroethene	1	U	1	0.27	1	µg/l	6/3/2008	SW846 8021
Toluene	2	U	2	0.49	1	µg/l	6/3/2008	SW846 8021
1,1,1-Trichloroethane	1	U	1	0.35	1	µg/l	6/3/2008	SW846 8021
1,1,2-Trichloroethane	1	U	1	0.32	1	µg/l	6/3/2008	SW846 8021
Trichloroethene	1	U	1	0.36	1	µg/l	6/3/2008	SW846 8021
Vinyl Chloride	2	U	2	0.89	1	µg/l	6/3/2008	SW846 8021
Total Xylenes	3	U	3	0.41	1	µg/l	6/3/2008	SW846 8021
1,4-Bromofluorobenzene[2]	109%					% Recovery		

MATRIX ENVIRONMENTAL LLC

Mobile Lab Analytical Report
Mobile Lab ID: [illegible]OH
Matrix Type: Water

PO Box 364
Galena, OH
740-965-8271

Client:	RMT	Matrix Project Number:	056-OHPL-08
Project Name:	Roscoe	Collection Date:	6/3/2008
Project Location:	Roscoe, IL	Report Date:	6/4/2008

Sample ID: AA-06-35

Analyte	Result[4]	Qualifier	RL	MDL[1]	Dilution	Units	Date Analyzed	Analytical Method
Benzene	1	U	1	0.15	1	µg/l	6/3/2008	SW846 8021
Bromodichloromethane	1	U	1	0.50	1	µg/l	6/3/2008	SW846 8021
1,2 Dibromoethane	1	U	1	0.45	1	µg/l	6/3/2008	SW846 8021
Bromoform	10	U	10	0.89	1	µg/l	6/3/2008	SW846 8021
Carbon Tetrachoride	1	U	1	0.41	1	µg/l	6/3/2008	SW846 8021
Chlorobenzene	1	U	1	0.44	1	µg/l	6/3/2008	SW846 8021
Chloroethane	10	U	10	2.84	1	µg/l	6/3/2008	SW846 8021
Chloroform	1	U	1	0.43	1	µg/l	6/3/2008	SW846 8021
Dibromochloromethane	5	U	5	0.92	1	µg/l	6/3/2008	SW846 8021
1,2-Dichlorobenzene	1	U	1	0.37	1	µg/l	6/3/2008	SW846 8021
1,3-Dichlorobenzene	1	U	1	0.44	1	µg/l	6/3/2008	SW846 8021
1,4-Dichlorobenzene	1	U	1	0.22	1	µg/l	6/3/2008	SW846 8021
1,1-Dichloroethane	1	U	1	0.40	1	µg/l	6/3/2008	SW846 8021
1,2-Dichloroethane	1	U	1	0.38	1	µg/l	6/3/2008	SW846 8021
1,1-Dichloroethene	1	U	1	0.48	1	µg/l	6/3/2008	SW846 8021
Cis-1,2-Dichloroethene	1	U	1	0.45	1	µg/l	6/3/2008	SW846 8021
Trans-1,2-Dichloroethene	1	U	1	0.43	1	µg/l	6/3/2008	SW846 8021
1,2-Dichloropropane	1	U	1	0.41	1	µg/l	6/3/2008	SW846 8021
Cis-1,3-Dichloropropene	1	U	1	0.18	1	µg/l	6/3/2008	SW846 8021
Trans-1,3-Dichloropropene	1	U	1	0.36	1	µg/l	6/3/2008	SW846 8021
Ethyl benzene	1	U	1	0.38	1	µg/l	6/3/2008	SW846 8021
Methylene Chloride	1	U	1	0.46	1	µg/l	6/3/2008	SW846 8021
1,1,1,2-Tetrachloroethane	1	U	1	0.38	1	µg/l	6/3/2008	SW846 8021
1,1,2,2-Tetrachloroethane	1	U	1	0.22	1	µg/l	6/3/2008	SW846 8021
Tetrachloroethene	1	U	1	0.27	1	µg/l	6/3/2008	SW846 8021
Toluene	2	U	2	0.49	1	µg/l	6/3/2008	SW846 8021
1,1,1-Trichloroethane	1	U	1	0.35	1	µg/l	6/3/2008	SW846 8021
1,1,2-Trichloroethane	1	U	1	0.32	1	µg/l	6/3/2008	SW846 8021
Trichloroethene	1	U	1	0.36	1	µg/l	6/3/2008	SW846 8021
Vinyl Chloride	2	U	2	0.89	1	µg/l	6/3/2008	SW846 8021
Total Xylenes	3	U	3	0.41	1	µg/l	6/3/2008	SW846 8021
1,4-Bromofluorobenzene[2]	99%					% Recovery		

MATRIX ENVIRONMENTAL LLC

Mobile Lab Analytical Report
Mobile Lab ID: [redacted]OH
Matrix Type: Water

PO Box 364
Galena, OH
740-965-8271

Client:	RMT	Matrix Project Number:	056-OHPL-08
Project Name:	Roscoe	Collection Date:	6/3/2008
Project Location:	Roscoe, IL	Report Date:	6/4/2008

Sample ID: AA-07-30

Analyte	Result[4]	Qualifier	RL	MDL[1]	Dilution	Units	Date Analyzed	Analytical Method
Benzene	1	U	1	0.15	1	µg/l	6/3/2008	SW846 8021
Bromodichloromethane	1	U	1	0.50	1	µg/l	6/3/2008	SW846 8021
1,2 Dibromoethane	1	U	1	0.45	1	µg/l	6/3/2008	SW846 8021
Bromoform	10	U	10	0.89	1	µg/l	6/3/2008	SW846 8021
Carbon Tetrachoride	1	U	1	0.41	1	µg/l	6/3/2008	SW846 8021
Chlorobenzene	1	U	1	0.44	1	µg/l	6/3/2008	SW846 8021
Chloroethane	10	U	10	2.84	1	µg/l	6/3/2008	SW846 8021
Chloroform	1	U	1	0.43	1	µg/l	6/3/2008	SW846 8021
Dibromochloromethane	5	U	5	0.92	1	µg/l	6/3/2008	SW846 8021
1,2-Dichlorobenzene	1	U	1	0.37	1	µg/l	6/3/2008	SW846 8021
1,3-Dichlorobenzene	1	U	1	0.44	1	µg/l	6/3/2008	SW846 8021
1,4-Dichlorobenzene	1	U	1	0.22	1	µg/l	6/3/2008	SW846 8021
1,1-Dichloroethane	1	U	1	0.40	1	µg/l	6/3/2008	SW846 8021
1,2-Dichloroethane	1	U	1	0.38	1	µg/l	6/3/2008	SW846 8021
1,1-Dichloroethene	1	U	1	0.48	1	µg/l	6/3/2008	SW846 8021
Cis-1,2-Dichloroethene	1	U	1	0.45	1	µg/l	6/3/2008	SW846 8021
Trans-1,2-Dichloroethene	1	U	1	0.43	1	µg/l	6/3/2008	SW846 8021
1,2-Dichloropropane	1	U	1	0.41	1	µg/l	6/3/2008	SW846 8021
Cis-1,3-Dichloropropene	1	U	1	0.18	1	µg/l	6/3/2008	SW846 8021
Trans-1,3-Dichloropropene	1	U	1	0.36	1	µg/l	6/3/2008	SW846 8021
Ethyl benzene	1	U	1	0.38	1	µg/l	6/3/2008	SW846 8021
Methylene Chloride	1	U	1	0.46	1	µg/l	6/3/2008	SW846 8021
1,1,1,2-Tetrachloroethane	1	U	1	0.38	1	µg/l	6/3/2008	SW846 8021
1,1,2,2-Tetrachloroethane	1	U	1	0.22	1	µg/l	6/3/2008	SW846 8021
Tetrachloroethene	1	U	1	0.27	1	µg/l	6/3/2008	SW846 8021
Toluene	2	U	2	0.49	1	µg/l	6/3/2008	SW846 8021
1,1,1-Trichloroethane	1	U	1	0.35	1	µg/l	6/3/2008	SW846 8021
1,1,2-Trichloroethane	1	U	1	0.32	1	µg/l	6/3/2008	SW846 8021
Trichloroethene	1		1	0.36	1	µg/l	6/3/2008	SW846 8021
Vinyl Chloride	2	U	2	0.89	1	µg/l	6/3/2008	SW846 8021
Total Xylenes	3	U	3	0.41	1	µg/l	6/3/2008	SW846 8021
1,4-Bromofluorobenzene[2]	103%					% Recovery		

MATRIX ENVIRONMENTAL LLC

Mobile Lab Analytical Report
Mobile Lab ID: OH
Matrix Type: Water

PO Box 364
Galena, OH
740-965-8271

Client:	RMT	Matrix Project Number:	056-OHPL-08
Project Name:	Roscoe	Collection Date:	6/4/2008
Project Location:	Roscoe, IL	Report Date:	6/4/2008

Sample ID: AA-07-30 Duplicate

Analyte	Result[1]	Qualifier	RL	MDL[1]	Dilution	Units	Date Analyzed	Analytical Method
Benzene	1	U	1	0.15	1	µg/l	6/3/2008	SW846 8021
Bromodichloromethane	1	U	1	0.50	1	µg/l	6/3/2008	SW846 8021
1,2 Dibromoethane	1	U	1	0.45	1	µg/l	6/3/2008	SW846 8021
Bromoform	10	U	10	0.89	1	µg/l	6/3/2008	SW846 8021
Carbon Tetrachoride	1	U	1	0.41	1	µg/l	6/3/2008	SW846 8021
Chlorobenzene	1	U	1	0.44	1	µg/l	6/3/2008	SW846 8021
Chloroethane	10	U	10	2.84	1	µg/l	6/3/2008	SW846 8021
Chloroform	1	U	1	0.43	1	µg/l	6/3/2008	SW846 8021
Dibromochloromethane	5	U	5	0.92	1	µg/l	6/3/2008	SW846 8021
1,2-Dichlorobenzene	1	U	1	0.37	1	µg/l	6/3/2008	SW846 8021
1,3-Dichlorobenzene	1	U	1	0.44	1	µg/l	6/3/2008	SW846 8021
1,4-Dichlorobenzene	1	U	1	0.22	1	µg/l	6/3/2008	SW846 8021
1,1-Dichloroethane	1	U	1	0.40	1	µg/l	6/3/2008	SW846 8021
1,2-Dichloroethane	1	U	1	0.38	1	µg/l	6/3/2008	SW846 8021
1,1-Dichloroethene	1	U	1	0.48	1	µg/l	6/3/2008	SW846 8021
Cis-1,2-Dichloroethene	1	U	1	0.45	1	µg/l	6/3/2008	SW846 8021
Trans-1,2-Dichloroethene	1	U	1	0.43	1	µg/l	6/3/2008	SW846 8021
1,2-Dichloropropane	1	U	1	0.41	1	µg/l	6/3/2008	SW846 8021
Cis-1,3-Dichloropropene	1	U	1	0.18	1	µg/l	6/3/2008	SW846 8021
Trans-1,3-Dichloropropene	1	U	1	0.36	1	µg/l	6/3/2008	SW846 8021
Ethyl benzene	1	U	1	0.38	1	µg/l	6/3/2008	SW846 8021
Methylene Chloride	1	U	1	0.46	1	µg/l	6/3/2008	SW846 8021
1,1,1,2-Tetrachloroethane	1	U	1	0.38	1	µg/l	6/3/2008	SW846 8021
1,1,2,2-Tetrachloroethane	1	U	1	0.22	1	µg/l	6/3/2008	SW846 8021
Tetrachloroethene	1	U	1	0.27	1	µg/l	6/3/2008	SW846 8021
Toluene	2	U	2	0.49	1	µg/l	6/3/2008	SW846 8021
1,1,1-Trichloroethane	1	U	1	0.35	1	µg/l	6/3/2008	SW846 8021
1,1,2-Trichloroethane	1	U	1	0.32	1	µg/l	6/3/2008	SW846 8021
Trichloroethene	1		1	0.36	1	µg/l	6/3/2008	SW846 8021
Vinyl Chloride	2	U	2	0.89	1	µg/l	6/3/2008	SW846 8021
Total Xylenes	3	U	3	0.41	1	µg/l	6/3/2008	SW846 8021
1,4-Bromofluorobenzene[2]	106%					% Recovery		

MATRIX ENVIRONMENTAL LLC

Mobile Lab Analytical Report
Mobile Lab ID: OH
Matrix Type: Water

PO Box 364
Galena, OH
740-965-8271

Client:	RMT	Matrix Project Number:	056-OHPL-08
Project Name:	Roscoe	Collection Date:	6/3/2008
Project Location:	Roscoe, IL	Report Date:	6/4/2008

Sample ID: AA-07-35

Analyte	Result[4]	Qualifier	RL	MDL[1]	Dilution	Units	Date Analyzed	Analytical Method
Benzene	1	U	1	0.15	1	µg/l	6/3/2008	SW846 8021
Bromodichloromethane	1	U	1	0.50	1	µg/l	6/3/2008	SW846 8021
1,2 Dibromoethane	1	U	1	0.45	1	µg/l	6/3/2008	SW846 8021
Bromoform	10	U	10	0.89	1	µg/l	6/3/2008	SW846 8021
Carbon Tetrachoride	1	U	1	0.41	1	µg/l	6/3/2008	SW846 8021
Chlorobenzene	1	U	1	0.44	1	µg/l	6/3/2008	SW846 8021
Chloroethane	10	U	10	2.84	1	µg/l	6/3/2008	SW846 8021
Chloroform	1	U	1	0.43	1	µg/l	6/3/2008	SW846 8021
Dibromochloromethane	5	U	5	0.92	1	µg/l	6/3/2008	SW846 8021
1,2-Dichlorobenzene	1	U	1	0.37	1	µg/l	6/3/2008	SW846 8021
1,3-Dichlorobenzene	1	U	1	0.44	1	µg/l	6/3/2008	SW846 8021
1,4-Dichlorobenzene	1	U	1	0.22	1	µg/l	6/3/2008	SW846 8021
1,1-Dichloroethane	1	U	1	0.40	1	µg/l	6/3/2008	SW846 8021
1,2-Dichloroethane	1	U	1	0.38	1	µg/l	6/3/2008	SW846 8021
1,1-Dichloroethene	1	U	1	0.48	1	µg/l	6/3/2008	SW846 8021
Cis-1,2-Dichloroethene	1	U	1	0.45	1	µg/l	6/3/2008	SW846 8021
Trans-1,2-Dichloroethene	1	U	1	0.43	1	µg/l	6/3/2008	SW846 8021
1,2-Dichloropropane	1	U	1	0.41	1	µg/l	6/3/2008	SW846 8021
Cis-1,3-Dichloropropene	1	U	1	0.18	1	µg/l	6/3/2008	SW846 8021
Trans-1,3-Dichloropropene	1	U	1	0.36	1	µg/l	6/3/2008	SW846 8021
Ethyl benzene	1	U	1	0.38	1	µg/l	6/3/2008	SW846 8021
Methylene Chloride	1	U	1	0.46	1	µg/l	6/3/2008	SW846 8021
1,1,1,2-Tetrachloroethane	1	U	1	0.38	1	µg/l	6/3/2008	SW846 8021
1,1,2,2-Tetrachloroethane	1	U	1	0.22	1	µg/l	6/3/2008	SW846 8021
Tetrachloroethene	1	U	1	0.27	1	µg/l	6/3/2008	SW846 8021
Toluene	2	U	2	0.49	1	µg/l	6/3/2008	SW846 8021
1,1,1-Trichloroethane	1	U	1	0.35	1	µg/l	6/3/2008	SW846 8021
1,1,2-Trichloroethane	1	U	1	0.32	1	µg/l	6/3/2008	SW846 8021
Trichloroethene	1		1	0.36	1	µg/l	6/3/2008	SW846 8021
Vinyl Chloride	2	U	2	0.89	1	µg/l	6/3/2008	SW846 8021
Total Xylenes	3	U	3	0.41	1	µg/l	6/3/2008	SW846 8021
1,4-Bromofluorobenzene[2]	99%					% Recovery		

MATRIX ENVIRONMENTAL LLC

Mobile Lab Analytical Report
Mobile Lab ID: OH
Matrix Type: Water

PO Box 364
Galena, OH
740-965-8271

Client:	RMT	Matrix Project Number:	056-OHPL-08
Project Name:	Roscoe	Collection Date:	6/4/2008
Project Location:	Roscoe, IL	Report Date:	6/4/2008

Sample ID: AA-08-30

Analyte	Result[4]	Qualifier	RL	MDL[1]	Dilution	Units	Date Analyzed	Analytical Method
Benzene	1	U	1	0.15	1	µg/l	6/4/2008	SW846 8021
Bromodichloromethane	1	U	1	0.50	1	µg/l	6/4/2008	SW846 8021
1,2 Dibromoethane	1	U	1	0.45	1	µg/l	6/4/2008	SW846 8021
Bromoform	10	U	10	0.89	1	µg/l	6/4/2008	SW846 8021
Carbon Tetrachoride	1	U	1	0.41	1	µg/l	6/4/2008	SW846 8021
Chlorobenzene	1	U	1	0.44	1	µg/l	6/4/2008	SW846 8021
Chloroethane	10	U	10	2.84	1	µg/l	6/4/2008	SW846 8021
Chloroform	1	U	1	0.43	1	µg/l	6/4/2008	SW846 8021
Dibromochloromethane	5	U	5	0.92	1	µg/l	6/4/2008	SW846 8021
1,2-Dichlorobenzene	1	U	1	0.37	1	µg/l	6/4/2008	SW846 8021
1,3-Dichlorobenzene	1	U	1	0.44	1	µg/l	6/4/2008	SW846 8021
1,4-Dichlorobenzene	1	U	1	0.22	1	µg/l	6/4/2008	SW846 8021
1,1-Dichloroethane	1	U	1	0.40	1	µg/l	6/4/2008	SW846 8021
1,2-Dichloroethane	1	U	1	0.38	1	µg/l	6/4/2008	SW846 8021
1,1-Dichloroethene	1	U	1	0.48	1	µg/l	6/4/2008	SW846 8021
Cis-1,2-Dichloroethene	**2**		1	0.45	1	µg/l	6/4/2008	SW846 8021
Trans-1,2-Dichloroethene	1	U	1	0.43	1	µg/l	6/4/2008	SW846 8021
1,2-Dichloropropane	1	U	1	0.41	1	µg/l	6/4/2008	SW846 8021
Cis-1,3-Dichloropropene	1	U	1	0.18	1	µg/l	6/4/2008	SW846 8021
Trans-1,3-Dichloropropene	1	U	1	0.36	1	µg/l	6/4/2008	SW846 8021
Ethyl benzene	1	U	1	0.38	1	µg/l	6/4/2008	SW846 8021
Methylene Chloride	1	U	1	0.46	1	µg/l	6/4/2008	SW846 8021
1,1,1,2-Tetrachloroethane	1	U	1	0.38	1	µg/l	6/4/2008	SW846 8021
1,1,2,2-Tetrachloroethane	1	U	1	0.22	1	µg/l	6/4/2008	SW846 8021
Tetrachloroethene	1	U	1	0.27	1	µg/l	6/4/2008	SW846 8021
Toluene	2	U	2	0.49	1	µg/l	6/4/2008	SW846 8021
1,1,1-Trichloroethane	1	U	1	0.35	1	µg/l	6/4/2008	SW846 8021
1,1,2-Trichloroethane	1	U	1	0.32	1	µg/l	6/4/2008	SW846 8021
Trichloroethene	**3**		1	0.36	1	µg/l	6/4/2008	SW846 8021
Vinyl Chloride	2	U	2	0.89	1	µg/l	6/4/2008	SW846 8021
Total Xylenes	3	U	3	0.41	1	µg/l	6/4/2008	SW846 8021
1,4-Bromofluorobenzene[2]	104%					% Recovery		

MATRIX ENVIRONMENTAL LLC

Mobile Lab Analytical Report
Mobile Lab ID: OH
Matrix Type: Water

PO Box 364
Galena, OH
740-965-8271

Client:	RMT	Matrix Project Number:	056-OHPL-08
Project Name:	Roscoe	Collection Date:	6/4/2008
Project Location:	Roscoe, IL	Report Date:	6/4/2008

Sample ID: AA-08-35

Analyte	Result[4]	Qualifier	RL	MDL[1]	Dilution	Units	Date Analyzed	Analytical Method
Benzene	1	U	1	0.15	1	µg/l	6/4/2008	SW846 8021
Bromodichloromethane	1	U	1	0.50	1	µg/l	6/4/2008	SW846 8021
1,2 Dibromoethane	1	U	1	0.45	1	µg/l	6/4/2008	SW846 8021
Bromoform	10	U	10	0.89	1	µg/l	6/4/2008	SW846 8021
Carbon Tetrachoride	1	U	1	0.41	1	µg/l	6/4/2008	SW846 8021
Chlorobenzene	1	U	1	0.44	1	µg/l	6/4/2008	SW846 8021
Chloroethane	10	U	10	2.84	1	µg/l	6/4/2008	SW846 8021
Chloroform	1	U	1	0.43	1	µg/l	6/4/2008	SW846 8021
Dibromochloromethane	5	U	5	0.92	1	µg/l	6/4/2008	SW846 8021
1,2-Dichlorobenzene	1	U	1	0.37	1	µg/l	6/4/2008	SW846 8021
1,3-Dichlorobenzene	1	U	1	0.44	1	µg/l	6/4/2008	SW846 8021
1,4-Dichlorobenzene	1	U	1	0.22	1	µg/l	6/4/2008	SW846 8021
1,1-Dichloroethane	1	U	1	0.40	1	µg/l	6/4/2008	SW846 8021
1,2-Dichloroethane	1	U	1	0.38	1	µg/l	6/4/2008	SW846 8021
1,1-Dichloroethene	1	U	1	0.48	1	µg/l	6/4/2008	SW846 8021
Cis-1,2-Dichloroethene	**45**		1	0.45	1	µg/l	6/4/2008	SW846 8021
Trans-1,2-Dichloroethene	1	U	1	0.43	1	µg/l	6/4/2008	SW846 8021
1,2-Dichloropropane	1	U	1	0.41	1	µg/l	6/4/2008	SW846 8021
Cis-1,3-Dichloropropene	1	U	1	0.18	1	µg/l	6/4/2008	SW846 8021
Trans-1,3-Dichloropropene	1	U	1	0.36	1	µg/l	6/4/2008	SW846 8021
Ethyl benzene	1	U	1	0.38	1	µg/l	6/4/2008	SW846 8021
Methylene Chloride	1	U	1	0.46	1	µg/l	6/4/2008	SW846 8021
1,1,1,2-Tetrachloroethane	1	U	1	0.38	1	µg/l	6/4/2008	SW846 8021
1,1,2,2-Tetrachloroethane	1	U	1	0.22	1	µg/l	6/4/2008	SW846 8021
Tetrachloroethene	1	U	1	0.27	1	µg/l	6/4/2008	SW846 8021
Toluene	2	U	2	0.49	1	µg/l	6/4/2008	SW846 8021
1,1,1-Trichloroethane	1	U	1	0.35	1	µg/l	6/4/2008	SW846 8021
1,1,2-Trichloroethane	1	U	1	0.32	1	µg/l	6/4/2008	SW846 8021
Trichloroethene	**35**		1	0.36	1	µg/l	6/4/2008	SW846 8021
Vinyl Chloride	2	U	2	0.89	1	µg/l	6/4/2008	SW846 8021
Total Xylenes	3	U	3	0.41	1	µg/l	6/4/2008	SW846 8021
1,4-Bromofluorobenzene[2]	106%					% Recovery		

MATRIX ENVIRONMENTAL LLC

Mobile Lab Analytical Report
Mobile Lab ID: OH
Matrix Type: Water

PO Box 364
Galena, OH
740-965-8271

Client:	RMT	Matrix Project Number:	056-OHPL-08
Project Name:	Roscoe	Collection Date:	6/4/2008
Project Location:	Roscoe, IL	Report Date:	6/4/2008

Sample ID: AA-09-30

Analyte	Result[4]	Qualifier	RL	MDL[1]	Dilution	Units	Date Analyzed	Analytical Method
Benzene	1	U	1	0.15	1	µg/l	6/4/2008	SW846 8021
Bromodichloromethane	1	U	1	0.50	1	µg/l	6/4/2008	SW846 8021
1,2 Dibromoethane	1	U	1	0.45	1	µg/l	6/4/2008	SW846 8021
Bromoform	10	U	10	0.89	1	µg/l	6/4/2008	SW846 8021
Carbon Tetrachoride	1	U	1	0.41	1	µg/l	6/4/2008	SW846 8021
Chlorobenzene	1	U	1	0.44	1	µg/l	6/4/2008	SW846 8021
Chloroethane	10	U	10	2.84	1	µg/l	6/4/2008	SW846 8021
Chloroform	1	U	1	0.43	1	µg/l	6/4/2008	SW846 8021
Dibromochloromethane	5	U	5	0.92	1	µg/l	6/4/2008	SW846 8021
1,2-Dichlorobenzene	1	U	1	0.37	1	µg/l	6/4/2008	SW846 8021
1,3-Dichlorobenzene	1	U	1	0.44	1	µg/l	6/4/2008	SW846 8021
1,4-Dichlorobenzene	1	U	1	0.22	1	µg/l	6/4/2008	SW846 8021
1,1-Dichloroethane	1	U	1	0.40	1	µg/l	6/4/2008	SW846 8021
1,2-Dichloroethane	1	U	1	0.38	1	µg/l	6/4/2008	SW846 8021
1,1-Dichloroethene	1	U	1	0.48	1	µg/l	6/4/2008	SW846 8021
Cis-1,2-Dichloroethene	1	U	1	0.45	1	µg/l	6/4/2008	SW846 8021
Trans-1,2-Dichloroethene	1	U	1	0.43	1	µg/l	6/4/2008	SW846 8021
1,2-Dichloropropane	1	U	1	0.41	1	µg/l	6/4/2008	SW846 8021
Cis-1,3-Dichloropropene	1	U	1	0.18	1	µg/l	6/4/2008	SW846 8021
Trans-1,3-Dichloropropene	1	U	1	0.36	1	µg/l	6/4/2008	SW846 8021
Ethyl benzene	1	U	1	0.38	1	µg/l	6/4/2008	SW846 8021
Methylene Chloride	1	U	1	0.46	1	µg/l	6/4/2008	SW846 8021
1,1,1,2-Tetrachloroethane	1	U	1	0.38	1	µg/l	6/4/2008	SW846 8021
1,1,2,2-Tetrachloroethane	1	U	1	0.22	1	µg/l	6/4/2008	SW846 8021
Tetrachloroethene	1	U	1	0.27	1	µg/l	6/4/2008	SW846 8021
Toluene	2	U	2	0.49	1	µg/l	6/4/2008	SW846 8021
1,1,1-Trichloroethane	1	U	1	0.35	1	µg/l	6/4/2008	SW846 8021
1,1,2-Trichloroethane	1	U	1	0.32	1	µg/l	6/4/2008	SW846 8021
Trichloroethene	**2**		1	0.36	1	µg/l	6/4/2008	SW846 8021
Vinyl Chloride	2	U	2	0.89	1	µg/l	6/4/2008	SW846 8021
Total Xylenes	3	U	3	0.41	1	µg/l	6/4/2008	SW846 8021
1,4-Bromofluorobenzene[2]	98%					% Recovery		

MATRIX ENVIRONMENTAL LLC

Mobile Lab Analytical Report
Mobile Lab ID: OH
Matrix Type: Water

PO Box 364
Galena, OH
740-965-8271

Client:	RMT	Matrix Project Number:	056-OHPL-08
Project Name:	Roscoe	Collection Date:	6/4/2008
Project Location:	Roscoe, IL	Report Date:	6/4/2008

Sample ID: AA-09-35

Analyte	Result[4]	Qualifier	RL	MDL[1]	Dilution	Units	Date Analyzed	Analytical Method
Benzene	1	U	1	0.15	1	µg/l	6/4/2008	SW846 8021
Bromodichloromethane	1	U	1	0.50	1	µg/l	6/4/2008	SW846 8021
1,2 Dibromoethane	1	U	1	0.45	1	µg/l	6/4/2008	SW846 8021
Bromoform	10	U	10	0.89	1	µg/l	6/4/2008	SW846 8021
Carbon Tetrachoride	1	U	1	0.41	1	µg/l	6/4/2008	SW846 8021
Chlorobenzene	1	U	1	0.44	1	µg/l	6/4/2008	SW846 8021
Chloroethane	10	U	10	2.84	1	µg/l	6/4/2008	SW846 8021
Chloroform	1	U	1	0.43	1	µg/l	6/4/2008	SW846 8021
Dibromochloromethane	5	U	5	0.92	1	µg/l	6/4/2008	SW846 8021
1,2-Dichlorobenzene	1	U	1	0.37	1	µg/l	6/4/2008	SW846 8021
1,3-Dichlorobenzene	1	U	1	0.44	1	µg/l	6/4/2008	SW846 8021
1,4-Dichlorobenzene	1	U	1	0.22	1	µg/l	6/4/2008	SW846 8021
1,1-Dichloroethane	1	U	1	0.40	1	µg/l	6/4/2008	SW846 8021
1,2-Dichloroethane	1	U	1	0.38	1	µg/l	6/4/2008	SW846 8021
1,1-Dichloroethene	1	U	1	0.48	1	µg/l	6/4/2008	SW846 8021
Cis-1,2-Dichloroethene	**18**		1	0.45	1	µg/l	6/4/2008	SW846 8021
Trans-1,2-Dichloroethene	1	U	1	0.43	1	µg/l	6/4/2008	SW846 8021
1,2-Dichloropropane	1	U	1	0.41	1	µg/l	6/4/2008	SW846 8021
Cis-1,3-Dichloropropene	1	U	1	0.18	1	µg/l	6/4/2008	SW846 8021
Trans-1,3-Dichloropropene	1	U	1	0.36	1	µg/l	6/4/2008	SW846 8021
Ethyl benzene	1	U	1	0.38	1	µg/l	6/4/2008	SW846 8021
Methylene Chloride	1	U	1	0.46	1	µg/l	6/4/2008	SW846 8021
1,1,1,2-Tetrachloroethane	1	U	1	0.38	1	µg/l	6/4/2008	SW846 8021
1,1,2,2-Tetrachloroethane	1	U	1	0.22	1	µg/l	6/4/2008	SW846 8021
Tetrachloroethene	1	U	1	0.27	1	µg/l	6/4/2008	SW846 8021
Toluene	2	U	2	0.49	1	µg/l	6/4/2008	SW846 8021
1,1,1-Trichloroethane	1	U	1	0.35	1	µg/l	6/4/2008	SW846 8021
1,1,2-Trichloroethane	1	U	1	0.32	1	µg/l	6/4/2008	SW846 8021
Trichloroethene	**49**		1	0.36	1	µg/l	6/4/2008	SW846 8021
Vinyl Chloride	2	U	2	0.89	1	µg/l	6/4/2008	SW846 8021
Total Xylenes	3	U	3	0.41	1	µg/l	6/4/2008	SW846 8021
1,4-Bromofluorobenzene[2]	95%					% Recovery		

MATRIX ENVIRONMENTAL LLC

Mobile Lab Analytical Report
Mobile Lab ID: [redacted]OH
Matrix Type: Water

PO Box 364
Galena, OH
740-965-8271

Client:	RMT	Matrix Project Number:	056-OHPL-08
Project Name:	Roscoe	Collection Date:	6/4/2008
Project Location:	Roscoe, IL	Report Date:	6/4/2008

Sample ID: AA-10-30

Analyte	Result[4]	Qualifier	RL	MDL[1]	Dilution	Units	Date Analyzed	Analytical Method
Benzene	1	U	1	0.15	1	µg/l	6/4/2008	SW846 8021
Bromodichloromethane	1	U	1	0.50	1	µg/l	6/4/2008	SW846 8021
1,2 Dibromoethane	1	U	1	0.45	1	µg/l	6/4/2008	SW846 8021
Bromoform	10	U	10	0.89	1	µg/l	6/4/2008	SW846 8021
Carbon Tetrachoride	1	U	1	0.41	1	µg/l	6/4/2008	SW846 8021
Chlorobenzene	1	U	1	0.44	1	µg/l	6/4/2008	SW846 8021
Chloroethane	10	U	10	2.84	1	µg/l	6/4/2008	SW846 8021
Chloroform	1	U	1	0.43	1	µg/l	6/4/2008	SW846 8021
Dibromochloromethane	5	U	5	0.92	1	µg/l	6/4/2008	SW846 8021
1,2-Dichlorobenzene	1	U	1	0.37	1	µg/l	6/4/2008	SW846 8021
1,3-Dichlorobenzene	1	U	1	0.44	1	µg/l	6/4/2008	SW846 8021
1,4-Dichlorobenzene	1	U	1	0.22	1	µg/l	6/4/2008	SW846 8021
1,1-Dichloroethane	1	U	1	0.40	1	µg/l	6/4/2008	SW846 8021
1,2-Dichloroethane	1	U	1	0.38	1	µg/l	6/4/2008	SW846 8021
1,1-Dichloroethene	1	U	1	0.48	1	µg/l	6/4/2008	SW846 8021
Cis-1,2-Dichloroethene	1	U	1	0.45	1	µg/l	6/4/2008	SW846 8021
Trans-1,2-Dichloroethene	1	U	1	0.43	1	µg/l	6/4/2008	SW846 8021
1,2-Dichloropropane	1	U	1	0.41	1	µg/l	6/4/2008	SW846 8021
Cis-1,3-Dichloropropene	1	U	1	0.18	1	µg/l	6/4/2008	SW846 8021
Trans-1,3-Dichloropropene	1	U	1	0.36	1	µg/l	6/4/2008	SW846 8021
Ethyl benzene	1	U	1	0.38	1	µg/l	6/4/2008	SW846 8021
Methylene Chloride	1	U	1	0.46	1	µg/l	6/4/2008	SW846 8021
1,1,1,2-Tetrachloroethane	1	U	1	0.38	1	µg/l	6/4/2008	SW846 8021
1,1,2,2-Tetrachloroethane	1	U	1	0.22	1	µg/l	6/4/2008	SW846 8021
Tetrachloroethene	1	U	1	0.27	1	µg/l	6/4/2008	SW846 8021
Toluene	2	U	2	0.49	1	µg/l	6/4/2008	SW846 8021
1,1,1-Trichloroethane	1	U	1	0.35	1	µg/l	6/4/2008	SW846 8021
1,1,2-Trichloroethane	1	U	1	0.32	1	µg/l	6/4/2008	SW846 8021
Trichloroethene	1		1	0.36	1	µg/l	6/4/2008	SW846 8021
Vinyl Chloride	2	U	2	0.89	1	µg/l	6/4/2008	SW846 8021
Total Xylenes	3	U	3	0.41	1	µg/l	6/4/2008	SW846 8021
1,4-Bromofluorobenzene[2]	107%				% Recovery			

MATRIX ENVIRONMENTAL LLC

Mobile Lab Analytical Report
Mobile Lab ID: [illegible]OH
Matrix Type: Water

PO Box 364
Galena, OH
740-965-8271

Client:	RMT	Matrix Project Number:	056-OHPL-08
Project Name:	Roscoe	Collection Date:	6/4/2008
Project Location:	Roscoe, IL	Report Date:	6/4/2008

Sample ID: AA-10-35

Analyte	Result[4]	Qualifier	RL	MDL[1]	Dilution	Units	Date Analyzed	Analytical Method
Benzene	1	U	1	0.15	1	µg/l	6/4/2008	SW846 8021
Bromodichloromethane	1	U	1	0.50	1	µg/l	6/4/2008	SW846 8021
1,2 Dibromoethane	1	U	1	0.45	1	µg/l	6/4/2008	SW846 8021
Bromoform	10	U	10	0.89	1	µg/l	6/4/2008	SW846 8021
Carbon Tetrachoride	1	U	1	0.41	1	µg/l	6/4/2008	SW846 8021
Chlorobenzene	1	U	1	0.44	1	µg/l	6/4/2008	SW846 8021
Chloroethane	10	U	10	2.84	1	µg/l	6/4/2008	SW846 8021
Chloroform	1	U	1	0.43	1	µg/l	6/4/2008	SW846 8021
Dibromochloromethane	5	U	5	0.92	1	µg/l	6/4/2008	SW846 8021
1,2-Dichlorobenzene	1	U	1	0.37	1	µg/l	6/4/2008	SW846 8021
1,3-Dichlorobenzene	1	U	1	0.44	1	µg/l	6/4/2008	SW846 8021
1,4-Dichlorobenzene	1	U	1	0.22	1	µg/l	6/4/2008	SW846 8021
1,1-Dichloroethane	1	U	1	0.40	1	µg/l	6/4/2008	SW846 8021
1,2-Dichloroethane	1	U	1	0.38	1	µg/l	6/4/2008	SW846 8021
1,1-Dichloroethene	1	U	1	0.48	1	µg/l	6/4/2008	SW846 8021
Cis-1,2-Dichloroethene	1		1	0.45	1	µg/l	6/4/2008	SW846 8021
Trans-1,2-Dichloroethene	1	U	1	0.43	1	µg/l	6/4/2008	SW846 8021
1,2-Dichloropropane	1	U	1	0.41	1	µg/l	6/4/2008	SW846 8021
Cis-1,3-Dichloropropene	1	U	1	0.18	1	µg/l	6/4/2008	SW846 8021
Trans-1,3-Dichloropropene	1	U	1	0.36	1	µg/l	6/4/2008	SW846 8021
Ethyl benzene	1	U	1	0.38	1	µg/l	6/4/2008	SW846 8021
Methylene Chloride	1	U	1	0.46	1	µg/l	6/4/2008	SW846 8021
1,1,1,2-Tetrachloroethane	1	U	1	0.38	1	µg/l	6/4/2008	SW846 8021
1,1,2,2-Tetrachloroethane	1	U	1	0.22	1	µg/l	6/4/2008	SW846 8021
Tetrachloroethene	1	U	1	0.27	1	µg/l	6/4/2008	SW846 8021
Toluene	2	U	2	0.49	1	µg/l	6/4/2008	SW846 8021
1,1,1-Trichloroethane	1	U	1	0.35	1	µg/l	6/4/2008	SW846 8021
1,1,2-Trichloroethane	1	U	1	0.32	1	µg/l	6/4/2008	SW846 8021
Trichloroethene	6		1	0.36	1	µg/l	6/4/2008	SW846 8021
Vinyl Chloride	2	U	2	0.89	1	µg/l	6/4/2008	SW846 8021
Total Xylenes	3	U	3	0.41	1	µg/l	6/4/2008	SW846 8021
1,4-Bromofluorobenzene[2]	104%					% Recovery		

MATRIX ENVIRONMENTAL LLC

Mobile Lab Analytical Report
Mobile Lab ID: OH
Matrix Type: Water

PO Box 364
Galena, OH
740-965-8271

Client:	RMT	Matrix Project Number:	056-OHPL-08
Project Name:	Roscoe	Collection Date:	6/4/2008
Project Location:	Roscoe, IL	Report Date:	6/4/2008

Sample ID: AA-11-30

Analyte	Result[4]	Qualifier	RL	MDL[1]	Dilution	Units	Date Analyzed	Analytical Method
Benzene	1	U	1	0.15	1	µg/l	6/4/2008	SW846 8021
Bromodichloromethane	1	U	1	0.50	1	µg/l	6/4/2008	SW846 8021
1,2 Dibromoethane	1	U	1	0.45	1	µg/l	6/4/2008	SW846 8021
Bromoform	10	U	10	0.89	1	µg/l	6/4/2008	SW846 8021
Carbon Tetrachoride	1	U	1	0.41	1	µg/l	6/4/2008	SW846 8021
Chlorobenzene	1	U	1	0.44	1	µg/l	6/4/2008	SW846 8021
Chloroethane	10	U	10	2.84	1	µg/l	6/4/2008	SW846 8021
Chloroform	1	U	1	0.43	1	µg/l	6/4/2008	SW846 8021
Dibromochloromethane	5	U	5	0.92	1	µg/l	6/4/2008	SW846 8021
1,2-Dichlorobenzene	1	U	1	0.37	1	µg/l	6/4/2008	SW846 8021
1,3-Dichlorobenzene	1	U	1	0.44	1	µg/l	6/4/2008	SW846 8021
1,4-Dichlorobenzene	1	U	1	0.22	1	µg/l	6/4/2008	SW846 8021
1,1-Dichloroethane	1	U	1	0.40	1	µg/l	6/4/2008	SW846 8021
1,2-Dichloroethane	1	U	1	0.38	1	µg/l	6/4/2008	SW846 8021
1,1-Dichloroethene	1	U	1	0.48	1	µg/l	6/4/2008	SW846 8021
Cis-1,2-Dichloroethene	1	U	1	0.45	1	µg/l	6/4/2008	SW846 8021
Trans-1,2-Dichloroethene	1	U	1	0.43	1	µg/l	6/4/2008	SW846 8021
1,2-Dichloropropane	1	U	1	0.41	1	µg/l	6/4/2008	SW846 8021
Cis-1,3-Dichloropropene	1	U	1	0.18	1	µg/l	6/4/2008	SW846 8021
Trans-1,3-Dichloropropene	1	U	1	0.36	1	µg/l	6/4/2008	SW846 8021
Ethyl benzene	1	U	1	0.38	1	µg/l	6/4/2008	SW846 8021
Methylene Chloride	1	U	1	0.46	1	µg/l	6/4/2008	SW846 8021
1,1,1,2-Tetrachloroethane	1	U	1	0.38	1	µg/l	6/4/2008	SW846 8021
1,1,2,2-Tetrachloroethane	1	U	1	0.22	1	µg/l	6/4/2008	SW846 8021
Tetrachloroethene	1	U	1	0.27	1	µg/l	6/4/2008	SW846 8021
Toluene	2	U	2	0.49	1	µg/l	6/4/2008	SW846 8021
1,1,1-Trichloroethane	1	U	1	0.35	1	µg/l	6/4/2008	SW846 8021
1,1,2-Trichloroethane	1	U	1	0.32	1	µg/l	6/4/2008	SW846 8021
Trichloroethene	1		1	0.36	1	µg/l	6/4/2008	SW846 8021
Vinyl Chloride	2	U	2	0.89	1	µg/l	6/4/2008	SW846 8021
Total Xylenes	3	U	3	0.41	1	µg/l	6/4/2008	SW846 8021
1,4-Bromofluorobenzene[2]	108%				% Recovery			

MATRIX ENVIRONMENTAL LLC

Mobile Lab Analytical Report
Mobile Lab ID: OH
Matrix Type: Water

PO Box 364
Galena, OH
740-965-8271

Client:	RMT	Matrix Project Number:	056-OHPL-08
Project Name:	Roscoe	Collection Date:	6/4/2008
Project Location:	Roscoe, IL	Report Date:	6/4/2008

Sample ID: AA-11-35

Analyte	Result[4]	Qualifier	RL	MDL[1]	Dilution	Units	Date Analyzed	Analytical Method
Benzene	1	U	1	0.15	1	µg/l	6/4/2008	SW846 8021
Bromodichloromethane	1	U	1	0.50	1	µg/l	6/4/2008	SW846 8021
1,2 Dibromoethane	1	U	1	0.45	1	µg/l	6/4/2008	SW846 8021
Bromoform	10	U	10	0.89	1	µg/l	6/4/2008	SW846 8021
Carbon Tetrachoride	1	U	1	0.41	1	µg/l	6/4/2008	SW846 8021
Chlorobenzene	1	U	1	0.44	1	µg/l	6/4/2008	SW846 8021
Chloroethane	10	U	10	2.84	1	µg/l	6/4/2008	SW846 8021
Chloroform	1	U	1	0.43	1	µg/l	6/4/2008	SW846 8021
Dibromochloromethane	5	U	5	0.92	1	µg/l	6/4/2008	SW846 8021
1,2-Dichlorobenzene	1	U	1	0.37	1	µg/l	6/4/2008	SW846 8021
1,3-Dichlorobenzene	1	U	1	0.44	1	µg/l	6/4/2008	SW846 8021
1,4-Dichlorobenzene	1	U	1	0.22	1	µg/l	6/4/2008	SW846 8021
1,1-Dichloroethane	1	U	1	0.40	1	µg/l	6/4/2008	SW846 8021
1,2-Dichloroethane	1	U	1	0.38	1	µg/l	6/4/2008	SW846 8021
1,1-Dichloroethene	1	U	1	0.48	1	µg/l	6/4/2008	SW846 8021
Cis-1,2-Dichloroethene	1	U	1	0.45	1	µg/l	6/4/2008	SW846 8021
Trans-1,2-Dichloroethene	1	U	1	0.43	1	µg/l	6/4/2008	SW846 8021
1,2-Dichloropropane	1	U	1	0.41	1	µg/l	6/4/2008	SW846 8021
Cis-1,3-Dichloropropene	1	U	1	0.18	1	µg/l	6/4/2008	SW846 8021
Trans-1,3-Dichloropropene	1	U	1	0.36	1	µg/l	6/4/2008	SW846 8021
Ethyl benzene	1	U	1	0.38	1	µg/l	6/4/2008	SW846 8021
Methylene Chloride	1	U	1	0.46	1	µg/l	6/4/2008	SW846 8021
1,1,1,2-Tetrachloroethane	1	U	1	0.38	1	µg/l	6/4/2008	SW846 8021
1,1,2,2-Tetrachloroethane	1	U	1	0.22	1	µg/l	6/4/2008	SW846 8021
Tetrachloroethene	1	U	1	0.27	1	µg/l	6/4/2008	SW846 8021
Toluene	2	U	2	0.49	1	µg/l	6/4/2008	SW846 8021
1,1,1-Trichloroethane	1	U	1	0.35	1	µg/l	6/4/2008	SW846 8021
1,1,2-Trichloroethane	1	U	1	0.32	1	µg/l	6/4/2008	SW846 8021
Trichloroethene	1		1	0.36	1	µg/l	6/4/2008	SW846 8021
Vinyl Chloride	2	U	2	0.89	1	µg/l	6/4/2008	SW846 8021
Total Xylenes	3	U	3	0.41	1	µg/l	6/4/2008	SW846 8021
1,4-Bromofluorobenzene[2]	108%					% Recovery		

MATRIX ENVIRONMENTAL LLC

Mobile Lab Analytical Report
Mobile Lab ID: OH
Matrix Type: Water

PO Box 364
Galena, OH
740-965-8271

Client:	RMT	Matrix Project Number:	056-OHPL-08
Project Name:	Roscoe	Collection Date:	6/4/2008
Project Location:	Roscoe, IL	Report Date:	6/4/2008

Sample ID: AA-12-30

Analyte	Result[4]	Qualifier	RL	MDL[1]	Dilution	Units	Date Analyzed	Analytical Method
Benzene	1	U	1	0.15	1	µg/l	6/4/2008	SW846 8021
Bromodichloromethane	1	U	1	0.50	1	µg/l	6/4/2008	SW846 8021
1,2 Dibromoethane	1	U	1	0.45	1	µg/l	6/4/2008	SW846 8021
Bromoform	10	U	10	0.89	1	µg/l	6/4/2008	SW846 8021
Carbon Tetrachoride	1	U	1	0.41	1	µg/l	6/4/2008	SW846 8021
Chlorobenzene	1	U	1	0.44	1	µg/l	6/4/2008	SW846 8021
Chloroethane	10	U	10	2.84	1	µg/l	6/4/2008	SW846 8021
Chloroform	1	U	1	0.43	1	µg/l	6/4/2008	SW846 8021
Dibromochloromethane	5	U	5	0.92	1	µg/l	6/4/2008	SW846 8021
1,2-Dichlorobenzene	1	U	1	0.37	1	µg/l	6/4/2008	SW846 8021
1,3-Dichlorobenzene	1	U	1	0.44	1	µg/l	6/4/2008	SW846 8021
1,4-Dichlorobenzene	1	U	1	0.22	1	µg/l	6/4/2008	SW846 8021
1,1-Dichloroethane	1	U	1	0.40	1	µg/l	6/4/2008	SW846 8021
1,2-Dichloroethane	1	U	1	0.38	1	µg/l	6/4/2008	SW846 8021
1,1-Dichloroethene	1	U	1	0.48	1	µg/l	6/4/2008	SW846 8021
Cis-1,2-Dichloroethene	1	U	1	0.45	1	µg/l	6/4/2008	SW846 8021
Trans-1,2-Dichloroethene	1	U	1	0.43	1	µg/l	6/4/2008	SW846 8021
1,2-Dichloropropane	1	U	1	0.41	1	µg/l	6/4/2008	SW846 8021
Cis-1,3-Dichloropropene	1	U	1	0.18	1	µg/l	6/4/2008	SW846 8021
Trans-1,3-Dichloropropene	1	U	1	0.36	1	µg/l	6/4/2008	SW846 8021
Ethyl benzene	1	U	1	0.38	1	µg/l	6/4/2008	SW846 8021
Methylene Chloride	1	U	1	0.46	1	µg/l	6/4/2008	SW846 8021
1,1,1,2-Tetrachloroethane	1	U	1	0.38	1	µg/l	6/4/2008	SW846 8021
1,1,2,2-Tetrachloroethane	1	U	1	0.22	1	µg/l	6/4/2008	SW846 8021
Tetrachloroethene	1	U	1	0.27	1	µg/l	6/4/2008	SW846 8021
Toluene	2	U	2	0.49	1	µg/l	6/4/2008	SW846 8021
1,1,1-Trichloroethane	1	U	1	0.35	1	µg/l	6/4/2008	SW846 8021
1,1,2-Trichloroethane	1	U	1	0.32	1	µg/l	6/4/2008	SW846 8021
Trichloroethene	1		1	0.36	1	µg/l	6/4/2008	SW846 8021
Vinyl Chloride	2	U	2	0.89	1	µg/l	6/4/2008	SW846 8021
Total Xylenes	3	U	3	0.41	1	µg/l	6/4/2008	SW846 8021
1,4-Bromofluorobenzene[2]	95%					% Recovery		

MATRIX ENVIRONMENTAL LLC

Mobile Lab Analytical Report
Mobile Lab ID: OH
Matrix Type: Water

PO Box 364
Galena, OH
740-965-8271

Client:	RMT	Matrix Project Number:	056-OHPL-08
Project Name:	Roscoe	Collection Date:	6/4/2008
Project Location:	Roscoe, IL	Report Date:	6/4/2008

Sample ID: AA-12-35

Analyte	Result[4]	Qualifier	RL	MDL[1]	Dilution	Units	Date Analyzed	Analytical Method
Benzene	1	U	1	0.15	1	µg/l	6/4/2008	SW846 8021
Bromodichloromethane	1	U	1	0.50	1	µg/l	6/4/2008	SW846 8021
1,2 Dibromoethane	1	U	1	0.45	1	µg/l	6/4/2008	SW846 8021
Bromoform	10	U	10	0.89	1	µg/l	6/4/2008	SW846 8021
Carbon Tetrachoride	1	U	1	0.41	1	µg/l	6/4/2008	SW846 8021
Chlorobenzene	1	U	1	0.44	1	µg/l	6/4/2008	SW846 8021
Chloroethane	10	U	10	2.84	1	µg/l	6/4/2008	SW846 8021
Chloroform	1	U	1	0.43	1	µg/l	6/4/2008	SW846 8021
Dibromochloromethane	5	U	5	0.92	1	µg/l	6/4/2008	SW846 8021
1,2-Dichlorobenzene	1	U	1	0.37	1	µg/l	6/4/2008	SW846 8021
1,3-Dichlorobenzene	1	U	1	0.44	1	µg/l	6/4/2008	SW846 8021
1,4-Dichlorobenzene	1	U	1	0.22	1	µg/l	6/4/2008	SW846 8021
1,1-Dichloroethane	1	U	1	0.40	1	µg/l	6/4/2008	SW846 8021
1,2-Dichloroethane	1	U	1	0.38	1	µg/l	6/4/2008	SW846 8021
1,1-Dichloroethene	1	U	1	0.48	1	µg/l	6/4/2008	SW846 8021
Cis-1,2-Dichloroethene	1	U	1	0.45	1	µg/l	6/4/2008	SW846 8021
Trans-1,2-Dichloroethene	1	U	1	0.43	1	µg/l	6/4/2008	SW846 8021
1,2-Dichloropropane	1	U	1	0.41	1	µg/l	6/4/2008	SW846 8021
Cis-1,3-Dichloropropene	1	U	1	0.18	1	µg/l	6/4/2008	SW846 8021
Trans-1,3-Dichloropropene	1	U	1	0.36	1	µg/l	6/4/2008	SW846 8021
Ethyl benzene	1	U	1	0.38	1	µg/l	6/4/2008	SW846 8021
Methylene Chloride	1	U	1	0.46	1	µg/l	6/4/2008	SW846 8021
1,1,1,2-Tetrachloroethane	1	U	1	0.38	1	µg/l	6/4/2008	SW846 8021
1,1,2,2-Tetrachloroethane	1	U	1	0.22	1	µg/l	6/4/2008	SW846 8021
Tetrachloroethene	1	U	1	0.27	1	µg/l	6/4/2008	SW846 8021
Toluene	2	U	2	0.49	1	µg/l	6/4/2008	SW846 8021
1,1,1-Trichloroethane	1	U	1	0.35	1	µg/l	6/4/2008	SW846 8021
1,1,2-Trichloroethane	1	U	1	0.32	1	µg/l	6/4/2008	SW846 8021
Trichloroethene	4		1	0.36	1	µg/l	6/4/2008	SW846 8021
Vinyl Chloride	2	U	2	0.89	1	µg/l	6/4/2008	SW846 8021
Total Xylenes	3	U	3	0.41	1	µg/l	6/4/2008	SW846 8021
1,4-Bromofluorobenzene[2]	107%				% Recovery			

MATRIX ENVIRONMENTAL LLC

Mobile Lab Analytical Report
Mobile Lab ID: OH
Matrix Type: Water

PO Box 364
Galena, OH
740-965-8271

Client:	RMT	Matrix Project Number:	056-OHPL-08
Project Name:	Roscoe	Collection Date:	6/5/2008
Project Location:	Roscoe, IL	Report Date:	6/5/2008

Sample ID: AA-13-30

Analyte	Result[4]	Qualifier	RL	MDL[1]	Dilution	Units	Date Analyzed	Analytical Method
Benzene	1	U	1	0.15	1	µg/l	6/5/2008	SW846 8021
Bromodichloromethane	1	U	1	0.50	1	µg/l	6/5/2008	SW846 8021
1,2 Dibromoethane	1	U	1	0.45	1	µg/l	6/5/2008	SW846 8021
Bromoform	10	U	10	0.89	1	µg/l	6/5/2008	SW846 8021
Carbon Tetrachoride	1	U	1	0.41	1	µg/l	6/5/2008	SW846 8021
Chlorobenzene	1	U	1	0.44	1	µg/l	6/5/2008	SW846 8021
Chloroethane	10	U	10	2.84	1	µg/l	6/5/2008	SW846 8021
Chloroform	1	U	1	0.43	1	µg/l	6/5/2008	SW846 8021
Dibromochloromethane	5	U	5	0.92	1	µg/l	6/5/2008	SW846 8021
1,2-Dichlorobenzene	1	U	1	0.37	1	µg/l	6/5/2008	SW846 8021
1,3-Dichlorobenzene	1	U	1	0.44	1	µg/l	6/5/2008	SW846 8021
1,4-Dichlorobenzene	1	U	1	0.22	1	µg/l	6/5/2008	SW846 8021
1,1-Dichloroethane	1	U	1	0.40	1	µg/l	6/5/2008	SW846 8021
1,2-Dichloroethane	1	U	1	0.38	1	µg/l	6/5/2008	SW846 8021
1,1-Dichloroethene	1	U	1	0.48	1	µg/l	6/5/2008	SW846 8021
Cis-1,2-Dichloroethene	1	U	1	0.45	1	µg/l	6/5/2008	SW846 8021
Trans-1,2-Dichloroethene	1	U	1	0.43	1	µg/l	6/5/2008	SW846 8021
1,2-Dichloropropane	1	U	1	0.41	1	µg/l	6/5/2008	SW846 8021
Cis-1,3-Dichloropropene	1	U	1	0.18	1	µg/l	6/5/2008	SW846 8021
Trans-1,3-Dichloropropene	1	U	1	0.36	1	µg/l	6/5/2008	SW846 8021
Ethyl benzene	1	U	1	0.38	1	µg/l	6/5/2008	SW846 8021
Methylene Chloride	1	U	1	0.46	1	µg/l	6/5/2008	SW846 8021
1,1,1,2-Tetrachloroethane	1	U	1	0.38	1	µg/l	6/5/2008	SW846 8021
1,1,2,2-Tetrachloroethane	1	U	1	0.22	1	µg/l	6/5/2008	SW846 8021
Tetrachloroethene	1	U	1	0.27	1	µg/l	6/5/2008	SW846 8021
Toluene	2	U	2	0.49	1	µg/l	6/5/2008	SW846 8021
1,1,1-Trichloroethane	1	U	1	0.35	1	µg/l	6/5/2008	SW846 8021
1,1,2-Trichloroethane	1	U	1	0.32	1	µg/l	6/5/2008	SW846 8021
Trichloroethene	1	U	1	0.36	1	µg/l	6/5/2008	SW846 8021
Vinyl Chloride	2	U	2	0.89	1	µg/l	6/5/2008	SW846 8021
Total Xylenes	3	U	3	0.41	1	µg/l	6/5/2008	SW846 8021
1,4-Bromofluorobenzene[2]	103%					% Recovery		

MATRIX ENVIRONMENTAL LLC

Mobile Lab Analytical Report
Mobile Lab ID: OH
Matrix Type: Water

PO Box 364
Galena, OH
740-965-8271

Client:	RMT	Matrix Project Number:	056-OHPL-08
Project Name:	Roscoe	Collection Date:	6/5/2008
Project Location:	Roscoe, IL	Report Date:	6/5/2008

Sample ID: AA-13-35

Analyte	Result[4]	Qualifier	RL	MDL[1]	Dilution	Units	Date Analyzed	Analytical Method
Benzene	1	U	1	0.15	1	µg/l	6/5/2008	SW846 8021
Bromodichloromethane	1	U	1	0.50	1	µg/l	6/5/2008	SW846 8021
1,2 Dibromoethane	1	U	1	0.45	1	µg/l	6/5/2008	SW846 8021
Bromoform	10	U	10	0.89	1	µg/l	6/5/2008	SW846 8021
Carbon Tetrachoride	1	U	1	0.41	1	µg/l	6/5/2008	SW846 8021
Chlorobenzene	1	U	1	0.44	1	µg/l	6/5/2008	SW846 8021
Chloroethane	10	U	10	2.84	1	µg/l	6/5/2008	SW846 8021
Chloroform	1	U	1	0.43	1	µg/l	6/5/2008	SW846 8021
Dibromochloromethane	5	U	5	0.92	1	µg/l	6/5/2008	SW846 8021
1,2-Dichlorobenzene	1	U	1	0.37	1	µg/l	6/5/2008	SW846 8021
1,3-Dichlorobenzene	1	U	1	0.44	1	µg/l	6/5/2008	SW846 8021
1,4-Dichlorobenzene	1	U	1	0.22	1	µg/l	6/5/2008	SW846 8021
1,1-Dichloroethane	1	U	1	0.40	1	µg/l	6/5/2008	SW846 8021
1,2-Dichloroethane	1	U	1	0.38	1	µg/l	6/5/2008	SW846 8021
1,1-Dichloroethene	1	U	1	0.48	1	µg/l	6/5/2008	SW846 8021
Cis-1,2-Dichloroethene	1	U	1	0.45	1	µg/l	6/5/2008	SW846 8021
Trans-1,2-Dichloroethene	1	U	1	0.43	1	µg/l	6/5/2008	SW846 8021
1,2-Dichloropropane	1	U	1	0.41	1	µg/l	6/5/2008	SW846 8021
Cis-1,3-Dichloropropene	1	U	1	0.18	1	µg/l	6/5/2008	SW846 8021
Trans-1,3-Dichloropropene	1	U	1	0.36	1	µg/l	6/5/2008	SW846 8021
Ethyl benzene	1	U	1	0.38	1	µg/l	6/5/2008	SW846 8021
Methylene Chloride	1	U	1	0.46	1	µg/l	6/5/2008	SW846 8021
1,1,1,2-Tetrachloroethane	1	U	1	0.38	1	µg/l	6/5/2008	SW846 8021
1,1,2,2-Tetrachloroethane	1	U	1	0.22	1	µg/l	6/5/2008	SW846 8021
Tetrachloroethene	1	U	1	0.27	1	µg/l	6/5/2008	SW846 8021
Toluene	2	U	2	0.49	1	µg/l	6/5/2008	SW846 8021
1,1,1-Trichloroethane	1	U	1	0.35	1	µg/l	6/5/2008	SW846 8021
1,1,2-Trichloroethane	1	U	1	0.32	1	µg/l	6/5/2008	SW846 8021
Trichloroethene	1	U	1	0.36	1	µg/l	6/5/2008	SW846 8021
Vinyl Chloride	2	U	2	0.89	1	µg/l	6/5/2008	SW846 8021
Total Xylenes	3	U	3	0.41	1	µg/l	6/5/2008	SW846 8021
1,4-Bromofluorobenzene[2]	96%					% Recovery		

MATRIX ENVIRONMENTAL LLC

Mobile Lab Analytical Report
Mobile Lab ID: OH
Matrix Type: Water

PO Box 364
Galena, OH
740-965-8271

Client:	RMT	Matrix Project Number:	056-OHPL-08
Project Name:	Roscoe	Collection Date:	6/4/2008
Project Location:	Roscoe, IL	Report Date:	6/4/2008

Sample ID: AA-14-30

Analyte	Result[4]	Qualifier	RL	MDL[1]	Dilution	Units	Date Analyzed	Analytical Method
Benzene	1	U	1	0.15	1	µg/l	6/4/2008	SW846 8021
Bromodichloromethane	1	U	1	0.50	1	µg/l	6/4/2008	SW846 8021
1,2 Dibromoethane	1	U	1	0.45	1	µg/l	6/4/2008	SW846 8021
Bromoform	10	U	10	0.89	1	µg/l	6/4/2008	SW846 8021
Carbon Tetrachoride	1	U	1	0.41	1	µg/l	6/4/2008	SW846 8021
Chlorobenzene	1	U	1	0.44	1	µg/l	6/4/2008	SW846 8021
Chloroethane	10	U	10	2.84	1	µg/l	6/4/2008	SW846 8021
Chloroform	1	U	1	0.43	1	µg/l	6/4/2008	SW846 8021
Dibromochloromethane	5	U	5	0.92	1	µg/l	6/4/2008	SW846 8021
1,2-Dichlorobenzene	1	U	1	0.37	1	µg/l	6/4/2008	SW846 8021
1,3-Dichlorobenzene	1	U	1	0.44	1	µg/l	6/4/2008	SW846 8021
1,4-Dichlorobenzene	1	U	1	0.22	1	µg/l	6/4/2008	SW846 8021
1,1-Dichloroethane	1	U	1	0.40	1	µg/l	6/4/2008	SW846 8021
1,2-Dichloroethane	1	U	1	0.38	1	µg/l	6/4/2008	SW846 8021
1,1-Dichloroethene	1	U	1	0.48	1	µg/l	6/4/2008	SW846 8021
Cis-1,2-Dichloroethene	1	U	1	0.45	1	µg/l	6/4/2008	SW846 8021
Trans-1,2-Dichloroethene	1	U	1	0.43	1	µg/l	6/4/2008	SW846 8021
1,2-Dichloropropane	1	U	1	0.41	1	µg/l	6/4/2008	SW846 8021
Cis-1,3-Dichloropropene	1	U	1	0.18	1	µg/l	6/4/2008	SW846 8021
Trans-1,3-Dichloropropene	1	U	1	0.36	1	µg/l	6/4/2008	SW846 8021
Ethyl benzene	1	U	1	0.38	1	µg/l	6/4/2008	SW846 8021
Methylene Chloride	1	U	1	0.46	1	µg/l	6/4/2008	SW846 8021
1,1,1,2-Tetrachloroethane	1	U	1	0.38	1	µg/l	6/4/2008	SW846 8021
1,1,2,2-Tetrachloroethane	1	U	1	0.22	1	µg/l	6/4/2008	SW846 8021
Tetrachloroethene	1	U	1	0.27	1	µg/l	6/4/2008	SW846 8021
Toluene	2	U	2	0.49	1	µg/l	6/4/2008	SW846 8021
1,1,1-Trichloroethane	1	U	1	0.35	1	µg/l	6/4/2008	SW846 8021
1,1,2-Trichloroethane	1	U	1	0.32	1	µg/l	6/4/2008	SW846 8021
Trichloroethene	1	U	1	0.36	1	µg/l	6/4/2008	SW846 8021
Vinyl Chloride	2	U	2	0.89	1	µg/l	6/4/2008	SW846 8021
Total Xylenes	3	U	3	0.41	1	µg/l	6/4/2008	SW846 8021
1,4-Bromofluorobenzene[2]	95%					% Recovery		

MATRIX ENVIRONMENTAL LLC

Mobile Lab Analytical Report
Mobile Lab ID: OH
Matrix Type: Water

PO Box 364
Galena, OH
740-965-8271

Client:	RMT	Matrix Project Number:	056-OHPL-08
Project Name:	Roscoe	Collection Date:	6/4/2008
Project Location:	Roscoe, IL	Report Date:	6/5/2008

Sample ID: AA-14-30 Duplicate

Analyte	Result[4]	Qualifier	RL	MDL[1]	Dilution	Units	Date Analyzed	Analytical Method
Benzene	1	U	1	0.15	1	µg/l	6/5/2008	SW846 8021
Bromodichloromethane	1	U	1	0.50	1	µg/l	6/5/2008	SW846 8021
1,2 Dibromoethane	1	U	1	0.45	1	µg/l	6/5/2008	SW846 8021
Bromoform	10	U	10	0.89	1	µg/l	6/5/2008	SW846 8021
Carbon Tetrachoride	1	U	1	0.41	1	µg/l	6/5/2008	SW846 8021
Chlorobenzene	1	U	1	0.44	1	µg/l	6/5/2008	SW846 8021
Chloroethane	10	U	10	2.84	1	µg/l	6/5/2008	SW846 8021
Chloroform	1	U	1	0.43	1	µg/l	6/5/2008	SW846 8021
Dibromochloromethane	5	U	5	0.92	1	µg/l	6/5/2008	SW846 8021
1,2-Dichlorobenzene	1	U	1	0.37	1	µg/l	6/5/2008	SW846 8021
1,3-Dichlorobenzene	1	U	1	0.44	1	µg/l	6/5/2008	SW846 8021
1,4-Dichlorobenzene	1	U	1	0.22	1	µg/l	6/5/2008	SW846 8021
1,1-Dichloroethane	1	U	1	0.40	1	µg/l	6/5/2008	SW846 8021
1,2-Dichloroethane	1	U	1	0.38	1	µg/l	6/5/2008	SW846 8021
1,1-Dichloroethene	1	U	1	0.48	1	µg/l	6/5/2008	SW846 8021
Cis-1,2-Dichloroethene	1	U	1	0.45	1	µg/l	6/5/2008	SW846 8021
Trans-1,2-Dichloroethene	1	U	1	0.43	1	µg/l	6/5/2008	SW846 8021
1,2-Dichloropropane	1	U	1	0.41	1	µg/l	6/5/2008	SW846 8021
Cis-1,3-Dichloropropene	1	U	1	0.18	1	µg/l	6/5/2008	SW846 8021
Trans-1,3-Dichloropropene	1	U	1	0.36	1	µg/l	6/5/2008	SW846 8021
Ethyl benzene	1	U	1	0.38	1	µg/l	6/5/2008	SW846 8021
Methylene Chloride	1	U	1	0.46	1	µg/l	6/5/2008	SW846 8021
1,1,1,2-Tetrachloroethane	1	U	1	0.38	1	µg/l	6/5/2008	SW846 8021
1,1,2,2-Tetrachloroethane	1	U	1	0.22	1	µg/l	6/5/2008	SW846 8021
Tetrachloroethene	1	U	1	0.27	1	µg/l	6/5/2008	SW846 8021
Toluene	2	U	2	0.49	1	µg/l	6/5/2008	SW846 8021
1,1,1-Trichloroethane	1	U	1	0.35	1	µg/l	6/5/2008	SW846 8021
1,1,2-Trichloroethane	1	U	1	0.32	1	µg/l	6/5/2008	SW846 8021
Trichloroethene	1	U	1	0.36	1	µg/l	6/5/2008	SW846 8021
Vinyl Chloride	2	U	2	0.89	1	µg/l	6/5/2008	SW846 8021
Total Xylenes	3	U	3	0.41	1	µg/l	6/5/2008	SW846 8021
1,4-Bromofluorobenzene[2]	102%					% Recovery		

MATRIX ENVIRONMENTAL LLC

Mobile Lab Analytical Report
Mobile Lab ID: [illegible]OH
Matrix Type: Water

PO Box 364
Galena, OH
740-965-8271

Client:	RMT	Matrix Project Number:	056-OHPL-08
Project Name:	Roscoe	Collection Date:	6/4/2008
Project Location:	Roscoe, IL	Report Date:	6/4/2008

Sample ID: AA-14-35

Analyte	Result[4]	Qualifier	RL	MDL[1]	Dilution	Units	Date Analyzed	Analytical Method
Benzene	1	U	1	0.15	1	µg/l	6/4/2008	SW846 8021
Bromodichloromethane	1	U	1	0.50	1	µg/l	6/4/2008	SW846 8021
1,2 Dibromoethane	1	U	1	0.45	1	µg/l	6/4/2008	SW846 8021
Bromoform	10	U	10	0.89	1	µg/l	6/4/2008	SW846 8021
Carbon Tetrachoride	1	U	1	0.41	1	µg/l	6/4/2008	SW846 8021
Chlorobenzene	1	U	1	0.44	1	µg/l	6/4/2008	SW846 8021
Chloroethane	10	U	10	2.84	1	µg/l	6/4/2008	SW846 8021
Chloroform	1	U	1	0.43	1	µg/l	6/4/2008	SW846 8021
Dibromochloromethane	5	U	5	0.92	1	µg/l	6/4/2008	SW846 8021
1,2-Dichlorobenzene	1	U	1	0.37	1	µg/l	6/4/2008	SW846 8021
1,3-Dichlorobenzene	1	U	1	0.44	1	µg/l	6/4/2008	SW846 8021
1,4-Dichlorobenzene	1	U	1	0.22	1	µg/l	6/4/2008	SW846 8021
1,1-Dichloroethane	1	U	1	0.40	1	µg/l	6/4/2008	SW846 8021
1,2-Dichloroethane	1	U	1	0.38	1	µg/l	6/4/2008	SW846 8021
1,1-Dichloroethene	1	U	1	0.48	1	µg/l	6/4/2008	SW846 8021
Cis-1,2-Dichloroethene	1	U	1	0.45	1	µg/l	6/4/2008	SW846 8021
Trans-1,2-Dichloroethene	1	U	1	0.43	1	µg/l	6/4/2008	SW846 8021
1,2-Dichloropropane	1	U	1	0.41	1	µg/l	6/4/2008	SW846 8021
Cis-1,3-Dichloropropene	1	U	1	0.18	1	µg/l	6/4/2008	SW846 8021
Trans-1,3-Dichloropropene	1	U	1	0.36	1	µg/l	6/4/2008	SW846 8021
Ethyl benzene	1	U	1	0.38	1	µg/l	6/4/2008	SW846 8021
Methylene Chloride	1	U	1	0.46	1	µg/l	6/4/2008	SW846 8021
1,1,1,2-Tetrachloroethane	1	U	1	0.38	1	µg/l	6/4/2008	SW846 8021
1,1,2,2-Tetrachloroethane	1	U	1	0.22	1	µg/l	6/4/2008	SW846 8021
Tetrachloroethene	1	U	1	0.27	1	µg/l	6/4/2008	SW846 8021
Toluene	2	U	2	0.49	1	µg/l	6/4/2008	SW846 8021
1,1,1-Trichloroethane	1	U	1	0.35	1	µg/l	6/4/2008	SW846 8021
1,1,2-Trichloroethane	1	U	1	0.32	1	µg/l	6/4/2008	SW846 8021
Trichloroethene	1	U	1	0.36	1	µg/l	6/4/2008	SW846 8021
Vinyl Chloride	2	U	2	0.89	1	µg/l	6/4/2008	SW846 8021
Total Xylenes	3	U	3	0.41	1	µg/l	6/4/2008	SW846 8021
1,4-Bromofluorobenzene[2]	106%					% Recovery		

MATRIX ENVIRONMENTAL LLC

Mobile Lab Analytical Report
Mobile Lab ID: OH
Matrix Type: Water

PO Box 364
Galena, OH
740-965-8271

Client:	RMT	Matrix Project Number:	056-OHPL-08
Project Name:	Roscoe	Collection Date:	6/4/2008
Project Location:	Roscoe, IL	Report Date:	6/5/2008

Sample ID: AA-14-35 Duplicate

Analyte	Result[4]	Qualifier	RL	MDL[1]	Dilution	Units	Date Analyzed	Analytical Method
Benzene	1	U	1	0.15	1	µg/l	6/5/2008	SW846 8021
Bromodichloromethane	1	U	1	0.50	1	µg/l	6/5/2008	SW846 8021
1,2 Dibromoethane	1	U	1	0.45	1	µg/l	6/5/2008	SW846 8021
Bromoform	10	U	10	0.89	1	µg/l	6/5/2008	SW846 8021
Carbon Tetrachoride	1	U	1	0.41	1	µg/l	6/5/2008	SW846 8021
Chlorobenzene	1	U	1	0.44	1	µg/l	6/5/2008	SW846 8021
Chloroethane	10	U	10	2.84	1	µg/l	6/5/2008	SW846 8021
Chloroform	1	U	1	0.43	1	µg/l	6/5/2008	SW846 8021
Dibromochloromethane	5	U	5	0.92	1	µg/l	6/5/2008	SW846 8021
1,2-Dichlorobenzene	1	U	1	0.37	1	µg/l	6/5/2008	SW846 8021
1,3-Dichlorobenzene	1	U	1	0.44	1	µg/l	6/5/2008	SW846 8021
1,4-Dichlorobenzene	1	U	1	0.22	1	µg/l	6/5/2008	SW846 8021
1,1-Dichloroethane	1	U	1	0.40	1	µg/l	6/5/2008	SW846 8021
1,2-Dichloroethane	1	U	1	0.38	1	µg/l	6/5/2008	SW846 8021
1,1-Dichloroethene	1	U	1	0.48	1	µg/l	6/5/2008	SW846 8021
Cis-1,2-Dichloroethene	1	U	1	0.45	1	µg/l	6/5/2008	SW846 8021
Trans-1,2-Dichloroethene	1	U	1	0.43	1	µg/l	6/5/2008	SW846 8021
1,2-Dichloropropane	1	U	1	0.41	1	µg/l	6/5/2008	SW846 8021
Cis-1,3-Dichloropropene	1	U	1	0.18	1	µg/l	6/5/2008	SW846 8021
Trans-1,3-Dichloropropene	1	U	1	0.36	1	µg/l	6/5/2008	SW846 8021
Ethyl benzene	1	U	1	0.38	1	µg/l	6/5/2008	SW846 8021
Methylene Chloride	1	U	1	0.46	1	µg/l	6/5/2008	SW846 8021
1,1,1,2-Tetrachloroethane	1	U	1	0.38	1	µg/l	6/5/2008	SW846 8021
1,1,2,2-Tetrachloroethane	1	U	1	0.22	1	µg/l	6/5/2008	SW846 8021
Tetrachloroethene	1	U	1	0.27	1	µg/l	6/5/2008	SW846 8021
Toluene	2	U	2	0.49	1	µg/l	6/5/2008	SW846 8021
1,1,1-Trichloroethane	1	U	1	0.35	1	µg/l	6/5/2008	SW846 8021
1,1,2-Trichloroethane	1	U	1	0.32	1	µg/l	6/5/2008	SW846 8021
Trichloroethene	1	U	1	0.36	1	µg/l	6/5/2008	SW846 8021
Vinyl Chloride	2	U	2	0.89	1	µg/l	6/5/2008	SW846 8021
Total Xylenes	3	U	3	0.41	1	µg/l	6/5/2008	SW846 8021
1,4-Bromofluorobenzene[2]	95%					% Recovery		

MATRIX ENVIRONMENTAL LLC

Mobile Lab Analytical Report
Mobile Lab ID: OH
Matrix Type: Water

PO Box 364
Galena, OH
740-965-8271

Client:	RMT	Matrix Project Number:	056-OHPL-08
Project Name:	Roscoe	Collection Date:	6/4/2008
Project Location:	Roscoe, IL	Report Date:	6/4/2008

Sample ID: AA-15-30

Analyte	Result[4]	Qualifier	RL	MDL[1]	Dilution	Units	Date Analyzed	Analytical Method
Benzene	1	U	1	0.15	1	µg/l	6/4/2008	SW846 8021
Bromodichloromethane	1	U	1	0.50	1	µg/l	6/4/2008	SW846 8021
1,2 Dibromoethane	1	U	1	0.45	1	µg/l	6/4/2008	SW846 8021
Bromoform	10	U	10	0.89	1	µg/l	6/4/2008	SW846 8021
Carbon Tetrachoride	1	U	1	0.41	1	µg/l	6/4/2008	SW846 8021
Chlorobenzene	1	U	1	0.44	1	µg/l	6/4/2008	SW846 8021
Chloroethane	10	U	10	2.84	1	µg/l	6/4/2008	SW846 8021
Chloroform	1	U	1	0.43	1	µg/l	6/4/2008	SW846 8021
Dibromochloromethane	5	U	5	0.92	1	µg/l	6/4/2008	SW846 8021
1,2-Dichlorobenzene	1	U	1	0.37	1	µg/l	6/4/2008	SW846 8021
1,3-Dichlorobenzene	1	U	1	0.44	1	µg/l	6/4/2008	SW846 8021
1,4-Dichlorobenzene	1	U	1	0.22	1	µg/l	6/4/2008	SW846 8021
1,1-Dichloroethane	1	U	1	0.40	1	µg/l	6/4/2008	SW846 8021
1,2-Dichloroethane	1	U	1	0.38	1	µg/l	6/4/2008	SW846 8021
1,1-Dichloroethene	1	U	1	0.48	1	µg/l	6/4/2008	SW846 8021
Cis-1,2-Dichloroethene	1	U	1	0.45	1	µg/l	6/4/2008	SW846 8021
Trans-1,2-Dichloroethene	1	U	1	0.43	1	µg/l	6/4/2008	SW846 8021
1,2-Dichloropropane	1	U	1	0.41	1	µg/l	6/4/2008	SW846 8021
Cis-1,3-Dichloropropene	1	U	1	0.18	1	µg/l	6/4/2008	SW846 8021
Trans-1,3-Dichloropropene	1	U	1	0.36	1	µg/l	6/4/2008	SW846 8021
Ethyl benzene	1	U	1	0.38	1	µg/l	6/4/2008	SW846 8021
Methylene Chloride	1	U	1	0.46	1	µg/l	6/4/2008	SW846 8021
1,1,1,2-Tetrachloroethane	1	U	1	0.38	1	µg/l	6/4/2008	SW846 8021
1,1,2,2-Tetrachloroethane	1	U	1	0.22	1	µg/l	6/4/2008	SW846 8021
Tetrachloroethene	1	U	1	0.27	1	µg/l	6/4/2008	SW846 8021
Toluene	2	U	2	0.49	1	µg/l	6/4/2008	SW846 8021
1,1,1-Trichloroethane	1	U	1	0.35	1	µg/l	6/4/2008	SW846 8021
1,1,2-Trichloroethane	1	U	1	0.32	1	µg/l	6/4/2008	SW846 8021
Trichloroethene	1	U	1	0.36	1	µg/l	6/4/2008	SW846 8021
Vinyl Chloride	2	U	2	0.89	1	µg/l	6/4/2008	SW846 8021
Total Xylenes	3	U	3	0.41	1	µg/l	6/4/2008	SW846 8021
1,4-Bromofluorobenzene[2]	94%					% Recovery		

MATRIX ENVIRONMENTAL LLC

Mobile Lab Analytical Report
Mobile Lab ID: OH
Matrix Type: Water

PO Box 364
Galena, OH
740-965-8271

Client:	RMT	Matrix Project Number:	056-OHPL-08
Project Name:	Roscoe	Collection Date:	6/4/2008
Project Location:	Roscoe, IL	Report Date:	6/5/2008

Sample ID: AA-15-30 Duplicate

Analyte	Result[4]	Qualifier	RL	MDL[1]	Dilution	Units	Date Analyzed	Analytical Method
Benzene	1	U	1	0.15	1	µg/l	6/5/2008	SW846 8021
Bromodichloromethane	1	U	1	0.50	1	µg/l	6/5/2008	SW846 8021
1,2 Dibromoethane	1	U	1	0.45	1	µg/l	6/5/2008	SW846 8021
Bromoform	10	U	10	0.89	1	µg/l	6/5/2008	SW846 8021
Carbon Tetrachoride	1	U	1	0.41	1	µg/l	6/5/2008	SW846 8021
Chlorobenzene	1	U	1	0.44	1	µg/l	6/5/2008	SW846 8021
Chloroethane	10	U	10	2.84	1	µg/l	6/5/2008	SW846 8021
Chloroform	1	U	1	0.43	1	µg/l	6/5/2008	SW846 8021
Dibromochloromethane	5	U	5	0.92	1	µg/l	6/5/2008	SW846 8021
1,2-Dichlorobenzene	1	U	1	0.37	1	µg/l	6/5/2008	SW846 8021
1,3-Dichlorobenzene	1	U	1	0.44	1	µg/l	6/5/2008	SW846 8021
1,4-Dichlorobenzene	1	U	1	0.22	1	µg/l	6/5/2008	SW846 8021
1,1-Dichloroethane	1	U	1	0.40	1	µg/l	6/5/2008	SW846 8021
1,2-Dichloroethane	1	U	1	0.38	1	µg/l	6/5/2008	SW846 8021
1,1-Dichloroethene	1	U	1	0.48	1	µg/l	6/5/2008	SW846 8021
Cis-1,2-Dichloroethene	1	U	1	0.45	1	µg/l	6/5/2008	SW846 8021
Trans-1,2-Dichloroethene	1	U	1	0.43	1	µg/l	6/5/2008	SW846 8021
1,2-Dichloropropane	1	U	1	0.41	1	µg/l	6/5/2008	SW846 8021
Cis-1,3-Dichloropropene	1	U	1	0.18	1	µg/l	6/5/2008	SW846 8021
Trans-1,3-Dichloropropene	1	U	1	0.36	1	µg/l	6/5/2008	SW846 8021
Ethyl benzene	1	U	1	0.38	1	µg/l	6/5/2008	SW846 8021
Methylene Chloride	1	U	1	0.46	1	µg/l	6/5/2008	SW846 8021
1,1,1,2-Tetrachloroethane	1	U	1	0.38	1	µg/l	6/5/2008	SW846 8021
1,1,2,2-Tetrachloroethane	1	U	1	0.22	1	µg/l	6/5/2008	SW846 8021
Tetrachloroethene	1	U	1	0.27	1	µg/l	6/5/2008	SW846 8021
Toluene	2	U	2	0.49	1	µg/l	6/5/2008	SW846 8021
1,1,1-Trichloroethane	1	U	1	0.35	1	µg/l	6/5/2008	SW846 8021
1,1,2-Trichloroethane	1	U	1	0.32	1	µg/l	6/5/2008	SW846 8021
Trichloroethene	1	U	1	0.36	1	µg/l	6/5/2008	SW846 8021
Vinyl Chloride	2	U	2	0.89	1	µg/l	6/5/2008	SW846 8021
Total Xylenes	3	U	3	0.41	1	µg/l	6/5/2008	SW846 8021
1,4-Bromofluorobenzene[2]	94%					% Recovery		

MATRIX ENVIRONMENTAL LLC

Mobile Lab Analytical Report
Mobile Lab ID: OH
Matrix Type: Water

PO Box 364
Galena, OH
740-965-8271

Client:	RMT	Matrix Project Number:	056-OHPL-08
Project Name:	Roscoe	Collection Date:	6/4/2008
Project Location:	Roscoe, IL	Report Date:	6/4/2008

Sample ID: AA-15-35

Analyte	Result[4]	Qualifier	RL	MDL[1]	Dilution	Units	Date Analyzed	Analytical Method
Benzene	1	U	1	0.15	1	µg/l	6/4/2008	SW846 8021
Bromodichloromethane	1	U	1	0.50	1	µg/l	6/4/2008	SW846 8021
1,2 Dibromoethane	1	U	1	0.45	1	µg/l	6/4/2008	SW846 8021
Bromoform	10	U	10	0.89	1	µg/l	6/4/2008	SW846 8021
Carbon Tetrachoride	1	U	1	0.41	1	µg/l	6/4/2008	SW846 8021
Chlorobenzene	1	U	1	0.44	1	µg/l	6/4/2008	SW846 8021
Chloroethane	10	U	10	2.84	1	µg/l	6/4/2008	SW846 8021
Chloroform	1	U	1	0.43	1	µg/l	6/4/2008	SW846 8021
Dibromochloromethane	5	U	5	0.92	1	µg/l	6/4/2008	SW846 8021
1,2-Dichlorobenzene	1	U	1	0.37	1	µg/l	6/4/2008	SW846 8021
1,3-Dichlorobenzene	1	U	1	0.44	1	µg/l	6/4/2008	SW846 8021
1,4-Dichlorobenzene	1	U	1	0.22	1	µg/l	6/4/2008	SW846 8021
1,1-Dichloroethane	1	U	1	0.40	1	µg/l	6/4/2008	SW846 8021
1,2-Dichloroethane	1	U	1	0.38	1	µg/l	6/4/2008	SW846 8021
1,1-Dichloroethene	1	U	1	0.48	1	µg/l	6/4/2008	SW846 8021
Cis-1,2-Dichloroethene	1	U	1	0.45	1	µg/l	6/4/2008	SW846 8021
Trans-1,2-Dichloroethene	1	U	1	0.43	1	µg/l	6/4/2008	SW846 8021
1,2-Dichloropropane	1	U	1	0.41	1	µg/l	6/4/2008	SW846 8021
Cis-1,3-Dichloropropene	1	U	1	0.18	1	µg/l	6/4/2008	SW846 8021
Trans-1,3-Dichloropropene	1	U	1	0.36	1	µg/l	6/4/2008	SW846 8021
Ethyl benzene	1	U	1	0.38	1	µg/l	6/4/2008	SW846 8021
Methylene Chloride	1	U	1	0.46	1	µg/l	6/4/2008	SW846 8021
1,1,1,2-Tetrachloroethane	1	U	1	0.38	1	µg/l	6/4/2008	SW846 8021
1,1,2,2-Tetrachloroethane	1	U	1	0.22	1	µg/l	6/4/2008	SW846 8021
Tetrachloroethene	1	U	1	0.27	1	µg/l	6/4/2008	SW846 8021
Toluene	2	U	2	0.49	1	µg/l	6/4/2008	SW846 8021
1,1,1-Trichloroethane	1	U	1	0.35	1	µg/l	6/4/2008	SW846 8021
1,1,2-Trichloroethane	1	U	1	0.32	1	µg/l	6/4/2008	SW846 8021
Trichloroethene	1	U	1	0.36	1	µg/l	6/4/2008	SW846 8021
Vinyl Chloride	2	U	2	0.89	1	µg/l	6/4/2008	SW846 8021
Total Xylenes	3	U	3	0.41	1	µg/l	6/4/2008	SW846 8021
1,4-Bromofluorobenzene[2]	106%				% Recovery			

MATRIX ENVIRONMENTAL LLC

Mobile Lab Analytical Report
Mobile Lab ID: OH
Matrix Type: Water

PO Box 364
Galena, OH
740-965-8271

Client:	RMT	Matrix Project Number:	056-OHPL-08
Project Name:	Roscoe	Collection Date:	6/4/2008
Project Location:	Roscoe, IL	Report Date:	6/5/2008

Sample ID: AA-15-35 Duplicate

Analyte	Result[4]	Qualifier	RL	MDL[1]	Dilution	Units	Date Analyzed	Analytical Method
Benzene	1	U	1	0.15	1	µg/l	6/5/2008	SW846 8021
Bromodichloromethane	1	U	1	0.50	1	µg/l	6/5/2008	SW846 8021
1,2 Dibromoethane	1	U	1	0.45	1	µg/l	6/5/2008	SW846 8021
Bromoform	10	U	10	0.89	1	µg/l	6/5/2008	SW846 8021
Carbon Tetrachoride	1	U	1	0.41	1	µg/l	6/5/2008	SW846 8021
Chlorobenzene	1	U	1	0.44	1	µg/l	6/5/2008	SW846 8021
Chloroethane	10	U	10	2.84	1	µg/l	6/5/2008	SW846 8021
Chloroform	1	U	1	0.43	1	µg/l	6/5/2008	SW846 8021
Dibromochloromethane	5	U	5	0.92	1	µg/l	6/5/2008	SW846 8021
1,2-Dichlorobenzene	1	U	1	0.37	1	µg/l	6/5/2008	SW846 8021
1,3-Dichlorobenzene	1	U	1	0.44	1	µg/l	6/5/2008	SW846 8021
1,4-Dichlorobenzene	1	U	1	0.22	1	µg/l	6/5/2008	SW846 8021
1,1-Dichloroethane	1	U	1	0.40	1	µg/l	6/5/2008	SW846 8021
1,2-Dichloroethane	1	U	1	0.38	1	µg/l	6/5/2008	SW846 8021
1,1-Dichloroethene	1	U	1	0.48	1	µg/l	6/5/2008	SW846 8021
Cis-1,2-Dichloroethene	1	U	1	0.45	1	µg/l	6/5/2008	SW846 8021
Trans-1,2-Dichloroethene	1	U	1	0.43	1	µg/l	6/5/2008	SW846 8021
1,2-Dichloropropane	1	U	1	0.41	1	µg/l	6/5/2008	SW846 8021
Cis-1,3-Dichloropropene	1	U	1	0.18	1	µg/l	6/5/2008	SW846 8021
Trans-1,3-Dichloropropene	1	U	1	0.36	1	µg/l	6/5/2008	SW846 8021
Ethyl benzene	1	U	1	0.38	1	µg/l	6/5/2008	SW846 8021
Methylene Chloride	1	U	1	0.46	1	µg/l	6/5/2008	SW846 8021
1,1,1,2-Tetrachloroethane	1	U	1	0.38	1	µg/l	6/5/2008	SW846 8021
1,1,2,2-Tetrachloroethane	1	U	1	0.22	1	µg/l	6/5/2008	SW846 8021
Tetrachloroethene	1	U	1	0.27	1	µg/l	6/5/2008	SW846 8021
Toluene	2	U	2	0.49	1	µg/l	6/5/2008	SW846 8021
1,1,1-Trichloroethane	1	U	1	0.35	1	µg/l	6/5/2008	SW846 8021
1,1,2-Trichloroethane	1	U	1	0.32	1	µg/l	6/5/2008	SW846 8021
Trichloroethene	1	U	1	0.36	1	µg/l	6/5/2008	SW846 8021
Vinyl Chloride	2	U	2	0.89	1	µg/l	6/5/2008	SW846 8021
Total Xylenes	3	U	3	0.41	1	µg/l	6/5/2008	SW846 8021
1,4-Bromofluorobenzene[2]	100%					% Recovery		

MATRIX ENVIRONMENTAL LLC

Mobile Lab Analytical Report
Mobile Lab ID: 5[illegible]OH
Matrix Type: Water

PO Box 364
Galena, OH
740-965-8271

Client:	RMT	Matrix Project Number:	056-OHPL-08
Project Name:	Roscoe	Collection Date:	6/5/2008
Project Location:	Roscoe, IL	Report Date:	6/5/2008

Sample ID: AA-16-30

Analyte	Result[1]	Qualifier	RL	MDL[1]	Dilution	Units	Date Analyzed	Analytical Method
Benzene	1	U	1	0.15	1	µg/l	6/5/2008	SW846 8021
Bromodichloromethane	1	U	1	0.50	1	µg/l	6/5/2008	SW846 8021
1,2 Dibromoethane	1	U	1	0.45	1	µg/l	6/5/2008	SW846 8021
Bromoform	10	U	10	0.89	1	µg/l	6/5/2008	SW846 8021
Carbon Tetrachoride	1	U	1	0.41	1	µg/l	6/5/2008	SW846 8021
Chlorobenzene	1	U	1	0.44	1	µg/l	6/5/2008	SW846 8021
Chloroethane	10	U	10	2.84	1	µg/l	6/5/2008	SW846 8021
Chloroform	1	U	1	0.43	1	µg/l	6/5/2008	SW846 8021
Dibromochloromethane	5	U	5	0.92	1	µg/l	6/5/2008	SW846 8021
1,2-Dichlorobenzene	1	U	1	0.37	1	µg/l	6/5/2008	SW846 8021
1,3-Dichlorobenzene	1	U	1	0.44	1	µg/l	6/5/2008	SW846 8021
1,4-Dichlorobenzene	1	U	1	0.22	1	µg/l	6/5/2008	SW846 8021
1,1-Dichloroethane	1	U	1	0.40	1	µg/l	6/5/2008	SW846 8021
1,2-Dichloroethane	1	U	1	0.38	1	µg/l	6/5/2008	SW846 8021
1,1-Dichloroethene	1	U	1	0.48	1	µg/l	6/5/2008	SW846 8021
Cis-1,2-Dichloroethene	1	U	1	0.45	1	µg/l	6/5/2008	SW846 8021
Trans-1,2-Dichloroethene	1	U	1	0.43	1	µg/l	6/5/2008	SW846 8021
1,2-Dichloropropane	1	U	1	0.41	1	µg/l	6/5/2008	SW846 8021
Cis-1,3-Dichloropropene	1	U	1	0.18	1	µg/l	6/5/2008	SW846 8021
Trans-1,3-Dichloropropene	1	U	1	0.36	1	µg/l	6/5/2008	SW846 8021
Ethyl benzene	1	U	1	0.38	1	µg/l	6/5/2008	SW846 8021
Methylene Chloride	1	U	1	0.46	1	µg/l	6/5/2008	SW846 8021
1,1,1,2-Tetrachloroethane	1	U	1	0.38	1	µg/l	6/5/2008	SW846 8021
1,1,2,2-Tetrachloroethane	1	U	1	0.22	1	µg/l	6/5/2008	SW846 8021
Tetrachloroethene	1	U	1	0.27	1	µg/l	6/5/2008	SW846 8021
Toluene	2	U	2	0.49	1	µg/l	6/5/2008	SW846 8021
1,1,1-Trichloroethane	1	U	1	0.35	1	µg/l	6/5/2008	SW846 8021
1,1,2-Trichloroethane	1	U	1	0.32	1	µg/l	6/5/2008	SW846 8021
Trichloroethene	1	U	1	0.36	1	µg/l	6/5/2008	SW846 8021
Vinyl Chloride	2	U	2	0.89	1	µg/l	6/5/2008	SW846 8021
Total Xylenes	3	U	3	0.41	1	µg/l	6/5/2008	SW846 8021
1,4-Bromofluorobenzene[2]	102%				% Recovery			

MATRIX ENVIRONMENTAL LLC

Mobile Lab Analytical Report
Mobile Lab ID: OH
Matrix Type: Water

PO Box 364
Galena, OH
740-965-8271

Client:	RMT	Matrix Project Number:	056-OHPL-08
Project Name:	Roscoe	Collection Date:	6/5/2008
Project Location:	Roscoe, IL	Report Date:	6/5/2008

Sample ID: AA-16-35

Analyte	Result[4]	Qualifier	RL	MDL[1]	Dilution	Units	Date Analyzed	Analytical Method
Benzene	1	U	1	0.15	1	µg/l	6/5/2008	SW846 8021
Bromodichloromethane	1	U	1	0.50	1	µg/l	6/5/2008	SW846 8021
1,2 Dibromoethane	1	U	1	0.45	1	µg/l	6/5/2008	SW846 8021
Bromoform	10	U	10	0.89	1	µg/l	6/5/2008	SW846 8021
Carbon Tetrachoride	1	U	1	0.41	1	µg/l	6/5/2008	SW846 8021
Chlorobenzene	1	U	1	0.44	1	µg/l	6/5/2008	SW846 8021
Chloroethane	10	U	10	2.84	1	µg/l	6/5/2008	SW846 8021
Chloroform	1	U	1	0.43	1	µg/l	6/5/2008	SW846 8021
Dibromochloromethane	5	U	5	0.92	1	µg/l	6/5/2008	SW846 8021
1,2-Dichlorobenzene	1	U	1	0.37	1	µg/l	6/5/2008	SW846 8021
1,3-Dichlorobenzene	1	U	1	0.44	1	µg/l	6/5/2008	SW846 8021
1,4-Dichlorobenzene	1	U	1	0.22	1	µg/l	6/5/2008	SW846 8021
1,1-Dichloroethane	1	U	1	0.40	1	µg/l	6/5/2008	SW846 8021
1,2-Dichloroethane	1	U	1	0.38	1	µg/l	6/5/2008	SW846 8021
1,1-Dichloroethene	1	U	1	0.48	1	µg/l	6/5/2008	SW846 8021
Cis-1,2-Dichloroethene	1	U	1	0.45	1	µg/l	6/5/2008	SW846 8021
Trans-1,2-Dichloroethene	1	U	1	0.43	1	µg/l	6/5/2008	SW846 8021
1,2-Dichloropropane	1	U	1	0.41	1	µg/l	6/5/2008	SW846 8021
Cis-1,3-Dichloropropene	1	U	1	0.18	1	µg/l	6/5/2008	SW846 8021
Trans-1,3-Dichloropropene	1	U	1	0.36	1	µg/l	6/5/2008	SW846 8021
Ethyl benzene	1	U	1	0.38	1	µg/l	6/5/2008	SW846 8021
Methylene Chloride	1	U	1	0.46	1	µg/l	6/5/2008	SW846 8021
1,1,1,2-Tetrachloroethane	1	U	1	0.38	1	µg/l	6/5/2008	SW846 8021
1,1,2,2-Tetrachloroethane	1	U	1	0.22	1	µg/l	6/5/2008	SW846 8021
Tetrachloroethene	1	U	1	0.27	1	µg/l	6/5/2008	SW846 8021
Toluene	2	U	2	0.49	1	µg/l	6/5/2008	SW846 8021
1,1,1-Trichloroethane	1	U	1	0.35	1	µg/l	6/5/2008	SW846 8021
1,1,2-Trichloroethane	1	U	1	0.32	1	µg/l	6/5/2008	SW846 8021
Trichloroethene	1	U	1	0.36	1	µg/l	6/5/2008	SW846 8021
Vinyl Chloride	2	U	2	0.89	1	µg/l	6/5/2008	SW846 8021
Total Xylenes	3	U	3	0.41	1	µg/l	6/5/2008	SW846 8021
1,4-Bromofluorobenzene[2]	94%					% Recovery		

MATRIX ENVIRONMENTAL LLC

Mobile Lab Analytical Report
Mobile Lab ID: OH
Matrix Type: Water

PO Box 364
Galena, OH
740-965-8271

Client:	RMT	Matrix Project Number:	056-OHPL-08
Project Name:	Roscoe	Collection Date:	6/5/2008
Project Location:	Roscoe, IL	Report Date:	6/5/2008

Sample ID: AA-17-30

Analyte	Result[1]	Qualifier	RL	MDL[1]	Dilution	Units	Date Analyzed	Analytical Method
Benzene	1	U	1	0.15	1	µg/l	6/5/2008	SW846 8021
Bromodichloromethane	1	U	1	0.50	1	µg/l	6/5/2008	SW846 8021
1,2 Dibromoethane	1	U	1	0.45	1	µg/l	6/5/2008	SW846 8021
Bromoform	10	U	10	0.89	1	µg/l	6/5/2008	SW846 8021
Carbon Tetrachoride	1	U	1	0.41	1	µg/l	6/5/2008	SW846 8021
Chlorobenzene	1	U	1	0.44	1	µg/l	6/5/2008	SW846 8021
Chloroethane	10	U	10	2.84	1	µg/l	6/5/2008	SW846 8021
Chloroform	1	U	1	0.43	1	µg/l	6/5/2008	SW846 8021
Dibromochloromethane	5	U	5	0.92	1	µg/l	6/5/2008	SW846 8021
1,2-Dichlorobenzene	1	U	1	0.37	1	µg/l	6/5/2008	SW846 8021
1,3-Dichlorobenzene	1	U	1	0.44	1	µg/l	6/5/2008	SW846 8021
1,4-Dichlorobenzene	1	U	1	0.22	1	µg/l	6/5/2008	SW846 8021
1,1-Dichloroethane	1	U	1	0.40	1	µg/l	6/5/2008	SW846 8021
1,2-Dichloroethane	1	U	1	0.38	1	µg/l	6/5/2008	SW846 8021
1,1-Dichloroethene	1	U	1	0.48	1	µg/l	6/5/2008	SW846 8021
Cis-1,2-Dichloroethene	1	U	1	0.45	1	µg/l	6/5/2008	SW846 8021
Trans-1,2-Dichloroethene	1	U	1	0.43	1	µg/l	6/5/2008	SW846 8021
1,2-Dichloropropane	1	U	1	0.41	1	µg/l	6/5/2008	SW846 8021
Cis-1,3-Dichloropropene	1	U	1	0.18	1	µg/l	6/5/2008	SW846 8021
Trans-1,3-Dichloropropene	1	U	1	0.36	1	µg/l	6/5/2008	SW846 8021
Ethyl benzene	1	U	1	0.38	1	µg/l	6/5/2008	SW846 8021
Methylene Chloride	1	U	1	0.46	1	µg/l	6/5/2008	SW846 8021
1,1,1,2-Tetrachloroethane	1	U	1	0.38	1	µg/l	6/5/2008	SW846 8021
1,1,2,2-Tetrachloroethane	1	U	1	0.22	1	µg/l	6/5/2008	SW846 8021
Tetrachloroethene	1	U	1	0.27	1	µg/l	6/5/2008	SW846 8021
Toluene	2	U	2	0.49	1	µg/l	6/5/2008	SW846 8021
1,1,1-Trichloroethane	1	U	1	0.35	1	µg/l	6/5/2008	SW846 8021
1,1,2-Trichloroethane	1	U	1	0.32	1	µg/l	6/5/2008	SW846 8021
Trichloroethene	1	U	1	0.36	1	µg/l	6/5/2008	SW846 8021
Vinyl Chloride	2	U	2	0.89	1	µg/l	6/5/2008	SW846 8021
Total Xylenes	3	U	3	0.41	1	µg/l	6/5/2008	SW846 8021
1,4-Bromofluorobenzene[2]	102%					% Recovery		

MATRIX ENVIRONMENTAL LLC

Mobile Lab Analytical Report
Mobile Lab ID: OH
Matrix Type: Water

PO Box 364
Galena, OH
740-965-8271

Client:	RMT	Matrix Project Number:	056-OHPL-08
Project Name:	Roscoe	Collection Date:	6/5/2008
Project Location:	Roscoe, IL	Report Date:	6/5/2008

Sample ID: AA-17-35

Analyte	Result[4]	Qualifier	RL	MDL[1]	Dilution	Units	Date Analyzed	Analytical Method
Benzene	1	U	1	0.15	1	µg/l	6/5/2008	SW846 8021
Bromodichloromethane	1	U	1	0.50	1	µg/l	6/5/2008	SW846 8021
1,2 Dibromoethane	1	U	1	0.45	1	µg/l	6/5/2008	SW846 8021
Bromoform	10	U	10	0.89	1	µg/l	6/5/2008	SW846 8021
Carbon Tetrachoride	1	U	1	0.41	1	µg/l	6/5/2008	SW846 8021
Chlorobenzene	1	U	1	0.44	1	µg/l	6/5/2008	SW846 8021
Chloroethane	10	U	10	2.84	1	µg/l	6/5/2008	SW846 8021
Chloroform	1	U	1	0.43	1	µg/l	6/5/2008	SW846 8021
Dibromochloromethane	5	U	5	0.92	1	µg/l	6/5/2008	SW846 8021
1,2-Dichlorobenzene	1	U	1	0.37	1	µg/l	6/5/2008	SW846 8021
1,3-Dichlorobenzene	1	U	1	0.44	1	µg/l	6/5/2008	SW846 8021
1,4-Dichlorobenzene	1	U	1	0.22	1	µg/l	6/5/2008	SW846 8021
1,1-Dichloroethane	1	U	1	0.40	1	µg/l	6/5/2008	SW846 8021
1,2-Dichloroethane	1	U	1	0.38	1	µg/l	6/5/2008	SW846 8021
1,1-Dichloroethene	1	U	1	0.48	1	µg/l	6/5/2008	SW846 8021
Cis-1,2-Dichloroethene	1	U	1	0.45	1	µg/l	6/5/2008	SW846 8021
Trans-1,2-Dichloroethene	1	U	1	0.43	1	µg/l	6/5/2008	SW846 8021
1,2-Dichloropropane	1	U	1	0.41	1	µg/l	6/5/2008	SW846 8021
Cis-1,3-Dichloropropene	1	U	1	0.18	1	µg/l	6/5/2008	SW846 8021
Trans-1,3-Dichloropropene	1	U	1	0.36	1	µg/l	6/5/2008	SW846 8021
Ethyl benzene	1	U	1	0.38	1	µg/l	6/5/2008	SW846 8021
Methylene Chloride	1	U	1	0.46	1	µg/l	6/5/2008	SW846 8021
1,1,1,2-Tetrachloroethane	1	U	1	0.38	1	µg/l	6/5/2008	SW846 8021
1,1,2,2-Tetrachloroethane	1	U	1	0.22	1	µg/l	6/5/2008	SW846 8021
Tetrachloroethene	1	U	1	0.27	1	µg/l	6/5/2008	SW846 8021
Toluene	2	U	2	0.49	1	µg/l	6/5/2008	SW846 8021
1,1,1-Trichloroethane	1	U	1	0.35	1	µg/l	6/5/2008	SW846 8021
1,1,2-Trichloroethane	1	U	1	0.32	1	µg/l	6/5/2008	SW846 8021
Trichloroethene	1	U	1	0.36	1	µg/l	6/5/2008	SW846 8021
Vinyl Chloride	2	U	2	0.89	1	µg/l	6/5/2008	SW846 8021
Total Xylenes	3	U	3	0.41	1	µg/l	6/5/2008	SW846 8021
1,4-Bromofluorobenzene[2]	104%					% Recovery		

MATRIX ENVIRONMENTAL LLC

Mobile Lab Analytical Report
Mobile Lab ID: [redacted]OH
Matrix Type: Water

PO Box 364
Galena, OH
740-965-8271

Client:	RMT	Matrix Project Number:	056-OHPL-08
Project Name:	Roscoe	Collection Date:	6/5/2008
Project Location:	Roscoe, IL	Report Date:	6/5/2008

Sample ID: AA-18-30

Analyte	Result[4]	Qualifier	RL	MDL[1]	Dilution	Units	Date Analyzed	Analytical Method
Benzene	1	U	1	0.15	1	µg/l	6/5/2008	SW846 8021
Bromodichloromethane	1	U	1	0.50	1	µg/l	6/5/2008	SW846 8021
1,2 Dibromoethane	1	U	1	0.45	1	µg/l	6/5/2008	SW846 8021
Bromoform	10	U	10	0.89	1	µg/l	6/5/2008	SW846 8021
Carbon Tetrachoride	1	U	1	0.41	1	µg/l	6/5/2008	SW846 8021
Chlorobenzene	1	U	1	0.44	1	µg/l	6/5/2008	SW846 8021
Chloroethane	10	U	10	2.84	1	µg/l	6/5/2008	SW846 8021
Chloroform	1	U	1	0.43	1	µg/l	6/5/2008	SW846 8021
Dibromochloromethane	5	U	5	0.92	1	µg/l	6/5/2008	SW846 8021
1,2-Dichlorobenzene	1	U	1	0.37	1	µg/l	6/5/2008	SW846 8021
1,3-Dichlorobenzene	1	U	1	0.44	1	µg/l	6/5/2008	SW846 8021
1,4-Dichlorobenzene	1	U	1	0.22	1	µg/l	6/5/2008	SW846 8021
1,1-Dichloroethane	1	U	1	0.40	1	µg/l	6/5/2008	SW846 8021
1,2-Dichloroethane	1	U	1	0.38	1	µg/l	6/5/2008	SW846 8021
1,1-Dichloroethene	1	U	1	0.48	1	µg/l	6/5/2008	SW846 8021
Cis-1,2-Dichloroethene	1	U	1	0.45	1	µg/l	6/5/2008	SW846 8021
Trans-1,2-Dichloroethene	1	U	1	0.43	1	µg/l	6/5/2008	SW846 8021
1,2-Dichloropropane	1	U	1	0.41	1	µg/l	6/5/2008	SW846 8021
Cis-1,3-Dichloropropene	1	U	1	0.18	1	µg/l	6/5/2008	SW846 8021
Trans-1,3-Dichloropropene	1	U	1	0.36	1	µg/l	6/5/2008	SW846 8021
Ethyl benzene	1	U	1	0.38	1	µg/l	6/5/2008	SW846 8021
Methylene Chloride	1	U	1	0.46	1	µg/l	6/5/2008	SW846 8021
1,1,1,2-Tetrachloroethane	1	U	1	0.38	1	µg/l	6/5/2008	SW846 8021
1,1,2,2-Tetrachloroethane	1	U	1	0.22	1	µg/l	6/5/2008	SW846 8021
Tetrachloroethene	1	U	1	0.27	1	µg/l	6/5/2008	SW846 8021
Toluene	2	U	2	0.49	1	µg/l	6/5/2008	SW846 8021
1,1,1-Trichloroethane	1	U	1	0.35	1	µg/l	6/5/2008	SW846 8021
1,1,2-Trichloroethane	1	U	1	0.32	1	µg/l	6/5/2008	SW846 8021
Trichloroethene	1	U	1	0.36	1	µg/l	6/5/2008	SW846 8021
Vinyl Chloride	2	U	2	0.89	1	µg/l	6/5/2008	SW846 8021
Total Xylenes	3	U	3	0.41	1	µg/l	6/5/2008	SW846 8021
1,4-Bromofluorobenzene[2]	103%					% Recovery		

MATRIX ENVIRONMENTAL LLC

Mobile Lab Analytical Report
Mobile Lab ID: OH
Matrix Type: Water

PO Box 364
Galena, OH
740-965-8271

Client:	RMT	Matrix Project Number:	056-OHPL-08
Project Name:	Roscoe	Collection Date:	6/5/2008
Project Location:	Roscoe, IL	Report Date:	6/5/2008

Sample ID: AA-18-35

Analyte	Result[4]	Qualifier	RL	MDL[1]	Dilution	Units	Date Analyzed	Analytical Method
Benzene	1	U	1	0.15	1	µg/l	6/5/2008	SW846 8021
Bromodichloromethane	1	U	1	0.50	1	µg/l	6/5/2008	SW846 8021
1,2 Dibromoethane	1	U	1	0.45	1	µg/l	6/5/2008	SW846 8021
Bromoform	10	U	10	0.89	1	µg/l	6/5/2008	SW846 8021
Carbon Tetrachoride	1	U	1	0.41	1	µg/l	6/5/2008	SW846 8021
Chlorobenzene	1	U	1	0.44	1	µg/l	6/5/2008	SW846 8021
Chloroethane	10	U	10	2.84	1	µg/l	6/5/2008	SW846 8021
Chloroform	1	U	1	0.43	1	µg/l	6/5/2008	SW846 8021
Dibromochloromethane	5	U	5	0.92	1	µg/l	6/5/2008	SW846 8021
1,2-Dichlorobenzene	1	U	1	0.37	1	µg/l	6/5/2008	SW846 8021
1,3-Dichlorobenzene	1	U	1	0.44	1	µg/l	6/5/2008	SW846 8021
1,4-Dichlorobenzene	1	U	1	0.22	1	µg/l	6/5/2008	SW846 8021
1,1-Dichloroethane	1	U	1	0.40	1	µg/l	6/5/2008	SW846 8021
1,2-Dichloroethane	1	U	1	0.38	1	µg/l	6/5/2008	SW846 8021
1,1-Dichloroethene	1	U	1	0.48	1	µg/l	6/5/2008	SW846 8021
Cis-1,2-Dichloroethene	1	U	1	0.45	1	µg/l	6/5/2008	SW846 8021
Trans-1,2-Dichloroethene	1	U	1	0.43	1	µg/l	6/5/2008	SW846 8021
1,2-Dichloropropane	1	U	1	0.41	1	µg/l	6/5/2008	SW846 8021
Cis-1,3-Dichloropropene	1	U	1	0.18	1	µg/l	6/5/2008	SW846 8021
Trans-1,3-Dichloropropene	1	U	1	0.36	1	µg/l	6/5/2008	SW846 8021
Ethyl benzene	1	U	1	0.38	1	µg/l	6/5/2008	SW846 8021
Methylene Chloride	1	U	1	0.46	1	µg/l	6/5/2008	SW846 8021
1,1,1,2-Tetrachloroethane	1	U	1	0.38	1	µg/l	6/5/2008	SW846 8021
1,1,2,2-Tetrachloroethane	1	U	1	0.22	1	µg/l	6/5/2008	SW846 8021
Tetrachloroethene	1	U	1	0.27	1	µg/l	6/5/2008	SW846 8021
Toluene	2	U	2	0.49	1	µg/l	6/5/2008	SW846 8021
1,1,1-Trichloroethane	1	U	1	0.35	1	µg/l	6/5/2008	SW846 8021
1,1,2-Trichloroethane	1	U	1	0.32	1	µg/l	6/5/2008	SW846 8021
Trichloroethene	1	U	1	0.36	1	µg/l	6/5/2008	SW846 8021
Vinyl Chloride	2	U	2	0.89	1	µg/l	6/5/2008	SW846 8021
Total Xylenes	3	U	3	0.41	1	µg/l	6/5/2008	SW846 8021
1,4-Bromofluorobenzene[2]	97%				% Recovery			

MATRIX ENVIRONMENTAL LLC

Mobile Lab Analytical Report
Mobile Lab ID: OH
Matrix Type: Water

PO Box 364
Galena, OH
740-965-8271

Client:	RMT	Matrix Project Number:	056-OHPL-08
Project Name:	Roscoe	Collection Date:	6/5/2008
Project Location:	Roscoe, IL	Report Date:	6/5/2008

Sample ID: AA-19-30

Analyte	Result[4]	Qualifier	RL	MDL[1]	Dilution	Units	Date Analyzed	Analytical Method
Benzene	1	U	1	0.15	1	µg/l	6/5/2008	SW846 8021
Bromodichloromethane	1	U	1	0.50	1	µg/l	6/5/2008	SW846 8021
1,2 Dibromoethane	1	U	1	0.45	1	µg/l	6/5/2008	SW846 8021
Bromoform	10	U	10	0.89	1	µg/l	6/5/2008	SW846 8021
Carbon Tetrachoride	1	U	1	0.41	1	µg/l	6/5/2008	SW846 8021
Chlorobenzene	1	U	1	0.44	1	µg/l	6/5/2008	SW846 8021
Chloroethane	10	U	10	2.84	1	µg/l	6/5/2008	SW846 8021
Chloroform	1	U	1	0.43	1	µg/l	6/5/2008	SW846 8021
Dibromochloromethane	5	U	5	0.92	1	µg/l	6/5/2008	SW846 8021
1,2-Dichlorobenzene	1	U	1	0.37	1	µg/l	6/5/2008	SW846 8021
1,3-Dichlorobenzene	1	U	1	0.44	1	µg/l	6/5/2008	SW846 8021
1,4-Dichlorobenzene	1	U	1	0.22	1	µg/l	6/5/2008	SW846 8021
1,1-Dichloroethane	1	U	1	0.40	1	µg/l	6/5/2008	SW846 8021
1,2-Dichloroethane	1	U	1	0.38	1	µg/l	6/5/2008	SW846 8021
1,1-Dichloroethene	1	U	1	0.48	1	µg/l	6/5/2008	SW846 8021
Cis-1,2-Dichloroethene	1	U	1	0.45	1	µg/l	6/5/2008	SW846 8021
Trans-1,2-Dichloroethene	1	U	1	0.43	1	µg/l	6/5/2008	SW846 8021
1,2-Dichloropropane	1	U	1	0.41	1	µg/l	6/5/2008	SW846 8021
Cis-1,3-Dichloropropene	1	U	1	0.18	1	µg/l	6/5/2008	SW846 8021
Trans-1,3-Dichloropropene	1	U	1	0.36	1	µg/l	6/5/2008	SW846 8021
Ethyl benzene	1	U	1	0.38	1	µg/l	6/5/2008	SW846 8021
Methylene Chloride	1	U	1	0.46	1	µg/l	6/5/2008	SW846 8021
1,1,1,2-Tetrachloroethane	1	U	1	0.38	1	µg/l	6/5/2008	SW846 8021
1,1,2,2-Tetrachloroethane	1	U	1	0.22	1	µg/l	6/5/2008	SW846 8021
Tetrachloroethene	1	U	1	0.27	1	µg/l	6/5/2008	SW846 8021
Toluene	2	U	2	0.49	1	µg/l	6/5/2008	SW846 8021
1,1,1-Trichloroethane	1	U	1	0.35	1	µg/l	6/5/2008	SW846 8021
1,1,2-Trichloroethane	1	U	1	0.32	1	µg/l	6/5/2008	SW846 8021
Trichloroethene	1	U	1	0.36	1	µg/l	6/5/2008	SW846 8021
Vinyl Chloride	2	U	2	0.89	1	µg/l	6/5/2008	SW846 8021
Total Xylenes	3	U	3	0.41	1	µg/l	6/5/2008	SW846 8021
1,4-Bromofluorobenzene[2]	101%				% Recovery			

MATRIX ENVIRONMENTAL LLC

Mobile Lab Analytical Report
Mobile Lab ID: OH
Matrix Type: Water

PO Box 364
Galena, OH
740-965-8271

Client:	RMT	Matrix Project Number:	056-OHPL-08
Project Name:	Roscoe	Collection Date:	6/5/2008
Project Location:	Roscoe, IL	Report Date:	6/5/2008

Sample ID: AA-19-35

Analyte	Result[4]	Qualifier	RL	MDL[1]	Dilution	Units	Date Analyzed	Analytical Method
Benzene	1	U	1	0.15	1	µg/l	6/5/2008	SW846 8021
Bromodichloromethane	1	U	1	0.50	1	µg/l	6/5/2008	SW846 8021
1,2 Dibromoethane	1	U	1	0.45	1	µg/l	6/5/2008	SW846 8021
Bromoform	10	U	10	0.89	1	µg/l	6/5/2008	SW846 8021
Carbon Tetrachoride	1	U	1	0.41	1	µg/l	6/5/2008	SW846 8021
Chlorobenzene	1	U	1	0.44	1	µg/l	6/5/2008	SW846 8021
Chloroethane	10	U	10	2.84	1	µg/l	6/5/2008	SW846 8021
Chloroform	1	U	1	0.43	1	µg/l	6/5/2008	SW846 8021
Dibromochloromethane	5	U	5	0.92	1	µg/l	6/5/2008	SW846 8021
1,2-Dichlorobenzene	1	U	1	0.37	1	µg/l	6/5/2008	SW846 8021
1,3-Dichlorobenzene	1	U	1	0.44	1	µg/l	6/5/2008	SW846 8021
1,4-Dichlorobenzene	1	U	1	0.22	1	µg/l	6/5/2008	SW846 8021
1,1-Dichloroethane	1	U	1	0.40	1	µg/l	6/5/2008	SW846 8021
1,2-Dichloroethane	1	U	1	0.38	1	µg/l	6/5/2008	SW846 8021
1,1-Dichloroethene	1	U	1	0.48	1	µg/l	6/5/2008	SW846 8021
Cis-1,2-Dichloroethene	1	U	1	0.45	1	µg/l	6/5/2008	SW846 8021
Trans-1,2-Dichloroethene	1	U	1	0.43	1	µg/l	6/5/2008	SW846 8021
1,2-Dichloropropane	1	U	1	0.41	1	µg/l	6/5/2008	SW846 8021
Cis-1,3-Dichloropropene	1	U	1	0.18	1	µg/l	6/5/2008	SW846 8021
Trans-1,3-Dichloropropene	1	U	1	0.36	1	µg/l	6/5/2008	SW846 8021
Ethyl benzene	1	U	1	0.38	1	µg/l	6/5/2008	SW846 8021
Methylene Chloride	1	U	1	0.46	1	µg/l	6/5/2008	SW846 8021
1,1,1,2-Tetrachloroethane	1	U	1	0.38	1	µg/l	6/5/2008	SW846 8021
1,1,2,2-Tetrachloroethane	1	U	1	0.22	1	µg/l	6/5/2008	SW846 8021
Tetrachloroethene	1	U	1	0.27	1	µg/l	6/5/2008	SW846 8021
Toluene	2	U	2	0.49	1	µg/l	6/5/2008	SW846 8021
1,1,1-Trichloroethane	1	U	1	0.35	1	µg/l	6/5/2008	SW846 8021
1,1,2-Trichloroethane	1	U	1	0.32	1	µg/l	6/5/2008	SW846 8021
Trichloroethene	1	U	1	0.36	1	µg/l	6/5/2008	SW846 8021
Vinyl Chloride	2	U	2	0.89	1	µg/l	6/5/2008	SW846 8021
Total Xylenes	3	U	3	0.41	1	µg/l	6/5/2008	SW846 8021
1,4-Bromofluorobenzene[2]	98%					% Recovery		

MATRIX ENVIRONMENTAL LLC

Mobile Lab Analytical Report
Mobile Lab ID: [illegible]OH
Matrix Type: Water

PO Box 364
Galena, OH
740-965-8271

Client:	RMT	Matrix Project Number:	056-OHPL-08
Project Name:	Roscoe	Collection Date:	6/5/2008
Project Location:	Roscoe, IL	Report Date:	6/5/2008

Sample ID: AA-20-30

Analyte	Result[4]	Qualifier	RL	MDL[1]	Dilution	Units	Date Analyzed	Analytical Method
Benzene	1	U	1	0.15	1	µg/l	6/5/2008	SW846 8021
Bromodichloromethane	1	U	1	0.50	1	µg/l	6/5/2008	SW846 8021
1,2 Dibromoethane	1	U	1	0.45	1	µg/l	6/5/2008	SW846 8021
Bromoform	10	U	10	0.89	1	µg/l	6/5/2008	SW846 8021
Carbon Tetrachoride	1	U	1	0.41	1	µg/l	6/5/2008	SW846 8021
Chlorobenzene	1	U	1	0.44	1	µg/l	6/5/2008	SW846 8021
Chloroethane	10	U	10	2.84	1	µg/l	6/5/2008	SW846 8021
Chloroform	1	U	1	0.43	1	µg/l	6/5/2008	SW846 8021
Dibromochloromethane	5	U	5	0.92	1	µg/l	6/5/2008	SW846 8021
1,2-Dichlorobenzene	1	U	1	0.37	1	µg/l	6/5/2008	SW846 8021
1,3-Dichlorobenzene	1	U	1	0.44	1	µg/l	6/5/2008	SW846 8021
1,4-Dichlorobenzene	1	U	1	0.22	1	µg/l	6/5/2008	SW846 8021
1,1-Dichloroethane	1	U	1	0.40	1	µg/l	6/5/2008	SW846 8021
1,2-Dichloroethane	1	U	1	0.38	1	µg/l	6/5/2008	SW846 8021
1,1-Dichloroethene	1	U	1	0.48	1	µg/l	6/5/2008	SW846 8021
Cis-1,2-Dichloroethene	1	U	1	0.45	1	µg/l	6/5/2008	SW846 8021
Trans-1,2-Dichloroethene	1	U	1	0.43	1	µg/l	6/5/2008	SW846 8021
1,2-Dichloropropane	1	U	1	0.41	1	µg/l	6/5/2008	SW846 8021
Cis-1,3-Dichloropropene	1	U	1	0.18	1	µg/l	6/5/2008	SW846 8021
Trans-1,3-Dichloropropene	1	U	1	0.36	1	µg/l	6/5/2008	SW846 8021
Ethyl benzene	1	U	1	0.38	1	µg/l	6/5/2008	SW846 8021
Methylene Chloride	1	U	1	0.46	1	µg/l	6/5/2008	SW846 8021
1,1,1,2-Tetrachloroethane	1	U	1	0.38	1	µg/l	6/5/2008	SW846 8021
1,1,2,2-Tetrachloroethane	1	U	1	0.22	1	µg/l	6/5/2008	SW846 8021
Tetrachloroethene	1	U	1	0.27	1	µg/l	6/5/2008	SW846 8021
Toluene	2	U	2	0.49	1	µg/l	6/5/2008	SW846 8021
1,1,1-Trichloroethane	**2**		1	0.35	1	µg/l	6/5/2008	SW846 8021
1,1,2-Trichloroethane	1	U	1	0.32	1	µg/l	6/5/2008	SW846 8021
Trichloroethene	1	U	1	0.36	1	µg/l	6/5/2008	SW846 8021
Vinyl Chloride	2	U	2	0.89	1	µg/l	6/5/2008	SW846 8021
Total Xylenes	3	U	3	0.41	1	µg/l	6/5/2008	SW846 8021
1,4-Bromofluorobenzene[2]	102%					% Recovery		

MATRIX ENVIRONMENTAL LLC

Mobile Lab Analytical Report
Mobile Lab ID: [illegible]OH
Matrix Type: Water

PO Box 364
Galena, OH
740-965-8271

Client:	RMT	Matrix Project Number:	056-OHPL-08
Project Name:	Roscoe	Collection Date:	6/5/2008
Project Location:	Roscoe, IL	Report Date:	6/5/2008

Sample ID: AA-20-35

Analyte	Result[4]	Qualifier	RL	MDL[1]	Dilution	Units	Date Analyzed	Analytical Method
Benzene	1	U	1	0.15	1	µg/l	6/5/2008	SW846 8021
Bromodichloromethane	1	U	1	0.50	1	µg/l	6/5/2008	SW846 8021
1,2 Dibromoethane	1	U	1	0.45	1	µg/l	6/5/2008	SW846 8021
Bromoform	10	U	10	0.89	1	µg/l	6/5/2008	SW846 8021
Carbon Tetrachoride	1	U	1	0.41	1	µg/l	6/5/2008	SW846 8021
Chlorobenzene	1	U	1	0.44	1	µg/l	6/5/2008	SW846 8021
Chloroethane	10	U	10	2.84	1	µg/l	6/5/2008	SW846 8021
Chloroform	1	U	1	0.43	1	µg/l	6/5/2008	SW846 8021
Dibromochloromethane	5	U	5	0.92	1	µg/l	6/5/2008	SW846 8021
1,2-Dichlorobenzene	1	U	1	0.37	1	µg/l	6/5/2008	SW846 8021
1,3-Dichlorobenzene	1	U	1	0.44	1	µg/l	6/5/2008	SW846 8021
1,4-Dichlorobenzene	1	U	1	0.22	1	µg/l	6/5/2008	SW846 8021
1,1-Dichloroethane	1	U	1	0.40	1	µg/l	6/5/2008	SW846 8021
1,2-Dichloroethane	1	U	1	0.38	1	µg/l	6/5/2008	SW846 8021
1,1-Dichloroethene	1	U	1	0.48	1	µg/l	6/5/2008	SW846 8021
Cis-1,2-Dichloroethene	1	U	1	0.45	1	µg/l	6/5/2008	SW846 8021
Trans-1,2-Dichloroethene	1	U	1	0.43	1	µg/l	6/5/2008	SW846 8021
1,2-Dichloropropane	1	U	1	0.41	1	µg/l	6/5/2008	SW846 8021
Cis-1,3-Dichloropropene	1	U	1	0.18	1	µg/l	6/5/2008	SW846 8021
Trans-1,3-Dichloropropene	1	U	1	0.36	1	µg/l	6/5/2008	SW846 8021
Ethyl benzene	1	U	1	0.38	1	µg/l	6/5/2008	SW846 8021
Methylene Chloride	1	U	1	0.46	1	µg/l	6/5/2008	SW846 8021
1,1,1,2-Tetrachloroethane	1	U	1	0.38	1	µg/l	6/5/2008	SW846 8021
1,1,2,2-Tetrachloroethane	1	U	1	0.22	1	µg/l	6/5/2008	SW846 8021
Tetrachloroethene	1	U	1	0.27	1	µg/l	6/5/2008	SW846 8021
Toluene	2	U	2	0.49	1	µg/l	6/5/2008	SW846 8021
1,1,1-Trichloroethane	3		1	0.35	1	µg/l	6/5/2008	SW846 8021
1,1,2-Trichloroethane	1	U	1	0.32	1	µg/l	6/5/2008	SW846 8021
Trichloroethene	1	U	1	0.36	1	µg/l	6/5/2008	SW846 8021
Vinyl Chloride	2	U	2	0.89	1	µg/l	6/5/2008	SW846 8021
Total Xylenes	3	U	3	0.41	1	µg/l	6/5/2008	SW846 8021
1,4-Bromofluorobenzene[2]	95%				% Recovery			

MATRIX ENVIRONMENTAL LLC

Mobile Lab Analytical Report
Mobile Lab ID: OH
Matrix Type: Water

PO Box 364
Galena, OH
740-965-8271

Client:	RMT	Matrix Project Number:	056-OHPL-08
Project Name:	Roscoe	Collection Date:	6/6/2008
Project Location:	Roscoe, IL	Report Date:	6/6/2008

Sample ID: AA-21-30

Analyte	Result[4]	Qualifier	RL	MDL[1]	Dilution	Units	Date Analyzed	Analytical Method
Benzene	1	U	1	0.15	1	µg/l	6/6/2008	SW846 8021
Bromodichloromethane	1	U	1	0.50	1	µg/l	6/6/2008	SW846 8021
1,2 Dibromoethane	1	U	1	0.45	1	µg/l	6/6/2008	SW846 8021
Bromoform	10	U	10	0.89	1	µg/l	6/6/2008	SW846 8021
Carbon Tetrachoride	1	U	1	0.41	1	µg/l	6/6/2008	SW846 8021
Chlorobenzene	1	U	1	0.44	1	µg/l	6/6/2008	SW846 8021
Chloroethane	10	U	10	2.84	1	µg/l	6/6/2008	SW846 8021
Chloroform	1	U	1	0.43	1	µg/l	6/6/2008	SW846 8021
Dibromochloromethane	5	U	5	0.92	1	µg/l	6/6/2008	SW846 8021
1,2-Dichlorobenzene	1	U	1	0.37	1	µg/l	6/6/2008	SW846 8021
1,3-Dichlorobenzene	1	U	1	0.44	1	µg/l	6/6/2008	SW846 8021
1,4-Dichlorobenzene	1	U	1	0.22	1	µg/l	6/6/2008	SW846 8021
1,1-Dichloroethane	1	U	1	0.40	1	µg/l	6/6/2008	SW846 8021
1,2-Dichloroethane	1	U	1	0.38	1	µg/l	6/6/2008	SW846 8021
1,1-Dichloroethene	1	U	1	0.48	1	µg/l	6/6/2008	SW846 8021
Cis-1,2-Dichloroethene	1	U	1	0.45	1	µg/l	6/6/2008	SW846 8021
Trans-1,2-Dichloroethene	1	U	1	0.43	1	µg/l	6/6/2008	SW846 8021
1,2-Dichloropropane	1	U	1	0.41	1	µg/l	6/6/2008	SW846 8021
Cis-1,3-Dichloropropene	1	U	1	0.18	1	µg/l	6/6/2008	SW846 8021
Trans-1,3-Dichloropropene	1	U	1	0.36	1	µg/l	6/6/2008	SW846 8021
Ethyl benzene	1	U	1	0.38	1	µg/l	6/6/2008	SW846 8021
Methylene Chloride	1	U	1	0.46	1	µg/l	6/6/2008	SW846 8021
1,1,1,2-Tetrachloroethane	1	U	1	0.38	1	µg/l	6/6/2008	SW846 8021
1,1,2,2-Tetrachloroethane	1	U	1	0.22	1	µg/l	6/6/2008	SW846 8021
Tetrachloroethene	1	U	1	0.27	1	µg/l	6/6/2008	SW846 8021
Toluene	2	U	2	0.49	1	µg/l	6/6/2008	SW846 8021
1,1,1-Trichloroethane	1	U	1	0.35	1	µg/l	6/6/2008	SW846 8021
1,1,2-Trichloroethane	1	U	1	0.32	1	µg/l	6/6/2008	SW846 8021
Trichloroethene	1	U	1	0.36	1	µg/l	6/6/2008	SW846 8021
Vinyl Chloride	2	U	2	0.89	1	µg/l	6/6/2008	SW846 8021
Total Xylenes	3	U	3	0.41	1	µg/l	6/6/2008	SW846 8021
1,4-Bromofluorobenzene[2]	100%					% Recovery		

MATRIX ENVIRONMENTAL LLC

Mobile Lab Analytical Report
Mobile Lab ID: OH
Matrix Type: Water

PO Box 364
Galena, OH
740-965-8271

Client:	RMT	Matrix Project Number:	056-OHPL-08
Project Name:	Roscoe	Collection Date:	6/6/2008
Project Location:	Roscoe, IL	Report Date:	6/6/2008

Sample ID: AA-21-35

Analyte	Result[4]	Qualifier	RL	MDL[1]	Dilution	Units	Date Analyzed	Analytical Method
Benzene	1	U	1	0.15	1	µg/l	6/6/2008	SW846 8021
Bromodichloromethane	1	U	1	0.50	1	µg/l	6/6/2008	SW846 8021
1,2 Dibromoethane	1	U	1	0.45	1	µg/l	6/6/2008	SW846 8021
Bromoform	10	U	10	0.89	1	µg/l	6/6/2008	SW846 8021
Carbon Tetrachoride	1	U	1	0.41	1	µg/l	6/6/2008	SW846 8021
Chlorobenzene	1	U	1	0.44	1	µg/l	6/6/2008	SW846 8021
Chloroethane	10	U	10	2.84	1	µg/l	6/6/2008	SW846 8021
Chloroform	1	U	1	0.43	1	µg/l	6/6/2008	SW846 8021
Dibromochloromethane	5	U	5	0.92	1	µg/l	6/6/2008	SW846 8021
1,2-Dichlorobenzene	1	U	1	0.37	1	µg/l	6/6/2008	SW846 8021
1,3-Dichlorobenzene	1	U	1	0.44	1	µg/l	6/6/2008	SW846 8021
1,4-Dichlorobenzene	1	U	1	0.22	1	µg/l	6/6/2008	SW846 8021
1,1-Dichloroethane	1	U	1	0.40	1	µg/l	6/6/2008	SW846 8021
1,2-Dichloroethane	1	U	1	0.38	1	µg/l	6/6/2008	SW846 8021
1,1-Dichloroethene	1	U	1	0.48	1	µg/l	6/6/2008	SW846 8021
Cis-1,2-Dichloroethene	1	U	1	0.45	1	µg/l	6/6/2008	SW846 8021
Trans-1,2-Dichloroethene	1	U	1	0.43	1	µg/l	6/6/2008	SW846 8021
1,2-Dichloropropane	1	U	1	0.41	1	µg/l	6/6/2008	SW846 8021
Cis-1,3-Dichloropropene	1	U	1	0.18	1	µg/l	6/6/2008	SW846 8021
Trans-1,3-Dichloropropene	1	U	1	0.36	1	µg/l	6/6/2008	SW846 8021
Ethyl benzene	1	U	1	0.38	1	µg/l	6/6/2008	SW846 8021
Methylene Chloride	1	U	1	0.46	1	µg/l	6/6/2008	SW846 8021
1,1,1,2-Tetrachloroethane	1	U	1	0.38	1	µg/l	6/6/2008	SW846 8021
1,1,2,2-Tetrachloroethane	1	U	1	0.22	1	µg/l	6/6/2008	SW846 8021
Tetrachloroethene	1	U	1	0.27	1	µg/l	6/6/2008	SW846 8021
Toluene	2	U	2	0.49	1	µg/l	6/6/2008	SW846 8021
1,1,1-Trichloroethane	1	U	1	0.35	1	µg/l	6/6/2008	SW846 8021
1,1,2-Trichloroethane	1	U	1	0.32	1	µg/l	6/6/2008	SW846 8021
Trichloroethene	1	U	1	0.36	1	µg/l	6/6/2008	SW846 8021
Vinyl Chloride	2	U	2	0.89	1	µg/l	6/6/2008	SW846 8021
Total Xylenes	3	U	3	0.41	1	µg/l	6/6/2008	SW846 8021
1,4-Bromofluorobenzene[2]	99%					% Recovery		

MATRIX ENVIRONMENTAL LLC

Mobile Lab Analytical Report
Mobile Lab ID: OH
Matrix Type: Water

PO Box 364
Galena, OH
740-965-8271

Client:	RMT	Matrix Project Number:	056-OHPL-08
Project Name:	Roscoe	Collection Date:	6/6/2008
Project Location:	Roscoe, IL	Report Date:	6/6/2008

Sample ID: AA-22-30

Analyte	Result[4]	Qualifier	RL	MDL[1]	Dilution	Units	Date Analyzed	Analytical Method
Benzene	1	U	1	0.15	1	µg/l	6/6/2008	SW846 8021
Bromodichloromethane	1	U	1	0.50	1	µg/l	6/6/2008	SW846 8021
1,2 Dibromoethane	1	U	1	0.45	1	µg/l	6/6/2008	SW846 8021
Bromoform	10	U	10	0.89	1	µg/l	6/6/2008	SW846 8021
Carbon Tetrachoride	1	U	1	0.41	1	µg/l	6/6/2008	SW846 8021
Chlorobenzene	1	U	1	0.44	1	µg/l	6/6/2008	SW846 8021
Chloroethane	10	U	10	2.84	1	µg/l	6/6/2008	SW846 8021
Chloroform	1	U	1	0.43	1	µg/l	6/6/2008	SW846 8021
Dibromochloromethane	5	U	5	0.92	1	µg/l	6/6/2008	SW846 8021
1,2-Dichlorobenzene	1	U	1	0.37	1	µg/l	6/6/2008	SW846 8021
1,3-Dichlorobenzene	1	U	1	0.44	1	µg/l	6/6/2008	SW846 8021
1,4-Dichlorobenzene	1	U	1	0.22	1	µg/l	6/6/2008	SW846 8021
1,1-Dichloroethane	1	U	1	0.40	1	µg/l	6/6/2008	SW846 8021
1,2-Dichloroethane	1	U	1	0.38	1	µg/l	6/6/2008	SW846 8021
1,1-Dichloroethene	1	U	1	0.48	1	µg/l	6/6/2008	SW846 8021
Cis-1,2-Dichloroethene	1	U	1	0.45	1	µg/l	6/6/2008	SW846 8021
Trans-1,2-Dichloroethene	1	U	1	0.43	1	µg/l	6/6/2008	SW846 8021
1,2-Dichloropropane	1	U	1	0.41	1	µg/l	6/6/2008	SW846 8021
Cis-1,3-Dichloropropene	1	U	1	0.18	1	µg/l	6/6/2008	SW846 8021
Trans-1,3-Dichloropropene	1	U	1	0.36	1	µg/l	6/6/2008	SW846 8021
Ethyl benzene	1	U	1	0.38	1	µg/l	6/6/2008	SW846 8021
Methylene Chloride	1	U	1	0.46	1	µg/l	6/6/2008	SW846 8021
1,1,1,2-Tetrachloroethane	1	U	1	0.38	1	µg/l	6/6/2008	SW846 8021
1,1,2,2-Tetrachloroethane	1	U	1	0.22	1	µg/l	6/6/2008	SW846 8021
Tetrachloroethene	1	U	1	0.27	1	µg/l	6/6/2008	SW846 8021
Toluene	2	U	2	0.49	1	µg/l	6/6/2008	SW846 8021
1,1,1-Trichloroethane	1	U	1	0.35	1	µg/l	6/6/2008	SW846 8021
1,1,2-Trichloroethane	1	U	1	0.32	1	µg/l	6/6/2008	SW846 8021
Trichloroethene	1	U	1	0.36	1	µg/l	6/6/2008	SW846 8021
Vinyl Chloride	2	U	2	0.89	1	µg/l	6/6/2008	SW846 8021
Total Xylenes	3	U	3	0.41	1	µg/l	6/6/2008	SW846 8021
1,4-Bromofluorobenzene[2]	99%					% Recovery		

MATRIX ENVIRONMENTAL LLC

Mobile Lab Analytical Report
Mobile Lab ID: OH
Matrix Type: Water

PO Box 364
Galena, OH
740-965-8271

Client:	RMT	Matrix Project Number:	056-OHPL-08
Project Name:	Roscoe	Collection Date:	6/6/2008
Project Location:	Roscoe, IL	Report Date:	6/6/2008

Sample ID: AA-22-35

Analyte	Result[4]	Qualifier	RL	MDL[1]	Dilution	Units	Date Analyzed	Analytical Method
Benzene	1	U	1	0.15	1	µg/l	6/6/2008	SW846 8021
Bromodichloromethane	1	U	1	0.50	1	µg/l	6/6/2008	SW846 8021
1,2 Dibromoethane	1	U	1	0.45	1	µg/l	6/6/2008	SW846 8021
Bromoform	10	U	10	0.89	1	µg/l	6/6/2008	SW846 8021
Carbon Tetrachoride	1	U	1	0.41	1	µg/l	6/6/2008	SW846 8021
Chlorobenzene	1	U	1	0.44	1	µg/l	6/6/2008	SW846 8021
Chloroethane	10	U	10	2.84	1	µg/l	6/6/2008	SW846 8021
Chloroform	1	U	1	0.43	1	µg/l	6/6/2008	SW846 8021
Dibromochloromethane	5	U	5	0.92	1	µg/l	6/6/2008	SW846 8021
1,2-Dichlorobenzene	1	U	1	0.37	1	µg/l	6/6/2008	SW846 8021
1,3-Dichlorobenzene	1	U	1	0.44	1	µg/l	6/6/2008	SW846 8021
1,4-Dichlorobenzene	1	U	1	0.22	1	µg/l	6/6/2008	SW846 8021
1,1-Dichloroethane	1	U	1	0.40	1	µg/l	6/6/2008	SW846 8021
1,2-Dichloroethane	1	U	1	0.38	1	µg/l	6/6/2008	SW846 8021
1,1-Dichloroethene	1	U	1	0.48	1	µg/l	6/6/2008	SW846 8021
Cis-1,2-Dichloroethene	1	U	1	0.45	1	µg/l	6/6/2008	SW846 8021
Trans-1,2-Dichloroethene	1	U	1	0.43	1	µg/l	6/6/2008	SW846 8021
1,2-Dichloropropane	1	U	1	0.41	1	µg/l	6/6/2008	SW846 8021
Cis-1,3-Dichloropropene	1	U	1	0.18	1	µg/l	6/6/2008	SW846 8021
Trans-1,3-Dichloropropene	1	U	1	0.36	1	µg/l	6/6/2008	SW846 8021
Ethyl benzene	1	U	1	0.38	1	µg/l	6/6/2008	SW846 8021
Methylene Chloride	1	U	1	0.46	1	µg/l	6/6/2008	SW846 8021
1,1,1,2-Tetrachloroethane	1	U	1	0.38	1	µg/l	6/6/2008	SW846 8021
1,1,2,2-Tetrachloroethane	1	U	1	0.22	1	µg/l	6/6/2008	SW846 8021
Tetrachloroethene	1	U	1	0.27	1	µg/l	6/6/2008	SW846 8021
Toluene	2	U	2	0.49	1	µg/l	6/6/2008	SW846 8021
1,1,1-Trichloroethane	1	U	1	0.35	1	µg/l	6/6/2008	SW846 8021
1,1,2-Trichloroethane	1	U	1	0.32	1	µg/l	6/6/2008	SW846 8021
Trichloroethene	1	U	1	0.36	1	µg/l	6/6/2008	SW846 8021
Vinyl Chloride	2	U	2	0.89	1	µg/l	6/6/2008	SW846 8021
Total Xylenes	3	U	3	0.41	1	µg/l	6/6/2008	SW846 8021
1,4-Bromofluorobenzene[2]	100%					% Recovery		

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MATRIX ENVIRONMENTAL LLC

Mobile Lab Analytical Report
Mobile Lab ID: [illegible]OH
Matrix Type: Water

PO Box 364
Galena, OH
740-965-8271

Client:	RMT	Matrix Project Number:	056-OHPL-08
Project Name:	Roscoe	Collection Date:	6/6/2008
Project Location:	Roscoe, IL	Report Date:	6/6/2008

Sample ID: AA-23-30

Analyte	Result[1]	Qualifier	RL	MDL[1]	Dilution	Units	Date Analyzed	Analytical Method
Benzene	1	U	1	0.15	1	µg/l	6/6/2008	SW846 8021
Bromodichloromethane	1	U	1	0.50	1	µg/l	6/6/2008	SW846 8021
1,2 Dibromoethane	1	U	1	0.45	1	µg/l	6/6/2008	SW846 8021
Bromoform	10	U	10	0.89	1	µg/l	6/6/2008	SW846 8021
Carbon Tetrachoride	1	U	1	0.41	1	µg/l	6/6/2008	SW846 8021
Chlorobenzene	1	U	1	0.44	1	µg/l	6/6/2008	SW846 8021
Chloroethane	10	U	10	2.84	1	µg/l	6/6/2008	SW846 8021
Chloroform	1	U	1	0.43	1	µg/l	6/6/2008	SW846 8021
Dibromochloromethane	5	U	5	0.92	1	µg/l	6/6/2008	SW846 8021
1,2-Dichlorobenzene	1	U	1	0.37	1	µg/l	6/6/2008	SW846 8021
1,3-Dichlorobenzene	1	U	1	0.44	1	µg/l	6/6/2008	SW846 8021
1,4-Dichlorobenzene	1	U	1	0.22	1	µg/l	6/6/2008	SW846 8021
1,1-Dichloroethane	1	U	1	0.40	1	µg/l	6/6/2008	SW846 8021
1,2-Dichloroethane	1	U	1	0.38	1	µg/l	6/6/2008	SW846 8021
1,1-Dichloroethene	1	U	1	0.48	1	µg/l	6/6/2008	SW846 8021
Cis-1,2-Dichloroethene	1	U	1	0.45	1	µg/l	6/6/2008	SW846 8021
Trans-1,2-Dichloroethene	1	U	1	0.43	1	µg/l	6/6/2008	SW846 8021
1,2-Dichloropropane	1	U	1	0.41	1	µg/l	6/6/2008	SW846 8021
Cis-1,3-Dichloropropene	1	U	1	0.18	1	µg/l	6/6/2008	SW846 8021
Trans-1,3-Dichloropropene	1	U	1	0.36	1	µg/l	6/6/2008	SW846 8021
Ethyl benzene	1	U	1	0.38	1	µg/l	6/6/2008	SW846 8021
Methylene Chloride	1	U	1	0.46	1	µg/l	6/6/2008	SW846 8021
1,1,1,2-Tetrachloroethane	1	U	1	0.38	1	µg/l	6/6/2008	SW846 8021
1,1,2,2-Tetrachloroethane	1	U	1	0.22	1	µg/l	6/6/2008	SW846 8021
Tetrachloroethene	1	U	1	0.27	1	µg/l	6/6/2008	SW846 8021
Toluene	2	U	2	0.49	1	µg/l	6/6/2008	SW846 8021
1,1,1-Trichloroethane	1	U	1	0.35	1	µg/l	6/6/2008	SW846 8021
1,1,2-Trichloroethane	1	U	1	0.32	1	µg/l	6/6/2008	SW846 8021
Trichloroethene	1	U	1	0.36	1	µg/l	6/6/2008	SW846 8021
Vinyl Chloride	2	U	2	0.89	1	µg/l	6/6/2008	SW846 8021
Total Xylenes	3	U	3	0.41	1	µg/l	6/6/2008	SW846 8021
1,4-Bromofluorobenzene[2]	100%					% Recovery		

MATRIX ENVIRONMENTAL LLC

Mobile Lab Analytical Report
Mobile Lab ID: OH
Matrix Type: Water

PO Box 364
Galena, OH
740-965-8271

Client:	RMT	Matrix Project Number:	056-OHPL-08
Project Name:	Roscoe	Collection Date:	6/6/2008
Project Location:	Roscoe, IL	Report Date:	6/6/2008

Sample ID: AA-23-35

Analyte	Result[4]	Qualifier	RL	MDL[1]	Dilution	Units	Date Analyzed	Analytical Method
Benzene	1	U	1	0.15	1	µg/l	6/6/2008	SW846 8021
Bromodichloromethane	1	U	1	0.50	1	µg/l	6/6/2008	SW846 8021
1,2 Dibromoethane	1	U	1	0.45	1	µg/l	6/6/2008	SW846 8021
Bromoform	10	U	10	0.89	1	µg/l	6/6/2008	SW846 8021
Carbon Tetrachoride	1	U	1	0.41	1	µg/l	6/6/2008	SW846 8021
Chlorobenzene	1	U	1	0.44	1	µg/l	6/6/2008	SW846 8021
Chloroethane	10	U	10	2.84	1	µg/l	6/6/2008	SW846 8021
Chloroform	1	U	1	0.43	1	µg/l	6/6/2008	SW846 8021
Dibromochloromethane	5	U	5	0.92	1	µg/l	6/6/2008	SW846 8021
1,2-Dichlorobenzene	1	U	1	0.37	1	µg/l	6/6/2008	SW846 8021
1,3-Dichlorobenzene	1	U	1	0.44	1	µg/l	6/6/2008	SW846 8021
1,4-Dichlorobenzene	1	U	1	0.22	1	µg/l	6/6/2008	SW846 8021
1,1-Dichloroethane	1	U	1	0.40	1	µg/l	6/6/2008	SW846 8021
1,2-Dichloroethane	1	U	1	0.38	1	µg/l	6/6/2008	SW846 8021
1,1-Dichloroethene	1	U	1	0.48	1	µg/l	6/6/2008	SW846 8021
Cis-1,2-Dichloroethene	1	U	1	0.45	1	µg/l	6/6/2008	SW846 8021
Trans-1,2-Dichloroethene	1	U	1	0.43	1	µg/l	6/6/2008	SW846 8021
1,2-Dichloropropane	1	U	1	0.41	1	µg/l	6/6/2008	SW846 8021
Cis-1,3-Dichloropropene	1	U	1	0.18	1	µg/l	6/6/2008	SW846 8021
Trans-1,3-Dichloropropene	1	U	1	0.36	1	µg/l	6/6/2008	SW846 8021
Ethyl benzene	1	U	1	0.38	1	µg/l	6/6/2008	SW846 8021
Methylene Chloride	1	U	1	0.46	1	µg/l	6/6/2008	SW846 8021
1,1,1,2-Tetrachloroethane	1	U	1	0.38	1	µg/l	6/6/2008	SW846 8021
1,1,2,2-Tetrachloroethane	1	U	1	0.22	1	µg/l	6/6/2008	SW846 8021
Tetrachloroethene	1	U	1	0.27	1	µg/l	6/6/2008	SW846 8021
Toluene	2	U	2	0.49	1	µg/l	6/6/2008	SW846 8021
1,1,1-Trichloroethane	1	U	1	0.35	1	µg/l	6/6/2008	SW846 8021
1,1,2-Trichloroethane	1	U	1	0.32	1	µg/l	6/6/2008	SW846 8021
Trichloroethene	1	U	1	0.36	1	µg/l	6/6/2008	SW846 8021
Vinyl Chloride	2	U	2	0.89	1	µg/l	6/6/2008	SW846 8021
Total Xylenes	3	U	3	0.41	1	µg/l	6/6/2008	SW846 8021
1,4-Bromofluorobenzene[2]	86%					% Recovery		

MATRIX ENVIRONMENTAL LLC

Mobile Lab Analytical Report
Mobile Lab ID: [illegible]OH
Matrix Type: Water

PO Box 364
Galena, OH
740-965-8271

Client:	RMT	Matrix Project Number:	056-OHPL-08
Project Name:	Roscoe	Collection Date:	6/6/2008
Project Location:	Roscoe, IL	Report Date:	6/6/2008

Sample ID: AA-24-30

Analyte	Result[4]	Qualifier	RL	MDL[1]	Dilution	Units	Date Analyzed	Analytical Method
Benzene	1	U	1	0.15	1	µg/l	6/6/2008	SW846 8021
Bromodichloromethane	1	U	1	0.50	1	µg/l	6/6/2008	SW846 8021
1,2 Dibromoethane	1	U	1	0.45	1	µg/l	6/6/2008	SW846 8021
Bromoform	10	U	10	0.89	1	µg/l	6/6/2008	SW846 8021
Carbon Tetrachoride	1	U	1	0.41	1	µg/l	6/6/2008	SW846 8021
Chlorobenzene	1	U	1	0.44	1	µg/l	6/6/2008	SW846 8021
Chloroethane	10	U	10	2.84	1	µg/l	6/6/2008	SW846 8021
Chloroform	1	U	1	0.43	1	µg/l	6/6/2008	SW846 8021
Dibromochloromethane	5	U	5	0.92	1	µg/l	6/6/2008	SW846 8021
1,2-Dichlorobenzene	1	U	1	0.37	1	µg/l	6/6/2008	SW846 8021
1,3-Dichlorobenzene	1	U	1	0.44	1	µg/l	6/6/2008	SW846 8021
1,4-Dichlorobenzene	1	U	1	0.22	1	µg/l	6/6/2008	SW846 8021
1,1-Dichloroethane	1	U	1	0.40	1	µg/l	6/6/2008	SW846 8021
1,2-Dichloroethane	1	U	1	0.38	1	µg/l	6/6/2008	SW846 8021
1,1-Dichloroethene	1	U	1	0.48	1	µg/l	6/6/2008	SW846 8021
Cis-1,2-Dichloroethene	1	U	1	0.45	1	µg/l	6/6/2008	SW846 8021
Trans-1,2-Dichloroethene	1	U	1	0.43	1	µg/l	6/6/2008	SW846 8021
1,2-Dichloropropane	1	U	1	0.41	1	µg/l	6/6/2008	SW846 8021
Cis-1,3-Dichloropropene	1	U	1	0.18	1	µg/l	6/6/2008	SW846 8021
Trans-1,3-Dichloropropene	1	U	1	0.36	1	µg/l	6/6/2008	SW846 8021
Ethyl benzene	1	U	1	0.38	1	µg/l	6/6/2008	SW846 8021
Methylene Chloride	1	U	1	0.46	1	µg/l	6/6/2008	SW846 8021
1,1,1,2-Tetrachloroethane	1	U	1	0.38	1	µg/l	6/6/2008	SW846 8021
1,1,2,2-Tetrachloroethane	1	U	1	0.22	1	µg/l	6/6/2008	SW846 8021
Tetrachloroethene	1	U	1	0.27	1	µg/l	6/6/2008	SW846 8021
Toluene	2	U	2	0.49	1	µg/l	6/6/2008	SW846 8021
1,1,1-Trichloroethane	1	U	1	0.35	1	µg/l	6/6/2008	SW846 8021
1,1,2-Trichloroethane	1	U	1	0.32	1	µg/l	6/6/2008	SW846 8021
Trichloroethene	1	U	1	0.36	1	µg/l	6/6/2008	SW846 8021
Vinyl Chloride	2	U	2	0.89	1	µg/l	6/6/2008	SW846 8021
Total Xylenes	3	U	3	0.41	1	µg/l	6/6/2008	SW846 8021
1,4-Bromofluorobenzene[2]	99%					% Recovery		

MATRIX ENVIRONMENTAL LLC

Mobile Lab Analytical Report
Mobile Lab ID: OH
Matrix Type: Water

PO Box 364
Galena, OH
740-965-8271

Client:	RMT	Matrix Project Number:	056-OHPL-08
Project Name:	Roscoe	Collection Date:	6/6/2008
Project Location:	Roscoe, IL	Report Date:	6/6/2008

Sample ID: AA-24-35

Analyte	Result[4]	Qualifier	RL	MDL[1]	Dilution	Units	Date Analyzed	Analytical Method
Benzene	1	U	1	0.15	1	µg/l	6/6/2008	SW846 8021
Bromodichloromethane	1	U	1	0.50	1	µg/l	6/6/2008	SW846 8021
1,2 Dibromoethane	1	U	1	0.45	1	µg/l	6/6/2008	SW846 8021
Bromoform	10	U	10	0.89	1	µg/l	6/6/2008	SW846 8021
Carbon Tetrachoride	1	U	1	0.41	1	µg/l	6/6/2008	SW846 8021
Chlorobenzene	1	U	1	0.44	1	µg/l	6/6/2008	SW846 8021
Chloroethane	10	U	10	2.84	1	µg/l	6/6/2008	SW846 8021
Chloroform	1	U	1	0.43	1	µg/l	6/6/2008	SW846 8021
Dibromochloromethane	5	U	5	0.92	1	µg/l	6/6/2008	SW846 8021
1,2-Dichlorobenzene	1	U	1	0.37	1	µg/l	6/6/2008	SW846 8021
1,3-Dichlorobenzene	1	U	1	0.44	1	µg/l	6/6/2008	SW846 8021
1,4-Dichlorobenzene	1	U	1	0.22	1	µg/l	6/6/2008	SW846 8021
1,1-Dichloroethane	1	U	1	0.40	1	µg/l	6/6/2008	SW846 8021
1,2-Dichloroethane	1	U	1	0.38	1	µg/l	6/6/2008	SW846 8021
1,1-Dichloroethene	1	U	1	0.48	1	µg/l	6/6/2008	SW846 8021
Cis-1,2-Dichloroethene	1	U	1	0.45	1	µg/l	6/6/2008	SW846 8021
Trans-1,2-Dichloroethene	1	U	1	0.43	1	µg/l	6/6/2008	SW846 8021
1,2-Dichloropropane	1	U	1	0.41	1	µg/l	6/6/2008	SW846 8021
Cis-1,3-Dichloropropene	1	U	1	0.18	1	µg/l	6/6/2008	SW846 8021
Trans-1,3-Dichloropropene	1	U	1	0.36	1	µg/l	6/6/2008	SW846 8021
Ethyl benzene	1	U	1	0.38	1	µg/l	6/6/2008	SW846 8021
Methylene Chloride	1	U	1	0.46	1	µg/l	6/6/2008	SW846 8021
1,1,1,2-Tetrachloroethane	1	U	1	0.38	1	µg/l	6/6/2008	SW846 8021
1,1,2,2-Tetrachloroethane	1	U	1	0.22	1	µg/l	6/6/2008	SW846 8021
Tetrachloroethene	1	U	1	0.27	1	µg/l	6/6/2008	SW846 8021
Toluene	2	U	2	0.49	1	µg/l	6/6/2008	SW846 8021
1,1,1-Trichloroethane	1	U	1	0.35	1	µg/l	6/6/2008	SW846 8021
1,1,2-Trichloroethane	1	U	1	0.32	1	µg/l	6/6/2008	SW846 8021
Trichloroethene	1	U	1	0.36	1	µg/l	6/6/2008	SW846 8021
Vinyl Chloride	2	U	2	0.89	1	µg/l	6/6/2008	SW846 8021
Total Xylenes	3	U	3	0.41	1	µg/l	6/6/2008	SW846 8021
1,4-Bromofluorobenzene[2]	99%					% Recovery		

MATRIX ENVIRONMENTAL LLC

Mobile Lab Analytical Report
Mobile Lab ID: MOH
Matrix Type: Water

PO Box 364
Galena, OH
740-965-8271

Client:	RMT	Matrix Project Number:	056-OHPL-08
Project Name:	Roscoe	Collection Date:	6/6/2008
Project Location:	Roscoe, IL	Report Date:	6/6/2008

Sample ID: AA-25-30

Analyte	Result[1]	Qualifier	RL	MDL[1]	Dilution	Units	Date Analyzed	Analytical Method
Benzene	1	U	1	0.15	1	µg/l	6/6/2008	SW846 8021
Bromodichloromethane	1	U	1	0.50	1	µg/l	6/6/2008	SW846 8021
1,2 Dibromoethane	1	U	1	0.45	1	µg/l	6/6/2008	SW846 8021
Bromoform	10	U	10	0.89	1	µg/l	6/6/2008	SW846 8021
Carbon Tetrachoride	1	U	1	0.41	1	µg/l	6/6/2008	SW846 8021
Chlorobenzene	1	U	1	0.44	1	µg/l	6/6/2008	SW846 8021
Chloroethane	10	U	10	2.84	1	µg/l	6/6/2008	SW846 8021
Chloroform	1	U	1	0.43	1	µg/l	6/6/2008	SW846 8021
Dibromochloromethane	5	U	5	0.92	1	µg/l	6/6/2008	SW846 8021
1,2-Dichlorobenzene	1	U	1	0.37	1	µg/l	6/6/2008	SW846 8021
1,3-Dichlorobenzene	1	U	1	0.44	1	µg/l	6/6/2008	SW846 8021
1,4-Dichlorobenzene	1	U	1	0.22	1	µg/l	6/6/2008	SW846 8021
1,1-Dichloroethane	1	U	1	0.40	1	µg/l	6/6/2008	SW846 8021
1,2-Dichloroethane	1	U	1	0.38	1	µg/l	6/6/2008	SW846 8021
1,1-Dichloroethene	1	U	1	0.48	1	µg/l	6/6/2008	SW846 8021
Cis-1,2-Dichloroethene	1	U	1	0.45	1	µg/l	6/6/2008	SW846 8021
Trans-1,2-Dichloroethene	1	U	1	0.43	1	µg/l	6/6/2008	SW846 8021
1,2-Dichloropropane	1	U	1	0.41	1	µg/l	6/6/2008	SW846 8021
Cis-1,3-Dichloropropene	1	U	1	0.18	1	µg/l	6/6/2008	SW846 8021
Trans-1,3-Dichloropropene	1	U	1	0.36	1	µg/l	6/6/2008	SW846 8021
Ethyl benzene	1	U	1	0.38	1	µg/l	6/6/2008	SW846 8021
Methylene Chloride	1	U	1	0.46	1	µg/l	6/6/2008	SW846 8021
1,1,1,2-Tetrachloroethane	1	U	1	0.38	1	µg/l	6/6/2008	SW846 8021
1,1,2,2-Tetrachloroethane	1	U	1	0.22	1	µg/l	6/6/2008	SW846 8021
Tetrachloroethene	1	U	1	0.27	1	µg/l	6/6/2008	SW846 8021
Toluene	2	U	2	0.49	1	µg/l	6/6/2008	SW846 8021
1,1,1-Trichloroethane	1	U	1	0.35	1	µg/l	6/6/2008	SW846 8021
1,1,2-Trichloroethane	1	U	1	0.32	1	µg/l	6/6/2008	SW846 8021
Trichloroethene	1	U	1	0.36	1	µg/l	6/6/2008	SW846 8021
Vinyl Chloride	2	U	2	0.89	1	µg/l	6/6/2008	SW846 8021
Total Xylenes	3	U	3	0.41	1	µg/l	6/6/2008	SW846 8021
1,4-Bromofluorobenzene[2]	85%					% Recovery		

MATRIX ENVIRONMENTAL LLC

Mobile Lab Analytical Report
Mobile Lab ID: OH
Matrix Type: Water

PO Box 364
Galena, OH
740-965-8271

Client:	RMT	Matrix Project Number:	056-OHPL-08
Project Name:	Roscoe	Collection Date:	6/6/2008
Project Location:	Roscoe, IL	Report Date:	6/6/2008

Sample ID: AA-25-35

Analyte	Result[4]	Qualifier	RL	MDL[1]	Dilution	Units	Date Analyzed	Analytical Method
Benzene	1	U	1	0.15	1	µg/l	6/6/2008	SW846 8021
Bromodichloromethane	1	U	1	0.50	1	µg/l	6/6/2008	SW846 8021
1,2 Dibromoethane	1	U	1	0.45	1	µg/l	6/6/2008	SW846 8021
Bromoform	10	U	10	0.89	1	µg/l	6/6/2008	SW846 8021
Carbon Tetrachoride	1	U	1	0.41	1	µg/l	6/6/2008	SW846 8021
Chlorobenzene	1	U	1	0.44	1	µg/l	6/6/2008	SW846 8021
Chloroethane	10	U	10	2.84	1	µg/l	6/6/2008	SW846 8021
Chloroform	1	U	1	0.43	1	µg/l	6/6/2008	SW846 8021
Dibromochloromethane	5	U	5	0.92	1	µg/l	6/6/2008	SW846 8021
1,2-Dichlorobenzene	1	U	1	0.37	1	µg/l	6/6/2008	SW846 8021
1,3-Dichlorobenzene	1	U	1	0.44	1	µg/l	6/6/2008	SW846 8021
1,4-Dichlorobenzene	1	U	1	0.22	1	µg/l	6/6/2008	SW846 8021
1,1-Dichloroethane	1	U	1	0.40	1	µg/l	6/6/2008	SW846 8021
1,2-Dichloroethane	1	U	1	0.38	1	µg/l	6/6/2008	SW846 8021
1,1-Dichloroethene	1	U	1	0.48	1	µg/l	6/6/2008	SW846 8021
Cis-1,2-Dichloroethene	1	U	1	0.45	1	µg/l	6/6/2008	SW846 8021
Trans-1,2-Dichloroethene	1	U	1	0.43	1	µg/l	6/6/2008	SW846 8021
1,2-Dichloropropane	1	U	1	0.41	1	µg/l	6/6/2008	SW846 8021
Cis-1,3-Dichloropropene	1	U	1	0.18	1	µg/l	6/6/2008	SW846 8021
Trans-1,3-Dichloropropene	1	U	1	0.36	1	µg/l	6/6/2008	SW846 8021
Ethyl benzene	1	U	1	0.38	1	µg/l	6/6/2008	SW846 8021
Methylene Chloride	1	U	1	0.46	1	µg/l	6/6/2008	SW846 8021
1,1,1,2-Tetrachloroethane	1	U	1	0.38	1	µg/l	6/6/2008	SW846 8021
1,1,2,2-Tetrachloroethane	1	U	1	0.22	1	µg/l	6/6/2008	SW846 8021
Tetrachloroethene	1	U	1	0.27	1	µg/l	6/6/2008	SW846 8021
Toluene	2	U	2	0.49	1	µg/l	6/6/2008	SW846 8021
1,1,1-Trichloroethane	1	U	1	0.35	1	µg/l	6/6/2008	SW846 8021
1,1,2-Trichloroethane	1	U	1	0.32	1	µg/l	6/6/2008	SW846 8021
Trichloroethene	1	U	1	0.36	1	µg/l	6/6/2008	SW846 8021
Vinyl Chloride	2	U	2	0.89	1	µg/l	6/6/2008	SW846 8021
Total Xylenes	3	U	3	0.41	1	µg/l	6/6/2008	SW846 8021
1,4-Bromofluorobenzene[2]	98%					% Recovery		

MATRIX ENVIRONMENTAL LLC

Mobile Lab Analytical Report
Mobile Lab ID: OH
Matrix Type: Water

PO Box 364
Galena, OH
740-965-8271

Client:	RMT	Matrix Project Number:	056-OHPL-08
Project Name:	Roscoe	Collection Date:	6/6/2008
Project Location:	Roscoe, IL	Report Date:	6/6/2008

Sample ID: AA-26-30

Analyte	Result[4]	Qualifier	RL	MDL[1]	Dilution	Units	Date Analyzed	Analytical Method
Benzene	1	U	1	0.15	1	µg/l	6/6/2008	SW846 8021
Bromodichloromethane	1	U	1	0.50	1	µg/l	6/6/2008	SW846 8021
1,2 Dibromoethane	1	U	1	0.45	1	µg/l	6/6/2008	SW846 8021
Bromoform	10	U	10	0.89	1	µg/l	6/6/2008	SW846 8021
Carbon Tetrachoride	1	U	1	0.41	1	µg/l	6/6/2008	SW846 8021
Chlorobenzene	1	U	1	0.44	1	µg/l	6/6/2008	SW846 8021
Chloroethane	10	U	10	2.84	1	µg/l	6/6/2008	SW846 8021
Chloroform	1	U	1	0.43	1	µg/l	6/6/2008	SW846 8021
Dibromochloromethane	5	U	5	0.92	1	µg/l	6/6/2008	SW846 8021
1,2-Dichlorobenzene	1	U	1	0.37	1	µg/l	6/6/2008	SW846 8021
1,3-Dichlorobenzene	1	U	1	0.44	1	µg/l	6/6/2008	SW846 8021
1,4-Dichlorobenzene	1	U	1	0.22	1	µg/l	6/6/2008	SW846 8021
1,1-Dichloroethane	1	U	1	0.40	1	µg/l	6/6/2008	SW846 8021
1,2-Dichloroethane	1	U	1	0.38	1	µg/l	6/6/2008	SW846 8021
1,1-Dichloroethene	1	U	1	0.48	1	µg/l	6/6/2008	SW846 8021
Cis-1,2-Dichloroethene	1	U	1	0.45	1	µg/l	6/6/2008	SW846 8021
Trans-1,2-Dichloroethene	1	U	1	0.43	1	µg/l	6/6/2008	SW846 8021
1,2-Dichloropropane	1	U	1	0.41	1	µg/l	6/6/2008	SW846 8021
Cis-1,3-Dichloropropene	1	U	1	0.18	1	µg/l	6/6/2008	SW846 8021
Trans-1,3-Dichloropropene	1	U	1	0.36	1	µg/l	6/6/2008	SW846 8021
Ethyl benzene	1	U	1	0.38	1	µg/l	6/6/2008	SW846 8021
Methylene Chloride	1	U	1	0.46	1	µg/l	6/6/2008	SW846 8021
1,1,1,2-Tetrachloroethane	1	U	1	0.38	1	µg/l	6/6/2008	SW846 8021
1,1,2,2-Tetrachloroethane	1	U	1	0.22	1	µg/l	6/6/2008	SW846 8021
Tetrachloroethene	1	U	1	0.27	1	µg/l	6/6/2008	SW846 8021
Toluene	2	U	2	0.49	1	µg/l	6/6/2008	SW846 8021
1,1,1-Trichloroethane	1	U	1	0.35	1	µg/l	6/6/2008	SW846 8021
1,1,2-Trichloroethane	1	U	1	0.32	1	µg/l	6/6/2008	SW846 8021
Trichloroethene	1	U	1	0.36	1	µg/l	6/6/2008	SW846 8021
Vinyl Chloride	2	U	2	0.89	1	µg/l	6/6/2008	SW846 8021
Total Xylenes	3	U	3	0.41	1	µg/l	6/6/2008	SW846 8021
1,4-Bromofluorobenzene[2]	106%					% Recovery		

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MATRIX ENVIRONMENTAL LLC

Mobile Lab Analytical Report
Mobile Lab ID: OH
Matrix Type: Water

PO Box 364
Galena, OH
740-965-8271

Client:	RMT	Matrix Project Number:	056-OHPL-08
Project Name:	Roscoe	Collection Date:	6/6/2008
Project Location:	Roscoe, IL	Report Date:	6/6/2008

Sample ID: AA-26-35

Analyte	Result[4]	Qualifier	RL	MDL[1]	Dilution	Units	Date Analyzed	Analytical Method
Benzene	1	U	1	0.15	1	µg/l	6/6/2008	SW846 8021
Bromodichloromethane	1	U	1	0.50	1	µg/l	6/6/2008	SW846 8021
1,2 Dibromoethane	1	U	1	0.45	1	µg/l	6/6/2008	SW846 8021
Bromoform	10	U	10	0.89	1	µg/l	6/6/2008	SW846 8021
Carbon Tetrachoride	1	U	1	0.41	1	µg/l	6/6/2008	SW846 8021
Chlorobenzene	1	U	1	0.44	1	µg/l	6/6/2008	SW846 8021
Chloroethane	10	U	10	2.84	1	µg/l	6/6/2008	SW846 8021
Chloroform	1	U	1	0.43	1	µg/l	6/6/2008	SW846 8021
Dibromochloromethane	5	U	5	0.92	1	µg/l	6/6/2008	SW846 8021
1,2-Dichlorobenzene	1	U	1	0.37	1	µg/l	6/6/2008	SW846 8021
1,3-Dichlorobenzene	1	U	1	0.44	1	µg/l	6/6/2008	SW846 8021
1,4-Dichlorobenzene	1	U	1	0.22	1	µg/l	6/6/2008	SW846 8021
1,1-Dichloroethane	1	U	1	0.40	1	µg/l	6/6/2008	SW846 8021
1,2-Dichloroethane	1	U	1	0.38	1	µg/l	6/6/2008	SW846 8021
1,1-Dichloroethene	1	U	1	0.48	1	µg/l	6/6/2008	SW846 8021
Cis-1,2-Dichloroethene	1	U	1	0.45	1	µg/l	6/6/2008	SW846 8021
Trans-1,2-Dichloroethene	1	U	1	0.43	1	µg/l	6/6/2008	SW846 8021
1,2-Dichloropropane	1	U	1	0.41	1	µg/l	6/6/2008	SW846 8021
Cis-1,3-Dichloropropene	1	U	1	0.18	1	µg/l	6/6/2008	SW846 8021
Trans-1,3-Dichloropropene	1	U	1	0.36	1	µg/l	6/6/2008	SW846 8021
Ethyl benzene	1	U	1	0.38	1	µg/l	6/6/2008	SW846 8021
Methylene Chloride	1	U	1	0.46	1	µg/l	6/6/2008	SW846 8021
1,1,1,2-Tetrachloroethane	1	U	1	0.38	1	µg/l	6/6/2008	SW846 8021
1,1,2,2-Tetrachloroethane	1	U	1	0.22	1	µg/l	6/6/2008	SW846 8021
Tetrachloroethene	1	U	1	0.27	1	µg/l	6/6/2008	SW846 8021
Toluene	2	U	2	0.49	1	µg/l	6/6/2008	SW846 8021
1,1,1-Trichloroethane	1	U	1	0.35	1	µg/l	6/6/2008	SW846 8021
1,1,2-Trichloroethane	1	U	1	0.32	1	µg/l	6/6/2008	SW846 8021
Trichloroethene	1	U	1	0.36	1	µg/l	6/6/2008	SW846 8021
Vinyl Chloride	2	U	2	0.89	1	µg/l	6/6/2008	SW846 8021
Total Xylenes	3	U	3	0.41	1	µg/l	6/6/2008	SW846 8021
1,4-Bromofluorobenzene[2]	83%					% Recovery		

VA

MATRIX ENVIRONMENTAL LLC

Mobile Lab Analytical Report
Mobile Lab ID: OH
Matrix Type: Water

PO Box 364
Galena, OH
740-965-8271

Client:	RMT	Matrix Project Number:	056-OHPL-08
Project Name:	Roscoe	Collection Date:	6/6/2008
Project Location:	Roscoe, IL	Report Date:	6/6/2008

Sample ID: AA-27-30

Analyte	Result[1]	Qualifier	RL	MDL[1]	Dilution	Units	Date Analyzed	Analytical Method
Benzene	1	U	1	0.15	1	µg/l	6/6/2008	SW846 8021
Bromodichloromethane	1	U	1	0.50	1	µg/l	6/6/2008	SW846 8021
1,2 Dibromoethane	1	U	1	0.45	1	µg/l	6/6/2008	SW846 8021
Bromoform	10	U	10	0.89	1	µg/l	6/6/2008	SW846 8021
Carbon Tetrachoride	1	U	1	0.41	1	µg/l	6/6/2008	SW846 8021
Chlorobenzene	1	U	1	0.44	1	µg/l	6/6/2008	SW846 8021
Chloroethane	10	U	10	2.84	1	µg/l	6/6/2008	SW846 8021
Chloroform	1	U	1	0.43	1	µg/l	6/6/2008	SW846 8021
Dibromochloromethane	5	U	5	0.92	1	µg/l	6/6/2008	SW846 8021
1,2-Dichlorobenzene	1	U	1	0.37	1	µg/l	6/6/2008	SW846 8021
1,3-Dichlorobenzene	1	U	1	0.44	1	µg/l	6/6/2008	SW846 8021
1,4-Dichlorobenzene	1	U	1	0.22	1	µg/l	6/6/2008	SW846 8021
1,1-Dichloroethane	1	U	1	0.40	1	µg/l	6/6/2008	SW846 8021
1,2-Dichloroethane	1	U	1	0.38	1	µg/l	6/6/2008	SW846 8021
1,1-Dichloroethene	1	U	1	0.48	1	µg/l	6/6/2008	SW846 8021
Cis-1,2-Dichloroethene	**2**		1	0.45	1	µg/l	6/6/2008	SW846 8021
Trans-1,2-Dichloroethene	1	U	1	0.43	1	µg/l	6/6/2008	SW846 8021
1,2-Dichloropropane	1	U	1	0.41	1	µg/l	6/6/2008	SW846 8021
Cis-1,3-Dichloropropene	1	U	1	0.18	1	µg/l	6/6/2008	SW846 8021
Trans-1,3-Dichloropropene	1	U	1	0.36	1	µg/l	6/6/2008	SW846 8021
Ethyl benzene	1	U	1	0.38	1	µg/l	6/6/2008	SW846 8021
Methylene Chloride	1	U	1	0.46	1	µg/l	6/6/2008	SW846 8021
1,1,1,2-Tetrachloroethane	1	U	1	0.38	1	µg/l	6/6/2008	SW846 8021
1,1,2,2-Tetrachloroethane	1	U	1	0.22	1	µg/l	6/6/2008	SW846 8021
Tetrachloroethene	1	U	1	0.27	1	µg/l	6/6/2008	SW846 8021
Toluene	2	U	2	0.49	1	µg/l	6/6/2008	SW846 8021
1,1,1-Trichloroethane	1	U	1	0.35	1	µg/l	6/6/2008	SW846 8021
1,1,2-Trichloroethane	1	U	1	0.32	1	µg/l	6/6/2008	SW846 8021
Trichloroethene	1	U	1	0.36	1	µg/l	6/6/2008	SW846 8021
Vinyl Chloride	2	U	2	0.89	1	µg/l	6/6/2008	SW846 8021
Total Xylenes	3	U	3	0.41	1	µg/l	6/6/2008	SW846 8021
1,4-Bromofluorobenzene[2]	103%				% Recovery			

MATRIX ENVIRONMENTAL LLC

Mobile Lab Analytical Report
Mobile Lab ID: OH
Matrix Type: Water

PO Box 364
Galena, OH
740-965-8271

Client:	RMT	Matrix Project Number:	056-OHPL-08
Project Name:	Roscoe	Collection Date:	6/6/2008
Project Location:	Roscoe, IL	Report Date:	6/6/2008

Sample ID: AA-27-35

Analyte	Result[4]	Qualifier	RL	MDL[1]	Dilution	Units	Date Analyzed	Analytical Method
Benzene	1	U	1	0.15	1	µg/l	6/6/2008	SW846 8021
Bromodichloromethane	1	U	1	0.50	1	µg/l	6/6/2008	SW846 8021
1,2 Dibromoethane	1	U	1	0.45	1	µg/l	6/6/2008	SW846 8021
Bromoform	10	U	10	0.89	1	µg/l	6/6/2008	SW846 8021
Carbon Tetrachoride	1	U	1	0.41	1	µg/l	6/6/2008	SW846 8021
Chlorobenzene	1	U	1	0.44	1	µg/l	6/6/2008	SW846 8021
Chloroethane	10	U	10	2.84	1	µg/l	6/6/2008	SW846 8021
Chloroform	1	U	1	0.43	1	µg/l	6/6/2008	SW846 8021
Dibromochloromethane	5	U	5	0.92	1	µg/l	6/6/2008	SW846 8021
1,2-Dichlorobenzene	1	U	1	0.37	1	µg/l	6/6/2008	SW846 8021
1,3-Dichlorobenzene	1	U	1	0.44	1	µg/l	6/6/2008	SW846 8021
1,4-Dichlorobenzene	1	U	1	0.22	1	µg/l	6/6/2008	SW846 8021
1,1-Dichloroethane	1	U	1	0.40	1	µg/l	6/6/2008	SW846 8021
1,2-Dichloroethane	1	U	1	0.38	1	µg/l	6/6/2008	SW846 8021
1,1-Dichloroethene	1	U	1	0.48	1	µg/l	6/6/2008	SW846 8021
Cis-1,2-Dichloroethene	5		1	0.45	1	µg/l	6/6/2008	SW846 8021
Trans-1,2-Dichloroethene	1	U	1	0.43	1	µg/l	6/6/2008	SW846 8021
1,2-Dichloropropane	1	U	1	0.41	1	µg/l	6/6/2008	SW846 8021
Cis-1,3-Dichloropropene	1	U	1	0.18	1	µg/l	6/6/2008	SW846 8021
Trans-1,3-Dichloropropene	1	U	1	0.36	1	µg/l	6/6/2008	SW846 8021
Ethyl benzene	1	U	1	0.38	1	µg/l	6/6/2008	SW846 8021
Methylene Chloride	1	U	1	0.46	1	µg/l	6/6/2008	SW846 8021
1,1,1,2-Tetrachloroethane	1	U	1	0.38	1	µg/l	6/6/2008	SW846 8021
1,1,2,2-Tetrachloroethane	1	U	1	0.22	1	µg/l	6/6/2008	SW846 8021
Tetrachloroethene	1	U	1	0.27	1	µg/l	6/6/2008	SW846 8021
Toluene	2	U	2	0.49	1	µg/l	6/6/2008	SW846 8021
1,1,1-Trichloroethane	1	U	1	0.35	1	µg/l	6/6/2008	SW846 8021
1,1,2-Trichloroethane	1	U	1	0.32	1	µg/l	6/6/2008	SW846 8021
Trichloroethene	1	U	1	0.36	1	µg/l	6/6/2008	SW846 8021
Vinyl Chloride	2	U	2	0.89	1	µg/l	6/6/2008	SW846 8021
Total Xylenes	3	U	3	0.41	1	µg/l	6/6/2008	SW846 8021
1,4-Bromofluorobenzene[2]	110%					% Recovery		

MATRIX ENVIRONMENTAL LLC

Mobile Lab Analytical Report
Mobile Lab ID: OH
Matrix Type: Water

PO Box 364
Galena, OH
740-965-8271

Client:	RMT	Matrix Project Number:	056-OHPL-08
Project Name:	Roscoe	Collection Date:	6/6/2008
Project Location:	Roscoe, IL	Report Date:	6/6/2008

Sample ID: AA-27-40

Analyte	Result[4]	Qualifier	RL	MDL[1]	Dilution	Units	Date Analyzed	Analytical Method
Benzene	1	U	1	0.15	1	µg/l	6/6/2008	SW846 8021
Bromodichloromethane	1	U	1	0.50	1	µg/l	6/6/2008	SW846 8021
1,2 Dibromoethane	1	U	1	0.45	1	µg/l	6/6/2008	SW846 8021
Bromoform	10	U	10	0.89	1	µg/l	6/6/2008	SW846 8021
Carbon Tetrachoride	1	U	1	0.41	1	µg/l	6/6/2008	SW846 8021
Chlorobenzene	1	U	1	0.44	1	µg/l	6/6/2008	SW846 8021
Chloroethane	10	U	10	2.84	1	µg/l	6/6/2008	SW846 8021
Chloroform	1	U	1	0.43	1	µg/l	6/6/2008	SW846 8021
Dibromochloromethane	5	U	5	0.92	1	µg/l	6/6/2008	SW846 8021
1,2-Dichlorobenzene	1	U	1	0.37	1	µg/l	6/6/2008	SW846 8021
1,3-Dichlorobenzene	1	U	1	0.44	1	µg/l	6/6/2008	SW846 8021
1,4-Dichlorobenzene	1	U	1	0.22	1	µg/l	6/6/2008	SW846 8021
1,1-Dichloroethane	1	U	1	0.40	1	µg/l	6/6/2008	SW846 8021
1,2-Dichloroethane	1	U	1	0.38	1	µg/l	6/6/2008	SW846 8021
1,1-Dichloroethene	1	U	1	0.48	1	µg/l	6/6/2008	SW846 8021
Cis-1,2-Dichloroethene	1	U	1	0.45	1	µg/l	6/6/2008	SW846 8021
Trans-1,2-Dichloroethene	1	U	1	0.43	1	µg/l	6/6/2008	SW846 8021
1,2-Dichloropropane	1	U	1	0.41	1	µg/l	6/6/2008	SW846 8021
Cis-1,3-Dichloropropene	1	U	1	0.18	1	µg/l	6/6/2008	SW846 8021
Trans-1,3-Dichloropropene	1	U	1	0.36	1	µg/l	6/6/2008	SW846 8021
Ethyl benzene	1	U	1	0.38	1	µg/l	6/6/2008	SW846 8021
Methylene Chloride	1	U	1	0.46	1	µg/l	6/6/2008	SW846 8021
1,1,1,2-Tetrachloroethane	1	U	1	0.38	1	µg/l	6/6/2008	SW846 8021
1,1,2,2-Tetrachloroethane	1	U	1	0.22	1	µg/l	6/6/2008	SW846 8021
Tetrachloroethene	1	U	1	0.27	1	µg/l	6/6/2008	SW846 8021
Toluene	2	U	2	0.49	1	µg/l	6/6/2008	SW846 8021
1,1,1-Trichloroethane	1	U	1	0.35	1	µg/l	6/6/2008	SW846 8021
1,1,2-Trichloroethane	1	U	1	0.32	1	µg/l	6/6/2008	SW846 8021
Trichloroethene	1	U	1	0.36	1	µg/l	6/6/2008	SW846 8021
Vinyl Chloride	2	U	2	0.89	1	µg/l	6/6/2008	SW846 8021
Total Xylenes	3	U	3	0.41	1	µg/l	6/6/2008	SW846 8021
1,4-Bromofluorobenzene[2]	110%					% Recovery		

MATRIX ENVIRONMENTAL LLC

Mobile Lab Analytical Report
Mobile Lab ID: OH
Matrix Type: Water

PO Box 364
Galena, OH
740-965-8271

Client:	RMT	Matrix Project Number:	056-OHPL-08
Project Name:	Roscoe	Collection Date:	6/6/2008
Project Location:	Roscoe, IL	Report Date:	6/6/2008

Sample ID: AA-27-45

Analyte	Result[4]	Qualifier	RL	MDL[1]	Dilution	Units	Date Analyzed	Analytical Method
Benzene	1	U	1	0.15	1	µg/l	6/6/2008	SW846 8021
Bromodichloromethane	1	U	1	0.50	1	µg/l	6/6/2008	SW846 8021
1,2 Dibromoethane	1	U	1	0.45	1	µg/l	6/6/2008	SW846 8021
Bromoform	10	U	10	0.89	1	µg/l	6/6/2008	SW846 8021
Carbon Tetrachoride	1	U	1	0.41	1	µg/l	6/6/2008	SW846 8021
Chlorobenzene	1	U	1	0.44	1	µg/l	6/6/2008	SW846 8021
Chloroethane	10	U	10	2.84	1	µg/l	6/6/2008	SW846 8021
Chloroform	1	U	1	0.43	1	µg/l	6/6/2008	SW846 8021
Dibromochloromethane	5	U	5	0.92	1	µg/l	6/6/2008	SW846 8021
1,2-Dichlorobenzene	1	U	1	0.37	1	µg/l	6/6/2008	SW846 8021
1,3-Dichlorobenzene	1	U	1	0.44	1	µg/l	6/6/2008	SW846 8021
1,4-Dichlorobenzene	1	U	1	0.22	1	µg/l	6/6/2008	SW846 8021
1,1-Dichloroethane	1	U	1	0.40	1	µg/l	6/6/2008	SW846 8021
1,2-Dichloroethane	1	U	1	0.38	1	µg/l	6/6/2008	SW846 8021
1,1-Dichloroethene	1	U	1	0.48	1	µg/l	6/6/2008	SW846 8021
Cis-1,2-Dichloroethene	1	U	1	0.45	1	µg/l	6/6/2008	SW846 8021
Trans-1,2-Dichloroethene	1	U	1	0.43	1	µg/l	6/6/2008	SW846 8021
1,2-Dichloropropane	1	U	1	0.41	1	µg/l	6/6/2008	SW846 8021
Cis-1,3-Dichloropropene	1	U	1	0.18	1	µg/l	6/6/2008	SW846 8021
Trans-1,3-Dichloropropene	1	U	1	0.36	1	µg/l	6/6/2008	SW846 8021
Ethyl benzene	1	U	1	0.38	1	µg/l	6/6/2008	SW846 8021
Methylene Chloride	1	U	1	0.46	1	µg/l	6/6/2008	SW846 8021
1,1,1,2-Tetrachloroethane	1	U	1	0.38	1	µg/l	6/6/2008	SW846 8021
1,1,2,2-Tetrachloroethane	1	U	1	0.22	1	µg/l	6/6/2008	SW846 8021
Tetrachloroethene	1	U	1	0.27	1	µg/l	6/6/2008	SW846 8021
Toluene	2	U	2	0.49	1	µg/l	6/6/2008	SW846 8021
1,1,1-Trichloroethane	1	U	1	0.35	1	µg/l	6/6/2008	SW846 8021
1,1,2-Trichloroethane	1	U	1	0.32	1	µg/l	6/6/2008	SW846 8021
Trichloroethene	1	U	1	0.36	1	µg/l	6/6/2008	SW846 8021
Vinyl Chloride	2	U	2	0.89	1	µg/l	6/6/2008	SW846 8021
Total Xylenes	3	U	3	0.41	1	µg/l	6/6/2008	SW846 8021
1,4-Bromofluorobenzene[2]	112%					% Recovery		

MATRIX ENVIRONMENTAL LLC

Mobile Lab Analytical Report
Mobile Lab ID: OH
Matrix Type: Water

PO Box 364
Galena, OH
740-965-8271

Client:	RMT	Matrix Project Number:	056-OHPL-08
Project Name:	Roscoe	Collection Date:	6/6/2008
Project Location:	Roscoe, IL	Report Date:	6/6/2008

Sample ID: AA-27-50

Analyte	Result[4]	Qualifier	RL	MDL[1]	Dilution	Units	Date Analyzed	Analytical Method
Benzene	1	U	1	0.15	1	µg/l	6/6/2008	SW846 8021
Bromodichloromethane	1	U	1	0.50	1	µg/l	6/6/2008	SW846 8021
1,2 Dibromoethane	1	U	1	0.45	1	µg/l	6/6/2008	SW846 8021
Bromoform	10	U	10	0.89	1	µg/l	6/6/2008	SW846 8021
Carbon Tetrachoride	1	U	1	0.41	1	µg/l	6/6/2008	SW846 8021
Chlorobenzene	1	U	1	0.44	1	µg/l	6/6/2008	SW846 8021
Chloroethane	10	U	10	2.84	1	µg/l	6/6/2008	SW846 8021
Chloroform	1	U	1	0.43	1	µg/l	6/6/2008	SW846 8021
Dibromochloromethane	5	U	5	0.92	1	µg/l	6/6/2008	SW846 8021
1,2-Dichlorobenzene	1	U	1	0.37	1	µg/l	6/6/2008	SW846 8021
1,3-Dichlorobenzene	1	U	1	0.44	1	µg/l	6/6/2008	SW846 8021
1,4-Dichlorobenzene	1	U	1	0.22	1	µg/l	6/6/2008	SW846 8021
1,1-Dichloroethane	1	U	1	0.40	1	µg/l	6/6/2008	SW846 8021
1,2-Dichloroethane	1	U	1	0.38	1	µg/l	6/6/2008	SW846 8021
1,1-Dichloroethene	1	U	1	0.48	1	µg/l	6/6/2008	SW846 8021
Cis-1,2-Dichloroethene	1	U	1	0.45	1	µg/l	6/6/2008	SW846 8021
Trans-1,2-Dichloroethene	1	U	1	0.43	1	µg/l	6/6/2008	SW846 8021
1,2-Dichloropropane	1	U	1	0.41	1	µg/l	6/6/2008	SW846 8021
Cis-1,3-Dichloropropene	1	U	1	0.18	1	µg/l	6/6/2008	SW846 8021
Trans-1,3-Dichloropropene	1	U	1	0.36	1	µg/l	6/6/2008	SW846 8021
Ethyl benzene	1	U	1	0.38	1	µg/l	6/6/2008	SW846 8021
Methylene Chloride	1	U	1	0.46	1	µg/l	6/6/2008	SW846 8021
1,1,1,2-Tetrachloroethane	1	U	1	0.38	1	µg/l	6/6/2008	SW846 8021
1,1,2,2-Tetrachloroethane	1	U	1	0.22	1	µg/l	6/6/2008	SW846 8021
Tetrachloroethene	1	U	1	0.27	1	µg/l	6/6/2008	SW846 8021
Toluene	2	U	2	0.49	1	µg/l	6/6/2008	SW846 8021
1,1,1-Trichloroethane	1	U	1	0.35	1	µg/l	6/6/2008	SW846 8021
1,1,2-Trichloroethane	1	U	1	0.32	1	µg/l	6/6/2008	SW846 8021
Trichloroethene	1	U	1	0.36	1	µg/l	6/6/2008	SW846 8021
Vinyl Chloride	2	U	2	0.89	1	µg/l	6/6/2008	SW846 8021
Total Xylenes	3	U	3	0.41	1	µg/l	6/6/2008	SW846 8021
1,4-Bromofluorobenzene[2]	101%					% Recovery		

MATRIX ENVIRONMENTAL LLC

Mobile Lab Analytical Report
Mobile Lab ID: OH
Matrix Type: Water

PO Box 364
Galena, OH
740-965-8271

Client:	RMT	Matrix Project Number:	056-OHPL-08
Project Name:	Roscoe	Collection Date:	6/6/2008
Project Location:	Roscoe, IL	Report Date:	6/6/2008

Sample ID: AA-28-30

Analyte	Result[4]	Qualifier	RL	MDL[1]	Dilution	Units	Date Analyzed	Analytical Method
Benzene	1	U	1	0.15	1	µg/l	6/6/2008	SW846 8021
Bromodichloromethane	1	U	1	0.50	1	µg/l	6/6/2008	SW846 8021
1,2 Dibromoethane	1	U	1	0.45	1	µg/l	6/6/2008	SW846 8021
Bromoform	10	U	10	0.89	1	µg/l	6/6/2008	SW846 8021
Carbon Tetrachoride	1	U	1	0.41	1	µg/l	6/6/2008	SW846 8021
Chlorobenzene	1	U	1	0.44	1	µg/l	6/6/2008	SW846 8021
Chloroethane	10	U	10	2.84	1	µg/l	6/6/2008	SW846 8021
Chloroform	1	U	1	0.43	1	µg/l	6/6/2008	SW846 8021
Dibromochloromethane	5	U	5	0.92	1	µg/l	6/6/2008	SW846 8021
1,2-Dichlorobenzene	1	U	1	0.37	1	µg/l	6/6/2008	SW846 8021
1,3-Dichlorobenzene	1	U	1	0.44	1	µg/l	6/6/2008	SW846 8021
1,4-Dichlorobenzene	1	U	1	0.22	1	µg/l	6/6/2008	SW846 8021
1,1-Dichloroethane	1	U	1	0.40	1	µg/l	6/6/2008	SW846 8021
1,2-Dichloroethane	1	U	1	0.38	1	µg/l	6/6/2008	SW846 8021
1,1-Dichloroethene	1	U	1	0.48	1	µg/l	6/6/2008	SW846 8021
Cis-1,2-Dichloroethene	1	U	1	0.45	1	µg/l	6/6/2008	SW846 8021
Trans-1,2-Dichloroethene	1	U	1	0.43	1	µg/l	6/6/2008	SW846 8021
1,2-Dichloropropane	1	U	1	0.41	1	µg/l	6/6/2008	SW846 8021
Cis-1,3-Dichloropropene	1	U	1	0.18	1	µg/l	6/6/2008	SW846 8021
Trans-1,3-Dichloropropene	1	U	1	0.36	1	µg/l	6/6/2008	SW846 8021
Ethyl benzene	1	U	1	0.38	1	µg/l	6/6/2008	SW846 8021
Methylene Chloride	1	U	1	0.46	1	µg/l	6/6/2008	SW846 8021
1,1,1,2-Tetrachloroethane	1	U	1	0.38	1	µg/l	6/6/2008	SW846 8021
1,1,2,2-Tetrachloroethane	1	U	1	0.22	1	µg/l	6/6/2008	SW846 8021
Tetrachloroethene	1	U	1	0.27	1	µg/l	6/6/2008	SW846 8021
Toluene	2	U	2	0.49	1	µg/l	6/6/2008	SW846 8021
1,1,1-Trichloroethane	1	U	1	0.35	1	µg/l	6/6/2008	SW846 8021
1,1,2-Trichloroethane	1	U	1	0.32	1	µg/l	6/6/2008	SW846 8021
Trichloroethene	1	U	1	0.36	1	µg/l	6/6/2008	SW846 8021
Vinyl Chloride	2	U	2	0.89	1	µg/l	6/6/2008	SW846 8021
Total Xylenes	3	U	3	0.41	1	µg/l	6/6/2008	SW846 8021
1,4-Bromofluorobenzene[2]	102%				% Recovery			

MATRIX ENVIRONMENTAL LLC

Mobile Lab Analytical Report
Mobile Lab ID: [illegible]OH
Matrix Type: Water

PO Box 364
Galena, OH
740-965-8271

Client:	RMT	Matrix Project Number:	056-OHPL-08
Project Name:	Roscoe	Collection Date:	6/6/2008
Project Location:	Roscoe, IL	Report Date:	6/6/2008

Sample ID: AA-28-35

Analyte	Result[4]	Qualifier	RL	MDL[1]	Dilution	Units	Date Analyzed	Analytical Method
Benzene	1	U	1	0.15	1	µg/l	6/6/2008	SW846 8021
Bromodichloromethane	1	U	1	0.50	1	µg/l	6/6/2008	SW846 8021
1,2 Dibromoethane	1	U	1	0.45	1	µg/l	6/6/2008	SW846 8021
Bromoform	10	U	10	0.89	1	µg/l	6/6/2008	SW846 8021
Carbon Tetrachoride	1	U	1	0.41	1	µg/l	6/6/2008	SW846 8021
Chlorobenzene	1	U	1	0.44	1	µg/l	6/6/2008	SW846 8021
Chloroethane	10	U	10	2.84	1	µg/l	6/6/2008	SW846 8021
Chloroform	1	U	1	0.43	1	µg/l	6/6/2008	SW846 8021
Dibromochloromethane	5	U	5	0.92	1	µg/l	6/6/2008	SW846 8021
1,2-Dichlorobenzene	1	U	1	0.37	1	µg/l	6/6/2008	SW846 8021
1,3-Dichlorobenzene	1	U	1	0.44	1	µg/l	6/6/2008	SW846 8021
1,4-Dichlorobenzene	1	U	1	0.22	1	µg/l	6/6/2008	SW846 8021
1,1-Dichloroethane	1	U	1	0.40	1	µg/l	6/6/2008	SW846 8021
1,2-Dichloroethane	1	U	1	0.38	1	µg/l	6/6/2008	SW846 8021
1,1-Dichloroethene	1	U	1	0.48	1	µg/l	6/6/2008	SW846 8021
Cis-1,2-Dichloroethene	11		1	0.45	1	µg/l	6/6/2008	SW846 8021
Trans-1,2-Dichloroethene	1	U	1	0.43	1	µg/l	6/6/2008	SW846 8021
1,2-Dichloropropane	1	U	1	0.41	1	µg/l	6/6/2008	SW846 8021
Cis-1,3-Dichloropropene	1	U	1	0.18	1	µg/l	6/6/2008	SW846 8021
Trans-1,3-Dichloropropene	1	U	1	0.36	1	µg/l	6/6/2008	SW846 8021
Ethyl benzene	1	U	1	0.38	1	µg/l	6/6/2008	SW846 8021
Methylene Chloride	1	U	1	0.46	1	µg/l	6/6/2008	SW846 8021
1,1,1,2-Tetrachloroethane	1	U	1	0.38	1	µg/l	6/6/2008	SW846 8021
1,1,2,2-Tetrachloroethane	1	U	1	0.22	1	µg/l	6/6/2008	SW846 8021
Tetrachloroethene	1	U	1	0.27	1	µg/l	6/6/2008	SW846 8021
Toluene	2	U	2	0.49	1	µg/l	6/6/2008	SW846 8021
1,1,1-Trichloroethane	1	U	1	0.35	1	µg/l	6/6/2008	SW846 8021
1,1,2-Trichloroethane	1	U	1	0.32	1	µg/l	6/6/2008	SW846 8021
Trichloroethene	4		1	0.36	1	µg/l	6/6/2008	SW846 8021
Vinyl Chloride	2	U	2	0.89	1	µg/l	6/6/2008	SW846 8021
Total Xylenes	3	U	3	0.41	1	µg/l	6/6/2008	SW846 8021
1,4-Bromofluorobenzene[2]	99%					% Recovery		

MATRIX ENVIRONMENTAL LLC

Mobile Lab Analytical Report
Mobile Lab ID: OH
Matrix Type: Water

PO Box 364
Galena, OH
740-965-8271

Client:	RMT	Matrix Project Number:	056-OHPL-08
Project Name:	Roscoe	Collection Date:	6/6/2008
Project Location:	Roscoe, IL	Report Date:	6/6/2008

Sample ID: AA-28-40

Analyte	Result[4]	Qualifier	RL	MDL[1]	Dilution	Units	Date Analyzed	Analytical Method
Benzene	1	U	1	0.15	1	µg/l	6/6/2008	SW846 8021
Bromodichloromethane	1	U	1	0.50	1	µg/l	6/6/2008	SW846 8021
1,2 Dibromoethane	1	U	1	0.45	1	µg/l	6/6/2008	SW846 8021
Bromoform	10	U	10	0.89	1	µg/l	6/6/2008	SW846 8021
Carbon Tetrachoride	1	U	1	0.41	1	µg/l	6/6/2008	SW846 8021
Chlorobenzene	1	U	1	0.44	1	µg/l	6/6/2008	SW846 8021
Chloroethane	10	U	10	2.84	1	µg/l	6/6/2008	SW846 8021
Chloroform	1	U	1	0.43	1	µg/l	6/6/2008	SW846 8021
Dibromochloromethane	5	U	5	0.92	1	µg/l	6/6/2008	SW846 8021
1,2-Dichlorobenzene	1	U	1	0.37	1	µg/l	6/6/2008	SW846 8021
1,3-Dichlorobenzene	1	U	1	0.44	1	µg/l	6/6/2008	SW846 8021
1,4-Dichlorobenzene	1	U	1	0.22	1	µg/l	6/6/2008	SW846 8021
1,1-Dichloroethane	1	U	1	0.40	1	µg/l	6/6/2008	SW846 8021
1,2-Dichloroethane	1	U	1	0.38	1	µg/l	6/6/2008	SW846 8021
1,1-Dichloroethene	1	U	1	0.48	1	µg/l	6/6/2008	SW846 8021
Cis-1,2-Dichloroethene	**20**		1	0.45	1	µg/l	6/6/2008	SW846 8021
Trans-1,2-Dichloroethene	1	U	1	0.43	1	µg/l	6/6/2008	SW846 8021
1,2-Dichloropropane	1	U	1	0.41	1	µg/l	6/6/2008	SW846 8021
Cis-1,3-Dichloropropene	1	U	1	0.18	1	µg/l	6/6/2008	SW846 8021
Trans-1,3-Dichloropropene	1	U	1	0.36	1	µg/l	6/6/2008	SW846 8021
Ethyl benzene	1	U	1	0.38	1	µg/l	6/6/2008	SW846 8021
Methylene Chloride	1	U	1	0.46	1	µg/l	6/6/2008	SW846 8021
1,1,1,2-Tetrachloroethane	1	U	1	0.38	1	µg/l	6/6/2008	SW846 8021
1,1,2,2-Tetrachloroethane	1	U	1	0.22	1	µg/l	6/6/2008	SW846 8021
Tetrachloroethene	1	U	1	0.27	1	µg/l	6/6/2008	SW846 8021
Toluene	2	U	2	0.49	1	µg/l	6/6/2008	SW846 8021
1,1,1-Trichloroethane	1	U	1	0.35	1	µg/l	6/6/2008	SW846 8021
1,1,2-Trichloroethane	1	U	1	0.32	1	µg/l	6/6/2008	SW846 8021
Trichloroethene	**6**		1	0.36	1	µg/l	6/6/2008	SW846 8021
Vinyl Chloride	2	U	2	0.89	1	µg/l	6/6/2008	SW846 8021
Total Xylenes	3	U	3	0.41	1	µg/l	6/6/2008	SW846 8021
1,4-Bromofluorobenzene[2]	109%					% Recovery		

MATRIX ENVIRONMENTAL LLC

Mobile Lab Analytical Report
Mobile Lab ID: OH
Matrix Type: Water

PO Box 364
Galena, OH
740-965-8271

Client:	RMT	Matrix Project Number:	056-OHPL-08
Project Name:	Roscoe	Collection Date:	6/6/2008
Project Location:	Roscoe, IL	Report Date:	6/6/2008

Sample ID: AA-28-45

Analyte	Result[4]	Qualifier	RL	MDL[1]	Dilution	Units	Date Analyzed	Analytical Method
Benzene	1	U	1	0.15	1	µg/l	6/6/2008	SW846 8021
Bromodichloromethane	1	U	1	0.50	1	µg/l	6/6/2008	SW846 8021
1,2 Dibromoethane	1	U	1	0.45	1	µg/l	6/6/2008	SW846 8021
Bromoform	10	U	10	0.89	1	µg/l	6/6/2008	SW846 8021
Carbon Tetrachoride	1	U	1	0.41	1	µg/l	6/6/2008	SW846 8021
Chlorobenzene	1	U	1	0.44	1	µg/l	6/6/2008	SW846 8021
Chloroethane	10	U	10	2.84	1	µg/l	6/6/2008	SW846 8021
Chloroform	1	U	1	0.43	1	µg/l	6/6/2008	SW846 8021
Dibromochloromethane	5	U	5	0.92	1	µg/l	6/6/2008	SW846 8021
1,2-Dichlorobenzene	1	U	1	0.37	1	µg/l	6/6/2008	SW846 8021
1,3-Dichlorobenzene	1	U	1	0.44	1	µg/l	6/6/2008	SW846 8021
1,4-Dichlorobenzene	1	U	1	0.22	1	µg/l	6/6/2008	SW846 8021
1,1-Dichloroethane	1	U	1	0.40	1	µg/l	6/6/2008	SW846 8021
1,2-Dichloroethane	1	U	1	0.38	1	µg/l	6/6/2008	SW846 8021
1,1-Dichloroethene	1	U	1	0.48	1	µg/l	6/6/2008	SW846 8021
Cis-1,2-Dichloroethene	**6**		1	0.45	1	µg/l	6/6/2008	SW846 8021
Trans-1,2-Dichloroethene	1	U	1	0.43	1	µg/l	6/6/2008	SW846 8021
1,2-Dichloropropane	1	U	1	0.41	1	µg/l	6/6/2008	SW846 8021
Cis-1,3-Dichloropropene	1	U	1	0.18	1	µg/l	6/6/2008	SW846 8021
Trans-1,3-Dichloropropene	1	U	1	0.36	1	µg/l	6/6/2008	SW846 8021
Ethyl benzene	1	U	1	0.38	1	µg/l	6/6/2008	SW846 8021
Methylene Chloride	1	U	1	0.46	1	µg/l	6/6/2008	SW846 8021
1,1,1,2-Tetrachloroethane	1	U	1	0.38	1	µg/l	6/6/2008	SW846 8021
1,1,2,2-Tetrachloroethane	1	U	1	0.22	1	µg/l	6/6/2008	SW846 8021
Tetrachloroethene	1	U	1	0.27	1	µg/l	6/6/2008	SW846 8021
Toluene	2	U	2	0.49	1	µg/l	6/6/2008	SW846 8021
1,1,1-Trichloroethane	1	U	1	0.35	1	µg/l	6/6/2008	SW846 8021
1,1,2-Trichloroethane	1	U	1	0.32	1	µg/l	6/6/2008	SW846 8021
Trichloroethene	**8**		1	0.36	1	µg/l	6/6/2008	SW846 8021
Vinyl Chloride	2	U	2	0.89	1	µg/l	6/6/2008	SW846 8021
Total Xylenes	3	U	3	0.41	1	µg/l	6/6/2008	SW846 8021
1,4-Bromofluorobenzene[2]	105%					% Recovery		

MATRIX ENVIRONMENTAL LLC

Mobile Lab Analytical Report
Mobile Lab ID: OH
Matrix Type: Water

PO Box 364
Galena, OH
740-965-8271

Client:	RMT	Matrix Project Number:	056-OHPL-08
Project Name:	Roscoe	Collection Date:	6/6/2008
Project Location:	Roscoe, IL	Report Date:	6/6/2008

Sample ID: AA-28-50

Analyte	Result[4]	Qualifier	RL	MDL[1]	Dilution	Units	Date Analyzed	Analytical Method
Benzene	1	U	1	0.15	1	µg/l	6/6/2008	SW846 8021
Bromodichloromethane	1	U	1	0.50	1	µg/l	6/6/2008	SW846 8021
1,2 Dibromoethane	1	U	1	0.45	1	µg/l	6/6/2008	SW846 8021
Bromoform	10	U	10	0.89	1	µg/l	6/6/2008	SW846 8021
Carbon Tetrachoride	1	U	1	0.41	1	µg/l	6/6/2008	SW846 8021
Chlorobenzene	1	U	1	0.44	1	µg/l	6/6/2008	SW846 8021
Chloroethane	10	U	10	2.84	1	µg/l	6/6/2008	SW846 8021
Chloroform	1	U	1	0.43	1	µg/l	6/6/2008	SW846 8021
Dibromochloromethane	5	U	5	0.92	1	µg/l	6/6/2008	SW846 8021
1,2-Dichlorobenzene	1	U	1	0.37	1	µg/l	6/6/2008	SW846 8021
1,3-Dichlorobenzene	1	U	1	0.44	1	µg/l	6/6/2008	SW846 8021
1,4-Dichlorobenzene	1	U	1	0.22	1	µg/l	6/6/2008	SW846 8021
1,1-Dichloroethane	1	U	1	0.40	1	µg/l	6/6/2008	SW846 8021
1,2-Dichloroethane	1	U	1	0.38	1	µg/l	6/6/2008	SW846 8021
1,1-Dichloroethene	1	U	1	0.48	1	µg/l	6/6/2008	SW846 8021
Cis-1,2-Dichloroethene	2		1	0.45	1	µg/l	6/6/2008	SW846 8021
Trans-1,2-Dichloroethene	1	U	1	0.43	1	µg/l	6/6/2008	SW846 8021
1,2-Dichloropropane	1	U	1	0.41	1	µg/l	6/6/2008	SW846 8021
Cis-1,3-Dichloropropene	1	U	1	0.18	1	µg/l	6/6/2008	SW846 8021
Trans-1,3-Dichloropropene	1	U	1	0.36	1	µg/l	6/6/2008	SW846 8021
Ethyl benzene	1	U	1	0.38	1	µg/l	6/6/2008	SW846 8021
Methylene Chloride	1	U	1	0.46	1	µg/l	6/6/2008	SW846 8021
1,1,1,2-Tetrachloroethane	1	U	1	0.38	1	µg/l	6/6/2008	SW846 8021
1,1,2,2-Tetrachloroethane	1	U	1	0.22	1	µg/l	6/6/2008	SW846 8021
Tetrachloroethene	1	U	1	0.27	1	µg/l	6/6/2008	SW846 8021
Toluene	2	U	2	0.49	1	µg/l	6/6/2008	SW846 8021
1,1,1-Trichloroethane	1	U	1	0.35	1	µg/l	6/6/2008	SW846 8021
1,1,2-Trichloroethane	1	U	1	0.32	1	µg/l	6/6/2008	SW846 8021
Trichloroethene	3		1	0.36	1	µg/l	6/6/2008	SW846 8021
Vinyl Chloride	2	U	2	0.89	1	µg/l	6/6/2008	SW846 8021
Total Xylenes	3	U	3	0.41	1	µg/l	6/6/2008	SW846 8021
1,4-Bromofluorobenzene[2]	109%					% Recovery		

MATRIX ENVIRONMENTAL LLC

Mobile Lab Analytical Report
Mobile Lab ID: [illegible]OH
Matrix Type: Water

PO Box 364
Galena, OH
740-965-8271

Client:	RMT	Matrix Project Number:	056-OHPL-08
Project Name:	Roscoe	Collection Date:	6/7/2008
Project Location:	Roscoe, IL	Report Date:	6/7/2008

Sample ID: AA-29-30

Analyte	Result[4]	Qualifier	RL	MDL[1]	Dilution	Units	Date Analyzed	Analytical Method
Benzene	1	U	1	0.15	1	µg/l	6/7/2008	SW846 8021
Bromodichloromethane	1	U	1	0.50	1	µg/l	6/7/2008	SW846 8021
1,2 Dibromoethane	1	U	1	0.45	1	µg/l	6/7/2008	SW846 8021
Bromoform	10	U	10	0.89	1	µg/l	6/7/2008	SW846 8021
Carbon Tetrachoride	1	U	1	0.41	1	µg/l	6/7/2008	SW846 8021
Chlorobenzene	1	U	1	0.44	1	µg/l	6/7/2008	SW846 8021
Chloroethane	10	U	10	2.84	1	µg/l	6/7/2008	SW846 8021
Chloroform	1	U	1	0.43	1	µg/l	6/7/2008	SW846 8021
Dibromochloromethane	5	U	5	0.92	1	µg/l	6/7/2008	SW846 8021
1,2-Dichlorobenzene	1	U	1	0.37	1	µg/l	6/7/2008	SW846 8021
1,3-Dichlorobenzene	1	U	1	0.44	1	µg/l	6/7/2008	SW846 8021
1,4-Dichlorobenzene	1	U	1	0.22	1	µg/l	6/7/2008	SW846 8021
1,1-Dichloroethane	**2**		1	0.40	1	µg/l	6/7/2008	SW846 8021
1,2-Dichloroethane	1	U	1	0.38	1	µg/l	6/7/2008	SW846 8021
1,1-Dichloroethene	1	U	1	0.48	1	µg/l	6/7/2008	SW846 8021
Cis-1,2-Dichloroethene	**55**		1	0.45	1	µg/l	6/7/2008	SW846 8021
Trans-1,2-Dichloroethene	1	U	1	0.43	1	µg/l	6/7/2008	SW846 8021
1,2-Dichloropropane	1	U	1	0.41	1	µg/l	6/7/2008	SW846 8021
Cis-1,3-Dichloropropene	1	U	1	0.18	1	µg/l	6/7/2008	SW846 8021
Trans-1,3-Dichloropropene	1	U	1	0.36	1	µg/l	6/7/2008	SW846 8021
Ethyl benzene	1	U	1	0.38	1	µg/l	6/7/2008	SW846 8021
Methylene Chloride	1	U	1	0.46	1	µg/l	6/7/2008	SW846 8021
1,1,1,2-Tetrachloroethane	1	U	1	0.38	1	µg/l	6/7/2008	SW846 8021
1,1,2,2-Tetrachloroethane	1	U	1	0.22	1	µg/l	6/7/2008	SW846 8021
Tetrachloroethene	1	U	1	0.27	1	µg/l	6/7/2008	SW846 8021
Toluene	2	U	2	0.49	1	µg/l	6/7/2008	SW846 8021
1,1,1-Trichloroethane	1	U	1	0.35	1	µg/l	6/7/2008	SW846 8021
1,1,2-Trichloroethane	1	U	1	0.32	1	µg/l	6/7/2008	SW846 8021
Trichloroethene	**79**		1	0.36	1	µg/l	6/7/2008	SW846 8021
Vinyl Chloride	2	U	2	0.89	1	µg/l	6/7/2008	SW846 8021
Total Xylenes	3	U	3	0.41	1	µg/l	6/7/2008	SW846 8021
1,4-Bromofluorobenzene[2]	101%					% Recovery		

MATRIX ENVIRONMENTAL LLC

Mobile Lab Analytical Report
Mobile Lab ID: [illegible]
Matrix Type: Water

PO Box 364
Galena, OH
740-965-8271

Client:	RMT	Matrix Project Number:	056-OHPL-08
Project Name:	Roscoe	Collection Date:	6/7/2008
Project Location:	Roscoe, IL	Report Date:	6/7/2008

Sample ID: AA-29-35

Analyte	Result[1]	Qualifier	RL	MDL[1]	Dilution	Units	Date Analyzed	Analytical Method
Benzene	1	U	1	0.15	1	µg/l	6/7/2008	SW846 8021
Bromodichloromethane	1	U	1	0.50	1	µg/l	6/7/2008	SW846 8021
1,2 Dibromoethane	1	U	1	0.45	1	µg/l	6/7/2008	SW846 8021
Bromoform	10	U	10	0.89	1	µg/l	6/7/2008	SW846 8021
Carbon Tetrachoride	1	U	1	0.41	1	µg/l	6/7/2008	SW846 8021
Chlorobenzene	1	U	1	0.44	1	µg/l	6/7/2008	SW846 8021
Chloroethane	10	U	10	2.84	1	µg/l	6/7/2008	SW846 8021
Chloroform	1	U	1	0.43	1	µg/l	6/7/2008	SW846 8021
Dibromochloromethane	5	U	5	0.92	1	µg/l	6/7/2008	SW846 8021
1,2-Dichlorobenzene	1	U	1	0.37	1	µg/l	6/7/2008	SW846 8021
1,3-Dichlorobenzene	1	U	1	0.44	1	µg/l	6/7/2008	SW846 8021
1,4-Dichlorobenzene	1	U	1	0.22	1	µg/l	6/7/2008	SW846 8021
1,1-Dichloroethane	**2**		1	0.40	1	µg/l	6/7/2008	SW846 8021
1,2-Dichloroethane	1	U	1	0.38	1	µg/l	6/7/2008	SW846 8021
1,1-Dichloroethene	1	U	1	0.48	1	µg/l	6/7/2008	SW846 8021
Cis-1,2-Dichloroethene	1	U	1	0.45	1	µg/l	6/7/2008	SW846 8021
Trans-1,2-Dichloroethene	1	U	1	0.43	1	µg/l	6/7/2008	SW846 8021
1,2-Dichloropropane	1	U	1	0.41	1	µg/l	6/7/2008	SW846 8021
Cis-1,3-Dichloropropene	**120**		20	0.18	20	µg/l	6/7/2008	SW846 8021
Trans-1,3-Dichloropropene	1	U	1	0.36	1	µg/l	6/7/2008	SW846 8021
Ethyl benzene	1	U	1	0.38	1	µg/l	6/7/2008	SW846 8021
Methylene Chloride	1	U	1	0.46	1	µg/l	6/7/2008	SW846 8021
1,1,1,2-Tetrachloroethane	1	U	1	0.38	1	µg/l	6/7/2008	SW846 8021
1,1,2,2-Tetrachloroethane	1	U	1	0.22	1	µg/l	6/7/2008	SW846 8021
Tetrachloroethene	1	U	1	0.27	1	µg/l	6/7/2008	SW846 8021
Toluene	2	U	2	0.49	1	µg/l	6/7/2008	SW846 8021
1,1,1-Trichloroethane	1	U	1	0.35	1	µg/l	6/7/2008	SW846 8021
1,1,2-Trichloroethane	1	U	1	0.32	1	µg/l	6/7/2008	SW846 8021
Trichloroethene	**140**		20	0.36	20	µg/l	6/7/2008	SW846 8021
Vinyl Chloride	2	U	2	0.89	1	µg/l	6/7/2008	SW846 8021
Total Xylenes	3	U	3	0.41	1	µg/l	6/7/2008	SW846 8021
1,4-Bromofluorobenzene[2]	110%					% Recovery		

MATRIX ENVIRONMENTAL LLC

Mobile Lab Analytical Report
Mobile Lab ID: [illegible]OH
Matrix Type: Water

PO Box 364
Galena, OH
740-965-8271

Client:	RMT	Matrix Project Number:	056-OHPL-08
Project Name:	Roscoe	Collection Date:	6/7/2008
Project Location:	Roscoe, IL	Report Date:	6/7/2008

Sample ID: AA-29-40

Analyte	Result[4]	Qualifier	RL	MDL[1]	Dilution	Units	Date Analyzed	Analytical Method
Benzene	5	U	5	0.15	5	µg/l	6/7/2008	SW846 8021
Bromodichloromethane	5	U	5	0.50	5	µg/l	6/7/2008	SW846 8021
1,2 Dibromoethane	5	U	5	0.45	5	µg/l	6/7/2008	SW846 8021
Bromoform	50	U	50	0.89	5	µg/l	6/7/2008	SW846 8021
Carbon Tetrachoride	5	U	5	0.41	5	µg/l	6/7/2008	SW846 8021
Chlorobenzene	5	U	5	0.44	5	µg/l	6/7/2008	SW846 8021
Chloroethane	50	U	50	2.84	5	µg/l	6/7/2008	SW846 8021
Chloroform	5	U	5	0.43	5	µg/l	6/7/2008	SW846 8021
Dibromochloromethane	25	U	25	0.92	5	µg/l	6/7/2008	SW846 8021
1,2-Dichlorobenzene	5	U	5	0.37	5	µg/l	6/7/2008	SW846 8021
1,3-Dichlorobenzene	5	U	5	0.44	5	µg/l	6/7/2008	SW846 8021
1,4-Dichlorobenzene	5	U	5	0.22	5	µg/l	6/7/2008	SW846 8021
1,1-Dichloroethane	5	U	5	0.40	5	µg/l	6/7/2008	SW846 8021
1,2-Dichloroethane	5	U	5	0.38	5	µg/l	6/7/2008	SW846 8021
1,1-Dichloroethene	5	U	5	0.48	5	µg/l	6/7/2008	SW846 8021
Cis-1,2-Dichloroethene	**568**		20	0.45	20	µg/l	6/7/2008	SW846 8021
Trans-1,2-Dichloroethene	5	U	5	0.43	5	µg/l	6/7/2008	SW846 8021
1,2-Dichloropropane	5	U	5	0.41	5	µg/l	6/7/2008	SW846 8021
Cis-1,3-Dichloropropene	5	U	5	0.18	5	µg/l	6/7/2008	SW846 8021
Trans-1,3-Dichloropropene	5	U	5	0.36	5	µg/l	6/7/2008	SW846 8021
Ethyl benzene	5	U	5	0.38	5	µg/l	6/7/2008	SW846 8021
Methylene Chloride	5	U	5	0.46	5	µg/l	6/7/2008	SW846 8021
1,1,1,2-Tetrachloroethane	5	U	5	0.38	5	µg/l	6/7/2008	SW846 8021
1,1,2,2-Tetrachloroethane	5	U	5	0.22	5	µg/l	6/7/2008	SW846 8021
Tetrachloroethene	5	U	5	0.27	5	µg/l	6/7/2008	SW846 8021
Toluene	10	U	10	0.49	5	µg/l	6/7/2008	SW846 8021
1,1,1-Trichloroethane	5	U	5	0.35	5	µg/l	6/7/2008	SW846 8021
1,1,2-Trichloroethane	5	U	5	0.32	5	µg/l	6/7/2008	SW846 8021
Trichloroethene	**758**		20	0.36	20	µg/l	6/7/2008	SW846 8021
Vinyl Chloride	10	U	10	0.89	5	µg/l	6/7/2008	SW846 8021
Total Xylenes	15	U	15	0.41	5	µg/l	6/7/2008	SW846 8021
1,4-Bromofluorobenzene[2]	102%					% Recovery		

MATRIX ENVIRONMENTAL LLC

Mobile Lab Analytical Report
Mobile Lab ID: OH
Matrix Type: Water

PO Box 364
Galena, OH
740-965-8271

Client:	RMT	Matrix Project Number:	056-OHPL-08
Project Name:	Roscoe	Collection Date:	6/7/2008
Project Location:	Roscoe, IL	Report Date:	6/7/2008

Sample ID: AA-29-45

Analyte	Result[4]	Qualifier	RL	MDL[1]	Dilution	Units	Date Analyzed	Analytical Method
Benzene	20	U	20	0.15	20	µg/l	6/7/2008	SW846 8021
Bromodichloromethane	20	U	20	0.50	20	µg/l	6/7/2008	SW846 8021
1,2 Dibromoethane	20	U	20	0.45	20	µg/l	6/7/2008	SW846 8021
Bromoform	200	U	200	0.89	20	µg/l	6/7/2008	SW846 8021
Carbon Tetrachoride	20	U	20	0.41	20	µg/l	6/7/2008	SW846 8021
Chlorobenzene	20	U	20	0.44	20	µg/l	6/7/2008	SW846 8021
Chloroethane	200	U	200	2.84	20	µg/l	6/7/2008	SW846 8021
Chloroform	20	U	20	0.43	20	µg/l	6/7/2008	SW846 8021
Dibromochloromethane	100	U	100	0.92	20	µg/l	6/7/2008	SW846 8021
1,2-Dichlorobenzene	20	U	20	0.37	20	µg/l	6/7/2008	SW846 8021
1,3-Dichlorobenzene	20	U	20	0.44	20	µg/l	6/7/2008	SW846 8021
1,4-Dichlorobenzene	20	U	20	0.22	20	µg/l	6/7/2008	SW846 8021
1,1-Dichloroethane	20	U	20	0.40	20	µg/l	6/7/2008	SW846 8021
1,2-Dichloroethane	20	U	20	0.38	20	µg/l	6/7/2008	SW846 8021
1,1-Dichloroethene	20	U	20	0.48	20	µg/l	6/7/2008	SW846 8021
Cis-1,2-Dichloroethene	**334**		20	0.45	20	µg/l	6/7/2008	SW846 8021
Trans-1,2-Dichloroethene	20	U	20	0.43	20	µg/l	6/7/2008	SW846 8021
1,2-Dichloropropane	20	U	20	0.41	20	µg/l	6/7/2008	SW846 8021
Cis-1,3-Dichloropropene	20	U	20	0.18	20	µg/l	6/7/2008	SW846 8021
Trans-1,3-Dichloropropene	20	U	20	0.36	20	µg/l	6/7/2008	SW846 8021
Ethyl benzene	20	U	20	0.38	20	µg/l	6/7/2008	SW846 8021
Methylene Chloride	20	U	20	0.46	20	µg/l	6/7/2008	SW846 8021
1,1,1,2-Tetrachloroethane	20	U	20	0.38	20	µg/l	6/7/2008	SW846 8021
1,1,2,2-Tetrachloroethane	20	U	20	0.22	20	µg/l	6/7/2008	SW846 8021
Tetrachloroethene	20	U	20	0.27	20	µg/l	6/7/2008	SW846 8021
Toluene	40	U	40	0.49	20	µg/l	6/7/2008	SW846 8021
1,1,1-Trichloroethane	20	U	20	0.35	20	µg/l	6/7/2008	SW846 8021
1,1,2-Trichloroethane	20	U	20	0.32	20	µg/l	6/7/2008	SW846 8021
Trichloroethene	**308**		20	0.36	20	µg/l	6/7/2008	SW846 8021
Vinyl Chloride	40	U	40	0.89	20	µg/l	6/7/2008	SW846 8021
Total Xylenes	60	U	60	0.41	20	µg/l	6/7/2008	SW846 8021
1,4-Bromofluorobenzene[2]	108%					% Recovery		

MATRIX ENVIRONMENTAL LLC

Mobile Lab Analytical Report
Mobile Lab ID: OH
Matrix Type: Water

PO Box 364
Galena, OH
740-965-8271

Client:	RMT	Matrix Project Number:	056-OHPL-08
Project Name:	Roscoe	Collection Date:	6/7/2008
Project Location:	Roscoe, IL	Report Date:	6/7/2008

Sample ID: AA-29-50

Analyte	Result[4]	Qualifier	RL	MDL[1]	Dilution	Units	Date Analyzed	Analytical Method
Benzene	20	U	20	0.15	20	µg/l	6/7/2008	SW846 8021
Bromodichloromethane	20	U	20	0.50	20	µg/l	6/7/2008	SW846 8021
1,2 Dibromoethane	20	U	20	0.45	20	µg/l	6/7/2008	SW846 8021
Bromoform	200	U	200	0.89	20	µg/l	6/7/2008	SW846 8021
Carbon Tetrachoride	20	U	20	0.41	20	µg/l	6/7/2008	SW846 8021
Chlorobenzene	20	U	20	0.44	20	µg/l	6/7/2008	SW846 8021
Chloroethane	200	U	200	2.84	20	µg/l	6/7/2008	SW846 8021
Chloroform	20	U	20	0.43	20	µg/l	6/7/2008	SW846 8021
Dibromochloromethane	100	U	100	0.92	20	µg/l	6/7/2008	SW846 8021
1,2-Dichlorobenzene	20	U	20	0.37	20	µg/l	6/7/2008	SW846 8021
1,3-Dichlorobenzene	20	U	20	0.44	20	µg/l	6/7/2008	SW846 8021
1,4-Dichlorobenzene	20	U	20	0.22	20	µg/l	6/7/2008	SW846 8021
1,1-Dichloroethane	20	U	20	0.40	20	µg/l	6/7/2008	SW846 8021
1,2-Dichloroethane	20	U	20	0.38	20	µg/l	6/7/2008	SW846 8021
1,1-Dichloroethene	20	U	20	0.48	20	µg/l	6/7/2008	SW846 8021
Cis-1,2-Dichloroethene	**252**		20	0.45	20	µg/l	6/7/2008	SW846 8021
Trans-1,2-Dichloroethene	20	U	20	0.43	20	µg/l	6/7/2008	SW846 8021
1,2-Dichloropropane	20	U	20	0.41	20	µg/l	6/7/2008	SW846 8021
Cis-1,3-Dichloropropene	20	U	20	0.18	20	µg/l	6/7/2008	SW846 8021
Trans-1,3-Dichloropropene	20	U	20	0.36	20	µg/l	6/7/2008	SW846 8021
Ethyl benzene	20	U	20	0.38	20	µg/l	6/7/2008	SW846 8021
Methylene Chloride	20	U	20	0.46	20	µg/l	6/7/2008	SW846 8021
1,1,1,2-Tetrachloroethane	20	U	20	0.38	20	µg/l	6/7/2008	SW846 8021
1,1,2,2-Tetrachloroethane	20	U	20	0.22	20	µg/l	6/7/2008	SW846 8021
Tetrachloroethene	20	U	20	0.27	20	µg/l	6/7/2008	SW846 8021
Toluene	40	U	40	0.49	20	µg/l	6/7/2008	SW846 8021
1,1,1-Trichloroethane	20	U	20	0.35	20	µg/l	6/7/2008	SW846 8021
1,1,2-Trichloroethane	20	U	20	0.32	20	µg/l	6/7/2008	SW846 8021
Trichloroethene	**366**		20	0.36	20	µg/l	6/7/2008	SW846 8021
Vinyl Chloride	40	U	40	0.89	20	µg/l	6/7/2008	SW846 8021
Total Xylenes	60	U	60	0.41	20	µg/l	6/7/2008	SW846 8021
1,4-Bromofluorobenzene[2]	93%					% Recovery		

MATRIX ENVIRONMENTAL LLC

Mobile Lab Analytical Report
Mobile Lab ID: OH
Matrix Type: Water

PO Box 364
Galena, OH
740-965-8271

Client:	RMT	Matrix Project Number:	056-OHPL-08
Project Name:	Roscoe	Collection Date:	6/7/2008
Project Location:	Roscoe, IL	Report Date:	6/7/2008

Sample ID: AA-30-30

Analyte	Result[4]	Qualifier	RL	MDL[1]	Dilution	Units	Date Analyzed	Analytical Method
Benzene	20	U	20	0.15	20	µg/l	6/7/2008	SW846 8021
Bromodichloromethane	20	U	20	0.50	20	µg/l	6/7/2008	SW846 8021
1,2 Dibromoethane	20	U	20	0.45	20	µg/l	6/7/2008	SW846 8021
Bromoform	200	U	200	0.89	20	µg/l	6/7/2008	SW846 8021
Carbon Tetrachoride	20	U	20	0.41	20	µg/l	6/7/2008	SW846 8021
Chlorobenzene	20	U	20	0.44	20	µg/l	6/7/2008	SW846 8021
Chloroethane	200	U	200	2.84	20	µg/l	6/7/2008	SW846 8021
Chloroform	20	U	20	0.43	20	µg/l	6/7/2008	SW846 8021
Dibromochloromethane	100	U	100	0.92	20	µg/l	6/7/2008	SW846 8021
1,2-Dichlorobenzene	20	U	20	0.37	20	µg/l	6/7/2008	SW846 8021
1,3-Dichlorobenzene	20	U	20	0.44	20	µg/l	6/7/2008	SW846 8021
1,4-Dichlorobenzene	20	U	20	0.22	20	µg/l	6/7/2008	SW846 8021
1,1-Dichloroethane	20	U	20	0.40	20	µg/l	6/7/2008	SW846 8021
1,2-Dichloroethane	20	U	20	0.38	20	µg/l	6/7/2008	SW846 8021
1,1-Dichloroethene	20	U	20	0.48	20	µg/l	6/7/2008	SW846 8021
Cis-1,2-Dichloroethene	**40**		20	0.45	20	µg/l	6/7/2008	SW846 8021
Trans-1,2-Dichloroethene	20	U	20	0.43	20	µg/l	6/7/2008	SW846 8021
1,2-Dichloropropane	20	U	20	0.41	20	µg/l	6/7/2008	SW846 8021
Cis-1,3-Dichloropropene	20	U	20	0.18	20	µg/l	6/7/2008	SW846 8021
Trans-1,3-Dichloropropene	20	U	20	0.36	20	µg/l	6/7/2008	SW846 8021
Ethyl benzene	20	U	20	0.38	20	µg/l	6/7/2008	SW846 8021
Methylene Chloride	20	U	20	0.46	20	µg/l	6/7/2008	SW846 8021
1,1,1,2-Tetrachloroethane	20	U	20	0.38	20	µg/l	6/7/2008	SW846 8021
1,1,2,2-Tetrachloroethane	20	U	20	0.22	20	µg/l	6/7/2008	SW846 8021
Tetrachloroethene	20	U	20	0.27	20	µg/l	6/7/2008	SW846 8021
Toluene	40	U	40	0.49	20	µg/l	6/7/2008	SW846 8021
1,1,1-Trichloroethane	20	U	20	0.35	20	µg/l	6/7/2008	SW846 8021
1,1,2-Trichloroethane	20	U	20	0.32	20	µg/l	6/7/2008	SW846 8021
Trichloroethene	**64**		20	0.36	20	µg/l	6/7/2008	SW846 8021
Vinyl Chloride	40	U	40	0.89	20	µg/l	6/7/2008	SW846 8021
Total Xylenes	60	U	60	0.41	20	µg/l	6/7/2008	SW846 8021
1,4-Bromofluorobenzene[2]	94%					% Recovery		

MATRIX ENVIRONMENTAL LLC

Mobile Lab Analytical Report
Mobile Lab ID: [illegible]OH
Matrix Type: Water

PO Box 364
Galena, OH
740-965-8271

Client:	RMT	Matrix Project Number:	056-OHPL-08
Project Name:	Roscoe	Collection Date:	6/7/2008
Project Location:	Roscoe, IL	Report Date:	6/7/2008

Sample ID: AA-30-40

Analyte	Result[4]	Qualifier	RL	MDL[1]	Dilution	Units	Date Analyzed	Analytical Method
Benzene	20	U	20	0.15	20	µg/l	6/7/2008	SW846 8021
Bromodichloromethane	20	U	20	0.50	20	µg/l	6/7/2008	SW846 8021
1,2 Dibromoethane	20	U	20	0.45	20	µg/l	6/7/2008	SW846 8021
Bromoform	200	U	200	0.89	20	µg/l	6/7/2008	SW846 8021
Carbon Tetrachoride	20	U	20	0.41	20	µg/l	6/7/2008	SW846 8021
Chlorobenzene	20	U	20	0.44	20	µg/l	6/7/2008	SW846 8021
Chloroethane	200	U	200	2.84	20	µg/l	6/7/2008	SW846 8021
Chloroform	20	U	20	0.43	20	µg/l	6/7/2008	SW846 8021
Dibromochloromethane	100	U	100	0.92	20	µg/l	6/7/2008	SW846 8021
1,2-Dichlorobenzene	20	U	20	0.37	20	µg/l	6/7/2008	SW846 8021
1,3-Dichlorobenzene	20	U	20	0.44	20	µg/l	6/7/2008	SW846 8021
1,4-Dichlorobenzene	20	U	20	0.22	20	µg/l	6/7/2008	SW846 8021
1,1-Dichloroethane	20	U	20	0.40	20	µg/l	6/7/2008	SW846 8021
1,2-Dichloroethane	20	U	20	0.38	20	µg/l	6/7/2008	SW846 8021
1,1-Dichloroethene	20	U	20	0.48	20	µg/l	6/7/2008	SW846 8021
Cis-1,2-Dichloroethene	**372**		20	0.45	20	µg/l	6/7/2008	SW846 8021
Trans-1,2-Dichloroethene	20	U	20	0.43	20	µg/l	6/7/2008	SW846 8021
1,2-Dichloropropane	20	U	20	0.41	20	µg/l	6/7/2008	SW846 8021
Cis-1,3-Dichloropropene	20	U	20	0.18	20	µg/l	6/7/2008	SW846 8021
Trans-1,3-Dichloropropene	20	U	20	0.36	20	µg/l	6/7/2008	SW846 8021
Ethyl benzene	20	U	20	0.38	20	µg/l	6/7/2008	SW846 8021
Methylene Chloride	20	U	20	0.46	20	µg/l	6/7/2008	SW846 8021
1,1,1,2-Tetrachloroethane	20	U	20	0.38	20	µg/l	6/7/2008	SW846 8021
1,1,2,2-Tetrachloroethane	20	U	20	0.22	20	µg/l	6/7/2008	SW846 8021
Tetrachloroethene	20	U	20	0.27	20	µg/l	6/7/2008	SW846 8021
Toluene	40	U	40	0.49	20	µg/l	6/7/2008	SW846 8021
1,1,1-Trichloroethane	20	U	20	0.35	20	µg/l	6/7/2008	SW846 8021
1,1,2-Trichloroethane	20	U	20	0.32	20	µg/l	6/7/2008	SW846 8021
Trichloroethene	**334**		20	0.36	20	µg/l	6/7/2008	SW846 8021
Vinyl Chloride	40	U	40	0.89	20	µg/l	6/7/2008	SW846 8021
Total Xylenes	60	U	60	0.41	20	µg/l	6/7/2008	SW846 8021
1,4-Bromofluorobenzene[2]	107%					% Recovery		

MATRIX ENVIRONMENTAL LLC

Mobile Lab Analytical Report
Mobile Lab ID: OH
Matrix Type: Water

PO Box 364
Galena, OH
740-965-8271

Client:	RMT	Matrix Project Number:	056-OHPL-08
Project Name:	Roscoe	Collection Date:	6/7/2008
Project Location:	Roscoe, IL	Report Date:	6/7/2008

Sample ID: AA-30-45

Analyte	Result[4]	Qualifier	RL	MDL[1]	Dilution	Units	Date Analyzed	Analytical Method
Benzene	20	U	20	0.15	20	µg/l	6/7/2008	SW846 8021
Bromodichloromethane	20	U	20	0.50	20	µg/l	6/7/2008	SW846 8021
1,2 Dibromoethane	20	U	20	0.45	20	µg/l	6/7/2008	SW846 8021
Bromoform	200	U	200	0.89	20	µg/l	6/7/2008	SW846 8021
Carbon Tetrachoride	20	U	20	0.41	20	µg/l	6/7/2008	SW846 8021
Chlorobenzene	20	U	20	0.44	20	µg/l	6/7/2008	SW846 8021
Chloroethane	200	U	200	2.84	20	µg/l	6/7/2008	SW846 8021
Chloroform	20	U	20	0.43	20	µg/l	6/7/2008	SW846 8021
Dibromochloromethane	100	U	100	0.92	20	µg/l	6/7/2008	SW846 8021
1,2-Dichlorobenzene	20	U	20	0.37	20	µg/l	6/7/2008	SW846 8021
1,3-Dichlorobenzene	20	U	20	0.44	20	µg/l	6/7/2008	SW846 8021
1,4-Dichlorobenzene	20	U	20	0.22	20	µg/l	6/7/2008	SW846 8021
1,1-Dichloroethane	20	U	20	0.40	20	µg/l	6/7/2008	SW846 8021
1,2-Dichloroethane	20	U	20	0.38	20	µg/l	6/7/2008	SW846 8021
1,1-Dichloroethene	20	U	20	0.48	20	µg/l	6/7/2008	SW846 8021
Cis-1,2-Dichloroethene	**390**		20	0.45	20	µg/l	6/7/2008	SW846 8021
Trans-1,2-Dichloroethene	20	U	20	0.43	20	µg/l	6/7/2008	SW846 8021
1,2-Dichloropropane	20	U	20	0.41	20	µg/l	6/7/2008	SW846 8021
Cis-1,3-Dichloropropene	20	U	20	0.18	20	µg/l	6/7/2008	SW846 8021
Trans-1,3-Dichloropropene	20	U	20	0.36	20	µg/l	6/7/2008	SW846 8021
Ethyl benzene	20	U	20	0.38	20	µg/l	6/7/2008	SW846 8021
Methylene Chloride	20	U	20	0.46	20	µg/l	6/7/2008	SW846 8021
1,1,1,2-Tetrachloroethane	20	U	20	0.38	20	µg/l	6/7/2008	SW846 8021
1,1,2,2-Tetrachloroethane	20	U	20	0.22	20	µg/l	6/7/2008	SW846 8021
Tetrachloroethene	20	U	20	0.27	20	µg/l	6/7/2008	SW846 8021
Toluene	40	U	40	0.49	20	µg/l	6/7/2008	SW846 8021
1,1,1-Trichloroethane	20	U	20	0.35	20	µg/l	6/7/2008	SW846 8021
1,1,2-Trichloroethane	20	U	20	0.32	20	µg/l	6/7/2008	SW846 8021
Trichloroethene	**540**		20	0.36	20	µg/l	6/7/2008	SW846 8021
Vinyl Chloride	40	U	40	0.89	20	µg/l	6/7/2008	SW846 8021
Total Xylenes	60	U	60	0.41	20	µg/l	6/7/2008	SW846 8021
1,4-Bromofluorobenzene[2]	104%					% Recovery		

MATRIX ENVIRONMENTAL LLC

Mobile Lab Analytical Report
Mobile Lab ID: [illegible]OH
Matrix Type: Water

PO Box 364
Galena, OH
740-965-8271

Client:	RMT	Matrix Project Number:	056-OHPL-08
Project Name:	Roscoe	Collection Date:	6/7/2008
Project Location:	Roscoe, IL	Report Date:	6/7/2008

Sample ID: AA-30-50

Analyte	Result[4]	Qualifier	RL	MDL[1]	Dilution	Units	Date Analyzed	Analytical Method
Benzene	1	U	1	0.15	1	µg/l	6/7/2008	SW846 8021
Bromodichloromethane	1	U	1	0.50	1	µg/l	6/7/2008	SW846 8021
1,2 Dibromoethane	1	U	1	0.45	1	µg/l	6/7/2008	SW846 8021
Bromoform	10	U	10	0.89	1	µg/l	6/7/2008	SW846 8021
Carbon Tetrachoride	1	U	1	0.41	1	µg/l	6/7/2008	SW846 8021
Chlorobenzene	1	U	1	0.44	1	µg/l	6/7/2008	SW846 8021
Chloroethane	10	U	10	2.84	1	µg/l	6/7/2008	SW846 8021
Chloroform	1	U	1	0.43	1	µg/l	6/7/2008	SW846 8021
Dibromochloromethane	5	U	5	0.92	1	µg/l	6/7/2008	SW846 8021
1,2-Dichlorobenzene	1	U	1	0.37	1	µg/l	6/7/2008	SW846 8021
1,3-Dichlorobenzene	1	U	1	0.44	1	µg/l	6/7/2008	SW846 8021
1,4-Dichlorobenzene	1	U	1	0.22	1	µg/l	6/7/2008	SW846 8021
1,1-Dichloroethane	1	U	1	0.40	1	µg/l	6/7/2008	SW846 8021
1,2-Dichloroethane	1	U	1	0.38	1	µg/l	6/7/2008	SW846 8021
1,1-Dichloroethene	1	U	1	0.48	1	µg/l	6/7/2008	SW846 8021
Cis-1,2-Dichloroethene	**200**		20	0.45	20	µg/l	6/7/2008	SW846 8021
Trans-1,2-Dichloroethene	1	U	1	0.43	1	µg/l	6/7/2008	SW846 8021
1,2-Dichloropropane	1	U	1	0.41	1	µg/l	6/7/2008	SW846 8021
Cis-1,3-Dichloropropene	1	U	1	0.18	1	µg/l	6/7/2008	SW846 8021
Trans-1,3-Dichloropropene	1	U	1	0.36	1	µg/l	6/7/2008	SW846 8021
Ethyl benzene	1	U	1	0.38	1	µg/l	6/7/2008	SW846 8021
Methylene Chloride	1	U	1	0.46	1	µg/l	6/7/2008	SW846 8021
1,1,1,2-Tetrachloroethane	1	U	1	0.38	1	µg/l	6/7/2008	SW846 8021
1,1,2,2-Tetrachloroethane	1	U	1	0.22	1	µg/l	6/7/2008	SW846 8021
Tetrachloroethene	1	U	1	0.27	1	µg/l	6/7/2008	SW846 8021
Toluene	2	U	2	0.49	1	µg/l	6/7/2008	SW846 8021
1,1,1-Trichloroethane	1	U	1	0.35	1	µg/l	6/7/2008	SW846 8021
1,1,2-Trichloroethane	1	U	1	0.32	1	µg/l	6/7/2008	SW846 8021
Trichloroethene	**328**		20	0.36	20	µg/l	6/7/2008	SW846 8021
Vinyl Chloride	2	U	2	0.89	1	µg/l	6/7/2008	SW846 8021
Total Xylenes	3	U	3	0.41	1	µg/l	6/7/2008	SW846 8021
1,4-Bromofluorobenzene[2]	98%					% Recovery		

MATRIX ENVIRONMENTAL LLC

Mobile Lab Analytical Report
Mobile Lab ID: OH
Matrix Type: Water

PO Box 364
Galena, OH
740-965-8271

Client:	RMT	Matrix Project Number:	056-OHPL-08
Project Name:	Roscoe	Collection Date:	6/7/2008
Project Location:	Roscoe, IL	Report Date:	6/7/2008

Sample ID: AA-30-60

Analyte	Result[4]	Qualifier	RL	MDL[1]	Dilution	Units	Date Analyzed	Analytical Method
Benzene	1	U	1	0.15	1	µg/l	6/7/2008	SW846 8021
Bromodichloromethane	1	U	1	0.50	1	µg/l	6/7/2008	SW846 8021
1,2 Dibromoethane	1	U	1	0.45	1	µg/l	6/7/2008	SW846 8021
Bromoform	10	U	10	0.89	1	µg/l	6/7/2008	SW846 8021
Carbon Tetrachoride	1	U	1	0.41	1	µg/l	6/7/2008	SW846 8021
Chlorobenzene	1	U	1	0.44	1	µg/l	6/7/2008	SW846 8021
Chloroethane	10	U	10	2.84	1	µg/l	6/7/2008	SW846 8021
Chloroform	1	U	1	0.43	1	µg/l	6/7/2008	SW846 8021
Dibromochloromethane	5	U	5	0.92	1	µg/l	6/7/2008	SW846 8021
1,2-Dichlorobenzene	1	U	1	0.37	1	µg/l	6/7/2008	SW846 8021
1,3-Dichlorobenzene	1	U	1	0.44	1	µg/l	6/7/2008	SW846 8021
1,4-Dichlorobenzene	1	U	1	0.22	1	µg/l	6/7/2008	SW846 8021
1,1-Dichloroethane	1	U	1	0.40	1	µg/l	6/7/2008	SW846 8021
1,2-Dichloroethane	1	U	1	0.38	1	µg/l	6/7/2008	SW846 8021
1,1-Dichloroethene	1	U	1	0.48	1	µg/l	6/7/2008	SW846 8021
Cis-1,2-Dichloroethene	1	U	1	0.45	1	µg/l	6/7/2008	SW846 8021
Trans-1,2-Dichloroethene	1	U	1	0.43	1	µg/l	6/7/2008	SW846 8021
1,2-Dichloropropane	1	U	1	0.41	1	µg/l	6/7/2008	SW846 8021
Cis-1,3-Dichloropropene	1	U	1	0.18	1	µg/l	6/7/2008	SW846 8021
Trans-1,3-Dichloropropene	1	U	1	0.36	1	µg/l	6/7/2008	SW846 8021
Ethyl benzene	1	U	1	0.38	1	µg/l	6/7/2008	SW846 8021
Methylene Chloride	1	U	1	0.46	1	µg/l	6/7/2008	SW846 8021
1,1,1,2-Tetrachloroethane	1	U	1	0.38	1	µg/l	6/7/2008	SW846 8021
1,1,2,2-Tetrachloroethane	1	U	1	0.22	1	µg/l	6/7/2008	SW846 8021
Tetrachloroethene	1	U	1	0.27	1	µg/l	6/7/2008	SW846 8021
Toluene	2	U	2	0.49	1	µg/l	6/7/2008	SW846 8021
1,1,1-Trichloroethane	1	U	1	0.35	1	µg/l	6/7/2008	SW846 8021
1,1,2-Trichloroethane	1	U	1	0.32	1	µg/l	6/7/2008	SW846 8021
Trichloroethene	1	U	1	0.36	1	µg/l	6/7/2008	SW846 8021
Vinyl Chloride	2	U	2	0.89	1	µg/l	6/7/2008	SW846 8021
Total Xylenes	3	U	3	0.41	1	µg/l	6/7/2008	SW846 8021
1,4-Bromofluorobenzene[2]	102%					% Recovery		

MATRIX ENVIRONMENTAL LLC

Mobile Lab Analytical Report
Mobile Lab ID: OH
Matrix Type: Water

PO Box 364
Galena, OH
740-965-8271

Client:	RMT	Matrix Project Number:	056-OHPL-08
Project Name:	Roscoe	Collection Date:	6/7/2008
Project Location:	Roscoe, IL	Report Date:	6/7/2008

Sample ID: AA-30-70

Analyte	Result[4]	Qualifier	RL	MDL[1]	Dilution	Units	Date Analyzed	Analytical Method
Benzene	1	U	1	0.15	1	µg/l	6/7/2008	SW846 8021
Bromodichloromethane	1	U	1	0.50	1	µg/l	6/7/2008	SW846 8021
1,2 Dibromoethane	1	U	1	0.45	1	µg/l	6/7/2008	SW846 8021
Bromoform	10	U	10	0.89	1	µg/l	6/7/2008	SW846 8021
Carbon Tetrachoride	1	U	1	0.41	1	µg/l	6/7/2008	SW846 8021
Chlorobenzene	1	U	1	0.44	1	µg/l	6/7/2008	SW846 8021
Chloroethane	10	U	10	2.84	1	µg/l	6/7/2008	SW846 8021
Chloroform	1	U	1	0.43	1	µg/l	6/7/2008	SW846 8021
Dibromochloromethane	5	U	5	0.92	1	µg/l	6/7/2008	SW846 8021
1,2-Dichlorobenzene	1	U	1	0.37	1	µg/l	6/7/2008	SW846 8021
1,3-Dichlorobenzene	1	U	1	0.44	1	µg/l	6/7/2008	SW846 8021
1,4-Dichlorobenzene	1	U	1	0.22	1	µg/l	6/7/2008	SW846 8021
1,1-Dichloroethane	1	U	1	0.40	1	µg/l	6/7/2008	SW846 8021
1,2-Dichloroethane	1	U	1	0.38	1	µg/l	6/7/2008	SW846 8021
1,1-Dichloroethene	1	U	1	0.48	1	µg/l	6/7/2008	SW846 8021
Cis-1,2-Dichloroethene	1	U	1	0.45	1	µg/l	6/7/2008	SW846 8021
Trans-1,2-Dichloroethene	1	U	1	0.43	1	µg/l	6/7/2008	SW846 8021
1,2-Dichloropropane	1	U	1	0.41	1	µg/l	6/7/2008	SW846 8021
Cis-1,3-Dichloropropene	1	U	1	0.18	1	µg/l	6/7/2008	SW846 8021
Trans-1,3-Dichloropropene	1	U	1	0.36	1	µg/l	6/7/2008	SW846 8021
Ethyl benzene	1	U	1	0.38	1	µg/l	6/7/2008	SW846 8021
Methylene Chloride	1	U	1	0.46	1	µg/l	6/7/2008	SW846 8021
1,1,1,2-Tetrachloroethane	1	U	1	0.38	1	µg/l	6/7/2008	SW846 8021
1,1,2,2-Tetrachloroethane	1	U	1	0.22	1	µg/l	6/7/2008	SW846 8021
Tetrachloroethene	1	U	1	0.27	1	µg/l	6/7/2008	SW846 8021
Toluene	2	U	2	0.49	1	µg/l	6/7/2008	SW846 8021
1,1,1-Trichloroethane	1	U	1	0.35	1	µg/l	6/7/2008	SW846 8021
1,1,2-Trichloroethane	1	U	1	0.32	1	µg/l	6/7/2008	SW846 8021
Trichloroethene	1	U	1	0.36	1	µg/l	6/7/2008	SW846 8021
Vinyl Chloride	2	U	2	0.89	1	µg/l	6/7/2008	SW846 8021
Total Xylenes	3	U	3	0.41	1	µg/l	6/7/2008	SW846 8021
1,4-Bromofluorobenzene[2]	97%					% Recovery		

MATRIX ENVIRONMENTAL LLC

Mobile Lab Analytical Report
Mobile Lab ID: OH
Matrix Type: Water

PO Box 364
Galena, OH
740-965-8271

Client:	RMT	Matrix Project Number:	056-OHPL-08
Project Name:	Roscoe	Collection Date:	6/7/2008
Project Location:	Roscoe, IL	Report Date:	6/7/2008

Sample ID: AA-30-80

Analyte	Result[4]	Qualifier	RL	MDL[1]	Dilution	Units	Date Analyzed	Analytical Method
Benzene	1	U	1	0.15	1	µg/l	6/7/2008	SW846 8021
Bromodichloromethane	1	U	1	0.50	1	µg/l	6/7/2008	SW846 8021
1,2 Dibromoethane	1	U	1	0.45	1	µg/l	6/7/2008	SW846 8021
Bromoform	10	U	10	0.89	1	µg/l	6/7/2008	SW846 8021
Carbon Tetrachoride	1	U	1	0.41	1	µg/l	6/7/2008	SW846 8021
Chlorobenzene	1	U	1	0.44	1	µg/l	6/7/2008	SW846 8021
Chloroethane	10	U	10	2.84	1	µg/l	6/7/2008	SW846 8021
Chloroform	1	U	1	0.43	1	µg/l	6/7/2008	SW846 8021
Dibromochloromethane	5	U	5	0.92	1	µg/l	6/7/2008	SW846 8021
1,2-Dichlorobenzene	1	U	1	0.37	1	µg/l	6/7/2008	SW846 8021
1,3-Dichlorobenzene	1	U	1	0.44	1	µg/l	6/7/2008	SW846 8021
1,4-Dichlorobenzene	1	U	1	0.22	1	µg/l	6/7/2008	SW846 8021
1,1-Dichloroethane	1	U	1	0.40	1	µg/l	6/7/2008	SW846 8021
1,2-Dichloroethane	1	U	1	0.38	1	µg/l	6/7/2008	SW846 8021
1,1-Dichloroethene	1	U	1	0.48	1	µg/l	6/7/2008	SW846 8021
Cis-1,2-Dichloroethene	1	U	1	0.45	1	µg/l	6/7/2008	SW846 8021
Trans-1,2-Dichloroethene	1	U	1	0.43	1	µg/l	6/7/2008	SW846 8021
1,2-Dichloropropane	1	U	1	0.41	1	µg/l	6/7/2008	SW846 8021
Cis-1,3-Dichloropropene	1	U	1	0.18	1	µg/l	6/7/2008	SW846 8021
Trans-1,3-Dichloropropene	1	U	1	0.36	1	µg/l	6/7/2008	SW846 8021
Ethyl benzene	1	U	1	0.38	1	µg/l	6/7/2008	SW846 8021
Methylene Chloride	1	U	1	0.46	1	µg/l	6/7/2008	SW846 8021
1,1,1,2-Tetrachloroethane	1	U	1	0.38	1	µg/l	6/7/2008	SW846 8021
1,1,2,2-Tetrachloroethane	1	U	1	0.22	1	µg/l	6/7/2008	SW846 8021
Tetrachloroethene	1	U	1	0.27	1	µg/l	6/7/2008	SW846 8021
Toluene	2	U	2	0.49	1	µg/l	6/7/2008	SW846 8021
1,1,1-Trichloroethane	1	U	1	0.35	1	µg/l	6/7/2008	SW846 8021
1,1,2-Trichloroethane	1	U	1	0.32	1	µg/l	6/7/2008	SW846 8021
Trichloroethene	1	U	1	0.36	1	µg/l	6/7/2008	SW846 8021
Vinyl Chloride	2	U	2	0.89	1	µg/l	6/7/2008	SW846 8021
Total Xylenes	3	U	3	0.41	1	µg/l	6/7/2008	SW846 8021
1,4-Bromofluorobenzene[2]	108%					% Recovery		

MATRIX ENVIRONMENTAL LLC

Mobile Lab Analytical Report
Mobile Lab ID: [illegible]OH
Matrix Type: Water

PO Box 364
Galena, OH
740-965-8271

Client:	RMT	Matrix Project Number:	056-OHPL-08
Project Name:	Roscoe	Collection Date:	6/7/2008
Project Location:	Roscoe, IL	Report Date:	6/7/2008

Sample ID: AA-30-90

Analyte	Result[4]	Qualifier	RL	MDL[1]	Dilution	Units	Date Analyzed	Analytical Method
Benzene	1	U	1	0.15	1	µg/l	6/7/2008	SW846 8021
Bromodichloromethane	1	U	1	0.50	1	µg/l	6/7/2008	SW846 8021
1,2 Dibromoethane	1	U	1	0.45	1	µg/l	6/7/2008	SW846 8021
Bromoform	10	U	10	0.89	1	µg/l	6/7/2008	SW846 8021
Carbon Tetrachoride	1	U	1	0.41	1	µg/l	6/7/2008	SW846 8021
Chlorobenzene	1	U	1	0.44	1	µg/l	6/7/2008	SW846 8021
Chloroethane	10	U	10	2.84	1	µg/l	6/7/2008	SW846 8021
Chloroform	1	U	1	0.43	1	µg/l	6/7/2008	SW846 8021
Dibromochloromethane	5	U	5	0.92	1	µg/l	6/7/2008	SW846 8021
1,2-Dichlorobenzene	1	U	1	0.37	1	µg/l	6/7/2008	SW846 8021
1,3-Dichlorobenzene	1	U	1	0.44	1	µg/l	6/7/2008	SW846 8021
1,4-Dichlorobenzene	1	U	1	0.22	1	µg/l	6/7/2008	SW846 8021
1,1-Dichloroethane	1	U	1	0.40	1	µg/l	6/7/2008	SW846 8021
1,2-Dichloroethane	1	U	1	0.38	1	µg/l	6/7/2008	SW846 8021
1,1-Dichloroethene	1	U	1	0.48	1	µg/l	6/7/2008	SW846 8021
Cis-1,2-Dichloroethene	1	U	1	0.45	1	µg/l	6/7/2008	SW846 8021
Trans-1,2-Dichloroethene	1	U	1	0.43	1	µg/l	6/7/2008	SW846 8021
1,2-Dichloropropane	1	U	1	0.41	1	µg/l	6/7/2008	SW846 8021
Cis-1,3-Dichloropropene	1	U	1	0.18	1	µg/l	6/7/2008	SW846 8021
Trans-1,3-Dichloropropene	1	U	1	0.36	1	µg/l	6/7/2008	SW846 8021
Ethyl benzene	1	U	1	0.38	1	µg/l	6/7/2008	SW846 8021
Methylene Chloride	1	U	1	0.46	1	µg/l	6/7/2008	SW846 8021
1,1,1,2-Tetrachloroethane	1	U	1	0.38	1	µg/l	6/7/2008	SW846 8021
1,1,2,2-Tetrachloroethane	1	U	1	0.22	1	µg/l	6/7/2008	SW846 8021
Tetrachloroethene	1	U	1	0.27	1	µg/l	6/7/2008	SW846 8021
Toluene	2	U	2	0.49	1	µg/l	6/7/2008	SW846 8021
1,1,1-Trichloroethane	1	U	1	0.35	1	µg/l	6/7/2008	SW846 8021
1,1,2-Trichloroethane	1	U	1	0.32	1	µg/l	6/7/2008	SW846 8021
Trichloroethene	1	U	1	0.36	1	µg/l	6/7/2008	SW846 8021
Vinyl Chloride	2	U	2	0.89	1	µg/l	6/7/2008	SW846 8021
Total Xylenes	3	U	3	0.41	1	µg/l	6/7/2008	SW846 8021
1,4-Bromofluorobenzene[2]	107%					% Recovery		

MATRIX ENVIRONMENTAL LLC

Mobile Lab Analytical Report
Mobile Lab ID: OH
Matrix Type: Water

PO Box 364
Galena, OH
740-965-8271

Client:	RMT	Matrix Project Number:	056-OHPL-08
Project Name:	Roscoe	Collection Date:	6/10/2008
Project Location:	Roscoe, IL	Report Date:	6/10/2008

Sample ID: BB-01-35

Analyte	Result[4]	Qualifier	RL	MDL[1]	Dilution	Units	Date Analyzed	Analytical Method
Benzene	1	U	1	0.15	1	µg/l	6/10/2008	SW846 8021
Bromodichloromethane	1	U	1	0.50	1	µg/l	6/10/2008	SW846 8021
1,2 Dibromoethane	1	U	1	0.45	1	µg/l	6/10/2008	SW846 8021
Bromoform	10	U	10	0.89	1	µg/l	6/10/2008	SW846 8021
Carbon Tetrachoride	1	U	1	0.41	1	µg/l	6/10/2008	SW846 8021
Chlorobenzene	1	U	1	0.44	1	µg/l	6/10/2008	SW846 8021
Chloroethane	10	U	10	2.84	1	µg/l	6/10/2008	SW846 8021
Chloroform	1	U	1	0.43	1	µg/l	6/10/2008	SW846 8021
Dibromochloromethane	5	U	5	0.92	1	µg/l	6/10/2008	SW846 8021
1,2-Dichlorobenzene	1	U	1	0.37	1	µg/l	6/10/2008	SW846 8021
1,3-Dichlorobenzene	1	U	1	0.44	1	µg/l	6/10/2008	SW846 8021
1,4-Dichlorobenzene	1	U	1	0.22	1	µg/l	6/10/2008	SW846 8021
1,1-Dichloroethane	1	U	1	0.40	1	µg/l	6/10/2008	SW846 8021
1,2-Dichloroethane	1	U	1	0.38	1	µg/l	6/10/2008	SW846 8021
1,1-Dichloroethene	1	U	1	0.48	1	µg/l	6/10/2008	SW846 8021
Cis-1,2-Dichloroethene	1	U	1	0.45	1	µg/l	6/10/2008	SW846 8021
Trans-1,2-Dichloroethene	1	U	1	0.43	1	µg/l	6/10/2008	SW846 8021
1,2-Dichloropropane	1	U	1	0.41	1	µg/l	6/10/2008	SW846 8021
Cis-1,3-Dichloropropene	1	U	1	0.18	1	µg/l	6/10/2008	SW846 8021
Trans-1,3-Dichloropropene	1	U	1	0.36	1	µg/l	6/10/2008	SW846 8021
Ethyl benzene	1	U	1	0.38	1	µg/l	6/10/2008	SW846 8021
Methylene Chloride	1	U	1	0.46	1	µg/l	6/10/2008	SW846 8021
1,1,1,2-Tetrachloroethane	1	U	1	0.38	1	µg/l	6/10/2008	SW846 8021
1,1,2,2-Tetrachloroethane	1	U	1	0.22	1	µg/l	6/10/2008	SW846 8021
Tetrachloroethene	1	U	1	0.27	1	µg/l	6/10/2008	SW846 8021
Toluene	2	U	2	0.49	1	µg/l	6/10/2008	SW846 8021
1,1,1-Trichloroethane	1	U	1	0.35	1	µg/l	6/10/2008	SW846 8021
1,1,2-Trichloroethane	1	U	1	0.32	1	µg/l	6/10/2008	SW846 8021
Trichloroethene	1	U	1	0.36	1	µg/l	6/10/2008	SW846 8021
Vinyl Chloride	2	U	2	0.89	1	µg/l	6/10/2008	SW846 8021
Total Xylenes	3	U	3	0.41	1	µg/l	6/10/2008	SW846 8021
1,4-Bromofluorobenzene[2]	115%					% Recovery		

MATRIX ENVIRONMENTAL LLC

Mobile Lab Analytical Report
Mobile Lab ID: [illegible]01
Matrix Type: Water

PO Box 364
Galena, OH
740-965-8271

Client:	RMT	Matrix Project Number:	056-OHPL-08
Project Name:	Roscoe	Collection Date:	6/10/2008
Project Location:	Roscoe, IL	Report Date:	6/10/2008

Sample ID: BB-01-50

Analyte	Result[4]	Qualifier	RL	MDL[1]	Dilution	Units	Date Analyzed	Analytical Method
Benzene	1	U	1	0.15	1	µg/l	6/10/2008	SW846 8021
Bromodichloromethane	1	U	1	0.50	1	µg/l	6/10/2008	SW846 8021
1,2 Dibromoethane	1	U	1	0.45	1	µg/l	6/10/2008	SW846 8021
Bromoform	10	U	10	0.89	1	µg/l	6/10/2008	SW846 8021
Carbon Tetrachoride	1	U	1	0.41	1	µg/l	6/10/2008	SW846 8021
Chlorobenzene	1	U	1	0.44	1	µg/l	6/10/2008	SW846 8021
Chloroethane	10	U	10	2.84	1	µg/l	6/10/2008	SW846 8021
Chloroform	1	U	1	0.43	1	µg/l	6/10/2008	SW846 8021
Dibromochloromethane	5	U	5	0.92	1	µg/l	6/10/2008	SW846 8021
1,2-Dichlorobenzene	1	U	1	0.37	1	µg/l	6/10/2008	SW846 8021
1,3-Dichlorobenzene	1	U	1	0.44	1	µg/l	6/10/2008	SW846 8021
1,4-Dichlorobenzene	1	U	1	0.22	1	µg/l	6/10/2008	SW846 8021
1,1-Dichloroethane	1	U	1	0.40	1	µg/l	6/10/2008	SW846 8021
1,2-Dichloroethane	1	U	1	0.38	1	µg/l	6/10/2008	SW846 8021
1,1-Dichloroethene	1	U	1	0.48	1	µg/l	6/10/2008	SW846 8021
Cis-1,2-Dichloroethene	2		1	0.45	1	µg/l	6/10/2008	SW846 8021
Trans-1,2-Dichloroethene	1	U	1	0.43	1	µg/l	6/10/2008	SW846 8021
1,2-Dichloropropane	1	U	1	0.41	1	µg/l	6/10/2008	SW846 8021
Cis-1,3-Dichloropropene	1	U	1	0.18	1	µg/l	6/10/2008	SW846 8021
Trans-1,3-Dichloropropene	1	U	1	0.36	1	µg/l	6/10/2008	SW846 8021
Ethyl benzene	1	U	1	0.38	1	µg/l	6/10/2008	SW846 8021
Methylene Chloride	1	U	1	0.46	1	µg/l	6/10/2008	SW846 8021
1,1,1,2-Tetrachloroethane	1	U	1	0.38	1	µg/l	6/10/2008	SW846 8021
1,1,2,2-Tetrachloroethane	1	U	1	0.22	1	µg/l	6/10/2008	SW846 8021
Tetrachloroethene	1	U	1	0.27	1	µg/l	6/10/2008	SW846 8021
Toluene	2	U	2	0.49	1	µg/l	6/10/2008	SW846 8021
1,1,1-Trichloroethane	1	U	1	0.35	1	µg/l	6/10/2008	SW846 8021
1,1,2-Trichloroethane	1	U	1	0.32	1	µg/l	6/10/2008	SW846 8021
Trichloroethene	2		1	0.36	1	µg/l	6/10/2008	SW846 8021
Vinyl Chloride	2	U	2	0.89	1	µg/l	6/10/2008	SW846 8021
Total Xylenes	3	U	3	0.41	1	µg/l	6/10/2008	SW846 8021
1,4-Bromofluorobenzene[2]	101%					% Recovery		

MATRIX ENVIRONMENTAL LLC

Mobile Lab Analytical Report
Mobile Lab ID: OH
Matrix Type: Water

PO Box 364
Galena, OH
740-965-8271

Client:	RMT	Matrix Project Number:	056-OHPL-08
Project Name:	Roscoe	Collection Date:	6/10/2008
Project Location:	Roscoe, IL	Report Date:	6/10/2008

Sample ID: BB-01-70

Analyte	Result[4]	Qualifier	RL	MDL[1]	Dilution	Units	Date Analyzed	Analytical Method
Benzene	1	U	1	0.15	1	µg/l	6/10/2008	SW846 8021
Bromodichloromethane	1	U	1	0.50	1	µg/l	6/10/2008	SW846 8021
1,2 Dibromoethane	1	U	1	0.45	1	µg/l	6/10/2008	SW846 8021
Bromoform	10	U	10	0.89	1	µg/l	6/10/2008	SW846 8021
Carbon Tetrachoride	1	U	1	0.41	1	µg/l	6/10/2008	SW846 8021
Chlorobenzene	1	U	1	0.44	1	µg/l	6/10/2008	SW846 8021
Chloroethane	10	U	10	2.84	1	µg/l	6/10/2008	SW846 8021
Chloroform	1	U	1	0.43	1	µg/l	6/10/2008	SW846 8021
Dibromochloromethane	5	U	5	0.92	1	µg/l	6/10/2008	SW846 8021
1,2-Dichlorobenzene	1	U	1	0.37	1	µg/l	6/10/2008	SW846 8021
1,3-Dichlorobenzene	1	U	1	0.44	1	µg/l	6/10/2008	SW846 8021
1,4-Dichlorobenzene	1	U	1	0.22	1	µg/l	6/10/2008	SW846 8021
1,1-Dichloroethane	1	U	1	0.40	1	µg/l	6/10/2008	SW846 8021
1,2-Dichloroethane	1	U	1	0.38	1	µg/l	6/10/2008	SW846 8021
1,1-Dichloroethene	1	U	1	0.48	1	µg/l	6/10/2008	SW846 8021
Cis-1,2-Dichloroethene	2		1	0.45	1	µg/l	6/10/2008	SW846 8021
Trans-1,2-Dichloroethene	1	U	1	0.43	1	µg/l	6/10/2008	SW846 8021
1,2-Dichloropropane	1	U	1	0.41	1	µg/l	6/10/2008	SW846 8021
Cis-1,3-Dichloropropene	1	U	1	0.18	1	µg/l	6/10/2008	SW846 8021
Trans-1,3-Dichloropropene	1	U	1	0.36	1	µg/l	6/10/2008	SW846 8021
Ethyl benzene	1	U	1	0.38	1	µg/l	6/10/2008	SW846 8021
Methylene Chloride	1	U	1	0.46	1	µg/l	6/10/2008	SW846 8021
1,1,1,2-Tetrachloroethane	1	U	1	0.38	1	µg/l	6/10/2008	SW846 8021
1,1,2,2-Tetrachloroethane	1	U	1	0.22	1	µg/l	6/10/2008	SW846 8021
Tetrachloroethene	1	U	1	0.27	1	µg/l	6/10/2008	SW846 8021
Toluene	2	U	2	0.49	1	µg/l	6/10/2008	SW846 8021
1,1,1-Trichloroethane	1		1	0.35	1	µg/l	6/10/2008	SW846 8021
1,1,2-Trichloroethane	1	U	1	0.32	1	µg/l	6/10/2008	SW846 8021
Trichloroethene	2		1	0.36	1	µg/l	6/10/2008	SW846 8021
Vinyl Chloride	2	U	2	0.89	1	µg/l	6/10/2008	SW846 8021
Total Xylenes	3	U	3	0.41	1	µg/l	6/10/2008	SW846 8021
1,4-Bromofluorobenzene[2]	97%					% Recovery		

MATRIX ENVIRONMENTAL LLC

Mobile Lab Final Report
Mobile Lab ID: OH
Matrix Type: Water

PO Box 364
Galena, OH
740-965-8271

Client:	RMT	Matrix Project Number:	056-OHPL-08
Project Name:	Roscoe	Collection Date:	6/10/2008
Project Location:	Roscoe, IL	Report Date:	6/10/2008

Sample ID: BB-02-35

Analyte	Result[4]	Qualifier	RL	MDL[1]	Dilution	Units	Date Analyzed	Analytical Method
Benzene	1	U	1	0.15	1	µg/l	6/10/2008	SW846 8021
Bromodichloromethane	1	U	1	0.50	1	µg/l	6/10/2008	SW846 8021
1,2 Dibromoethane	1	U	1	0.45	1	µg/l	6/10/2008	SW846 8021
Bromoform	10	U	10	0.89	1	µg/l	6/10/2008	SW846 8021
Carbon Tetrachoride	1	U	1	0.41	1	µg/l	6/10/2008	SW846 8021
Chlorobenzene	1	U	1	0.44	1	µg/l	6/10/2008	SW846 8021
Chloroethane	10	U	10	2.84	1	µg/l	6/10/2008	SW846 8021
Chloroform	1	U	1	0.43	1	µg/l	6/10/2008	SW846 8021
Dibromochloromethane	5	U	5	0.92	1	µg/l	6/10/2008	SW846 8021
1,2-Dichlorobenzene	1	U	1	0.37	1	µg/l	6/10/2008	SW846 8021
1,3-Dichlorobenzene	1	U	1	0.44	1	µg/l	6/10/2008	SW846 8021
1,4-Dichlorobenzene	1	U	1	0.22	1	µg/l	6/10/2008	SW846 8021
1,1-Dichloroethane	1	U	1	0.40	1	µg/l	6/10/2008	SW846 8021
1,2-Dichloroethane	1	U	1	0.38	1	µg/l	6/10/2008	SW846 8021
1,1-Dichloroethene	1	U	1	0.48	1	µg/l	6/10/2008	SW846 8021
Cis-1,2-Dichloroethene	1	U	1	0.45	1	µg/l	6/10/2008	SW846 8021
Trans-1,2-Dichloroethene	1	U	1	0.43	1	µg/l	6/10/2008	SW846 8021
1,2-Dichloropropane	1	U	1	0.41	1	µg/l	6/10/2008	SW846 8021
Cis-1,3-Dichloropropene	1	U	1	0.18	1	µg/l	6/10/2008	SW846 8021
Trans-1,3-Dichloropropene	1	U	1	0.36	1	µg/l	6/10/2008	SW846 8021
Ethyl benzene	1	U	1	0.38	1	µg/l	6/10/2008	SW846 8021
Methylene Chloride	1	U	1	0.46	1	µg/l	6/10/2008	SW846 8021
1,1,1,2-Tetrachloroethane	1	U	1	0.38	1	µg/l	6/10/2008	SW846 8021
1,1,2,2-Tetrachloroethane	1	U	1	0.22	1	µg/l	6/10/2008	SW846 8021
Tetrachloroethene	1	U	1	0.27	1	µg/l	6/10/2008	SW846 8021
Toluene	2	U	2	0.49	1	µg/l	6/10/2008	SW846 8021
1,1,1-Trichloroethane	1	U	1	0.35	1	µg/l	6/10/2008	SW846 8021
1,1,2-Trichloroethane	1	U	1	0.32	1	µg/l	6/10/2008	SW846 8021
Trichloroethene	1	U	1	0.36	1	µg/l	6/10/2008	SW846 8021
Vinyl Chloride	2	U	2	0.89	1	µg/l	6/10/2008	SW846 8021
Total Xylenes	3	U	3	0.41	1	µg/l	6/10/2008	SW846 8021
1,4-Bromofluorobenzene[2]	117%					% Recovery		

MATRIX ENVIRONMENTAL LLC

Mobile Lab Analytical Report
Mobile Lab ID: OH
Matrix Type: Water

PO Box 364
Galena, OH
740-965-8271

Client:	RMT	Matrix Project Number:	056-OHPL-08
Project Name:	Roscoe	Collection Date:	6/10/2008
Project Location:	Roscoe, IL	Report Date:	6/10/2008

Sample ID: BB-02-50

Analyte	Result[4]	Qualifier	RL	MDL[1]	Dilution	Units	Date Analyzed	Analytical Method
Benzene	1	U	1	0.15	1	µg/l	6/10/2008	SW846 8021
Bromodichloromethane	1	U	1	0.50	1	µg/l	6/10/2008	SW846 8021
1,2 Dibromoethane	1	U	1	0.45	1	µg/l	6/10/2008	SW846 8021
Bromoform	10	U	10	0.89	1	µg/l	6/10/2008	SW846 8021
Carbon Tetrachoride	1	U	1	0.41	1	µg/l	6/10/2008	SW846 8021
Chlorobenzene	1	U	1	0.44	1	µg/l	6/10/2008	SW846 8021
Chloroethane	10	U	10	2.84	1	µg/l	6/10/2008	SW846 8021
Chloroform	1	U	1	0.43	1	µg/l	6/10/2008	SW846 8021
Dibromochloromethane	5	U	5	0.92	1	µg/l	6/10/2008	SW846 8021
1,2-Dichlorobenzene	1	U	1	0.37	1	µg/l	6/10/2008	SW846 8021
1,3-Dichlorobenzene	1	U	1	0.44	1	µg/l	6/10/2008	SW846 8021
1,4-Dichlorobenzene	1	U	1	0.22	1	µg/l	6/10/2008	SW846 8021
1,1-Dichloroethane	1	U	1	0.40	1	µg/l	6/10/2008	SW846 8021
1,2-Dichloroethane	1	U	1	0.38	1	µg/l	6/10/2008	SW846 8021
1,1-Dichloroethene	1	U	1	0.48	1	µg/l	6/10/2008	SW846 8021
Cis-1,2-Dichloroethene	4		1	0.45	1	µg/l	6/10/2008	SW846 8021
Trans-1,2-Dichloroethene	1	U	1	0.43	1	µg/l	6/10/2008	SW846 8021
1,2-Dichloropropane	1	U	1	0.41	1	µg/l	6/10/2008	SW846 8021
Cis-1,3-Dichloropropene	1	U	1	0.18	1	µg/l	6/10/2008	SW846 8021
Trans-1,3-Dichloropropene	1	U	1	0.36	1	µg/l	6/10/2008	SW846 8021
Ethyl benzene	1	U	1	0.38	1	µg/l	6/10/2008	SW846 8021
Methylene Chloride	1	U	1	0.46	1	µg/l	6/10/2008	SW846 8021
1,1,1,2-Tetrachloroethane	1	U	1	0.38	1	µg/l	6/10/2008	SW846 8021
1,1,2,2-Tetrachloroethane	1	U	1	0.22	1	µg/l	6/10/2008	SW846 8021
Tetrachloroethene	1	U	1	0.27	1	µg/l	6/10/2008	SW846 8021
Toluene	2	U	2	0.49	1	µg/l	6/10/2008	SW846 8021
1,1,1-Trichloroethane	1	U	1	0.35	1	µg/l	6/10/2008	SW846 8021
1,1,2-Trichloroethane	1	U	1	0.32	1	µg/l	6/10/2008	SW846 8021
Trichloroethene	3		1	0.36	1	µg/l	6/10/2008	SW846 8021
Vinyl Chloride	2	U	2	0.89	1	µg/l	6/10/2008	SW846 8021
Total Xylenes	3	U	3	0.41	1	µg/l	6/10/2008	SW846 8021
1,4-Bromofluorobenzene[2]	115%					% Recovery		

MATRIX ENVIRONMENTAL LLC

Mobile Lab Analytical Report
Mobile Lab ID: OH
Matrix Type: Water

PO Box 364
Galena, OH
740-965-8271

Client:	RMT	Matrix Project Number:	056-OHPL-08
Project Name:	Roscoe	Collection Date:	6/10/2008
Project Location:	Roscoe, IL	Report Date:	6/10/2008

Sample ID: BB-02-70

Analyte	Result[4]	Qualifier	RL	MDL[1]	Dilution	Units	Date Analyzed	Analytical Method
Benzene	1	U	1	0.15	1	µg/l	6/10/2008	SW846 8021
Bromodichloromethane	1	U	1	0.50	1	µg/l	6/10/2008	SW846 8021
1,2 Dibromoethane	1	U	1	0.45	1	µg/l	6/10/2008	SW846 8021
Bromoform	10	U	10	0.89	1	µg/l	6/10/2008	SW846 8021
Carbon Tetrachoride	1	U	1	0.41	1	µg/l	6/10/2008	SW846 8021
Chlorobenzene	1	U	1	0.44	1	µg/l	6/10/2008	SW846 8021
Chloroethane	10	U	10	2.84	1	µg/l	6/10/2008	SW846 8021
Chloroform	1	U	1	0.43	1	µg/l	6/10/2008	SW846 8021
Dibromochloromethane	5	U	5	0.92	1	µg/l	6/10/2008	SW846 8021
1,2-Dichlorobenzene	1	U	1	0.37	1	µg/l	6/10/2008	SW846 8021
1,3-Dichlorobenzene	1	U	1	0.44	1	µg/l	6/10/2008	SW846 8021
1,4-Dichlorobenzene	1	U	1	0.22	1	µg/l	6/10/2008	SW846 8021
1,1-Dichloroethane	1	U	1	0.40	1	µg/l	6/10/2008	SW846 8021
1,2-Dichloroethane	1	U	1	0.38	1	µg/l	6/10/2008	SW846 8021
1,1-Dichloroethene	1	U	1	0.48	1	µg/l	6/10/2008	SW846 8021
Cis-1,2-Dichloroethene	4		1	0.45	1	µg/l	6/10/2008	SW846 8021
Trans-1,2-Dichloroethene	1	U	1	0.43	1	µg/l	6/10/2008	SW846 8021
1,2-Dichloropropane	1	U	1	0.41	1	µg/l	6/10/2008	SW846 8021
Cis-1,3-Dichloropropene	1	U	1	0.18	1	µg/l	6/10/2008	SW846 8021
Trans-1,3-Dichloropropene	1	U	1	0.36	1	µg/l	6/10/2008	SW846 8021
Ethyl benzene	1	U	1	0.38	1	µg/l	6/10/2008	SW846 8021
Methylene Chloride	1	U	1	0.46	1	µg/l	6/10/2008	SW846 8021
1,1,1,2-Tetrachloroethane	1	U	1	0.38	1	µg/l	6/10/2008	SW846 8021
1,1,2,2-Tetrachloroethane	1	U	1	0.22	1	µg/l	6/10/2008	SW846 8021
Tetrachloroethene	1	U	1	0.27	1	µg/l	6/10/2008	SW846 8021
Toluene	2	U	2	0.49	1	µg/l	6/10/2008	SW846 8021
1,1,1-Trichloroethane	1		1	0.35	1	µg/l	6/10/2008	SW846 8021
1,1,2-Trichloroethane	1	U	1	0.32	1	µg/l	6/10/2008	SW846 8021
Trichloroethene	5		1	0.36	1	µg/l	6/10/2008	SW846 8021
Vinyl Chloride	2	U	2	0.89	1	µg/l	6/10/2008	SW846 8021
Total Xylenes	3	U	3	0.41	1	µg/l	6/10/2008	SW846 8021
1,4-Bromofluorobenzene[2]	100%					% Recovery		

MATRIX ENVIRONMENTAL LLC

Mobile Lab Analytical Report
Mobile Lab ID: OH
Matrix Type: Water

PO Box 364
Galena, OH
740-965-8271

Client:	RMT	Matrix Project Number:	056-OHPL-08
Project Name:	Roscoe	Collection Date:	6/10/2008
Project Location:	Roscoe, IL	Report Date:	6/10/2008

Sample ID: BB-03-35

Analyte	Result[4]	Qualifier	RL	MDL[1]	Dilution	Units	Date Analyzed	Analytical Method
Benzene	1	U	1	0.15	1	µg/l	6/10/2008	SW846 8021
Bromodichloromethane	1	U	1	0.50	1	µg/l	6/10/2008	SW846 8021
1,2 Dibromoethane	1	U	1	0.45	1	µg/l	6/10/2008	SW846 8021
Bromoform	10	U	10	0.89	1	µg/l	6/10/2008	SW846 8021
Carbon Tetrachoride	1	U	1	0.41	1	µg/l	6/10/2008	SW846 8021
Chlorobenzene	1	U	1	0.44	1	µg/l	6/10/2008	SW846 8021
Chloroethane	10	U	10	2.84	1	µg/l	6/10/2008	SW846 8021
Chloroform	1	U	1	0.43	1	µg/l	6/10/2008	SW846 8021
Dibromochloromethane	5	U	5	0.92	1	µg/l	6/10/2008	SW846 8021
1,2-Dichlorobenzene	1	U	1	0.37	1	µg/l	6/10/2008	SW846 8021
1,3-Dichlorobenzene	1	U	1	0.44	1	µg/l	6/10/2008	SW846 8021
1,4-Dichlorobenzene	1	U	1	0.22	1	µg/l	6/10/2008	SW846 8021
1,1-Dichloroethane	1	U	1	0.40	1	µg/l	6/10/2008	SW846 8021
1,2-Dichloroethane	1	U	1	0.38	1	µg/l	6/10/2008	SW846 8021
1,1-Dichloroethene	1	U	1	0.48	1	µg/l	6/10/2008	SW846 8021
Cis-1,2-Dichloroethene	2		1	0.45	1	µg/l	6/10/2008	SW846 8021
Trans-1,2-Dichloroethene	1	U	1	0.43	1	µg/l	6/10/2008	SW846 8021
1,2-Dichloropropane	1	U	1	0.41	1	µg/l	6/10/2008	SW846 8021
Cis-1,3-Dichloropropene	1	U	1	0.18	1	µg/l	6/10/2008	SW846 8021
Trans-1,3-Dichloropropene	1	U	1	0.36	1	µg/l	6/10/2008	SW846 8021
Ethyl benzene	1	U	1	0.38	1	µg/l	6/10/2008	SW846 8021
Methylene Chloride	1	U	1	0.46	1	µg/l	6/10/2008	SW846 8021
1,1,1,2-Tetrachloroethane	1	U	1	0.38	1	µg/l	6/10/2008	SW846 8021
1,1,2,2-Tetrachloroethane	1	U	1	0.22	1	µg/l	6/10/2008	SW846 8021
Tetrachloroethene	1	U	1	0.27	1	µg/l	6/10/2008	SW846 8021
Toluene	2	U	2	0.49	1	µg/l	6/10/2008	SW846 8021
1,1,1-Trichloroethane	1	U	1	0.35	1	µg/l	6/10/2008	SW846 8021
1,1,2-Trichloroethane	1	U	1	0.32	1	µg/l	6/10/2008	SW846 8021
Trichloroethene	3		1	0.36	1	µg/l	6/10/2008	SW846 8021
Vinyl Chloride	2	U	2	0.89	1	µg/l	6/10/2008	SW846 8021
Total Xylenes	3	U	3	0.41	1	µg/l	6/10/2008	SW846 8021
1,4-Bromofluorobenzene[2]	100%					% Recovery		

MATRIX ENVIRONMENTAL LLC

Mobile Lab Analytical Report
Mobile Lab ID: [illegible]OH
Matrix Type: Water

PO Box 364
Galena, OH
740-965-8271

Client:	RMT	Matrix Project Number:	056-OHPL-08
Project Name:	Roscoe	Collection Date:	6/10/2008
Project Location:	Roscoe, IL	Report Date:	6/10/2008

Sample ID: BB-03-50

Analyte	Result[4]	Qualifier	RL	MDL[1]	Dilution	Units	Date Analyzed	Analytical Method
Benzene	1	U	1	0.15	1	µg/l	6/10/2008	SW846 8021
Bromodichloromethane	1	U	1	0.50	1	µg/l	6/10/2008	SW846 8021
1,2 Dibromoethane	1	U	1	0.45	1	µg/l	6/10/2008	SW846 8021
Bromoform	10	U	10	0.89	1	µg/l	6/10/2008	SW846 8021
Carbon Tetrachoride	1	U	1	0.41	1	µg/l	6/10/2008	SW846 8021
Chlorobenzene	1	U	1	0.44	1	µg/l	6/10/2008	SW846 8021
Chloroethane	10	U	10	2.84	1	µg/l	6/10/2008	SW846 8021
Chloroform	1	U	1	0.43	1	µg/l	6/10/2008	SW846 8021
Dibromochloromethane	5	U	5	0.92	1	µg/l	6/10/2008	SW846 8021
1,2-Dichlorobenzene	1	U	1	0.37	1	µg/l	6/10/2008	SW846 8021
1,3-Dichlorobenzene	1	U	1	0.44	1	µg/l	6/10/2008	SW846 8021
1,4-Dichlorobenzene	1	U	1	0.22	1	µg/l	6/10/2008	SW846 8021
1,1-Dichloroethane	1	U	1	0.40	1	µg/l	6/10/2008	SW846 8021
1,2-Dichloroethane	1	U	1	0.38	1	µg/l	6/10/2008	SW846 8021
1,1-Dichloroethene	1	U	1	0.48	1	µg/l	6/10/2008	SW846 8021
Cis-1,2-Dichloroethene	7		1	0.45	1	µg/l	6/10/2008	SW846 8021
Trans-1,2-Dichloroethene	1	U	1	0.43	1	µg/l	6/10/2008	SW846 8021
1,2-Dichloropropane	1	U	1	0.41	1	µg/l	6/10/2008	SW846 8021
Cis-1,3-Dichloropropene	1	U	1	0.18	1	µg/l	6/10/2008	SW846 8021
Trans-1,3-Dichloropropene	1	U	1	0.36	1	µg/l	6/10/2008	SW846 8021
Ethyl benzene	1	U	1	0.38	1	µg/l	6/10/2008	SW846 8021
Methylene Chloride	1	U	1	0.46	1	µg/l	6/10/2008	SW846 8021
1,1,1,2-Tetrachloroethane	1	U	1	0.38	1	µg/l	6/10/2008	SW846 8021
1,1,2,2-Tetrachloroethane	1	U	1	0.22	1	µg/l	6/10/2008	SW846 8021
Tetrachloroethene	1	U	1	0.27	1	µg/l	6/10/2008	SW846 8021
Toluene	2	U	2	0.49	1	µg/l	6/10/2008	SW846 8021
1,1,1-Trichloroethane	2		1	0.35	1	µg/l	6/10/2008	SW846 8021
1,1,2-Trichloroethane	1	U	1	0.32	1	µg/l	6/10/2008	SW846 8021
Trichloroethene	7		1	0.36	1	µg/l	6/10/2008	SW846 8021
Vinyl Chloride	2	U	2	0.89	1	µg/l	6/10/2008	SW846 8021
Total Xylenes	3	U	3	0.41	1	µg/l	6/10/2008	SW846 8021
1,4-Bromofluorobenzene[2]	112%					% Recovery		

MATRIX ENVIRONMENTAL LLC

Mobile Lab Analytical Report
Mobile Lab ID: OH
Matrix Type: Water

PO Box 364
Galena, OH
740-965-8271

Client:	RMT	Matrix Project Number:	056-OHPL-08
Project Name:	Roscoe	Collection Date:	6/10/2008
Project Location:	Roscoe, IL	Report Date:	6/10/2008

Sample ID: BB-03-70

Analyte	Result[4]	Qualifier	RL	MDL[1]	Dilution	Units	Date Analyzed	Analytical Method
Benzene	1	U	1	0.15	1	µg/l	6/10/2008	SW846 8021
Bromodichloromethane	1	U	1	0.50	1	µg/l	6/10/2008	SW846 8021
1,2 Dibromoethane	1	U	1	0.45	1	µg/l	6/10/2008	SW846 8021
Bromoform	10	U	10	0.89	1	µg/l	6/10/2008	SW846 8021
Carbon Tetrachoride	1	U	1	0.41	1	µg/l	6/10/2008	SW846 8021
Chlorobenzene	1	U	1	0.44	1	µg/l	6/10/2008	SW846 8021
Chloroethane	10	U	10	2.84	1	µg/l	6/10/2008	SW846 8021
Chloroform	1	U	1	0.43	1	µg/l	6/10/2008	SW846 8021
Dibromochloromethane	5	U	5	0.92	1	µg/l	6/10/2008	SW846 8021
1,2-Dichlorobenzene	1	U	1	0.37	1	µg/l	6/10/2008	SW846 8021
1,3-Dichlorobenzene	1	U	1	0.44	1	µg/l	6/10/2008	SW846 8021
1,4-Dichlorobenzene	1	U	1	0.22	1	µg/l	6/10/2008	SW846 8021
1,1-Dichloroethane	1	U	1	0.40	1	µg/l	6/10/2008	SW846 8021
1,2-Dichloroethane	1	U	1	0.38	1	µg/l	6/10/2008	SW846 8021
1,1-Dichloroethene	1	U	1	0.48	1	µg/l	6/10/2008	SW846 8021
Cis-1,2-Dichloroethene	4		1	0.45	1	µg/l	6/10/2008	SW846 8021
Trans-1,2-Dichloroethene	1	U	1	0.43	1	µg/l	6/10/2008	SW846 8021
1,2-Dichloropropane	1	U	1	0.41	1	µg/l	6/10/2008	SW846 8021
Cis-1,3-Dichloropropene	1	U	1	0.18	1	µg/l	6/10/2008	SW846 8021
Trans-1,3-Dichloropropene	1	U	1	0.36	1	µg/l	6/10/2008	SW846 8021
Ethyl benzene	1	U	1	0.38	1	µg/l	6/10/2008	SW846 8021
Methylene Chloride	1	U	1	0.46	1	µg/l	6/10/2008	SW846 8021
1,1,1,2-Tetrachloroethane	1	U	1	0.38	1	µg/l	6/10/2008	SW846 8021
1,1,2,2-Tetrachloroethane	1	U	1	0.22	1	µg/l	6/10/2008	SW846 8021
Tetrachloroethene	1	U	1	0.27	1	µg/l	6/10/2008	SW846 8021
Toluene	2	U	2	0.49	1	µg/l	6/10/2008	SW846 8021
1,1,1-Trichloroethane	1		1	0.35	1	µg/l	6/10/2008	SW846 8021
1,1,2-Trichloroethane	1	U	1	0.32	1	µg/l	6/10/2008	SW846 8021
Trichloroethene	7		1	0.36	1	µg/l	6/10/2008	SW846 8021
Vinyl Chloride	2	U	2	0.89	1	µg/l	6/10/2008	SW846 8021
Total Xylenes	3	U	3	0.41	1	µg/l	6/10/2008	SW846 8021
1,4-Bromofluorobenzene[2]	100%					% Recovery		

MATRIX ENVIRONMENTAL LLC

Mobile Lab Analytical Report
Mobile Lab ID: [illegible]BH
Matrix Type: Water

PO Box 364
Galena, OH
740-965-8271

Client:	RMT	Matrix Project Number:	056-OHPL-08
Project Name:	Roscoe	Collection Date:	6/10/2008
Project Location:	Roscoe, IL	Report Date:	6/10/2008

Sample ID: BB-03-85

Analyte	Result[4]	Qualifier	RL	MDL[1]	Dilution	Units	Date Analyzed	Analytical Method
Benzene	1	U	1	0.15	1	µg/l	6/10/2008	SW846 8021
Bromodichloromethane	1	U	1	0.50	1	µg/l	6/10/2008	SW846 8021
1,2 Dibromoethane	1	U	1	0.45	1	µg/l	6/10/2008	SW846 8021
Bromoform	10	U	10	0.89	1	µg/l	6/10/2008	SW846 8021
Carbon Tetrachoride	1	U	1	0.41	1	µg/l	6/10/2008	SW846 8021
Chlorobenzene	1	U	1	0.44	1	µg/l	6/10/2008	SW846 8021
Chloroethane	10	U	10	2.84	1	µg/l	6/10/2008	SW846 8021
Chloroform	1	U	1	0.43	1	µg/l	6/10/2008	SW846 8021
Dibromochloromethane	5	U	5	0.92	1	µg/l	6/10/2008	SW846 8021
1,2-Dichlorobenzene	1	U	1	0.37	1	µg/l	6/10/2008	SW846 8021
1,3-Dichlorobenzene	1	U	1	0.44	1	µg/l	6/10/2008	SW846 8021
1,4-Dichlorobenzene	1	U	1	0.22	1	µg/l	6/10/2008	SW846 8021
1,1-Dichloroethane	1	U	1	0.40	1	µg/l	6/10/2008	SW846 8021
1,2-Dichloroethane	1	U	1	0.38	1	µg/l	6/10/2008	SW846 8021
1,1-Dichloroethene	1	U	1	0.48	1	µg/l	6/10/2008	SW846 8021
Cis-1,2-Dichloroethene	**3**		1	0.45	1	µg/l	6/10/2008	SW846 8021
Trans-1,2-Dichloroethene	1	U	1	0.43	1	µg/l	6/10/2008	SW846 8021
1,2-Dichloropropane	1	U	1	0.41	1	µg/l	6/10/2008	SW846 8021
Cis-1,3-Dichloropropene	1	U	1	0.18	1	µg/l	6/10/2008	SW846 8021
Trans-1,3-Dichloropropene	1	U	1	0.36	1	µg/l	6/10/2008	SW846 8021
Ethyl benzene	1	U	1	0.38	1	µg/l	6/10/2008	SW846 8021
Methylene Chloride	1	U	1	0.46	1	µg/l	6/10/2008	SW846 8021
1,1,1,2-Tetrachloroethane	1	U	1	0.38	1	µg/l	6/10/2008	SW846 8021
1,1,2,2-Tetrachloroethane	1	U	1	0.22	1	µg/l	6/10/2008	SW846 8021
Tetrachloroethene	1	U	1	0.27	1	µg/l	6/10/2008	SW846 8021
Toluene	2	U	2	0.49	1	µg/l	6/10/2008	SW846 8021
1,1,1-Trichloroethane	**1**		1	0.35	1	µg/l	6/10/2008	SW846 8021
1,1,2-Trichloroethane	1	U	1	0.32	1	µg/l	6/10/2008	SW846 8021
Trichloroethene	**4**		1	0.36	1	µg/l	6/10/2008	SW846 8021
Vinyl Chloride	2	U	2	0.89	1	µg/l	6/10/2008	SW846 8021
Total Xylenes	3	U	3	0.41	1	µg/l	6/10/2008	SW846 8021
1,4-Bromofluorobenzene[2]	110%					% Recovery		

MATRIX ENVIRONMENTAL LLC

Mobile Lab Analytical Report
Mobile Lab ID: OH
Matrix Type: Water

PO Box 364
Galena, OH
740-965-8271

Client:	RMT	Matrix Project Number:	056-OHPL-08
Project Name:	Roscoe	Collection Date:	6/10/2008
Project Location:	Roscoe, IL	Report Date:	6/10/2008

Sample ID: BB-04-35

Analyte	Result[4]	Qualifier	RL	MDL[1]	Dilution	Units	Date Analyzed	Analytical Method
Benzene	1	U	1	0.15	1	µg/l	6/10/2008	SW846 8021
Bromodichloromethane	1	U	1	0.50	1	µg/l	6/10/2008	SW846 8021
1,2 Dibromoethane	1	U	1	0.45	1	µg/l	6/10/2008	SW846 8021
Bromoform	10	U	10	0.89	1	µg/l	6/10/2008	SW846 8021
Carbon Tetrachoride	1	U	1	0.41	1	µg/l	6/10/2008	SW846 8021
Chlorobenzene	1	U	1	0.44	1	µg/l	6/10/2008	SW846 8021
Chloroethane	10	U	10	2.84	1	µg/l	6/10/2008	SW846 8021
Chloroform	1	U	1	0.43	1	µg/l	6/10/2008	SW846 8021
Dibromochloromethane	5	U	5	0.92	1	µg/l	6/10/2008	SW846 8021
1,2-Dichlorobenzene	1	U	1	0.37	1	µg/l	6/10/2008	SW846 8021
1,3-Dichlorobenzene	1	U	1	0.44	1	µg/l	6/10/2008	SW846 8021
1,4-Dichlorobenzene	1	U	1	0.22	1	µg/l	6/10/2008	SW846 8021
1,1-Dichloroethane	1	U	1	0.40	1	µg/l	6/10/2008	SW846 8021
1,2-Dichloroethane	1	U	1	0.38	1	µg/l	6/10/2008	SW846 8021
1,1-Dichloroethene	1	U	1	0.48	1	µg/l	6/10/2008	SW846 8021
Cis-1,2-Dichloroethene	3		1	0.45	1	µg/l	6/10/2008	SW846 8021
Trans-1,2-Dichloroethene	1	U	1	0.43	1	µg/l	6/10/2008	SW846 8021
1,2-Dichloropropane	1	U	1	0.41	1	µg/l	6/10/2008	SW846 8021
Cis-1,3-Dichloropropene	1	U	1	0.18	1	µg/l	6/10/2008	SW846 8021
Trans-1,3-Dichloropropene	1	U	1	0.36	1	µg/l	6/10/2008	SW846 8021
Ethyl benzene	1	U	1	0.38	1	µg/l	6/10/2008	SW846 8021
Methylene Chloride	1	U	1	0.46	1	µg/l	6/10/2008	SW846 8021
1,1,1,2-Tetrachloroethane	1	U	1	0.38	1	µg/l	6/10/2008	SW846 8021
1,1,2,2-Tetrachloroethane	1	U	1	0.22	1	µg/l	6/10/2008	SW846 8021
Tetrachloroethene	1	U	1	0.27	1	µg/l	6/10/2008	SW846 8021
Toluene	2	U	2	0.49	1	µg/l	6/10/2008	SW846 8021
1,1,1-Trichloroethane	1	U	1	0.35	1	µg/l	6/10/2008	SW846 8021
1,1,2-Trichloroethane	1	U	1	0.32	1	µg/l	6/10/2008	SW846 8021
Trichloroethene	6		1	0.36	1	µg/l	6/10/2008	SW846 8021
Vinyl Chloride	2	U	2	0.89	1	µg/l	6/10/2008	SW846 8021
Total Xylenes	3	U	3	0.41	1	µg/l	6/10/2008	SW846 8021
1,4-Bromofluorobenzene[2]	112%					% Recovery		

MATRIX ENVIRONMENTAL LLC

Mobile Lab Analytical Report
Mobile Lab ID: OH
Matrix Type: Water

PO Box 364
Galena, OH
740-965-8271

Client:	RMT	Matrix Project Number:	056-OHPL-08
Project Name:	Roscoe	Collection Date:	6/10/2008
Project Location:	Roscoe, IL	Report Date:	6/10/2008

Sample ID: BB-04-50

Analyte	Result[4]	Qualifier	RL	MDL[1]	Dilution	Units	Date Analyzed	Analytical Method
Benzene	1	U	1	0.15	1	µg/l	6/10/2008	SW846 8021
Bromodichloromethane	1	U	1	0.50	1	µg/l	6/10/2008	SW846 8021
1,2 Dibromoethane	1	U	1	0.45	1	µg/l	6/10/2008	SW846 8021
Bromoform	10	U	10	0.89	1	µg/l	6/10/2008	SW846 8021
Carbon Tetrachoride	1	U	1	0.41	1	µg/l	6/10/2008	SW846 8021
Chlorobenzene	1	U	1	0.44	1	µg/l	6/10/2008	SW846 8021
Chloroethane	10	U	10	2.84	1	µg/l	6/10/2008	SW846 8021
Chloroform	1	U	1	0.43	1	µg/l	6/10/2008	SW846 8021
Dibromochloromethane	5	U	5	0.92	1	µg/l	6/10/2008	SW846 8021
1,2-Dichlorobenzene	1	U	1	0.37	1	µg/l	6/10/2008	SW846 8021
1,3-Dichlorobenzene	1	U	1	0.44	1	µg/l	6/10/2008	SW846 8021
1,4-Dichlorobenzene	1	U	1	0.22	1	µg/l	6/10/2008	SW846 8021
1,1-Dichloroethane	1	U	1	0.40	1	µg/l	6/10/2008	SW846 8021
1,2-Dichloroethane	1	U	1	0.38	1	µg/l	6/10/2008	SW846 8021
1,1-Dichloroethene	1	U	1	0.48	1	µg/l	6/10/2008	SW846 8021
Cis-1,2-Dichloroethene	**5**		1	0.45	1	µg/l	6/10/2008	SW846 8021
Trans-1,2-Dichloroethene	1	U	1	0.43	1	µg/l	6/10/2008	SW846 8021
1,2-Dichloropropane	1	U	1	0.41	1	µg/l	6/10/2008	SW846 8021
Cis-1,3-Dichloropropene	1	U	1	0.18	1	µg/l	6/10/2008	SW846 8021
Trans-1,3-Dichloropropene	1	U	1	0.36	1	µg/l	6/10/2008	SW846 8021
Ethyl benzene	1	U	1	0.38	1	µg/l	6/10/2008	SW846 8021
Methylene Chloride	1	U	1	0.46	1	µg/l	6/10/2008	SW846 8021
1,1,1,2-Tetrachloroethane	1	U	1	0.38	1	µg/l	6/10/2008	SW846 8021
1,1,2,2-Tetrachloroethane	1	U	1	0.22	1	µg/l	6/10/2008	SW846 8021
Tetrachloroethene	1	U	1	0.27	1	µg/l	6/10/2008	SW846 8021
Toluene	2	U	2	0.49	1	µg/l	6/10/2008	SW846 8021
1,1,1-Trichloroethane	**1**		1	0.35	1	µg/l	6/10/2008	SW846 8021
1,1,2-Trichloroethane	1	U	1	0.32	1	µg/l	6/10/2008	SW846 8021
Trichloroethene	**10**		1	0.36	1	µg/l	6/10/2008	SW846 8021
Vinyl Chloride	2	U	2	0.89	1	µg/l	6/10/2008	SW846 8021
Total Xylenes	3	U	3	0.41	1	µg/l	6/10/2008	SW846 8021
1,4-Bromofluorobenzene[2]	115%					% Recovery		

MATRIX ENVIRONMENTAL LLC

Mobile Lab Analytical Report
Mobile Lab ID: OH
Matrix Type: Water

PO Box 364
Galena, OH
740-965-8271

Client:	RMT	Matrix Project Number:	056-OHPL-08
Project Name:	Roscoe	Collection Date:	6/10/2008
Project Location:	Roscoe, IL	Report Date:	6/10/2008

Sample ID: BB-04-70

Analyte	Result[4]	Qualifier	RL	MDL[1]	Dilution	Units	Date Analyzed	Analytical Method
Benzene	1	U	1	0.15	1	µg/l	6/10/2008	SW846 8021
Bromodichloromethane	1	U	1	0.50	1	µg/l	6/10/2008	SW846 8021
1,2 Dibromoethane	1	U	1	0.45	1	µg/l	6/10/2008	SW846 8021
Bromoform	10	U	10	0.89	1	µg/l	6/10/2008	SW846 8021
Carbon Tetrachoride	1	U	1	0.41	1	µg/l	6/10/2008	SW846 8021
Chlorobenzene	1	U	1	0.44	1	µg/l	6/10/2008	SW846 8021
Chloroethane	10	U	10	2.84	1	µg/l	6/10/2008	SW846 8021
Chloroform	1	U	1	0.43	1	µg/l	6/10/2008	SW846 8021
Dibromochloromethane	5	U	5	0.92	1	µg/l	6/10/2008	SW846 8021
1,2-Dichlorobenzene	1	U	1	0.37	1	µg/l	6/10/2008	SW846 8021
1,3-Dichlorobenzene	1	U	1	0.44	1	µg/l	6/10/2008	SW846 8021
1,4-Dichlorobenzene	1	U	1	0.22	1	µg/l	6/10/2008	SW846 8021
1,1-Dichloroethane	1	U	1	0.40	1	µg/l	6/10/2008	SW846 8021
1,2-Dichloroethane	1	U	1	0.38	1	µg/l	6/10/2008	SW846 8021
1,1-Dichloroethene	1	U	1	0.48	1	µg/l	6/10/2008	SW846 8021
Cis-1,2-Dichloroethene	**11**		1	0.45	1	µg/l	6/10/2008	SW846 8021
Trans-1,2-Dichloroethene	1	U	1	0.43	1	µg/l	6/10/2008	SW846 8021
1,2-Dichloropropane	1	U	1	0.41	1	µg/l	6/10/2008	SW846 8021
Cis-1,3-Dichloropropene	1	U	1	0.18	1	µg/l	6/10/2008	SW846 8021
Trans-1,3-Dichloropropene	1	U	1	0.36	1	µg/l	6/10/2008	SW846 8021
Ethyl benzene	1	U	1	0.38	1	µg/l	6/10/2008	SW846 8021
Methylene Chloride	1	U	1	0.46	1	µg/l	6/10/2008	SW846 8021
1,1,1,2-Tetrachloroethane	1	U	1	0.38	1	µg/l	6/10/2008	SW846 8021
1,1,2,2-Tetrachloroethane	1	U	1	0.22	1	µg/l	6/10/2008	SW846 8021
Tetrachloroethene	1	U	1	0.27	1	µg/l	6/10/2008	SW846 8021
Toluene	2	U	2	0.49	1	µg/l	6/10/2008	SW846 8021
1,1,1-Trichloroethane	**1**		1	0.35	1	µg/l	6/10/2008	SW846 8021
1,1,2-Trichloroethane	1	U	1	0.32	1	µg/l	6/10/2008	SW846 8021
Trichloroethene	**18**		1	0.36	1	µg/l	6/10/2008	SW846 8021
Vinyl Chloride	2	U	2	0.89	1	µg/l	6/10/2008	SW846 8021
Total Xylenes	3	U	3	0.41	1	µg/l	6/10/2008	SW846 8021
1,4-Bromofluorobenzene[2]	99%					% Recovery		

MATRIX ENVIRONMENTAL LLC

Mobile Lab Analytical Report
Mobile Lab ID: OH
Matrix Type: Water

PO Box 364
Galena, OH
740-965-8271

Client:	RMT	Matrix Project Number:	056-OHPL-08
Project Name:	Roscoe	Collection Date:	6/10/2008
Project Location:	Roscoe, IL	Report Date:	6/10/2008

Sample ID: BB-05-35

Analyte	Result[4]	Qualifier	RL	MDL[1]	Dilution	Units	Date Analyzed	Analytical Method
Benzene	1	U	1	0.15	1	µg/l	6/10/2008	SW846 8021
Bromodichloromethane	1	U	1	0.50	1	µg/l	6/10/2008	SW846 8021
1,2 Dibromoethane	1	U	1	0.45	1	µg/l	6/10/2008	SW846 8021
Bromoform	10	U	10	0.89	1	µg/l	6/10/2008	SW846 8021
Carbon Tetrachoride	1	U	1	0.41	1	µg/l	6/10/2008	SW846 8021
Chlorobenzene	1	U	1	0.44	1	µg/l	6/10/2008	SW846 8021
Chloroethane	10	U	10	2.84	1	µg/l	6/10/2008	SW846 8021
Chloroform	1	U	1	0.43	1	µg/l	6/10/2008	SW846 8021
Dibromochloromethane	5	U	5	0.92	1	µg/l	6/10/2008	SW846 8021
1,2-Dichlorobenzene	1	U	1	0.37	1	µg/l	6/10/2008	SW846 8021
1,3-Dichlorobenzene	1	U	1	0.44	1	µg/l	6/10/2008	SW846 8021
1,4-Dichlorobenzene	1	U	1	0.22	1	µg/l	6/10/2008	SW846 8021
1,1-Dichloroethane	1	U	1	0.40	1	µg/l	6/10/2008	SW846 8021
1,2-Dichloroethane	1	U	1	0.38	1	µg/l	6/10/2008	SW846 8021
1,1-Dichloroethene	1	U	1	0.48	1	µg/l	6/10/2008	SW846 8021
Cis-1,2-Dichloroethene	1		1	0.45	1	µg/l	6/10/2008	SW846 8021
Trans-1,2-Dichloroethene	1	U	1	0.43	1	µg/l	6/10/2008	SW846 8021
1,2-Dichloropropane	1	U	1	0.41	1	µg/l	6/10/2008	SW846 8021
Cis-1,3-Dichloropropene	1	U	1	0.18	1	µg/l	6/10/2008	SW846 8021
Trans-1,3-Dichloropropene	1	U	1	0.36	1	µg/l	6/10/2008	SW846 8021
Ethyl benzene	1	U	1	0.38	1	µg/l	6/10/2008	SW846 8021
Methylene Chloride	1	U	1	0.46	1	µg/l	6/10/2008	SW846 8021
1,1,1,2-Tetrachloroethane	1	U	1	0.38	1	µg/l	6/10/2008	SW846 8021
1,1,2,2-Tetrachloroethane	1	U	1	0.22	1	µg/l	6/10/2008	SW846 8021
Tetrachloroethene	1	U	1	0.27	1	µg/l	6/10/2008	SW846 8021
Toluene	2	U	2	0.49	1	µg/l	6/10/2008	SW846 8021
1,1,1-Trichloroethane	1	U	1	0.35	1	µg/l	6/10/2008	SW846 8021
1,1,2-Trichloroethane	1	U	1	0.32	1	µg/l	6/10/2008	SW846 8021
Trichloroethene	4		1	0.36	1	µg/l	6/10/2008	SW846 8021
Vinyl Chloride	2	U	2	0.89	1	µg/l	6/10/2008	SW846 8021
Total Xylenes	3	U	3	0.41	1	µg/l	6/10/2008	SW846 8021
1,4-Bromofluorobenzene[2]	113%					% Recovery		

MATRIX ENVIRONMENTAL LLC

Mobile Lab Analytical Report
Mobile Lab ID: [redacted]OH
Matrix Type: Water

PO Box 364
Galena, OH
740-965-8271

Client:	RMT	Matrix Project Number:	056-OHPL-08
Project Name:	Roscoe	Collection Date:	6/10/2008
Project Location:	Roscoe, IL	Report Date:	6/10/2008

Sample ID: BB-05-50

Analyte	Result[4]	Qualifier	RL	MDL[1]	Dilution	Units	Date Analyzed	Analytical Method
Benzene	1	U	1	0.15	1	µg/l	6/10/2008	SW846 8021
Bromodichloromethane	1	U	1	0.50	1	µg/l	6/10/2008	SW846 8021
1,2 Dibromoethane	1	U	1	0.45	1	µg/l	6/10/2008	SW846 8021
Bromoform	10	U	10	0.89	1	µg/l	6/10/2008	SW846 8021
Carbon Tetrachoride	1	U	1	0.41	1	µg/l	6/10/2008	SW846 8021
Chlorobenzene	1	U	1	0.44	1	µg/l	6/10/2008	SW846 8021
Chloroethane	10	U	10	2.84	1	µg/l	6/10/2008	SW846 8021
Chloroform	1	U	1	0.43	1	µg/l	6/10/2008	SW846 8021
Dibromochloromethane	5	U	5	0.92	1	µg/l	6/10/2008	SW846 8021
1,2-Dichlorobenzene	1	U	1	0.37	1	µg/l	6/10/2008	SW846 8021
1,3-Dichlorobenzene	1	U	1	0.44	1	µg/l	6/10/2008	SW846 8021
1,4-Dichlorobenzene	1	U	1	0.22	1	µg/l	6/10/2008	SW846 8021
1,1-Dichloroethane	1	U	1	0.40	1	µg/l	6/10/2008	SW846 8021
1,2-Dichloroethane	1	U	1	0.38	1	µg/l	6/10/2008	SW846 8021
1,1-Dichloroethene	1	U	1	0.48	1	µg/l	6/10/2008	SW846 8021
Cis-1,2-Dichloroethene	**6**		1	0.45	1	µg/l	6/10/2008	SW846 8021
Trans-1,2-Dichloroethene	1	U	1	0.43	1	µg/l	6/10/2008	SW846 8021
1,2-Dichloropropane	1	U	1	0.41	1	µg/l	6/10/2008	SW846 8021
Cis-1,3-Dichloropropene	1	U	1	0.18	1	µg/l	6/10/2008	SW846 8021
Trans-1,3-Dichloropropene	1	U	1	0.36	1	µg/l	6/10/2008	SW846 8021
Ethyl benzene	1	U	1	0.38	1	µg/l	6/10/2008	SW846 8021
Methylene Chloride	1	U	1	0.46	1	µg/l	6/10/2008	SW846 8021
1,1,1,2-Tetrachloroethane	1	U	1	0.38	1	µg/l	6/10/2008	SW846 8021
1,1,2,2-Tetrachloroethane	1	U	1	0.22	1	µg/l	6/10/2008	SW846 8021
Tetrachloroethene	1	U	1	0.27	1	µg/l	6/10/2008	SW846 8021
Toluene	2	U	2	0.49	1	µg/l	6/10/2008	SW846 8021
1,1,1-Trichloroethane	1	U	1	0.35	1	µg/l	6/10/2008	SW846 8021
1,1,2-Trichloroethane	1	U	1	0.32	1	µg/l	6/10/2008	SW846 8021
Trichloroethene	**14**		1	0.36	1	µg/l	6/10/2008	SW846 8021
Vinyl Chloride	2	U	2	0.89	1	µg/l	6/10/2008	SW846 8021
Total Xylenes	3	U	3	0.41	1	µg/l	6/10/2008	SW846 8021
1,4-Bromofluorobenzene[2]	115%					% Recovery		

MATRIX ENVIRONMENTAL LLC

Mobile Lab Volatile Organics Report
Mobile Lab ID: [illegible]OH
Matrix Type: Water

PO Box 364
Galena, OH
740-965-8271

Client:	RMT	Matrix Project Number:	056-OHPL-08
Project Name:	Roscoe	Collection Date:	6/10/2008
Project Location:	Roscoe, IL	Report Date:	6/10/2008

Sample ID: BB-05-70

Analyte	Result[4]	Qualifier	RL	MDL[1]	Dilution	Units	Date Analyzed	Analytical Method
Benzene	1	U	1	0.15	1	µg/l	6/10/2008	SW846 8021
Bromodichloromethane	1	U	1	0.50	1	µg/l	6/10/2008	SW846 8021
1,2 Dibromoethane	1	U	1	0.45	1	µg/l	6/10/2008	SW846 8021
Bromoform	10	U	10	0.89	1	µg/l	6/10/2008	SW846 8021
Carbon Tetrachoride	1	U	1	0.41	1	µg/l	6/10/2008	SW846 8021
Chlorobenzene	1	U	1	0.44	1	µg/l	6/10/2008	SW846 8021
Chloroethane	10	U	10	2.84	1	µg/l	6/10/2008	SW846 8021
Chloroform	1	U	1	0.43	1	µg/l	6/10/2008	SW846 8021
Dibromochloromethane	5	U	5	0.92	1	µg/l	6/10/2008	SW846 8021
1,2-Dichlorobenzene	1	U	1	0.37	1	µg/l	6/10/2008	SW846 8021
1,3-Dichlorobenzene	1	U	1	0.44	1	µg/l	6/10/2008	SW846 8021
1,4-Dichlorobenzene	1	U	1	0.22	1	µg/l	6/10/2008	SW846 8021
1,1-Dichloroethane	1	U	1	0.40	1	µg/l	6/10/2008	SW846 8021
1,2-Dichloroethane	1	U	1	0.38	1	µg/l	6/10/2008	SW846 8021
1,1-Dichloroethene	1	U	1	0.48	1	µg/l	6/10/2008	SW846 8021
Cis-1,2-Dichloroethene	**13**		1	0.45	1	µg/l	6/10/2008	SW846 8021
Trans-1,2-Dichloroethene	1	U	1	0.43	1	µg/l	6/10/2008	SW846 8021
1,2-Dichloropropane	1	U	1	0.41	1	µg/l	6/10/2008	SW846 8021
Cis-1,3-Dichloropropene	1	U	1	0.18	1	µg/l	6/10/2008	SW846 8021
Trans-1,3-Dichloropropene	1	U	1	0.36	1	µg/l	6/10/2008	SW846 8021
Ethyl benzene	1	U	1	0.38	1	µg/l	6/10/2008	SW846 8021
Methylene Chloride	1	U	1	0.46	1	µg/l	6/10/2008	SW846 8021
1,1,1,2-Tetrachloroethane	1	U	1	0.38	1	µg/l	6/10/2008	SW846 8021
1,1,2,2-Tetrachloroethane	1	U	1	0.22	1	µg/l	6/10/2008	SW846 8021
Tetrachloroethene	1	U	1	0.27	1	µg/l	6/10/2008	SW846 8021
Toluene	2	U	2	0.49	1	µg/l	6/10/2008	SW846 8021
1,1,1-Trichloroethane	1	U	1	0.35	1	µg/l	6/10/2008	SW846 8021
1,1,2-Trichloroethane	1	U	1	0.32	1	µg/l	6/10/2008	SW846 8021
Trichloroethene	**21**		1	0.36	1	µg/l	6/10/2008	SW846 8021
Vinyl Chloride	2	U	2	0.89	1	µg/l	6/10/2008	SW846 8021
Total Xylenes	3	U	3	0.41	1	µg/l	6/10/2008	SW846 8021
1,4-Bromofluorobenzene[2]	105%					% Recovery		

MATRIX ENVIRONMENTAL LLC

Mobile Lab Analytical Report
Mobile Lab ID: [illegible]H
Matrix Type: Water

PO Box 364
Galena, OH
740-965-8271

Client:	RMT	Matrix Project Number:	056-OHPL-08
Project Name:	Roscoe	Collection Date:	6/10/2008
Project Location:	Roscoe, IL	Report Date:	6/10/2008

Sample ID: BB-05-70 Duplicate

Analyte	Result[4]	Qualifier	RL	MDL[1]	Dilution	Units	Date Analyzed	Analytical Method
Benzene	1	U	1	0.15	1	µg/l	6/10/2008	SW846 8021
Bromodichloromethane	1	U	1	0.50	1	µg/l	6/10/2008	SW846 8021
1,2 Dibromoethane	1	U	1	0.45	1	µg/l	6/10/2008	SW846 8021
Bromoform	10	U	10	0.89	1	µg/l	6/10/2008	SW846 8021
Carbon Tetrachoride	1	U	1	0.41	1	µg/l	6/10/2008	SW846 8021
Chlorobenzene	1	U	1	0.44	1	µg/l	6/10/2008	SW846 8021
Chloroethane	10	U	10	2.84	1	µg/l	6/10/2008	SW846 8021
Chloroform	1	U	1	0.43	1	µg/l	6/10/2008	SW846 8021
Dibromochloromethane	5	U	5	0.92	1	µg/l	6/10/2008	SW846 8021
1,2-Dichlorobenzene	1	U	1	0.37	1	µg/l	6/10/2008	SW846 8021
1,3-Dichlorobenzene	1	U	1	0.44	1	µg/l	6/10/2008	SW846 8021
1,4-Dichlorobenzene	1	U	1	0.22	1	µg/l	6/10/2008	SW846 8021
1,1-Dichloroethane	1	U	1	0.40	1	µg/l	6/10/2008	SW846 8021
1,2-Dichloroethane	1	U	1	0.38	1	µg/l	6/10/2008	SW846 8021
1,1-Dichloroethene	1	U	1	0.48	1	µg/l	6/10/2008	SW846 8021
Cis-1,2-Dichloroethene	**13**		1	0.45	1	µg/l	6/10/2008	SW846 8021
Trans-1,2-Dichloroethene	1	U	1	0.43	1	µg/l	6/10/2008	SW846 8021
1,2-Dichloropropane	1	U	1	0.41	1	µg/l	6/10/2008	SW846 8021
Cis-1,3-Dichloropropene	1	U	1	0.18	1	µg/l	6/10/2008	SW846 8021
Trans-1,3-Dichloropropene	1	U	1	0.36	1	µg/l	6/10/2008	SW846 8021
Ethyl benzene	1	U	1	0.38	1	µg/l	6/10/2008	SW846 8021
Methylene Chloride	1	U	1	0.46	1	µg/l	6/10/2008	SW846 8021
1,1,1,2-Tetrachloroethane	1	U	1	0.38	1	µg/l	6/10/2008	SW846 8021
1,1,2,2-Tetrachloroethane	1	U	1	0.22	1	µg/l	6/10/2008	SW846 8021
Tetrachloroethene	1	U	1	0.27	1	µg/l	6/10/2008	SW846 8021
Toluene	2	U	2	0.49	1	µg/l	6/10/2008	SW846 8021
1,1,1-Trichloroethane	1	U	1	0.35	1	µg/l	6/10/2008	SW846 8021
1,1,2-Trichloroethane	1	U	1	0.32	1	µg/l	6/10/2008	SW846 8021
Trichloroethene	**21**		1	0.36	1	µg/l	6/10/2008	SW846 8021
Vinyl Chloride	2	U	2	0.89	1	µg/l	6/10/2008	SW846 8021
Total Xylenes	3	U	3	0.41	1	µg/l	6/10/2008	SW846 8021
1,4-Bromofluorobenzene[2]	104%					% Recovery		

MATRIX ENVIRONMENTAL LLC

Mobile Lab Analytical Report
Mobile Lab ID: [illegible]OH
Matrix Type: Water

PO Box 364
Galena, OH
740-965-8271

Client:	RMT	Matrix Project Number:	056-OHPL-08
Project Name:	Roscoe	Collection Date:	6/10/2008
Project Location:	Roscoe, IL	Report Date:	6/10/2008

Sample ID: BB-06-35

Analyte	Result[1]	Qualifier	RL	MDL[1]	Dilution	Units	Date Analyzed	Analytical Method
Benzene	1	U	1	0.15	1	µg/l	6/10/2008	SW846 8021
Bromodichloromethane	1	U	1	0.50	1	µg/l	6/10/2008	SW846 8021
1,2 Dibromoethane	1	U	1	0.45	1	µg/l	6/10/2008	SW846 8021
Bromoform	10	U	10	0.89	1	µg/l	6/10/2008	SW846 8021
Carbon Tetrachoride	1	U	1	0.41	1	µg/l	6/10/2008	SW846 8021
Chlorobenzene	1	U	1	0.44	1	µg/l	6/10/2008	SW846 8021
Chloroethane	10	U	10	2.84	1	µg/l	6/10/2008	SW846 8021
Chloroform	1	U	1	0.43	1	µg/l	6/10/2008	SW846 8021
Dibromochloromethane	5	U	5	0.92	1	µg/l	6/10/2008	SW846 8021
1,2-Dichlorobenzene	1	U	1	0.37	1	µg/l	6/10/2008	SW846 8021
1,3-Dichlorobenzene	1	U	1	0.44	1	µg/l	6/10/2008	SW846 8021
1,4-Dichlorobenzene	1	U	1	0.22	1	µg/l	6/10/2008	SW846 8021
1,1-Dichloroethane	1	U	1	0.40	1	µg/l	6/10/2008	SW846 8021
1,2-Dichloroethane	1	U	1	0.38	1	µg/l	6/10/2008	SW846 8021
1,1-Dichloroethene	1	U	1	0.48	1	µg/l	6/10/2008	SW846 8021
Cis-1,2-Dichloroethene	1	U	1	0.45	1	µg/l	6/10/2008	SW846 8021
Trans-1,2-Dichloroethene	1	U	1	0.43	1	µg/l	6/10/2008	SW846 8021
1,2-Dichloropropane	1	U	1	0.41	1	µg/l	6/10/2008	SW846 8021
Cis-1,3-Dichloropropene	1	U	1	0.18	1	µg/l	6/10/2008	SW846 8021
Trans-1,3-Dichloropropene	1	U	1	0.36	1	µg/l	6/10/2008	SW846 8021
Ethyl benzene	1	U	1	0.38	1	µg/l	6/10/2008	SW846 8021
Methylene Chloride	1	U	1	0.46	1	µg/l	6/10/2008	SW846 8021
1,1,1,2-Tetrachloroethane	1	U	1	0.38	1	µg/l	6/10/2008	SW846 8021
1,1,2,2-Tetrachloroethane	1	U	1	0.22	1	µg/l	6/10/2008	SW846 8021
Tetrachloroethene	1	U	1	0.27	1	µg/l	6/10/2008	SW846 8021
Toluene	2	U	2	0.49	1	µg/l	6/10/2008	SW846 8021
1,1,1-Trichloroethane	1	U	1	0.35	1	µg/l	6/10/2008	SW846 8021
1,1,2-Trichloroethane	1	U	1	0.32	1	µg/l	6/10/2008	SW846 8021
Trichloroethene	1	U	1	0.36	1	µg/l	6/10/2008	SW846 8021
Vinyl Chloride	2	U	2	0.89	1	µg/l	6/10/2008	SW846 8021
Total Xylenes	3	U	3	0.41	1	µg/l	6/10/2008	SW846 8021
1,4-Bromofluorobenzene[2]	112%					% Recovery		

MATRIX ENVIRONMENTAL LLC

Mobile Lab Analytical Report
Mobile Lab ID: OH
Matrix Type: Water

PO Box 364
Galena, OH
740-965-8271

Client:	RMT	Matrix Project Number:	056-OHPL-08
Project Name:	Roscoe	Collection Date:	6/10/2008
Project Location:	Roscoe, IL	Report Date:	6/10/2008

Sample ID: BB-06-50

Analyte	Result[4]	Qualifier	RL	MDL[1]	Dilution	Units	Date Analyzed	Analytical Method
Benzene	1	U	1	0.15	1	µg/l	6/10/2008	SW846 8021
Bromodichloromethane	1	U	1	0.50	1	µg/l	6/10/2008	SW846 8021
1,2 Dibromoethane	1	U	1	0.45	1	µg/l	6/10/2008	SW846 8021
Bromoform	10	U	10	0.89	1	µg/l	6/10/2008	SW846 8021
Carbon Tetrachoride	1	U	1	0.41	1	µg/l	6/10/2008	SW846 8021
Chlorobenzene	1	U	1	0.44	1	µg/l	6/10/2008	SW846 8021
Chloroethane	10	U	10	2.84	1	µg/l	6/10/2008	SW846 8021
Chloroform	1	U	1	0.43	1	µg/l	6/10/2008	SW846 8021
Dibromochloromethane	5	U	5	0.92	1	µg/l	6/10/2008	SW846 8021
1,2-Dichlorobenzene	1	U	1	0.37	1	µg/l	6/10/2008	SW846 8021
1,3-Dichlorobenzene	1	U	1	0.44	1	µg/l	6/10/2008	SW846 8021
1,4-Dichlorobenzene	1	U	1	0.22	1	µg/l	6/10/2008	SW846 8021
1,1-Dichloroethane	1	U	1	0.40	1	µg/l	6/10/2008	SW846 8021
1,2-Dichloroethane	1	U	1	0.38	1	µg/l	6/10/2008	SW846 8021
1,1-Dichloroethene	1	U	1	0.48	1	µg/l	6/10/2008	SW846 8021
Cis-1,2-Dichloroethene	1	U	1	0.45	1	µg/l	6/10/2008	SW846 8021
Trans-1,2-Dichloroethene	1	U	1	0.43	1	µg/l	6/10/2008	SW846 8021
1,2-Dichloropropane	1	U	1	0.41	1	µg/l	6/10/2008	SW846 8021
Cis-1,3-Dichloropropene	1	U	1	0.18	1	µg/l	6/10/2008	SW846 8021
Trans-1,3-Dichloropropene	1	U	1	0.36	1	µg/l	6/10/2008	SW846 8021
Ethyl benzene	1	U	1	0.38	1	µg/l	6/10/2008	SW846 8021
Methylene Chloride	1	U	1	0.46	1	µg/l	6/10/2008	SW846 8021
1,1,1,2-Tetrachloroethane	1	U	1	0.38	1	µg/l	6/10/2008	SW846 8021
1,1,2,2-Tetrachloroethane	1	U	1	0.22	1	µg/l	6/10/2008	SW846 8021
Tetrachloroethene	1	U	1	0.27	1	µg/l	6/10/2008	SW846 8021
Toluene	2	U	2	0.49	1	µg/l	6/10/2008	SW846 8021
1,1,1-Trichloroethane	1	U	1	0.35	1	µg/l	6/10/2008	SW846 8021
1,1,2-Trichloroethane	1	U	1	0.32	1	µg/l	6/10/2008	SW846 8021
Trichloroethene	2		1	0.36	1	µg/l	6/10/2008	SW846 8021
Vinyl Chloride	2	U	2	0.89	1	µg/l	6/10/2008	SW846 8021
Total Xylenes	3	U	3	0.41	1	µg/l	6/10/2008	SW846 8021
1,4-Bromofluorobenzene[2]	110%					% Recovery		

MATRIX ENVIRONMENTAL LLC

Mobile Lab Analytical Report
Mobile Lab ID: OH
Matrix Type: Water

PO Box 364
Galena, OH
740-965-8271

Client:	RMT	Matrix Project Number:	056-OHPL-08
Project Name:	Roscoe	Collection Date:	6/10/2008
Project Location:	Roscoe, IL	Report Date:	6/10/2008

Sample ID: BB-06-70

Analyte	Result[4]	Qualifier	RL	MDL[1]	Dilution	Units	Date Analyzed	Analytical Method
Benzene	1	U	1	0.15	1	µg/l	6/10/2008	SW846 8021
Bromodichloromethane	1	U	1	0.50	1	µg/l	6/10/2008	SW846 8021
1,2 Dibromoethane	1	U	1	0.45	1	µg/l	6/10/2008	SW846 8021
Bromoform	10	U	10	0.89	1	µg/l	6/10/2008	SW846 8021
Carbon Tetrachoride	1	U	1	0.41	1	µg/l	6/10/2008	SW846 8021
Chlorobenzene	1	U	1	0.44	1	µg/l	6/10/2008	SW846 8021
Chloroethane	10	U	10	2.84	1	µg/l	6/10/2008	SW846 8021
Chloroform	1	U	1	0.43	1	µg/l	6/10/2008	SW846 8021
Dibromochloromethane	5	U	5	0.92	1	µg/l	6/10/2008	SW846 8021
1,2-Dichlorobenzene	1	U	1	0.37	1	µg/l	6/10/2008	SW846 8021
1,3-Dichlorobenzene	1	U	1	0.44	1	µg/l	6/10/2008	SW846 8021
1,4-Dichlorobenzene	1	U	1	0.22	1	µg/l	6/10/2008	SW846 8021
1,1-Dichloroethane	1	U	1	0.40	1	µg/l	6/10/2008	SW846 8021
1,2-Dichloroethane	1	U	1	0.38	1	µg/l	6/10/2008	SW846 8021
1,1-Dichloroethene	1	U	1	0.48	1	µg/l	6/10/2008	SW846 8021
Cis-1,2-Dichloroethene	**2**		1	0.45	1	µg/l	6/10/2008	SW846 8021
Trans-1,2-Dichloroethene	1	U	1	0.43	1	µg/l	6/10/2008	SW846 8021
1,2-Dichloropropane	1	U	1	0.41	1	µg/l	6/10/2008	SW846 8021
Cis-1,3-Dichloropropene	1	U	1	0.18	1	µg/l	6/10/2008	SW846 8021
Trans-1,3-Dichloropropene	1	U	1	0.36	1	µg/l	6/10/2008	SW846 8021
Ethyl benzene	1	U	1	0.38	1	µg/l	6/10/2008	SW846 8021
Methylene Chloride	1	U	1	0.46	1	µg/l	6/10/2008	SW846 8021
1,1,1,2-Tetrachloroethane	1	U	1	0.38	1	µg/l	6/10/2008	SW846 8021
1,1,2,2-Tetrachloroethane	1	U	1	0.22	1	µg/l	6/10/2008	SW846 8021
Tetrachloroethene	1	U	1	0.27	1	µg/l	6/10/2008	SW846 8021
Toluene	2	U	2	0.49	1	µg/l	6/10/2008	SW846 8021
1,1,1-Trichloroethane	1	U	1	0.35	1	µg/l	6/10/2008	SW846 8021
1,1,2-Trichloroethane	1	U	1	0.32	1	µg/l	6/10/2008	SW846 8021
Trichloroethene	**2**		1	0.36	1	µg/l	6/10/2008	SW846 8021
Vinyl Chloride	2	U	2	0.89	1	µg/l	6/10/2008	SW846 8021
Total Xylenes	3	U	3	0.41	1	µg/l	6/10/2008	SW846 8021
1,4-Bromofluorobenzene[2]	106%					% Recovery		

MATRIX ENVIRONMENTAL LLC

Mobile Lab Analytical Report
Mobile Lab ID: OH
Matrix Type: Water

PO Box 364
Galena, OH
740-965-8271

Client:	RMT	Matrix Project Number:	056-OHPL-08
Project Name:	Roscoe	Collection Date:	6/9/2008
Project Location:	Roscoe, IL	Report Date:	6/9/2008

Sample ID: CC-01-20

Analyte	Result[4]	Qualifier	RL	MDL[1]	Dilution	Units	Date Analyzed	Analytical Method
Benzene	1	U	1	0.15	1	µg/l	6/9/2008	SW846 8021
Bromodichloromethane	1	U	1	0.50	1	µg/l	6/9/2008	SW846 8021
1,2 Dibromoethane	1	U	1	0.45	1	µg/l	6/9/2008	SW846 8021
Bromoform	10	U	10	0.89	1	µg/l	6/9/2008	SW846 8021
Carbon Tetrachoride	1	U	1	0.41	1	µg/l	6/9/2008	SW846 8021
Chlorobenzene	1	U	1	0.44	1	µg/l	6/9/2008	SW846 8021
Chloroethane	10	U	10	2.84	1	µg/l	6/9/2008	SW846 8021
Chloroform	1	U	1	0.43	1	µg/l	6/9/2008	SW846 8021
Dibromochloromethane	5	U	5	0.92	1	µg/l	6/9/2008	SW846 8021
1,2-Dichlorobenzene	1	U	1	0.37	1	µg/l	6/9/2008	SW846 8021
1,3-Dichlorobenzene	1	U	1	0.44	1	µg/l	6/9/2008	SW846 8021
1,4-Dichlorobenzene	1	U	1	0.22	1	µg/l	6/9/2008	SW846 8021
1,1-Dichloroethane	1	U	1	0.40	1	µg/l	6/9/2008	SW846 8021
1,2-Dichloroethane	1	U	1	0.38	1	µg/l	6/9/2008	SW846 8021
1,1-Dichloroethene	1	U	1	0.48	1	µg/l	6/9/2008	SW846 8021
Cis-1,2-Dichloroethene	4		1	0.45	1	µg/l	6/9/2008	SW846 8021
Trans-1,2-Dichloroethene	1	U	1	0.43	1	µg/l	6/9/2008	SW846 8021
1,2-Dichloropropane	1	U	1	0.41	1	µg/l	6/9/2008	SW846 8021
Cis-1,3-Dichloropropene	1	U	1	0.18	1	µg/l	6/9/2008	SW846 8021
Trans-1,3-Dichloropropene	1	U	1	0.36	1	µg/l	6/9/2008	SW846 8021
Ethyl benzene	1	U	1	0.38	1	µg/l	6/9/2008	SW846 8021
Methylene Chloride	1	U	1	0.46	1	µg/l	6/9/2008	SW846 8021
1,1,1,2-Tetrachloroethane	1	U	1	0.38	1	µg/l	6/9/2008	SW846 8021
1,1,2,2-Tetrachloroethane	1	U	1	0.22	1	µg/l	6/9/2008	SW846 8021
Tetrachloroethene	1	U	1	0.27	1	µg/l	6/9/2008	SW846 8021
Toluene	2	U	2	0.49	1	µg/l	6/9/2008	SW846 8021
1,1,1-Trichloroethane	1	U	1	0.35	1	µg/l	6/9/2008	SW846 8021
1,1,2-Trichloroethane	1	U	1	0.32	1	µg/l	6/9/2008	SW846 8021
Trichloroethene	3		1	0.36	1	µg/l	6/9/2008	SW846 8021
Vinyl Chloride	2	U	2	0.89	1	µg/l	6/9/2008	SW846 8021
Total Xylenes	3	U	3	0.41	1	µg/l	6/9/2008	SW846 8021
1,4-Bromofluorobenzene[2]	107%					% Recovery		

MATRIX ENVIRONMENTAL LLC

Mobile Lab Analytical Report
Mobile Lab ID: [illegible]H
Matrix Type: Water

PO Box 364
Galena, OH
740-965-8271

Client:	RMT	Matrix Project Number:	056-OHPL-08
Project Name:	Roscoe	Collection Date:	6/9/2008
Project Location:	Roscoe, IL	Report Date:	6/9/2008

Sample ID: CC-01-35

Analyte	Result[4]	Qualifier	RL	MDL[1]	Dilution	Units	Date Analyzed	Analytical Method
Benzene	1	U	1	0.15	1	µg/l	6/9/2008	SW846 8021
Bromodichloromethane	1	U	1	0.50	1	µg/l	6/9/2008	SW846 8021
1,2 Dibromoethane	1	U	1	0.45	1	µg/l	6/9/2008	SW846 8021
Bromoform	10	U	10	0.89	1	µg/l	6/9/2008	SW846 8021
Carbon Tetrachoride	1	U	1	0.41	1	µg/l	6/9/2008	SW846 8021
Chlorobenzene	1	U	1	0.44	1	µg/l	6/9/2008	SW846 8021
Chloroethane	10	U	10	2.84	1	µg/l	6/9/2008	SW846 8021
Chloroform	1	U	1	0.43	1	µg/l	6/9/2008	SW846 8021
Dibromochloromethane	5	U	5	0.92	1	µg/l	6/9/2008	SW846 8021
1,2-Dichlorobenzene	1	U	1	0.37	1	µg/l	6/9/2008	SW846 8021
1,3-Dichlorobenzene	1	U	1	0.44	1	µg/l	6/9/2008	SW846 8021
1,4-Dichlorobenzene	1	U	1	0.22	1	µg/l	6/9/2008	SW846 8021
1,1-Dichloroethane	1	U	1	0.40	1	µg/l	6/9/2008	SW846 8021
1,2-Dichloroethane	1	U	1	0.38	1	µg/l	6/9/2008	SW846 8021
1,1-Dichloroethene	1	U	1	0.48	1	µg/l	6/9/2008	SW846 8021
Cis-1,2-Dichloroethene	7		1	0.45	1	µg/l	6/9/2008	SW846 8021
Trans-1,2-Dichloroethene	1	U	1	0.43	1	µg/l	6/9/2008	SW846 8021
1,2-Dichloropropane	1	U	1	0.41	1	µg/l	6/9/2008	SW846 8021
Cis-1,3-Dichloropropene	1	U	1	0.18	1	µg/l	6/9/2008	SW846 8021
Trans-1,3-Dichloropropene	1	U	1	0.36	1	µg/l	6/9/2008	SW846 8021
Ethyl benzene	1	U	1	0.38	1	µg/l	6/9/2008	SW846 8021
Methylene Chloride	1	U	1	0.46	1	µg/l	6/9/2008	SW846 8021
1,1,1,2-Tetrachloroethane	1	U	1	0.38	1	µg/l	6/9/2008	SW846 8021
1,1,2,2-Tetrachloroethane	1	U	1	0.22	1	µg/l	6/9/2008	SW846 8021
Tetrachloroethene	1	U	1	0.27	1	µg/l	6/9/2008	SW846 8021
Toluene	2	U	2	0.49	1	µg/l	6/9/2008	SW846 8021
1,1,1-Trichloroethane	1	U	1	0.35	1	µg/l	6/9/2008	SW846 8021
1,1,2-Trichloroethane	1	U	1	0.32	1	µg/l	6/9/2008	SW846 8021
Trichloroethene	5		1	0.36	1	µg/l	6/9/2008	SW846 8021
Vinyl Chloride	2	U	2	0.89	1	µg/l	6/9/2008	SW846 8021
Total Xylenes	3	U	3	0.41	1	µg/l	6/9/2008	SW846 8021
1,4-Bromofluorobenzene[2]	96%					% Recovery		

MATRIX ENVIRONMENTAL LLC

Mobile Lab Analytical Report
Mobile Lab ID: OH
Matrix Type: Water

PO Box 364
Galena, OH
740-965-8271

Client:	RMT	Matrix Project Number:	056-OHPL-08
Project Name:	Roscoe	Collection Date:	6/9/2008
Project Location:	Roscoe, IL	Report Date:	6/9/2008

Sample ID: CC-01-35 Duplicate

Analyte	Result[4]	Qualifier	RL	MDL[1]	Dilution	Units	Date Analyzed	Analytical Method
Benzene	1	U	1	0.15	1	µg/l	6/9/2008	SW846 8021
Bromodichloromethane	1	U	1	0.50	1	µg/l	6/9/2008	SW846 8021
1,2 Dibromoethane	1	U	1	0.45	1	µg/l	6/9/2008	SW846 8021
Bromoform	10	U	10	0.89	1	µg/l	6/9/2008	SW846 8021
Carbon Tetrachoride	1	U	1	0.41	1	µg/l	6/9/2008	SW846 8021
Chlorobenzene	1	U	1	0.44	1	µg/l	6/9/2008	SW846 8021
Chloroethane	10	U	10	2.84	1	µg/l	6/9/2008	SW846 8021
Chloroform	1	U	1	0.43	1	µg/l	6/9/2008	SW846 8021
Dibromochloromethane	5	U	5	0.92	1	µg/l	6/9/2008	SW846 8021
1,2-Dichlorobenzene	1	U	1	0.37	1	µg/l	6/9/2008	SW846 8021
1,3-Dichlorobenzene	1	U	1	0.44	1	µg/l	6/9/2008	SW846 8021
1,4-Dichlorobenzene	1	U	1	0.22	1	µg/l	6/9/2008	SW846 8021
1,1-Dichloroethane	1	U	1	0.40	1	µg/l	6/9/2008	SW846 8021
1,2-Dichloroethane	1	U	1	0.38	1	µg/l	6/9/2008	SW846 8021
1,1-Dichloroethene	1	U	1	0.48	1	µg/l	6/9/2008	SW846 8021
Cis-1,2-Dichloroethene	8		1	0.45	1	µg/l	6/9/2008	SW846 8021
Trans-1,2-Dichloroethene	1	U	1	0.43	1	µg/l	6/9/2008	SW846 8021
1,2-Dichloropropane	1	U	1	0.41	1	µg/l	6/9/2008	SW846 8021
Cis-1,3-Dichloropropene	1	U	1	0.18	1	µg/l	6/9/2008	SW846 8021
Trans-1,3-Dichloropropene	1	U	1	0.36	1	µg/l	6/9/2008	SW846 8021
Ethyl benzene	1	U	1	0.38	1	µg/l	6/9/2008	SW846 8021
Methylene Chloride	1	U	1	0.46	1	µg/l	6/9/2008	SW846 8021
1,1,1,2-Tetrachloroethane	1	U	1	0.38	1	µg/l	6/9/2008	SW846 8021
1,1,2,2-Tetrachloroethane	1	U	1	0.22	1	µg/l	6/9/2008	SW846 8021
Tetrachloroethene	1	U	1	0.27	1	µg/l	6/9/2008	SW846 8021
Toluene	2	U	2	0.49	1	µg/l	6/9/2008	SW846 8021
1,1,1-Trichloroethane	1	U	1	0.35	1	µg/l	6/9/2008	SW846 8021
1,1,2-Trichloroethane	1	U	1	0.32	1	µg/l	6/9/2008	SW846 8021
Trichloroethene	6		1	0.36	1	µg/l	6/9/2008	SW846 8021
Vinyl Chloride	2	U	2	0.89	1	µg/l	6/9/2008	SW846 8021
Total Xylenes	3	U	3	0.41	1	µg/l	6/9/2008	SW846 8021
1,4-Bromofluorobenzene[2]	112%					% Recovery		

MATRIX ENVIRONMENTAL LLC

Mobile Lab Analytical Report
Mobile Lab ID: [illegible]OH
Matrix Type: Water

PO Box 364
Galena, OH
740-965-8271

Client:	RMT	Matrix Project Number:	056-OHPL-08
Project Name:	Roscoe	Collection Date:	6/9/2008
Project Location:	Roscoe, IL	Report Date:	6/9/2008

Sample ID: CC-01-55

Analyte	Result[4]	Qualifier	RL	MDL[1]	Dilution	Units	Date Analyzed	Analytical Method
Benzene	1	U	1	0.15	1	µg/l	6/9/2008	SW846 8021
Bromodichloromethane	1	U	1	0.50	1	µg/l	6/9/2008	SW846 8021
1,2 Dibromoethane	1	U	1	0.45	1	µg/l	6/9/2008	SW846 8021
Bromoform	10	U	10	0.89	1	µg/l	6/9/2008	SW846 8021
Carbon Tetrachoride	1	U	1	0.41	1	µg/l	6/9/2008	SW846 8021
Chlorobenzene	1	U	1	0.44	1	µg/l	6/9/2008	SW846 8021
Chloroethane	10	U	10	2.84	1	µg/l	6/9/2008	SW846 8021
Chloroform	1	U	1	0.43	1	µg/l	6/9/2008	SW846 8021
Dibromochloromethane	5	U	5	0.92	1	µg/l	6/9/2008	SW846 8021
1,2-Dichlorobenzene	1	U	1	0.37	1	µg/l	6/9/2008	SW846 8021
1,3-Dichlorobenzene	1	U	1	0.44	1	µg/l	6/9/2008	SW846 8021
1,4-Dichlorobenzene	1	U	1	0.22	1	µg/l	6/9/2008	SW846 8021
1,1-Dichloroethane	1	U	1	0.40	1	µg/l	6/9/2008	SW846 8021
1,2-Dichloroethane	1	U	1	0.38	1	µg/l	6/9/2008	SW846 8021
1,1-Dichloroethene	1	U	1	0.48	1	µg/l	6/9/2008	SW846 8021
Cis-1,2-Dichloroethene	6		1	0.45	1	µg/l	6/9/2008	SW846 8021
Trans-1,2-Dichloroethene	1	U	1	0.43	1	µg/l	6/9/2008	SW846 8021
1,2-Dichloropropane	1	U	1	0.41	1	µg/l	6/9/2008	SW846 8021
Cis-1,3-Dichloropropene	1	U	1	0.18	1	µg/l	6/9/2008	SW846 8021
Trans-1,3-Dichloropropene	1	U	1	0.36	1	µg/l	6/9/2008	SW846 8021
Ethyl benzene	1	U	1	0.38	1	µg/l	6/9/2008	SW846 8021
Methylene Chloride	1	U	1	0.46	1	µg/l	6/9/2008	SW846 8021
1,1,1,2-Tetrachloroethane	1	U	1	0.38	1	µg/l	6/9/2008	SW846 8021
1,1,2,2-Tetrachloroethane	1	U	1	0.22	1	µg/l	6/9/2008	SW846 8021
Tetrachloroethene	1	U	1	0.27	1	µg/l	6/9/2008	SW846 8021
Toluene	2	U	2	0.49	1	µg/l	6/9/2008	SW846 8021
1,1,1-Trichloroethane	1		1	0.35	1	µg/l	6/9/2008	SW846 8021
1,1,2-Trichloroethane	1	U	1	0.32	1	µg/l	6/9/2008	SW846 8021
Trichloroethene	7		1	0.36	1	µg/l	6/9/2008	SW846 8021
Vinyl Chloride	2	U	2	0.89	1	µg/l	6/9/2008	SW846 8021
Total Xylenes	3	U	3	0.41	1	µg/l	6/9/2008	SW846 8021
1,4-Bromofluorobenzene[2]	97%					% Recovery		

MATRIX ENVIRONMENTAL LLC

Mobile Lab Analytical Report
Mobile Lab ID: OH
Matrix Type: Water

PO Box 364
Galena, OH
740-965-8271

Client:	RMT	Matrix Project Number:	056-OHPL-08
Project Name:	Roscoe	Collection Date:	6/9/2008
Project Location:	Roscoe, IL	Report Date:	6/9/2008

Sample ID: CC-01-70

Analyte	Result[4]	Qualifier	RL	MDL[1]	Dilution	Units	Date Analyzed	Analytical Method
Benzene	1	U	1	0.15	1	µg/l	6/9/2008	SW846 8021
Bromodichloromethane	1	U	1	0.50	1	µg/l	6/9/2008	SW846 8021
1,2 Dibromoethane	1	U	1	0.45	1	µg/l	6/9/2008	SW846 8021
Bromoform	10	U	10	0.89	1	µg/l	6/9/2008	SW846 8021
Carbon Tetrachoride	1	U	1	0.41	1	µg/l	6/9/2008	SW846 8021
Chlorobenzene	1	U	1	0.44	1	µg/l	6/9/2008	SW846 8021
Chloroethane	10	U	10	2.84	1	µg/l	6/9/2008	SW846 8021
Chloroform	1	U	1	0.43	1	µg/l	6/9/2008	SW846 8021
Dibromochloromethane	5	U	5	0.92	1	µg/l	6/9/2008	SW846 8021
1,2-Dichlorobenzene	1	U	1	0.37	1	µg/l	6/9/2008	SW846 8021
1,3-Dichlorobenzene	1	U	1	0.44	1	µg/l	6/9/2008	SW846 8021
1,4-Dichlorobenzene	1	U	1	0.22	1	µg/l	6/9/2008	SW846 8021
1,1-Dichloroethane	1	U	1	0.40	1	µg/l	6/9/2008	SW846 8021
1,2-Dichloroethane	1	U	1	0.38	1	µg/l	6/9/2008	SW846 8021
1,1-Dichloroethene	1	U	1	0.48	1	µg/l	6/9/2008	SW846 8021
Cis-1,2-Dichloroethene	3		1	0.45	1	µg/l	6/9/2008	SW846 8021
Trans-1,2-Dichloroethene	1	U	1	0.43	1	µg/l	6/9/2008	SW846 8021
1,2-Dichloropropane	1	U	1	0.41	1	µg/l	6/9/2008	SW846 8021
Cis-1,3-Dichloropropene	1	U	1	0.18	1	µg/l	6/9/2008	SW846 8021
Trans-1,3-Dichloropropene	1	U	1	0.36	1	µg/l	6/9/2008	SW846 8021
Ethyl benzene	1	U	1	0.38	1	µg/l	6/9/2008	SW846 8021
Methylene Chloride	1	U	1	0.46	1	µg/l	6/9/2008	SW846 8021
1,1,1,2-Tetrachloroethane	1	U	1	0.38	1	µg/l	6/9/2008	SW846 8021
1,1,2,2-Tetrachloroethane	1	U	1	0.22	1	µg/l	6/9/2008	SW846 8021
Tetrachloroethene	1	U	1	0.27	1	µg/l	6/9/2008	SW846 8021
Toluene	2	U	2	0.49	1	µg/l	6/9/2008	SW846 8021
1,1,1-Trichloroethane	1		1	0.35	1	µg/l	6/9/2008	SW846 8021
1,1,2-Trichloroethane	1	U	1	0.32	1	µg/l	6/9/2008	SW846 8021
Trichloroethene	5		1	0.36	1	µg/l	6/9/2008	SW846 8021
Vinyl Chloride	2	U	2	0.89	1	µg/l	6/9/2008	SW846 8021
Total Xylenes	3	U	3	0.41	1	µg/l	6/9/2008	SW846 8021
1,4-Bromofluorobenzene[2]	95%					% Recovery		

MATRIX ENVIRONMENTAL LLC

Mobile Lab Analytical Report
Mobile Lab ID: [illegible]011
Matrix Type: Water

PO Box 364
Galena, OH
740-965-8271

Client:	RMT	Matrix Project Number:	056-OHPL-08
Project Name:	Roscoe	Collection Date:	6/9/2008
Project Location:	Roscoe, IL	Report Date:	6/9/2008

Sample ID: CC-02-20

Analyte	Result[4]	Qualifier	RL	MDL[1]	Dilution	Units	Date Analyzed	Analytical Method
Benzene	1	U	1	0.15	1	µg/l	6/9/2008	SW846 8021
Bromodichloromethane	1	U	1	0.50	1	µg/l	6/9/2008	SW846 8021
1,2 Dibromoethane	1	U	1	0.45	1	µg/l	6/9/2008	SW846 8021
Bromoform	10	U	10	0.89	1	µg/l	6/9/2008	SW846 8021
Carbon Tetrachoride	1	U	1	0.41	1	µg/l	6/9/2008	SW846 8021
Chlorobenzene	1	U	1	0.44	1	µg/l	6/9/2008	SW846 8021
Chloroethane	10	U	10	2.84	1	µg/l	6/9/2008	SW846 8021
Chloroform	1	U	1	0.43	1	µg/l	6/9/2008	SW846 8021
Dibromochloromethane	5	U	5	0.92	1	µg/l	6/9/2008	SW846 8021
1,2-Dichlorobenzene	1	U	1	0.37	1	µg/l	6/9/2008	SW846 8021
1,3-Dichlorobenzene	1	U	1	0.44	1	µg/l	6/9/2008	SW846 8021
1,4-Dichlorobenzene	1	U	1	0.22	1	µg/l	6/9/2008	SW846 8021
1,1-Dichloroethane	1	U	1	0.40	1	µg/l	6/9/2008	SW846 8021
1,2-Dichloroethane	1	U	1	0.38	1	µg/l	6/9/2008	SW846 8021
1,1-Dichloroethene	1	U	1	0.48	1	µg/l	6/9/2008	SW846 8021
Cis-1,2-Dichloroethene	4		1	0.45	1	µg/l	6/9/2008	SW846 8021
Trans-1,2-Dichloroethene	1	U	1	0.43	1	µg/l	6/9/2008	SW846 8021
1,2-Dichloropropane	1	U	1	0.41	1	µg/l	6/9/2008	SW846 8021
Cis-1,3-Dichloropropene	1	U	1	0.18	1	µg/l	6/9/2008	SW846 8021
Trans-1,3-Dichloropropene	1	U	1	0.36	1	µg/l	6/9/2008	SW846 8021
Ethyl benzene	1	U	1	0.38	1	µg/l	6/9/2008	SW846 8021
Methylene Chloride	1	U	1	0.46	1	µg/l	6/9/2008	SW846 8021
1,1,1,2-Tetrachloroethane	1	U	1	0.38	1	µg/l	6/9/2008	SW846 8021
1,1,2,2-Tetrachloroethane	1	U	1	0.22	1	µg/l	6/9/2008	SW846 8021
Tetrachloroethene	1	U	1	0.27	1	µg/l	6/9/2008	SW846 8021
Toluene	2	U	2	0.49	1	µg/l	6/9/2008	SW846 8021
1,1,1-Trichloroethane	1	U	1	0.35	1	µg/l	6/9/2008	SW846 8021
1,1,2-Trichloroethane	1	U	1	0.32	1	µg/l	6/9/2008	SW846 8021
Trichloroethene	3		1	0.36	1	µg/l	6/9/2008	SW846 8021
Vinyl Chloride	2	U	2	0.89	1	µg/l	6/9/2008	SW846 8021
Total Xylenes	3	U	3	0.41	1	µg/l	6/9/2008	SW846 8021
1,4-Bromofluorobenzene[2]	98%					% Recovery		

MATRIX ENVIRONMENTAL LLC

Mobile Lab Analytical Report
Mobile Lab ID: OH
Matrix Type: Water

PO Box 364
Galena, OH
740-965-8271

Client:	RMT	Matrix Project Number:	056-OHPL-08
Project Name:	Roscoe	Collection Date:	6/9/2008
Project Location:	Roscoe, IL	Report Date:	6/9/2008

Sample ID: CC-02-35

Analyte	Result[1]	Qualifier	RL	MDL[1]	Dilution	Units	Date Analyzed	Analytical Method
Benzene	1	U	1	0.15	1	µg/l	6/9/2008	SW846 8021
Bromodichloromethane	1	U	1	0.50	1	µg/l	6/9/2008	SW846 8021
1,2 Dibromoethane	1	U	1	0.45	1	µg/l	6/9/2008	SW846 8021
Bromoform	10	U	10	0.89	1	µg/l	6/9/2008	SW846 8021
Carbon Tetrachoride	1	U	1	0.41	1	µg/l	6/9/2008	SW846 8021
Chlorobenzene	1	U	1	0.44	1	µg/l	6/9/2008	SW846 8021
Chloroethane	10	U	10	2.84	1	µg/l	6/9/2008	SW846 8021
Chloroform	1	U	1	0.43	1	µg/l	6/9/2008	SW846 8021
Dibromochloromethane	5	U	5	0.92	1	µg/l	6/9/2008	SW846 8021
1,2-Dichlorobenzene	1	U	1	0.37	1	µg/l	6/9/2008	SW846 8021
1,3-Dichlorobenzene	1	U	1	0.44	1	µg/l	6/9/2008	SW846 8021
1,4-Dichlorobenzene	1	U	1	0.22	1	µg/l	6/9/2008	SW846 8021
1,1-Dichloroethane	1	U	1	0.40	1	µg/l	6/9/2008	SW846 8021
1,2-Dichloroethane	1	U	1	0.38	1	µg/l	6/9/2008	SW846 8021
1,1-Dichloroethene	1	U	1	0.48	1	µg/l	6/9/2008	SW846 8021
Cis-1,2-Dichloroethene	9		1	0.45	1	µg/l	6/9/2008	SW846 8021
Trans-1,2-Dichloroethene	1	U	1	0.43	1	µg/l	6/9/2008	SW846 8021
1,2-Dichloropropane	1	U	1	0.41	1	µg/l	6/9/2008	SW846 8021
Cis-1,3-Dichloropropene	1	U	1	0.18	1	µg/l	6/9/2008	SW846 8021
Trans-1,3-Dichloropropene	1	U	1	0.36	1	µg/l	6/9/2008	SW846 8021
Ethyl benzene	1	U	1	0.38	1	µg/l	6/9/2008	SW846 8021
Methylene Chloride	1	U	1	0.46	1	µg/l	6/9/2008	SW846 8021
1,1,1,2-Tetrachloroethane	1	U	1	0.38	1	µg/l	6/9/2008	SW846 8021
1,1,2,2-Tetrachloroethane	1	U	1	0.22	1	µg/l	6/9/2008	SW846 8021
Tetrachloroethene	1	U	1	0.27	1	µg/l	6/9/2008	SW846 8021
Toluene	2	U	2	0.49	1	µg/l	6/9/2008	SW846 8021
1,1,1-Trichloroethane	1		1	0.35	1	µg/l	6/9/2008	SW846 8021
1,1,2-Trichloroethane	1	U	1	0.32	1	µg/l	6/9/2008	SW846 8021
Trichloroethene	5		1	0.36	1	µg/l	6/9/2008	SW846 8021
Vinyl Chloride	2	U	2	0.89	1	µg/l	6/9/2008	SW846 8021
Total Xylenes	3	U	3	0.41	1	µg/l	6/9/2008	SW846 8021
1,4-Bromofluorobenzene[2]	97%				% Recovery			

MATRIX ENVIRONMENTAL LLC

Mobile Lab Analytical Report
Mobile Lab ID: [illegible]OH
Matrix Type: Water

PO Box 364
Galena, OH
740-965-8271

Client:	RMT	Matrix Project Number:	056-OHPL-08
Project Name:	Roscoe	Collection Date:	6/9/2008
Project Location:	Roscoe, IL	Report Date:	6/9/2008

Sample ID: CC-02-55

Analyte	Result[4]	Qualifier	RL	MDL[1]	Dilution	Units	Date Analyzed	Analytical Method
Benzene	1	U	1	0.15	1	µg/l	6/9/2008	SW846 8021
Bromodichloromethane	1	U	1	0.50	1	µg/l	6/9/2008	SW846 8021
1,2 Dibromoethane	1	U	1	0.45	1	µg/l	6/9/2008	SW846 8021
Bromoform	10	U	10	0.89	1	µg/l	6/9/2008	SW846 8021
Carbon Tetrachoride	1	U	1	0.41	1	µg/l	6/9/2008	SW846 8021
Chlorobenzene	1	U	1	0.44	1	µg/l	6/9/2008	SW846 8021
Chloroethane	10	U	10	2.84	1	µg/l	6/9/2008	SW846 8021
Chloroform	1	U	1	0.43	1	µg/l	6/9/2008	SW846 8021
Dibromochloromethane	5	U	5	0.92	1	µg/l	6/9/2008	SW846 8021
1,2-Dichlorobenzene	1	U	1	0.37	1	µg/l	6/9/2008	SW846 8021
1,3-Dichlorobenzene	1	U	1	0.44	1	µg/l	6/9/2008	SW846 8021
1,4-Dichlorobenzene	1	U	1	0.22	1	µg/l	6/9/2008	SW846 8021
1,1-Dichloroethane	1	U	1	0.40	1	µg/l	6/9/2008	SW846 8021
1,2-Dichloroethane	1	U	1	0.38	1	µg/l	6/9/2008	SW846 8021
1,1-Dichloroethene	1	U	1	0.48	1	µg/l	6/9/2008	SW846 8021
Cis-1,2-Dichloroethene	5		1	0.45	1	µg/l	6/9/2008	SW846 8021
Trans-1,2-Dichloroethene	1	U	1	0.43	1	µg/l	6/9/2008	SW846 8021
1,2-Dichloropropane	1	U	1	0.41	1	µg/l	6/9/2008	SW846 8021
Cis-1,3-Dichloropropene	1	U	1	0.18	1	µg/l	6/9/2008	SW846 8021
Trans-1,3-Dichloropropene	1	U	1	0.36	1	µg/l	6/9/2008	SW846 8021
Ethyl benzene	1	U	1	0.38	1	µg/l	6/9/2008	SW846 8021
Methylene Chloride	1	U	1	0.46	1	µg/l	6/9/2008	SW846 8021
1,1,1,2-Tetrachloroethane	1	U	1	0.38	1	µg/l	6/9/2008	SW846 8021
1,1,2,2-Tetrachloroethane	1	U	1	0.22	1	µg/l	6/9/2008	SW846 8021
Tetrachloroethene	1	U	1	0.27	1	µg/l	6/9/2008	SW846 8021
Toluene	2	U	2	0.49	1	µg/l	6/9/2008	SW846 8021
1,1,1-Trichloroethane	1		1	0.35	1	µg/l	6/9/2008	SW846 8021
1,1,2-Trichloroethane	1	U	1	0.32	1	µg/l	6/9/2008	SW846 8021
Trichloroethene	6		1	0.36	1	µg/l	6/9/2008	SW846 8021
Vinyl Chloride	2	U	2	0.89	1	µg/l	6/9/2008	SW846 8021
Total Xylenes	3	U	3	0.41	1	µg/l	6/9/2008	SW846 8021
1,4-Bromofluorobenzene[2]	106%					% Recovery		

MATRIX ENVIRONMENTAL LLC

Mobile Lab Analytical Report
Mobile Lab ID: OH
Matrix Type: Water

PO Box 364
Galena, OH
740-965-8271

Client:	RMT	Matrix Project Number:	056-OHPL-08
Project Name:	Roscoe	Collection Date:	6/9/2008
Project Location:	Roscoe, IL	Report Date:	6/9/2008

Sample ID: CC-03-20

Analyte	Result[4]	Qualifier	RL	MDL[1]	Dilution	Units	Date Analyzed	Analytical Method
Benzene	1	U	1	0.15	1	µg/l	6/9/2008	SW846 8021
Bromodichloromethane	1	U	1	0.50	1	µg/l	6/9/2008	SW846 8021
1,2 Dibromoethane	1	U	1	0.45	1	µg/l	6/9/2008	SW846 8021
Bromoform	10	U	10	0.89	1	µg/l	6/9/2008	SW846 8021
Carbon Tetrachoride	1	U	1	0.41	1	µg/l	6/9/2008	SW846 8021
Chlorobenzene	1	U	1	0.44	1	µg/l	6/9/2008	SW846 8021
Chloroethane	10	U	10	2.84	1	µg/l	6/9/2008	SW846 8021
Chloroform	1	U	1	0.43	1	µg/l	6/9/2008	SW846 8021
Dibromochloromethane	5	U	5	0.92	1	µg/l	6/9/2008	SW846 8021
1,2-Dichlorobenzene	1	U	1	0.37	1	µg/l	6/9/2008	SW846 8021
1,3-Dichlorobenzene	1	U	1	0.44	1	µg/l	6/9/2008	SW846 8021
1,4-Dichlorobenzene	1	U	1	0.22	1	µg/l	6/9/2008	SW846 8021
1,1-Dichloroethane	1	U	1	0.40	1	µg/l	6/9/2008	SW846 8021
1,2-Dichloroethane	1	U	1	0.38	1	µg/l	6/9/2008	SW846 8021
1,1-Dichloroethene	1	U	1	0.48	1	µg/l	6/9/2008	SW846 8021
Cis-1,2-Dichloroethene	1	U	1	0.45	1	µg/l	6/9/2008	SW846 8021
Trans-1,2-Dichloroethene	1	U	1	0.43	1	µg/l	6/9/2008	SW846 8021
1,2-Dichloropropane	1	U	1	0.41	1	µg/l	6/9/2008	SW846 8021
Cis-1,3-Dichloropropene	1	U	1	0.18	1	µg/l	6/9/2008	SW846 8021
Trans-1,3-Dichloropropene	1	U	1	0.36	1	µg/l	6/9/2008	SW846 8021
Ethyl benzene	1	U	1	0.38	1	µg/l	6/9/2008	SW846 8021
Methylene Chloride	1	U	1	0.46	1	µg/l	6/9/2008	SW846 8021
1,1,1,2-Tetrachloroethane	1	U	1	0.38	1	µg/l	6/9/2008	SW846 8021
1,1,2,2-Tetrachloroethane	1	U	1	0.22	1	µg/l	6/9/2008	SW846 8021
Tetrachloroethene	1	U	1	0.27	1	µg/l	6/9/2008	SW846 8021
Toluene	2	U	2	0.49	1	µg/l	6/9/2008	SW846 8021
1,1,1-Trichloroethane	1	U	1	0.35	1	µg/l	6/9/2008	SW846 8021
1,1,2-Trichloroethane	1	U	1	0.32	1	µg/l	6/9/2008	SW846 8021
Trichloroethene	1	U	1	0.36	1	µg/l	6/9/2008	SW846 8021
Vinyl Chloride	2	U	2	0.89	1	µg/l	6/9/2008	SW846 8021
Total Xylenes	3	U	3	0.41	1	µg/l	6/9/2008	SW846 8021
1,4-Bromofluorobenzene[2]	99%				% Recovery			

MATRIX ENVIRONMENTAL LLC

Mobile Lab Analytical Report
Mobile Lab ID: [illegible]
Matrix Type: Water

PO Box 364
Galena, OH
740-965-8271

Client:	RMT	Matrix Project Number:	056-OHPL-08
Project Name:	Roscoe	Collection Date:	6/9/2008
Project Location:	Roscoe, IL	Report Date:	6/9/2008

Sample ID: CC-03-35

Analyte	Result[4]	Qualifier	RL	MDL[1]	Dilution	Units	Date Analyzed	Analytical Method
Benzene	1	U	1	0.15	1	µg/l	6/9/2008	SW846 8021
Bromodichloromethane	1	U	1	0.50	1	µg/l	6/9/2008	SW846 8021
1,2 Dibromoethane	1	U	1	0.45	1	µg/l	6/9/2008	SW846 8021
Bromoform	10	U	10	0.89	1	µg/l	6/9/2008	SW846 8021
Carbon Tetrachoride	1	U	1	0.41	1	µg/l	6/9/2008	SW846 8021
Chlorobenzene	1	U	1	0.44	1	µg/l	6/9/2008	SW846 8021
Chloroethane	10	U	10	2.84	1	µg/l	6/9/2008	SW846 8021
Chloroform	1	U	1	0.43	1	µg/l	6/9/2008	SW846 8021
Dibromochloromethane	5	U	5	0.92	1	µg/l	6/9/2008	SW846 8021
1,2-Dichlorobenzene	1	U	1	0.37	1	µg/l	6/9/2008	SW846 8021
1,3-Dichlorobenzene	1	U	1	0.44	1	µg/l	6/9/2008	SW846 8021
1,4-Dichlorobenzene	1	U	1	0.22	1	µg/l	6/9/2008	SW846 8021
1,1-Dichloroethane	1	U	1	0.40	1	µg/l	6/9/2008	SW846 8021
1,2-Dichloroethane	1	U	1	0.38	1	µg/l	6/9/2008	SW846 8021
1,1-Dichloroethene	1	U	1	0.48	1	µg/l	6/9/2008	SW846 8021
Cis-1,2-Dichloroethene	1	U	1	0.45	1	µg/l	6/9/2008	SW846 8021
Trans-1,2-Dichloroethene	1	U	1	0.43	1	µg/l	6/9/2008	SW846 8021
1,2-Dichloropropane	1	U	1	0.41	1	µg/l	6/9/2008	SW846 8021
Cis-1,3-Dichloropropene	1	U	1	0.18	1	µg/l	6/9/2008	SW846 8021
Trans-1,3-Dichloropropene	1	U	1	0.36	1	µg/l	6/9/2008	SW846 8021
Ethyl benzene	1	U	1	0.38	1	µg/l	6/9/2008	SW846 8021
Methylene Chloride	1	U	1	0.46	1	µg/l	6/9/2008	SW846 8021
1,1,1,2-Tetrachloroethane	1	U	1	0.38	1	µg/l	6/9/2008	SW846 8021
1,1,2,2-Tetrachloroethane	1	U	1	0.22	1	µg/l	6/9/2008	SW846 8021
Tetrachloroethene	1	U	1	0.27	1	µg/l	6/9/2008	SW846 8021
Toluene	2	U	2	0.49	1	µg/l	6/9/2008	SW846 8021
1,1,1-Trichloroethane	1	U	1	0.35	1	µg/l	6/9/2008	SW846 8021
1,1,2-Trichloroethane	1	U	1	0.32	1	µg/l	6/9/2008	SW846 8021
Trichloroethene	1	U	1	0.36	1	µg/l	6/9/2008	SW846 8021
Vinyl Chloride	2	U	2	0.89	1	µg/l	6/9/2008	SW846 8021
Total Xylenes	3	U	3	0.41	1	µg/l	6/9/2008	SW846 8021
1,4-Bromofluorobenzene[2]	104%					% Recovery		

MATRIX ENVIRONMENTAL LLC

Mobile Lab Analytical Report
Mobile Lab ID: OH
Matrix Type: Water

PO Box 364
Galena, OH
740-965-8271

Client:	RMT	Matrix Project Number:	056-OHPL-08
Project Name:	Roscoe	Collection Date:	6/9/2008
Project Location:	Roscoe, IL	Report Date:	6/9/2008

Sample ID: CC-03-55

Analyte	Result[1]	Qualifier	RL	MDL[1]	Dilution	Units	Date Analyzed	Analytical Method
Benzene	1	U	1	0.15	1	µg/l	6/9/2008	SW846 8021
Bromodichloromethane	1	U	1	0.50	1	µg/l	6/9/2008	SW846 8021
1,2 Dibromoethane	1	U	1	0.45	1	µg/l	6/9/2008	SW846 8021
Bromoform	10	U	10	0.89	1	µg/l	6/9/2008	SW846 8021
Carbon Tetrachoride	1	U	1	0.41	1	µg/l	6/9/2008	SW846 8021
Chlorobenzene	1	U	1	0.44	1	µg/l	6/9/2008	SW846 8021
Chloroethane	10	U	10	2.84	1	µg/l	6/9/2008	SW846 8021
Chloroform	1	U	1	0.43	1	µg/l	6/9/2008	SW846 8021
Dibromochloromethane	5	U	5	0.92	1	µg/l	6/9/2008	SW846 8021
1,2-Dichlorobenzene	1	U	1	0.37	1	µg/l	6/9/2008	SW846 8021
1,3-Dichlorobenzene	1	U	1	0.44	1	µg/l	6/9/2008	SW846 8021
1,4-Dichlorobenzene	1	U	1	0.22	1	µg/l	6/9/2008	SW846 8021
1,1-Dichloroethane	1	U	1	0.40	1	µg/l	6/9/2008	SW846 8021
1,2-Dichloroethane	1	U	1	0.38	1	µg/l	6/9/2008	SW846 8021
1,1-Dichloroethene	1	U	1	0.48	1	µg/l	6/9/2008	SW846 8021
Cis-1,2-Dichloroethene	1		1	0.45	1	µg/l	6/9/2008	SW846 8021
Trans-1,2-Dichloroethene	1	U	1	0.43	1	µg/l	6/9/2008	SW846 8021
1,2-Dichloropropane	1	U	1	0.41	1	µg/l	6/9/2008	SW846 8021
Cis-1,3-Dichloropropene	1	U	1	0.18	1	µg/l	6/9/2008	SW846 8021
Trans-1,3-Dichloropropene	1	U	1	0.36	1	µg/l	6/9/2008	SW846 8021
Ethyl benzene	1	U	1	0.38	1	µg/l	6/9/2008	SW846 8021
Methylene Chloride	1	U	1	0.46	1	µg/l	6/9/2008	SW846 8021
1,1,1,2-Tetrachloroethane	1	U	1	0.38	1	µg/l	6/9/2008	SW846 8021
1,1,2,2-Tetrachloroethane	1	U	1	0.22	1	µg/l	6/9/2008	SW846 8021
Tetrachloroethene	1	U	1	0.27	1	µg/l	6/9/2008	SW846 8021
Toluene	2	U	2	0.49	1	µg/l	6/9/2008	SW846 8021
1,1,1-Trichloroethane	1	U	1	0.35	1	µg/l	6/9/2008	SW846 8021
1,1,2-Trichloroethane	1	U	1	0.32	1	µg/l	6/9/2008	SW846 8021
Trichloroethene	2		1	0.36	1	µg/l	6/9/2008	SW846 8021
Vinyl Chloride	2	U	2	0.89	1	µg/l	6/9/2008	SW846 8021
Total Xylenes	3	U	3	0.41	1	µg/l	6/9/2008	SW846 8021
1,4-Bromofluorobenzene[2]	109%				% Recovery			

MATRIX ENVIRONMENTAL LLC

Mobile Lab Analytical Report
Mobile Lab ID: [illegible]OH
Matrix Type: Water

PO Box 364
Galena, OH
740-965-8271

Client:	RMT	Matrix Project Number:	056-OHPL-08
Project Name:	Roscoe	Collection Date:	6/9/2008
Project Location:	Roscoe, IL	Report Date:	6/9/2008

Sample ID: CC-03-70

Analyte	Result[4]	Qualifier	RL	MDL[1]	Dilution	Units	Date Analyzed	Analytical Method
Benzene	1	U	1	0.15	1	µg/l	6/9/2008	SW846 8021
Bromodichloromethane	1	U	1	0.50	1	µg/l	6/9/2008	SW846 8021
1,2 Dibromoethane	1	U	1	0.45	1	µg/l	6/9/2008	SW846 8021
Bromoform	10	U	10	0.89	1	µg/l	6/9/2008	SW846 8021
Carbon Tetrachoride	1	U	1	0.41	1	µg/l	6/9/2008	SW846 8021
Chlorobenzene	1	U	1	0.44	1	µg/l	6/9/2008	SW846 8021
Chloroethane	10	U	10	2.84	1	µg/l	6/9/2008	SW846 8021
Chloroform	1	U	1	0.43	1	µg/l	6/9/2008	SW846 8021
Dibromochloromethane	5	U	5	0.92	1	µg/l	6/9/2008	SW846 8021
1,2-Dichlorobenzene	1	U	1	0.37	1	µg/l	6/9/2008	SW846 8021
1,3-Dichlorobenzene	1	U	1	0.44	1	µg/l	6/9/2008	SW846 8021
1,4-Dichlorobenzene	1	U	1	0.22	1	µg/l	6/9/2008	SW846 8021
1,1-Dichloroethane	1	U	1	0.40	1	µg/l	6/9/2008	SW846 8021
1,2-Dichloroethane	1	U	1	0.38	1	µg/l	6/9/2008	SW846 8021
1,1-Dichloroethene	1	U	1	0.48	1	µg/l	6/9/2008	SW846 8021
Cis-1,2-Dichloroethene	1		1	0.45	1	µg/l	6/9/2008	SW846 8021
Trans-1,2-Dichloroethene	1	U	1	0.43	1	µg/l	6/9/2008	SW846 8021
1,2-Dichloropropane	1	U	1	0.41	1	µg/l	6/9/2008	SW846 8021
Cis-1,3-Dichloropropene	1	U	1	0.18	1	µg/l	6/9/2008	SW846 8021
Trans-1,3-Dichloropropene	1	U	1	0.36	1	µg/l	6/9/2008	SW846 8021
Ethyl benzene	1	U	1	0.38	1	µg/l	6/9/2008	SW846 8021
Methylene Chloride	1	U	1	0.46	1	µg/l	6/9/2008	SW846 8021
1,1,1,2-Tetrachloroethane	1	U	1	0.38	1	µg/l	6/9/2008	SW846 8021
1,1,2,2-Tetrachloroethane	1	U	1	0.22	1	µg/l	6/9/2008	SW846 8021
Tetrachloroethene	1	U	1	0.27	1	µg/l	6/9/2008	SW846 8021
Toluene	2	U	2	0.49	1	µg/l	6/9/2008	SW846 8021
1,1,1-Trichloroethane	1	U	1	0.35	1	µg/l	6/9/2008	SW846 8021
1,1,2-Trichloroethane	1	U	1	0.32	1	µg/l	6/9/2008	SW846 8021
Trichloroethene	2		1	0.36	1	µg/l	6/9/2008	SW846 8021
Vinyl Chloride	2	U	2	0.89	1	µg/l	6/9/2008	SW846 8021
Total Xylenes	3	U	3	0.41	1	µg/l	6/9/2008	SW846 8021
1,4-Bromofluorobenzene[2]	109%					% Recovery		

MATRIX ENVIRONMENTAL LLC

Mobile Lab Analytical Report
Mobile Lab ID: OH
Matrix Type: Water

PO Box 364
Galena, OH
740-965-8271

Client:	RMT	Matrix Project Number:	056-OHPL-08
Project Name:	Roscoe	Collection Date:	6/9/2008
Project Location:	Roscoe, IL	Report Date:	6/9/2008

Sample ID: CC-04-20

Analyte	Result[4]	Qualifier	RL	MDL[1]	Dilution	Units	Date Analyzed	Analytical Method
Benzene	1	U	1	0.15	1	µg/l	6/9/2008	SW846 8021
Bromodichloromethane	1	U	1	0.50	1	µg/l	6/9/2008	SW846 8021
1,2 Dibromoethane	1	U	1	0.45	1	µg/l	6/9/2008	SW846 8021
Bromoform	10	U	10	0.89	1	µg/l	6/9/2008	SW846 8021
Carbon Tetrachoride	1	U	1	0.41	1	µg/l	6/9/2008	SW846 8021
Chlorobenzene	1	U	1	0.44	1	µg/l	6/9/2008	SW846 8021
Chloroethane	10	U	10	2.84	1	µg/l	6/9/2008	SW846 8021
Chloroform	1	U	1	0.43	1	µg/l	6/9/2008	SW846 8021
Dibromochloromethane	5	U	5	0.92	1	µg/l	6/9/2008	SW846 8021
1,2-Dichlorobenzene	1	U	1	0.37	1	µg/l	6/9/2008	SW846 8021
1,3-Dichlorobenzene	1	U	1	0.44	1	µg/l	6/9/2008	SW846 8021
1,4-Dichlorobenzene	1	U	1	0.22	1	µg/l	6/9/2008	SW846 8021
1,1-Dichloroethane	1	U	1	0.40	1	µg/l	6/9/2008	SW846 8021
1,2-Dichloroethane	1	U	1	0.38	1	µg/l	6/9/2008	SW846 8021
1,1-Dichloroethene	1	U	1	0.48	1	µg/l	6/9/2008	SW846 8021
Cis-1,2-Dichloroethene	1	U	1	0.45	1	µg/l	6/9/2008	SW846 8021
Trans-1,2-Dichloroethene	1	U	1	0.43	1	µg/l	6/9/2008	SW846 8021
1,2-Dichloropropane	1	U	1	0.41	1	µg/l	6/9/2008	SW846 8021
Cis-1,3-Dichloropropene	1	U	1	0.18	1	µg/l	6/9/2008	SW846 8021
Trans-1,3-Dichloropropene	1	U	1	0.36	1	µg/l	6/9/2008	SW846 8021
Ethyl benzene	1	U	1	0.38	1	µg/l	6/9/2008	SW846 8021
Methylene Chloride	1	U	1	0.46	1	µg/l	6/9/2008	SW846 8021
1,1,1,2-Tetrachloroethane	1	U	1	0.38	1	µg/l	6/9/2008	SW846 8021
1,1,2,2-Tetrachloroethane	1	U	1	0.22	1	µg/l	6/9/2008	SW846 8021
Tetrachloroethene	1	U	1	0.27	1	µg/l	6/9/2008	SW846 8021
Toluene	2	U	2	0.49	1	µg/l	6/9/2008	SW846 8021
1,1,1-Trichloroethane	1	U	1	0.35	1	µg/l	6/9/2008	SW846 8021
1,1,2-Trichloroethane	1	U	1	0.32	1	µg/l	6/9/2008	SW846 8021
Trichloroethene	1	U	1	0.36	1	µg/l	6/9/2008	SW846 8021
Vinyl Chloride	2	U	2	0.89	1	µg/l	6/9/2008	SW846 8021
Total Xylenes	3	U	3	0.41	1	µg/l	6/9/2008	SW846 8021
1,4-Bromofluorobenzene[2]	101%					% Recovery		

MATRIX ENVIRONMENTAL LLC

Mobile Lab Analytical Report
Mobile Lab ID: OH
Matrix Type: Water

PO Box 364
Galena, OH
740-965-8271

Client:	RMT	Matrix Project Number:	056-OHPL-08
Project Name:	Roscoe	Collection Date:	6/9/2008
Project Location:	Roscoe, IL	Report Date:	6/9/2008

Sample ID: CC-04-35

Analyte	Result[4]	Qualifier	RL	MDL[1]	Dilution	Units	Date Analyzed	Analytical Method
Benzene	1	U	1	0.15	1	µg/l	6/9/2008	SW846 8021
Bromodichloromethane	1	U	1	0.50	1	µg/l	6/9/2008	SW846 8021
1,2 Dibromoethane	1	U	1	0.45	1	µg/l	6/9/2008	SW846 8021
Bromoform	10	U	10	0.89	1	µg/l	6/9/2008	SW846 8021
Carbon Tetrachoride	1	U	1	0.41	1	µg/l	6/9/2008	SW846 8021
Chlorobenzene	1	U	1	0.44	1	µg/l	6/9/2008	SW846 8021
Chloroethane	10	U	10	2.84	1	µg/l	6/9/2008	SW846 8021
Chloroform	1	U	1	0.43	1	µg/l	6/9/2008	SW846 8021
Dibromochloromethane	5	U	5	0.92	1	µg/l	6/9/2008	SW846 8021
1,2-Dichlorobenzene	1	U	1	0.37	1	µg/l	6/9/2008	SW846 8021
1,3-Dichlorobenzene	1	U	1	0.44	1	µg/l	6/9/2008	SW846 8021
1,4-Dichlorobenzene	1	U	1	0.22	1	µg/l	6/9/2008	SW846 8021
1,1-Dichloroethane	1	U	1	0.40	1	µg/l	6/9/2008	SW846 8021
1,2-Dichloroethane	1	U	1	0.38	1	µg/l	6/9/2008	SW846 8021
1,1-Dichloroethene	1	U	1	0.48	1	µg/l	6/9/2008	SW846 8021
Cis-1,2-Dichloroethene	1	U	1	0.45	1	µg/l	6/9/2008	SW846 8021
Trans-1,2-Dichloroethene	1	U	1	0.43	1	µg/l	6/9/2008	SW846 8021
1,2-Dichloropropane	1	U	1	0.41	1	µg/l	6/9/2008	SW846 8021
Cis-1,3-Dichloropropene	1	U	1	0.18	1	µg/l	6/9/2008	SW846 8021
Trans-1,3-Dichloropropene	1	U	1	0.36	1	µg/l	6/9/2008	SW846 8021
Ethyl benzene	1	U	1	0.38	1	µg/l	6/9/2008	SW846 8021
Methylene Chloride	1	U	1	0.46	1	µg/l	6/9/2008	SW846 8021
1,1,1,2-Tetrachloroethane	1	U	1	0.38	1	µg/l	6/9/2008	SW846 8021
1,1,2,2-Tetrachloroethane	1	U	1	0.22	1	µg/l	6/9/2008	SW846 8021
Tetrachloroethene	1	U	1	0.27	1	µg/l	6/9/2008	SW846 8021
Toluene	2	U	2	0.49	1	µg/l	6/9/2008	SW846 8021
1,1,1-Trichloroethane	1	U	1	0.35	1	µg/l	6/9/2008	SW846 8021
1,1,2-Trichloroethane	1	U	1	0.32	1	µg/l	6/9/2008	SW846 8021
Trichloroethene	1	U	1	0.36	1	µg/l	6/9/2008	SW846 8021
Vinyl Chloride	2	U	2	0.89	1	µg/l	6/9/2008	SW846 8021
Total Xylenes	3	U	3	0.41	1	µg/l	6/9/2008	SW846 8021
1,4-Bromofluorobenzene[2]	100%					% Recovery		

MATRIX ENVIRONMENTAL LLC

Mobile Lab Analytical Report
Mobile Lab ID: OH
Matrix Type: Water

PO Box 364
Galena, OH
740-965-8271

Client:	RMT	Matrix Project Number:	056-OHPL-08
Project Name:	Roscoe	Collection Date:	6/9/2008
Project Location:	Roscoe, IL	Report Date:	6/9/2008

Sample ID: CC-04-55

Analyte	Result[1]	Qualifier	RL	MDL[1]	Dilution	Units	Date Analyzed	Analytical Method
Benzene	1	U	1	0.15	1	µg/l	6/9/2008	SW846 8021
Bromodichloromethane	1	U	1	0.50	1	µg/l	6/9/2008	SW846 8021
1,2 Dibromoethane	1	U	1	0.45	1	µg/l	6/9/2008	SW846 8021
Bromoform	10	U	10	0.89	1	µg/l	6/9/2008	SW846 8021
Carbon Tetrachoride	1	U	1	0.41	1	µg/l	6/9/2008	SW846 8021
Chlorobenzene	1	U	1	0.44	1	µg/l	6/9/2008	SW846 8021
Chloroethane	10	U	10	2.84	1	µg/l	6/9/2008	SW846 8021
Chloroform	1	U	1	0.43	1	µg/l	6/9/2008	SW846 8021
Dibromochloromethane	5	U	5	0.92	1	µg/l	6/9/2008	SW846 8021
1,2-Dichlorobenzene	1	U	1	0.37	1	µg/l	6/9/2008	SW846 8021
1,3-Dichlorobenzene	1	U	1	0.44	1	µg/l	6/9/2008	SW846 8021
1,4-Dichlorobenzene	1	U	1	0.22	1	µg/l	6/9/2008	SW846 8021
1,1-Dichloroethane	1	U	1	0.40	1	µg/l	6/9/2008	SW846 8021
1,2-Dichloroethane	1	U	1	0.38	1	µg/l	6/9/2008	SW846 8021
1,1-Dichloroethene	1	U	1	0.48	1	µg/l	6/9/2008	SW846 8021
Cis-1,2-Dichloroethene	1	U	1	0.45	1	µg/l	6/9/2008	SW846 8021
Trans-1,2-Dichloroethene	1	U	1	0.43	1	µg/l	6/9/2008	SW846 8021
1,2-Dichloropropane	1	U	1	0.41	1	µg/l	6/9/2008	SW846 8021
Cis-1,3-Dichloropropene	1	U	1	0.18	1	µg/l	6/9/2008	SW846 8021
Trans-1,3-Dichloropropene	1	U	1	0.36	1	µg/l	6/9/2008	SW846 8021
Ethyl benzene	1	U	1	0.38	1	µg/l	6/9/2008	SW846 8021
Methylene Chloride	1	U	1	0.46	1	µg/l	6/9/2008	SW846 8021
1,1,1,2-Tetrachloroethane	1	U	1	0.38	1	µg/l	6/9/2008	SW846 8021
1,1,2,2-Tetrachloroethane	1	U	1	0.22	1	µg/l	6/9/2008	SW846 8021
Tetrachloroethene	1	U	1	0.27	1	µg/l	6/9/2008	SW846 8021
Toluene	2	U	2	0.49	1	µg/l	6/9/2008	SW846 8021
1,1,1-Trichloroethane	1		1	0.35	1	µg/l	6/9/2008	SW846 8021
1,1,2-Trichloroethane	1	U	1	0.32	1	µg/l	6/9/2008	SW846 8021
Trichloroethene	1	U	1	0.36	1	µg/l	6/9/2008	SW846 8021
Vinyl Chloride	2	U	2	0.89	1	µg/l	6/9/2008	SW846 8021
Total Xylenes	3	U	3	0.41	1	µg/l	6/9/2008	SW846 8021
1,4-Bromofluorobenzene[2]	97%					% Recovery		

MATRIX ENVIRONMENTAL LLC

Mobile Lab Analytical Report
Mobile Lab ID: OH
Matrix Type: Water

PO Box 364
Galena, OH
740-965-8271

Client:	RMT	Matrix Project Number:	056-OHPL-08
Project Name:	Roscoe	Collection Date:	6/9/2008
Project Location:	Roscoe, IL	Report Date:	6/9/2008

Sample ID: CC-05-20

Analyte	Result[4]	Qualifier	RL	MDL[1]	Dilution	Units	Date Analyzed	Analytical Method
Benzene	1	U	1	0.15	1	µg/l	6/9/2008	SW846 8021
Bromodichloromethane	1	U	1	0.50	1	µg/l	6/9/2008	SW846 8021
1,2 Dibromoethane	1	U	1	0.45	1	µg/l	6/9/2008	SW846 8021
Bromoform	10	U	10	0.89	1	µg/l	6/9/2008	SW846 8021
Carbon Tetrachoride	1	U	1	0.41	1	µg/l	6/9/2008	SW846 8021
Chlorobenzene	1	U	1	0.44	1	µg/l	6/9/2008	SW846 8021
Chloroethane	10	U	10	2.84	1	µg/l	6/9/2008	SW846 8021
Chloroform	1	U	1	0.43	1	µg/l	6/9/2008	SW846 8021
Dibromochloromethane	5	U	5	0.92	1	µg/l	6/9/2008	SW846 8021
1,2-Dichlorobenzene	1	U	1	0.37	1	µg/l	6/9/2008	SW846 8021
1,3-Dichlorobenzene	1	U	1	0.44	1	µg/l	6/9/2008	SW846 8021
1,4-Dichlorobenzene	1	U	1	0.22	1	µg/l	6/9/2008	SW846 8021
1,1-Dichloroethane	1	U	1	0.40	1	µg/l	6/9/2008	SW846 8021
1,2-Dichloroethane	1	U	1	0.38	1	µg/l	6/9/2008	SW846 8021
1,1-Dichloroethene	1	U	1	0.48	1	µg/l	6/9/2008	SW846 8021
Cis-1,2-Dichloroethene	1	U	1	0.45	1	µg/l	6/9/2008	SW846 8021
Trans-1,2-Dichloroethene	1	U	1	0.43	1	µg/l	6/9/2008	SW846 8021
1,2-Dichloropropane	1	U	1	0.41	1	µg/l	6/9/2008	SW846 8021
Cis-1,3-Dichloropropene	1	U	1	0.18	1	µg/l	6/9/2008	SW846 8021
Trans-1,3-Dichloropropene	1	U	1	0.36	1	µg/l	6/9/2008	SW846 8021
Ethyl benzene	1	U	1	0.38	1	µg/l	6/9/2008	SW846 8021
Methylene Chloride	1	U	1	0.46	1	µg/l	6/9/2008	SW846 8021
1,1,1,2-Tetrachloroethane	1	U	1	0.38	1	µg/l	6/9/2008	SW846 8021
1,1,2,2-Tetrachloroethane	1	U	1	0.22	1	µg/l	6/9/2008	SW846 8021
Tetrachloroethene	1	U	1	0.27	1	µg/l	6/9/2008	SW846 8021
Toluene	2	U	2	0.49	1	µg/l	6/9/2008	SW846 8021
1,1,1-Trichloroethane	1	U	1	0.35	1	µg/l	6/9/2008	SW846 8021
1,1,2-Trichloroethane	1	U	1	0.32	1	µg/l	6/9/2008	SW846 8021
Trichloroethene	1	U	1	0.36	1	µg/l	6/9/2008	SW846 8021
Vinyl Chloride	2	U	2	0.89	1	µg/l	6/9/2008	SW846 8021
Total Xylenes	3	U	3	0.41	1	µg/l	6/9/2008	SW846 8021
1,4-Bromofluorobenzene[2]	103%					% Recovery		

MATRIX ENVIRONMENTAL LLC

Mobile Lab Analytical Report
Mobile Lab ID: OH
Matrix Type: Water

PO Box 364
Galena, OH
740-965-8271

Client:	RMT	Matrix Project Number:	056-OHPL-08
Project Name:	Roscoe	Collection Date:	6/9/2008
Project Location:	Roscoe, IL	Report Date:	6/9/2008

Sample ID: CC-05-35

Analyte	Result[4]	Qualifier	RL	MDL[1]	Dilution	Units	Date Analyzed	Analytical Method
Benzene	1	U	1	0.15	1	µg/l	6/9/2008	SW846 8021
Bromodichloromethane	1	U	1	0.50	1	µg/l	6/9/2008	SW846 8021
1,2 Dibromoethane	1	U	1	0.45	1	µg/l	6/9/2008	SW846 8021
Bromoform	10	U	10	0.89	1	µg/l	6/9/2008	SW846 8021
Carbon Tetrachoride	1	U	1	0.41	1	µg/l	6/9/2008	SW846 8021
Chlorobenzene	1	U	1	0.44	1	µg/l	6/9/2008	SW846 8021
Chloroethane	10	U	10	2.84	1	µg/l	6/9/2008	SW846 8021
Chloroform	1	U	1	0.43	1	µg/l	6/9/2008	SW846 8021
Dibromochloromethane	5	U	5	0.92	1	µg/l	6/9/2008	SW846 8021
1,2-Dichlorobenzene	1	U	1	0.37	1	µg/l	6/9/2008	SW846 8021
1,3-Dichlorobenzene	1	U	1	0.44	1	µg/l	6/9/2008	SW846 8021
1,4-Dichlorobenzene	1	U	1	0.22	1	µg/l	6/9/2008	SW846 8021
1,1-Dichloroethane	1	U	1	0.40	1	µg/l	6/9/2008	SW846 8021
1,2-Dichloroethane	1	U	1	0.38	1	µg/l	6/9/2008	SW846 8021
1,1-Dichloroethene	1	U	1	0.48	1	µg/l	6/9/2008	SW846 8021
Cis-1,2-Dichloroethene	1	U	1	0.45	1	µg/l	6/9/2008	SW846 8021
Trans-1,2-Dichloroethene	1	U	1	0.43	1	µg/l	6/9/2008	SW846 8021
1,2-Dichloropropane	1	U	1	0.41	1	µg/l	6/9/2008	SW846 8021
Cis-1,3-Dichloropropene	1	U	1	0.18	1	µg/l	6/9/2008	SW846 8021
Trans-1,3-Dichloropropene	1	U	1	0.36	1	µg/l	6/9/2008	SW846 8021
Ethyl benzene	1	U	1	0.38	1	µg/l	6/9/2008	SW846 8021
Methylene Chloride	1	U	1	0.46	1	µg/l	6/9/2008	SW846 8021
1,1,1,2-Tetrachloroethane	1	U	1	0.38	1	µg/l	6/9/2008	SW846 8021
1,1,2,2-Tetrachloroethane	1	U	1	0.22	1	µg/l	6/9/2008	SW846 8021
Tetrachloroethene	1	U	1	0.27	1	µg/l	6/9/2008	SW846 8021
Toluene	2	U	2	0.49	1	µg/l	6/9/2008	SW846 8021
1,1,1-Trichloroethane	1	U	1	0.35	1	µg/l	6/9/2008	SW846 8021
1,1,2-Trichloroethane	1	U	1	0.32	1	µg/l	6/9/2008	SW846 8021
Trichloroethene	1	U	1	0.36	1	µg/l	6/9/2008	SW846 8021
Vinyl Chloride	2	U	2	0.89	1	µg/l	6/9/2008	SW846 8021
Total Xylenes	3	U	3	0.41	1	µg/l	6/9/2008	SW846 8021
1,4-Bromofluorobenzene[2]	101%					% Recovery		

MATRIX ENVIRONMENTAL LLC

Mobile Lab Analytical Report
Mobile Lab ID: OH
Matrix Type: Water

PO Box 364
Galena, OH
740-965-8271

Client:	RMT	Matrix Project Number:	056-OHPL-08
Project Name:	Roscoe	Collection Date:	6/9/2008
Project Location:	Roscoe, IL	Report Date:	6/9/2008

Sample ID: CC-05-55

Analyte	Result[1]	Qualifier	RL	MDL[1]	Dilution	Units	Date Analyzed	Analytical Method
Benzene	1	U	1	0.15	1	µg/l	6/9/2008	SW846 8021
Bromodichloromethane	1	U	1	0.50	1	µg/l	6/9/2008	SW846 8021
1,2 Dibromoethane	1	U	1	0.45	1	µg/l	6/9/2008	SW846 8021
Bromoform	10	U	10	0.89	1	µg/l	6/9/2008	SW846 8021
Carbon Tetrachoride	1	U	1	0.41	1	µg/l	6/9/2008	SW846 8021
Chlorobenzene	1	U	1	0.44	1	µg/l	6/9/2008	SW846 8021
Chloroethane	10	U	10	2.84	1	µg/l	6/9/2008	SW846 8021
Chloroform	1	U	1	0.43	1	µg/l	6/9/2008	SW846 8021
Dibromochloromethane	5	U	5	0.92	1	µg/l	6/9/2008	SW846 8021
1,2-Dichlorobenzene	1	U	1	0.37	1	µg/l	6/9/2008	SW846 8021
1,3-Dichlorobenzene	1	U	1	0.44	1	µg/l	6/9/2008	SW846 8021
1,4-Dichlorobenzene	1	U	1	0.22	1	µg/l	6/9/2008	SW846 8021
1,1-Dichloroethane	1	U	1	0.40	1	µg/l	6/9/2008	SW846 8021
1,2-Dichloroethane	1	U	1	0.38	1	µg/l	6/9/2008	SW846 8021
1,1-Dichloroethene	1	U	1	0.48	1	µg/l	6/9/2008	SW846 8021
Cis-1,2-Dichloroethene	1	U	1	0.45	1	µg/l	6/9/2008	SW846 8021
Trans-1,2-Dichloroethene	1	U	1	0.43	1	µg/l	6/9/2008	SW846 8021
1,2-Dichloropropane	1	U	1	0.41	1	µg/l	6/9/2008	SW846 8021
Cis-1,3-Dichloropropene	1	U	1	0.18	1	µg/l	6/9/2008	SW846 8021
Trans-1,3-Dichloropropene	1	U	1	0.36	1	µg/l	6/9/2008	SW846 8021
Ethyl benzene	1	U	1	0.38	1	µg/l	6/9/2008	SW846 8021
Methylene Chloride	1	U	1	0.46	1	µg/l	6/9/2008	SW846 8021
1,1,1,2-Tetrachloroethane	1	U	1	0.38	1	µg/l	6/9/2008	SW846 8021
1,1,2,2-Tetrachloroethane	1	U	1	0.22	1	µg/l	6/9/2008	SW846 8021
Tetrachloroethene	1	U	1	0.27	1	µg/l	6/9/2008	SW846 8021
Toluene	2	U	2	0.49	1	µg/l	6/9/2008	SW846 8021
1,1,1-Trichloroethane	1	U	1	0.35	1	µg/l	6/9/2008	SW846 8021
1,1,2-Trichloroethane	1	U	1	0.32	1	µg/l	6/9/2008	SW846 8021
Trichloroethene	1	U	1	0.36	1	µg/l	6/9/2008	SW846 8021
Vinyl Chloride	2	U	2	0.89	1	µg/l	6/9/2008	SW846 8021
Total Xylenes	3	U	3	0.41	1	µg/l	6/9/2008	SW846 8021
1,4-Bromofluorobenzene[2]	104%					% Recovery		

MATRIX ENVIRONMENTAL LLC

Mobile Lab Analytical Report
Mobile Lab ID: [illegible]OH
Matrix Type: Water

PO Box 364
Galena, OH
740-965-8271

Client:	RMT	Matrix Project Number:	056-OHPL-08
Project Name:	Roscoe	Collection Date:	6/9/2008
Project Location:	Roscoe, IL	Report Date:	6/9/2008

Sample ID: CC-06-35

Analyte	Result[4]	Qualifier	RL	MDL[1]	Dilution	Units	Date Analyzed	Analytical Method
Benzene	1	U	1	0.15	1	µg/l	6/9/2008	SW846 8021
Bromodichloromethane	1	U	1	0.50	1	µg/l	6/9/2008	SW846 8021
1,2 Dibromoethane	1	U	1	0.45	1	µg/l	6/9/2008	SW846 8021
Bromoform	10	U	10	0.89	1	µg/l	6/9/2008	SW846 8021
Carbon Tetrachoride	1	U	1	0.41	1	µg/l	6/9/2008	SW846 8021
Chlorobenzene	1	U	1	0.44	1	µg/l	6/9/2008	SW846 8021
Chloroethane	10	U	10	2.84	1	µg/l	6/9/2008	SW846 8021
Chloroform	1	U	1	0.43	1	µg/l	6/9/2008	SW846 8021
Dibromochloromethane	5	U	5	0.92	1	µg/l	6/9/2008	SW846 8021
1,2-Dichlorobenzene	1	U	1	0.37	1	µg/l	6/9/2008	SW846 8021
1,3-Dichlorobenzene	1	U	1	0.44	1	µg/l	6/9/2008	SW846 8021
1,4-Dichlorobenzene	1	U	1	0.22	1	µg/l	6/9/2008	SW846 8021
1,1-Dichloroethane	1	U	1	0.40	1	µg/l	6/9/2008	SW846 8021
1,2-Dichloroethane	1	U	1	0.38	1	µg/l	6/9/2008	SW846 8021
1,1-Dichloroethene	1	U	1	0.48	1	µg/l	6/9/2008	SW846 8021
Cis-1,2-Dichloroethene	1	U	1	0.45	1	µg/l	6/9/2008	SW846 8021
Trans-1,2-Dichloroethene	1	U	1	0.43	1	µg/l	6/9/2008	SW846 8021
1,2-Dichloropropane	1	U	1	0.41	1	µg/l	6/9/2008	SW846 8021
Cis-1,3-Dichloropropene	1	U	1	0.18	1	µg/l	6/9/2008	SW846 8021
Trans-1,3-Dichloropropene	1	U	1	0.36	1	µg/l	6/9/2008	SW846 8021
Ethyl benzene	1	U	1	0.38	1	µg/l	6/9/2008	SW846 8021
Methylene Chloride	1	U	1	0.46	1	µg/l	6/9/2008	SW846 8021
1,1,1,2-Tetrachloroethane	1	U	1	0.38	1	µg/l	6/9/2008	SW846 8021
1,1,2,2-Tetrachloroethane	1	U	1	0.22	1	µg/l	6/9/2008	SW846 8021
Tetrachloroethene	1	U	1	0.27	1	µg/l	6/9/2008	SW846 8021
Toluene	2	U	2	0.49	1	µg/l	6/9/2008	SW846 8021
1,1,1-Trichloroethane	1	U	1	0.35	1	µg/l	6/9/2008	SW846 8021
1,1,2-Trichloroethane	1	U	1	0.32	1	µg/l	6/9/2008	SW846 8021
Trichloroethene	1	U	1	0.36	1	µg/l	6/9/2008	SW846 8021
Vinyl Chloride	2	U	2	0.89	1	µg/l	6/9/2008	SW846 8021
Total Xylenes	3	U	3	0.41	1	µg/l	6/9/2008	SW846 8021
1,4-Bromofluorobenzene[2]	109%					% Recovery		

MATRIX ENVIRONMENTAL LLC

Mobile Lab Analytical Report
Mobile Lab ID: [illegible]OH
Matrix Type: Water

PO Box 364
Galena, OH
740-965-8271

Client:	RMT	Matrix Project Number:	056-OHPL-08
Project Name:	Roscoe	Collection Date:	6/9/2008
Project Location:	Roscoe, IL	Report Date:	6/9/2008

Sample ID: CC-06-55

Analyte	Result[4]	Qualifier	RL	MDL[1]	Dilution	Units	Date Analyzed	Analytical Method
Benzene	1	U	1	0.15	1	µg/l	6/9/2008	SW846 8021
Bromodichloromethane	1	U	1	0.50	1	µg/l	6/9/2008	SW846 8021
1,2 Dibromoethane	1	U	1	0.45	1	µg/l	6/9/2008	SW846 8021
Bromoform	10	U	10	0.89	1	µg/l	6/9/2008	SW846 8021
Carbon Tetrachoride	1	U	1	0.41	1	µg/l	6/9/2008	SW846 8021
Chlorobenzene	1	U	1	0.44	1	µg/l	6/9/2008	SW846 8021
Chloroethane	10	U	10	2.84	1	µg/l	6/9/2008	SW846 8021
Chloroform	1	U	1	0.43	1	µg/l	6/9/2008	SW846 8021
Dibromochloromethane	5	U	5	0.92	1	µg/l	6/9/2008	SW846 8021
1,2-Dichlorobenzene	1	U	1	0.37	1	µg/l	6/9/2008	SW846 8021
1,3-Dichlorobenzene	1	U	1	0.44	1	µg/l	6/9/2008	SW846 8021
1,4-Dichlorobenzene	1	U	1	0.22	1	µg/l	6/9/2008	SW846 8021
1,1-Dichloroethane	1	U	1	0.40	1	µg/l	6/9/2008	SW846 8021
1,2-Dichloroethane	1	U	1	0.38	1	µg/l	6/9/2008	SW846 8021
1,1-Dichloroethene	1	U	1	0.48	1	µg/l	6/9/2008	SW846 8021
Cis-1,2-Dichloroethene	1	U	1	0.45	1	µg/l	6/9/2008	SW846 8021
Trans-1,2-Dichloroethene	1	U	1	0.43	1	µg/l	6/9/2008	SW846 8021
1,2-Dichloropropane	1	U	1	0.41	1	µg/l	6/9/2008	SW846 8021
Cis-1,3-Dichloropropene	1	U	1	0.18	1	µg/l	6/9/2008	SW846 8021
Trans-1,3-Dichloropropene	1	U	1	0.36	1	µg/l	6/9/2008	SW846 8021
Ethyl benzene	1	U	1	0.38	1	µg/l	6/9/2008	SW846 8021
Methylene Chloride	1	U	1	0.46	1	µg/l	6/9/2008	SW846 8021
1,1,1,2-Tetrachloroethane	1	U	1	0.38	1	µg/l	6/9/2008	SW846 8021
1,1,2,2-Tetrachloroethane	1	U	1	0.22	1	µg/l	6/9/2008	SW846 8021
Tetrachloroethene	1	U	1	0.27	1	µg/l	6/9/2008	SW846 8021
Toluene	2	U	2	0.49	1	µg/l	6/9/2008	SW846 8021
1,1,1-Trichloroethane	1	U	1	0.35	1	µg/l	6/9/2008	SW846 8021
1,1,2-Trichloroethane	1	U	1	0.32	1	µg/l	6/9/2008	SW846 8021
Trichloroethene	1	U	1	0.36	1	µg/l	6/9/2008	SW846 8021
Vinyl Chloride	2	U	2	0.89	1	µg/l	6/9/2008	SW846 8021
Total Xylenes	3	U	3	0.41	1	µg/l	6/9/2008	SW846 8021
1,4-Bromofluorobenzene[2]	106%					% Recovery		

MATRIX ENVIRONMENTAL LLC

Mobile Lab Analytical Report
Mobile Lab ID: [illegible]H
Matrix Type: Water

PO Box 364
Galena, OH
740-965-8271

Client:	RMT	Matrix Project Number:	056-OHPL-08
Project Name:	Roscoe	Collection Date:	6/9/2008
Project Location:	Roscoe, IL	Report Date:	6/9/2008

Sample ID: CC-06-70

Analyte	Result[4]	Qualifier	RL	MDL[1]	Dilution	Units	Date Analyzed	Analytical Method
Benzene	1	U	1	0.15	1	µg/l	6/9/2008	SW846 8021
Bromodichloromethane	1	U	1	0.50	1	µg/l	6/9/2008	SW846 8021
1,2 Dibromoethane	1	U	1	0.45	1	µg/l	6/9/2008	SW846 8021
Bromoform	10	U	10	0.89	1	µg/l	6/9/2008	SW846 8021
Carbon Tetrachoride	1	U	1	0.41	1	µg/l	6/9/2008	SW846 8021
Chlorobenzene	1	U	1	0.44	1	µg/l	6/9/2008	SW846 8021
Chloroethane	10	U	10	2.84	1	µg/l	6/9/2008	SW846 8021
Chloroform	1	U	1	0.43	1	µg/l	6/9/2008	SW846 8021
Dibromochloromethane	5	U	5	0.92	1	µg/l	6/9/2008	SW846 8021
1,2-Dichlorobenzene	1	U	1	0.37	1	µg/l	6/9/2008	SW846 8021
1,3-Dichlorobenzene	1	U	1	0.44	1	µg/l	6/9/2008	SW846 8021
1,4-Dichlorobenzene	1	U	1	0.22	1	µg/l	6/9/2008	SW846 8021
1,1-Dichloroethane	1	U	1	0.40	1	µg/l	6/9/2008	SW846 8021
1,2-Dichloroethane	1	U	1	0.38	1	µg/l	6/9/2008	SW846 8021
1,1-Dichloroethene	1	U	1	0.48	1	µg/l	6/9/2008	SW846 8021
Cis-1,2-Dichloroethene	1	U	1	0.45	1	µg/l	6/9/2008	SW846 8021
Trans-1,2-Dichloroethene	1	U	1	0.43	1	µg/l	6/9/2008	SW846 8021
1,2-Dichloropropane	1	U	1	0.41	1	µg/l	6/9/2008	SW846 8021
Cis-1,3-Dichloropropene	1	U	1	0.18	1	µg/l	6/9/2008	SW846 8021
Trans-1,3-Dichloropropene	1	U	1	0.36	1	µg/l	6/9/2008	SW846 8021
Ethyl benzene	1	U	1	0.38	1	µg/l	6/9/2008	SW846 8021
Methylene Chloride	1	U	1	0.46	1	µg/l	6/9/2008	SW846 8021
1,1,1,2-Tetrachloroethane	1	U	1	0.38	1	µg/l	6/9/2008	SW846 8021
1,1,2,2-Tetrachloroethane	1	U	1	0.22	1	µg/l	6/9/2008	SW846 8021
Tetrachloroethene	1	U	1	0.27	1	µg/l	6/9/2008	SW846 8021
Toluene	2	U	2	0.49	1	µg/l	6/9/2008	SW846 8021
1,1,1-Trichloroethane	1	U	1	0.35	1	µg/l	6/9/2008	SW846 8021
1,1,2-Trichloroethane	1	U	1	0.32	1	µg/l	6/9/2008	SW846 8021
Trichloroethene	1	U	1	0.36	1	µg/l	6/9/2008	SW846 8021
Vinyl Chloride	2	U	2	0.89	1	µg/l	6/9/2008	SW846 8021
Total Xylenes	3	U	3	0.41	1	µg/l	6/9/2008	SW846 8021
1,4-Bromofluorobenzene[2]	105%					% Recovery		

MATRIX ENVIRONMENTAL LLC

Mobile Lab Analytical Report
Mobile Lab ID: [illegible]
Matrix Type: Water

PO Box 364
Galena, OH
740-965-8271

Client:	RMT	Matrix Project Number:	056-OHPL-08
Project Name:	Roscoe	Collection Date:	6/6/2008
Project Location:	Roscoe, IL	Report Date:	6/6/2008

Sample ID: RB-01

Analyte	Result[4]	Qualifier	RL	MDL[1]	Dilution	Units	Date Analyzed	Analytical Method
Benzene	1	U	1	0.15	1	µg/l	6/6/2008	SW846 8021
Bromodichloromethane	1	U	1	0.50	1	µg/l	6/6/2008	SW846 8021
1,2 Dibromoethane	1	U	1	0.45	1	µg/l	6/6/2008	SW846 8021
Bromoform	10	U	10	0.89	1	µg/l	6/6/2008	SW846 8021
Carbon Tetrachoride	1	U	1	0.41	1	µg/l	6/6/2008	SW846 8021
Chlorobenzene	1	U	1	0.44	1	µg/l	6/6/2008	SW846 8021
Chloroethane	10	U	10	2.84	1	µg/l	6/6/2008	SW846 8021
Chloroform	1	U	1	0.43	1	µg/l	6/6/2008	SW846 8021
Dibromochloromethane	5	U	5	0.92	1	µg/l	6/6/2008	SW846 8021
1,2-Dichlorobenzene	1	U	1	0.37	1	µg/l	6/6/2008	SW846 8021
1,3-Dichlorobenzene	1	U	1	0.44	1	µg/l	6/6/2008	SW846 8021
1,4-Dichlorobenzene	1	U	1	0.22	1	µg/l	6/6/2008	SW846 8021
1,1-Dichloroethane	1	U	1	0.40	1	µg/l	6/6/2008	SW846 8021
1,2-Dichloroethane	1	U	1	0.38	1	µg/l	6/6/2008	SW846 8021
1,1-Dichloroethene	1	U	1	0.48	1	µg/l	6/6/2008	SW846 8021
Cis-1,2-Dichloroethene	1	U	1	0.45	1	µg/l	6/6/2008	SW846 8021
Trans-1,2-Dichloroethene	1	U	1	0.43	1	µg/l	6/6/2008	SW846 8021
1,2-Dichloropropane	1	U	1	0.41	1	µg/l	6/6/2008	SW846 8021
Cis-1,3-Dichloropropene	1	U	1	0.18	1	µg/l	6/6/2008	SW846 8021
Trans-1,3-Dichloropropene	1	U	1	0.36	1	µg/l	6/6/2008	SW846 8021
Ethyl benzene	1	U	1	0.38	1	µg/l	6/6/2008	SW846 8021
Methylene Chloride	1	U	1	0.46	1	µg/l	6/6/2008	SW846 8021
1,1,1,2-Tetrachloroethane	1	U	1	0.38	1	µg/l	6/6/2008	SW846 8021
1,1,2,2-Tetrachloroethane	1	U	1	0.22	1	µg/l	6/6/2008	SW846 8021
Tetrachloroethene	1	U	1	0.27	1	µg/l	6/6/2008	SW846 8021
Toluene	2	U	2	0.49	1	µg/l	6/6/2008	SW846 8021
1,1,1-Trichloroethane	1	U	1	0.35	1	µg/l	6/6/2008	SW846 8021
1,1,2-Trichloroethane	1	U	1	0.32	1	µg/l	6/6/2008	SW846 8021
Trichloroethene	1	U	1	0.36	1	µg/l	6/6/2008	SW846 8021
Vinyl Chloride	2	U	2	0.89	1	µg/l	6/6/2008	SW846 8021
Total Xylenes	3	U	3	0.41	1	µg/l	6/6/2008	SW846 8021
1,4-Bromofluorobenzene[2]	102%				% Recovery			

Pace Analytical®
www.pacelabs.com

Pace Analytical Services, Inc.
1241 Bellevue Street
Green Bay, WI 54302
(920)469-2436

June 10, 2008

JIM BUSS
RMT MADISON
744 HEARTLAND TRAIL
Madison, WI 537171934

RE: Project: 2541.27 DANA ROSCOE
Pace Project No.: 404792

Dear JIM BUSS:
Enclosed are the analytical results for sample(s) received by the laboratory on June 06, 2008. The results relate only to the samples included in this report. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

for Tod N.

Tod Noltemeyer

tod.noltemeyer@pacelabs.com
Project Manager

Enclosures

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Pace Analytical Services, Inc.
1241 Bellevue Street
Green Bay, WI 54302
(920)469-2436

CERTIFICATIONS

Project: 2541.27 DANA ROSCOE
Pace Project No.: 404792

Green Bay Certification IDs

Florida (NELAP) Certification #: E87948
Illinois Certification #: 200050
California Certification #: 06246CA
New York Certification #: 11888
North Dakota Certification #: R-150
North Carolina Certification #: 503
Minnesota Certification #: 055-999-334
South Carolina Certification #: 83006001
Wisconsin Certification #: 405132750
Wisconsin DATCP Certification #: 105-444
Kentucky Certification #: 82
Louisiana Certification #: 04168

Green Bay Volatiles Certification IDs

Florida (NELAP) Certification #: E87951
California Certification #: 06247CA
Illinois Certification #: 200051
New York Certification #: 11887
North Dakota Certification #: R-200
North Carolina Certification #: 503
Minnesota Certification #: 055-999-334
South Carolina Certification #: 83006001
Wisconsin Certification #: 405132750
Wisconsin DATCP Certification #: 105-444
Kentucky Certification #: 83
Louisiana Certification #: 04169

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Green Bay, WI 54302
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SAMPLE SUMMARY

Project: 2541.27 DANA ROSCOE
Pace Project No.: 404792

Lab ID	Sample ID	Matrix	Date Collected	Date Received
404792001	**AA-07-35**	Water	06/03/08 17:15	06/06/08 08:45
404792002	**AA-07-30**	Water	06/03/08 17:25	06/06/08 08:45
404792003	**AA-14-35**	Water	06/04/08 15:00	06/06/08 08:45

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SAMPLE ANALYTE COUNT

Project: 2541.27 DANA ROSCOE
Pace Project No.: 404792

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
404792001	AA-07-35	EPA 8260	JJS	14	PASI-G
404792002	AA-07-30	EPA 8260	JJS	14	PASI-G
404792003	AA-14-35	EPA 8260	JJS	14	PASI-G

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PROJECT NARRATIVE

Project: 2541.27 DANA ROSCOE
Pace Project No.: 404792

Method: EPA 8260
Description: 8260 MSV
Client: RMT MADISON
Date: June 10, 2008

General Information:
3 samples were analyzed for EPA 8260. All samples were received in acceptable condition with any exceptions noted below.

pH: Post-analysis pH measurement indicates insufficient VOA sample preservation.
- AA-07-30 (Lab ID: 404792002)
- AA-07-35 (Lab ID: 404792001)
- AA-14-35 (Lab ID: 404792003)

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Internal Standards:
All internal standards were within QC limits with any exceptions noted below.

Surrogates:
All surrogates were within QC limits with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.

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ANALYTICAL RESULTS

Project: 2541.27 DANA ROSCOE
Pace Project No.: 404792

Sample: AA-07-35 **Lab ID: 404792001** Collected: 06/03/08 17:15 Received: 06/06/08 08:45 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
1,1,1-Trichloroethane	**<1.0**	ug/L	1.0	0.90	1		06/09/08 14:10	71-55-6	
1,1-Dichloroethane	**<1.0**	ug/L	1.0	0.75	1		06/09/08 14:10	75-34-3	
1,4-Dichlorobenzene	**<1.0**	ug/L	1.0	0.95	1		06/09/08 14:10	106-46-7	
Dichlorodifluoromethane	**<1.0**	ug/L	1.0	0.99	1		06/09/08 14:10	75-71-8	
Methylene Chloride	**<1.0**	ug/L	1.0	0.43	1		06/09/08 14:10	75-09-2	
Tetrachloroethene	**<1.0**	ug/L	1.0	0.45	1		06/09/08 14:10	127-18-4	
Toluene	**<1.0**	ug/L	1.0	0.67	1		06/09/08 14:10	108-88-3	
Trichloroethene	**1.1**	ug/L	1.0	0.48	1		06/09/08 14:10	79-01-6	
Vinyl chloride	**<1.0**	ug/L	1.0	0.18	1		06/09/08 14:10	75-01-4	
cis-1,2-Dichloroethene	**<1.0**	ug/L	1.0	0.83	1		06/09/08 14:10	156-59-2	
trans-1,2-Dichloroethene	**<1.0**	ug/L	1.0	0.89	1		06/09/08 14:10	156-60-5	
4-Bromofluorobenzene (S)	89	%	64-132		1		06/09/08 14:10	460-00-4	pH
Dibromofluoromethane (S)	111	%	68-122		1		06/09/08 14:10	1868-53-7	
Toluene-d8 (S)	106	%	73-127		1		06/09/08 14:10	2037-26-5	

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ANALYTICAL RESULTS

Project: 2541.27 DANA ROSCOE
Pace Project No.: 404792

Sample: AA-07-30 **Lab ID: 404792002** Collected: 06/03/08 17:25 Received: 06/06/08 08:45 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
1,1,1-Trichloroethane	**<1.0**	ug/L	1.0	0.90	1		06/09/08 16:56	71-55-6	
1,1-Dichloroethane	**<1.0**	ug/L	1.0	0.75	1		06/09/08 16:56	75-34-3	
1,4-Dichlorobenzene	**<1.0**	ug/L	1.0	0.95	1		06/09/08 16:56	106-46-7	
Dichlorodifluoromethane	**<1.0**	ug/L	1.0	0.99	1		06/09/08 16:56	75-71-8	
Methylene Chloride	**<1.0**	ug/L	1.0	0.43	1		06/09/08 16:56	75-09-2	
Tetrachloroethene	**<1.0**	ug/L	1.0	0.45	1		06/09/08 16:56	127-18-4	
Toluene	**<1.0**	ug/L	1.0	0.67	1		06/09/08 16:56	108-88-3	
Trichloroethene	**<1.0**	ug/L	1.0	0.48	1		06/09/08 16:56	79-01-6	
Vinyl chloride	**<1.0**	ug/L	1.0	0.18	1		06/09/08 16:56	75-01-4	
cis-1,2-Dichloroethene	**<1.0**	ug/L	1.0	0.83	1		06/09/08 16:56	156-59-2	
trans-1,2-Dichloroethene	**<1.0**	ug/L	1.0	0.89	1		06/09/08 16:56	156-60-5	
4-Bromofluorobenzene (S)	91	%	64-132		1		06/09/08 16:56	460-00-4	pH
Dibromofluoromethane (S)	111	%	68-122		1		06/09/08 16:56	1868-53-7	
Toluene-d8 (S)	105	%	73-127		1		06/09/08 16:56	2037-26-5	

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ANALYTICAL RESULTS

Project: 2541.27 DANA ROSCOE
Pace Project No.: 404792

Sample: AA-14-35 **Lab ID: 404792003** Collected: 06/04/08 15:00 Received: 06/06/08 08:45 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
1,1,1-Trichloroethane	**<1.0**	ug/L	1.0	0.90	1		06/09/08 15:45	71-55-6	
1,1-Dichloroethane	**<1.0**	ug/L	1.0	0.75	1		06/09/08 15:45	75-34-3	
1,4-Dichlorobenzene	**<1.0**	ug/L	1.0	0.95	1		06/09/08 15:45	106-46-7	
Dichlorodifluoromethane	**<1.0**	ug/L	1.0	0.99	1		06/09/08 15:45	75-71-8	
Methylene Chloride	**<1.0**	ug/L	1.0	0.43	1		06/09/08 15:45	75-09-2	
Tetrachloroethene	**<1.0**	ug/L	1.0	0.45	1		06/09/08 15:45	127-18-4	
Toluene	**<1.0**	ug/L	1.0	0.67	1		06/09/08 15:45	108-88-3	
Trichloroethene	**<1.0**	ug/L	1.0	0.48	1		06/09/08 15:45	79-01-6	
Vinyl chloride	**<1.0**	ug/L	1.0	0.18	1		06/09/08 15:45	75-01-4	
cis-1,2-Dichloroethene	**<1.0**	ug/L	1.0	0.83	1		06/09/08 15:45	156-59-2	
trans-1,2-Dichloroethene	**<1.0**	ug/L	1.0	0.89	1		06/09/08 15:45	156-60-5	
4-Bromofluorobenzene (S)	89	%	64-132		1		06/09/08 15:45	460-00-4	pH
Dibromofluoromethane (S)	110	%	68-122		1		06/09/08 15:45	1868-53-7	
Toluene-d8 (S)	107	%	73-127		1		06/09/08 15:45	2037-26-5	

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QUALITY CONTROL DATA

Project: 2541.27 DANA ROSCOE
Pace Project No.: 404792

QC Batch: MSV/1874 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV
Associated Lab Samples: 404792001, 404792002, 404792003

METHOD BLANK: 37778
Associated Lab Samples: 404792001, 404792002, 404792003

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
1,1,1-Trichloroethane	ug/L	<1.0	1.0	
1,1-Dichloroethane	ug/L	<1.0	1.0	
1,4-Dichlorobenzene	ug/L	<1.0	1.0	
cis-1,2-Dichloroethene	ug/L	<1.0	1.0	
Dichlorodifluoromethane	ug/L	<1.0	1.0	
Methylene Chloride	ug/L	<1.0	1.0	
Tetrachloroethene	ug/L	<1.0	1.0	
Toluene	ug/L	<1.0	1.0	
trans-1,2-Dichloroethene	ug/L	<1.0	1.0	
Trichloroethene	ug/L	<1.0	1.0	
Vinyl chloride	ug/L	<1.0	1.0	
4-Bromofluorobenzene (S)	%	92	64-132	
Dibromofluoromethane (S)	%	109	68-122	
Toluene-d8 (S)	%	106	73-127	

LABORATORY CONTROL SAMPLE & LCSD: 37779 37780

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
1,1,1-Trichloroethane	ug/L	50	47.9	53.3	96	107	75-128	11	20	
1,1-Dichloroethane	ug/L	50	45.8	48.4	92	97	71-130	5	20	
cis-1,2-Dichloroethene	ug/L	50	51.9	58.1	104	116	75-125	11	20	
Methylene Chloride	ug/L	50	49.9	56.1	100	112	75-125	12	20	
Tetrachloroethene	ug/L	50	44.5	48.8	89	98	75-130	9	20	
Toluene	ug/L	50	47.3	51.6	95	103	75-125	9	20	
trans-1,2-Dichloroethene	ug/L	50	51.5	55.8	103	112	75-125	8	20	
Trichloroethene	ug/L	50	49.4	53.2	99	106	75-125	7	20	
Vinyl chloride	ug/L	50	53.0	58.8	106	118	65-130	10	20	
4-Bromofluorobenzene (S)	%				94	94	64-132			
Dibromofluoromethane (S)	%				111	115	68-122			
Toluene-d8 (S)	%				106	107	73-127			

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 37873 37874

Parameter	Units	404735001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,1,1-Trichloroethane	ug/L	<0.90	50	50	53.3	52.5	107	105	70-130	2	30	
1,1-Dichloroethane	ug/L	<0.75	50	50	49.1	48.9	98	98	70-130	.5	30	
cis-1,2-Dichloroethene	ug/L	<0.83	50	50	56.6	57.5	113	115	70-130	1	30	
Methylene Chloride	ug/L	<0.43	50	50	54.8	54.8	110	110	70-130	.07	30	
Tetrachloroethene	ug/L	<0.45	50	50	49.0	50.0	98	100	70-130	2	30	

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QUALITY CONTROL DATA

Project: 2541.27 DANA ROSCOE
Pace Project No.: 404792

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 37873 37874

Parameter	Units	404735001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Toluene	ug/L	<0.67	50	50	51.1	51.8	101	103	70-130	1	30	
trans-1,2-Dichloroethene	ug/L	<0.89	50	50	56.6	56.5	113	113	70-130	.2	30	
Trichloroethene	ug/L	<0.48	50	50	52.0	54.7	104	109	70-130	5	30	
Vinyl chloride	ug/L	<0.18	50	50	56.3	54.0	113	108	62-138	4	30	
4-Bromofluorobenzene (S)	%						95	93	64-132			
Dibromofluoromethane (S)	%						113	110	68-122			
Toluene-d8 (S)	%						106	105	73-127			

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QUALIFIERS

Project: 2541.27 DANA ROSCOE
Pace Project No.: 404792

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

Pace Analytical is NELAP accredited. Contact your Pace PM for the current list of accredited analytes.

LABORATORIES

PASI-G Pace Analytical Services - Green Bay

ANALYTE QUALIFIERS

pH Post-analysis pH measurement indicates insufficient VOA sample preservation.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 2541.27 DANA ROSCOE
Pace Project No.: 404792

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
404792001	AA-07-35	EPA 8260	MSV/1874		
404792002	AA-07-30	EPA 8260	MSV/1874		
404792003	AA-14-35	EPA 8260	MSV/1874		

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Sample Condition Upon Receipt

Pace Analytical

Client Name: RMT Madison Project # 404792

Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☐ Pace Other WaHID

Tracking #: _____

Optional
Proj. Due Date:
Proj. Name:

Custody Seal on Cooler/Box Present: ☐ yes ☒ no Seals intact: ☐ yes ☐ no

Packing Material: ☐ Bubble Wrap ☒ Bubble Bags ☐ None ☐ Other _____

Thermometer Used TB **Type of Ice:** Wet Blue None ☐ Samples on ice, cooling process has begun

Cooler Temperature 1.5°C **Biological Tissue is Frozen:** Yes No

Date and Initials of person examining contents: 6/6/08 AB

Temp should be above freezing to 6°C

Comments:

Chain of Custody Present:	☒Yes	☐No	☐N/A	1.
Chain of Custody Filled Out:	☒Yes	☐No	☐N/A	2.
Chain of Custody Relinquished:	☒Yes	☐No	☐N/A	3.
Sampler Name & Signature on COC:	☒Yes	☐No	☐N/A	4.
Samples Arrived within Hold Time:	☒Yes	☐No	☐N/A	5.
Short Hold Time Analysis (<72hr):	☐Yes	☒No	☐N/A	6.
Rush Turn Around Time Requested:	☐Yes	☒No	☐N/A	7.
Sufficient Volume:	☒Yes	☐No	☐N/A	8.
Correct Containers Used:	☒Yes	☐No	☐N/A	9.
-Pace Containers Used:	☒Yes	☐No	☐N/A	
Containers Intact:	☒Yes	☐No	☐N/A	10.
Filtered volume received for Dissolved tests	☐Yes	☐No	☒N/A	11.
Sample Labels match COC:	☒Yes	☐No	☐N/A	12.
-Includes date/time/ID/Analysis Matrix: W				
All containers needing preservation have been checked.	☐Yes	☐No	☒N/A	13.
All containers needing preservation are found to be in compliance with EPA recommendation.	☐Yes	☐No	☒N/A	
exceptions: VOA, coliform, TOC, O&G, WI-DRO (water)	☐Yes	☐No		Initial when completed / Lot # of added preservative
Samples checked for dechlorination:	☐Yes	☐No	☒N/A	14.
Headspace in VOA Vials (>6mm):	☐Yes	☒No	☐N/A	15.
Trip Blank Present:	☐Yes	☒No	☐N/A	16.
Trip Blank Custody Seals Present	☐Yes	☐No	☒N/A	
Pace Trip Blank Lot # (if purchased): _____				

Client Notification/ Resolution: Field Data Required? Y / N

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: AH **Date:** 6/6/08

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e out of hold, incorrect preservative, out of temp, incorrect containers)

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F-ALL-C-003-REV.3 (11Sep2005)

(Please Print Clearly)

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UPPER MIDWEST REGION
MN: 612-607-1700 WI: 920-469-2436

COC No. 031105

CHAIN OF CUSTODY

*Preservation Codes
A=None B=HCL C=H2SO4 D=HNO3 E=DI Water F=Methanol G=NaOH
H=Sodium Bisulfate Solution I=Sodium Thiosulfate J=Other

Company Name:	RMT
Branch/Location:	Madison
Project Contact:	Jim Buss / Lance Bakken
Phone:	608-831-4444
Project Number:	254127
Project Name:	Dana Roscoe
Project State:	IL
Sampled By (Print):	Lance Bakken
Sampled By (Sign):	[signature]
PO #:	
Regulatory Program:	

Quote #:	
Mail To Contact:	Jim Buss
Mail To Company:	RMT
Mail To Address:	Madison
Invoice To Contact:	Jim Buss
Invoice To Company:	
Invoice To Address:	
Invoice To Phone:	

Data Package Options (billable)
- ☐ EPA Level III
- ☐ EPA Level IV

MS/MSD
- ☐ On your sample (billable)
- ☐ NOT needed on your sample

Matrix Codes
A = Air, B = Biota, C = Charcoal, O = Oil, S = Soil, Sl = Sludge, W = Water, DW = Drinking Water, GW = Ground Water, SW = Surface Water, WW = Waste Water, WP = Wipe

FILTERED? (YES/NO) Y/N: N
PRESERVATION (CODE)* Pick Letter: A

Analyses Requested: See Attached VOC list

PACE LAB #	CLIENT FIELD ID	COLLECTION DATE	COLLECTION TIME	MATRIX	Analyses Requested	CLIENT COMMENTS	LAB COMMENTS (Lab Use Only)	Profile #
001	AA-07-35	6/3/08	1715	GW	X	3-40 ml B		
002	AA-07-30	6/3/08	1725	GW	X			
003	AA-14-35	6/4/08	1500	GW	X			

Rush Turnaround Time Requested - Prelims
(Rush TAT subject to approval/surcharge)
Date Needed:

Transmit Prelim Rush Results by (complete what you want):

Email #1:	
Email #2:	
Telephone:	
Fax:	

Samples on HOLD are subject to special pricing and release of liability

Relinquished By:	Date/Time:	Received By:	Date/Time:
[signature]	6/4/08 1900	[signature]	6/5/08 1345
[signature]	6/5/08 1536	Walco	
Walco	6/6/08 0845	[signature]	6/6/08 0845

PACE Project No. 404792

Receipt Temp = 1.5 °C

Sample Receipt pH OK / Adjusted NA

Cooler Custody Seal Present / Not Present
Intact / Not Intact

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www.pacelabs.com

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1241 Bellevue Street
Green Bay, WI 54302
(920)469-2436

June 20, 2008

JIM BUSS
RMT MADISON
744 HEARTLAND TRAIL
Madison, WI 537171934

RE: Project: DANA ROSCOE
Pace Project No.: 405011

Dear JIM BUSS:
Enclosed are the analytical results for sample(s) received by the laboratory on June 12, 2008. The results relate only to the samples included in this report. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,
for Tod N.

Tod Noltemeyer

tod.noltemeyer@pacelabs.com
Project Manager

Enclosures

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CERTIFICATIONS

Project: DANA ROSCOE
Pace Project No.: 405011

Green Bay Certification IDs
Florida (NELAP) Certification #: E87948
Illinois Certification #: 200050
California Certification #: 06246CA
New York Certification #: 11888
North Dakota Certification #: R-150
North Carolina Certification #: 503
Minnesota Certification #: 055-999-334
South Carolina Certification #: 83006001
Wisconsin Certification #: 405132750
Wisconsin DATCP Certification #: 105-444
Kentucky Certification #: 82
Louisiana Certification #: 04168

Green Bay Volatiles Certification IDs
Florida (NELAP) Certification #: E87951
California Certification #: 06247CA
Illinois Certification #: 200051
New York Certification #: 11887
North Dakota Certification #: R-200
North Carolina Certification #: 503
Minnesota Certification #: 055-999-334
South Carolina Certification #: 83006001
Wisconsin Certification #: 405132750
Wisconsin DATCP Certification #: 105-444
Kentucky Certification #: 83
Louisiana Certification #: 04169

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SAMPLE SUMMARY

Project: DANA ROSCOE
Pace Project No.: 405011

Lab ID	Sample ID	Matrix	Date Collected	Date Received
405011001	BB-02-70	Water	06/10/08 09:50	06/12/08 08:45
405011002	BB-02-50	Water	06/10/08 10:00	06/12/08 08:45
405011003	BB-02-35	Water	06/10/08 10:10	06/12/08 08:45
405011004	BB-04-70	Water	06/10/08 13:30	06/12/08 08:45
405011005	BB-04-50	Water	06/10/08 13:40	06/12/08 08:45
405011006	BB-04-35	Water	06/10/08 13:50	06/12/08 08:45
405011007	BB-05-70	Water	06/10/08 14:45	06/12/08 08:45
405011008	BB-05-50	Water	06/10/08 14:55	06/12/08 08:45
405011009	BB-05-35	Water	06/10/08 15:10	06/12/08 08:45
405011010	SD-04 4-6'	Solid	06/10/08 17:00	06/12/08 08:45
405011011	SD-01 8-9'	Solid	06/10/08 17:40	06/12/08 08:45
405011012	SD-02 7-8'	Solid	06/10/08 19:00	06/12/08 08:45

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SAMPLE ANALYTE COUNT

Project: DANA ROSCOE
Pace Project No.: 405011

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
405011001	BB-02-70	EPA 8260	JJS	14	PASI-G
405011002	BB-02-50	EPA 8260	JJS	14	PASI-G
405011003	BB-02-35	EPA 8260	JJS	14	PASI-G
405011004	BB-04-70	EPA 8260	JJS	14	PASI-G
405011005	BB-04-50	EPA 8260	JJS	14	PASI-G
405011006	BB-04-35	EPA 8260	JJS	14	PASI-G
405011007	BB-05-70	EPA 8260	JJS	14	PASI-G
405011008	BB-05-50	EPA 8260	JJS	14	PASI-G
405011009	BB-05-35	EPA 8260	JJS	14	PASI-G
405011010	SD-04 4-6'	EPA 8260	JJB	14	PASI-G
405011011	SD-01 8-9'	EPA 8260	JJB	14	PASI-G
405011012	SD-02 7-8'	EPA 8260	JJB	14	PASI-G

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PROJECT NARRATIVE

Project: DANA ROSCOE
Pace Project No.: 405011

Method: EPA 8260
Description: 8260 MSV
Client: RMT MADISON
Date: June 20, 2008

General Information:
9 samples were analyzed for EPA 8260. All samples were received in acceptable condition with any exceptions noted below.

pH: Post-analysis pH measurement indicates insufficient VOA sample preservation.
- BB-02-35 (Lab ID: 405011003)
- BB-02-50 (Lab ID: 405011002)
- BB-02-70 (Lab ID: 405011001)
- BB-04-35 (Lab ID: 405011006)
- BB-04-50 (Lab ID: 405011005)
- BB-04-70 (Lab ID: 405011004)
- BB-05-35 (Lab ID: 405011009)
- BB-05-50 (Lab ID: 405011008)
- BB-05-70 (Lab ID: 405011007)

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Internal Standards:
All internal standards were within QC limits with any exceptions noted below.

Surrogates:
All surrogates were within QC limits with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: DANA ROSCOE
Pace Project No.: 405011

Method: EPA 8260
Description: 8260 MSV 5030 Low Level
Client: RMT MADISON
Date: June 20, 2008

General Information:
2 samples were analyzed for EPA 8260. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Internal Standards:
All internal standards were within QC limits with any exceptions noted below.

Surrogates:
All surrogates were within QC limits with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: MSV/1961

A matrix spike/matrix spike duplicate was not performed due to insufficient sample volume.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: DANA ROSCOE
Pace Project No.: 405011

Method: EPA 8260
Description: 8260 MSV Med Level Full List
Client: RMT MADISON
Date: June 20, 2008

General Information:
1 sample was analyzed for EPA 8260. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:
The samples were prepared in accordance with EPA 5035/5030B with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Internal Standards:
All internal standards were within QC limits with any exceptions noted below.

Surrogates:
All surrogates were within QC limits with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: MSV/1959

A matrix spike/matrix spike duplicate was not performed due to insufficient sample volume.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.

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ANALYTICAL RESULTS

Project: DANA ROSCOE
Pace Project No.: 405011

Sample: BB-02-70 **Lab ID: 405011001** Collected: 06/10/08 09:50 Received: 06/12/08 08:45 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
1,1,1-Trichloroethane	**<1.0**	ug/L	1.0	0.90	1		06/17/08 07:41	71-55-6	
1,1-Dichloroethane	**<1.0**	ug/L	1.0	0.75	1		06/17/08 07:41	75-34-3	
1,4-Dichlorobenzene	**<1.0**	ug/L	1.0	0.95	1		06/17/08 07:41	106-46-7	
Dichlorodifluoromethane	**<1.0**	ug/L	1.0	0.99	1		06/17/08 07:41	75-71-8	
Methylene Chloride	**<1.0**	ug/L	1.0	0.43	1		06/17/08 07:41	75-09-2	
Tetrachloroethene	**<1.0**	ug/L	1.0	0.45	1		06/17/08 07:41	127-18-4	
Toluene	**<1.0**	ug/L	1.0	0.67	1		06/17/08 07:41	108-88-3	
Trichloroethene	**5.6**	ug/L	1.0	0.48	1		06/17/08 07:41	79-01-6	
Vinyl chloride	**<1.0**	ug/L	1.0	0.18	1		06/17/08 07:41	75-01-4	
cis-1,2-Dichloroethene	**3.6**	ug/L	1.0	0.83	1		06/17/08 07:41	156-59-2	
trans-1,2-Dichloroethene	**<1.0**	ug/L	1.0	0.89	1		06/17/08 07:41	156-60-5	
4-Bromofluorobenzene (S)	91	%	64-132		1		06/17/08 07:41	460-00-4	pH
Dibromofluoromethane (S)	107	%	68-122		1		06/17/08 07:41	1868-53-7	
Toluene-d8 (S)	108	%	73-127		1		06/17/08 07:41	2037-26-5	

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ANALYTICAL RESULTS

Project: DANA ROSCOE
Pace Project No.: 405011

Sample: BB-02-50 **Lab ID: 405011002** Collected: 06/10/08 10:00 Received: 06/12/08 08:45 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
1,1,1-Trichloroethane	**<1.0**	ug/L	1.0	0.90	1		06/17/08 08:05	71-55-6	
1,1-Dichloroethane	**<1.0**	ug/L	1.0	0.75	1		06/17/08 08:05	75-34-3	
1,4-Dichlorobenzene	**<1.0**	ug/L	1.0	0.95	1		06/17/08 08:05	106-46-7	
Dichlorodifluoromethane	**<1.0**	ug/L	1.0	0.99	1		06/17/08 08:05	75-71-8	
Methylene Chloride	**<1.0**	ug/L	1.0	0.43	1		06/17/08 08:05	75-09-2	
Tetrachloroethene	**<1.0**	ug/L	1.0	0.45	1		06/17/08 08:05	127-18-4	
Toluene	**<1.0**	ug/L	1.0	0.67	1		06/17/08 08:05	108-88-3	
Trichloroethene	**<1.0**	ug/L	1.0	0.48	1		06/17/08 08:05	79-01-6	
Vinyl chloride	**<1.0**	ug/L	1.0	0.18	1		06/17/08 08:05	75-01-4	
cis-1,2-Dichloroethene	**1.7**	ug/L	1.0	0.83	1		06/17/08 08:05	156-59-2	
trans-1,2-Dichloroethene	**<1.0**	ug/L	1.0	0.89	1		06/17/08 08:05	156-60-5	
4-Bromofluorobenzene (S)	87	%	64-132		1		06/17/08 08:05	460-00-4	pH
Dibromofluoromethane (S)	115	%	68-122		1		06/17/08 08:05	1868-53-7	
Toluene-d8 (S)	109	%	73-127		1		06/17/08 08:05	2037-26-5	

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ANALYTICAL RESULTS

Project: DANA ROSCOE
Pace Project No.: 405011

Sample: BB-02-35 **Lab ID: 405011003** Collected: 06/10/08 10:10 Received: 06/12/08 08:45 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
1,1,1-Trichloroethane	**<1.0**	ug/L	1.0	0.90	1		06/17/08 08:36	71-55-6	
1,1-Dichloroethane	**<1.0**	ug/L	1.0	0.75	1		06/17/08 08:36	75-34-3	
1,4-Dichlorobenzene	**<1.0**	ug/L	1.0	0.95	1		06/17/08 08:36	106-46-7	
Dichlorodifluoromethane	**<1.0**	ug/L	1.0	0.99	1		06/17/08 08:36	75-71-8	
Methylene Chloride	**<1.0**	ug/L	1.0	0.43	1		06/17/08 08:36	75-09-2	
Tetrachloroethene	**<1.0**	ug/L	1.0	0.45	1		06/17/08 08:36	127-18-4	
Toluene	**<1.0**	ug/L	1.0	0.67	1		06/17/08 08:36	108-88-3	
Trichloroethene	**<1.0**	ug/L	1.0	0.48	1		06/17/08 08:36	79-01-6	
Vinyl chloride	**<1.0**	ug/L	1.0	0.18	1		06/17/08 08:36	75-01-4	
cis-1,2-Dichloroethene	**<1.0**	ug/L	1.0	0.83	1		06/17/08 08:36	156-59-2	
trans-1,2-Dichloroethene	**<1.0**	ug/L	1.0	0.89	1		06/17/08 08:36	156-60-5	
4-Bromofluorobenzene (S)	89	%	64-132		1		06/17/08 08:36	460-00-4	pH
Dibromofluoromethane (S)	114	%	68-122		1		06/17/08 08:36	1868-53-7	
Toluene-d8 (S)	109	%	73-127		1		06/17/08 08:36	2037-26-5	

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ANALYTICAL RESULTS

Project: DANA ROSCOE
Pace Project No.: 405011

Sample: BB-04-70 **Lab ID: 405011004** Collected: 06/10/08 13:30 Received: 06/12/08 08:45 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
1,1,1-Trichloroethane	**1.2**	ug/L	1.0	0.90	1		06/17/08 09:00	71-55-6	
1,1-Dichloroethane	**<1.0**	ug/L	1.0	0.75	1		06/17/08 09:00	75-34-3	
1,4-Dichlorobenzene	**<1.0**	ug/L	1.0	0.95	1		06/17/08 09:00	106-46-7	
Dichlorodifluoromethane	**<1.0**	ug/L	1.0	0.99	1		06/17/08 09:00	75-71-8	
Methylene Chloride	**<1.0**	ug/L	1.0	0.43	1		06/17/08 09:00	75-09-2	
Tetrachloroethene	**<1.0**	ug/L	1.0	0.45	1		06/17/08 09:00	127-18-4	
Toluene	**<1.0**	ug/L	1.0	0.67	1		06/17/08 09:00	108-88-3	
Trichloroethene	**20.9**	ug/L	1.0	0.48	1		06/17/08 09:00	79-01-6	
Vinyl chloride	**<1.0**	ug/L	1.0	0.18	1		06/17/08 09:00	75-01-4	
cis-1,2-Dichloroethene	**12.7**	ug/L	1.0	0.83	1		06/17/08 09:00	156-59-2	
trans-1,2-Dichloroethene	**<1.0**	ug/L	1.0	0.89	1		06/17/08 09:00	156-60-5	
4-Bromofluorobenzene (S)	91	%	64-132		1		06/17/08 09:00	460-00-4	pH
Dibromofluoromethane (S)	111	%	68-122		1		06/17/08 09:00	1868-53-7	
Toluene-d8 (S)	110	%	73-127		1		06/17/08 09:00	2037-26-5	

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ANALYTICAL RESULTS

Project: DANA ROSCOE
Pace Project No.: 405011

Sample: BB-04-50 **Lab ID: 405011005** Collected: 06/10/08 13:40 Received: 06/12/08 08:45 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
1,1,1-Trichloroethane	**1.3**	ug/L	1.0	0.90	1		06/17/08 09:23	71-55-6	
1,1-Dichloroethane	**<1.0**	ug/L	1.0	0.75	1		06/17/08 09:23	75-34-3	
1,4-Dichlorobenzene	**<1.0**	ug/L	1.0	0.95	1		06/17/08 09:23	106-46-7	
Dichlorodifluoromethane	**<1.0**	ug/L	1.0	0.99	1		06/17/08 09:23	75-71-8	
Methylene Chloride	**<1.0**	ug/L	1.0	0.43	1		06/17/08 09:23	75-09-2	
Tetrachloroethene	**<1.0**	ug/L	1.0	0.45	1		06/17/08 09:23	127-18-4	
Toluene	**<1.0**	ug/L	1.0	0.67	1		06/17/08 09:23	108-88-3	
Trichloroethene	**15.5**	ug/L	1.0	0.48	1		06/17/08 09:23	79-01-6	
Vinyl chloride	**<1.0**	ug/L	1.0	0.18	1		06/17/08 09:23	75-01-4	
cis-1,2-Dichloroethene	**7.3**	ug/L	1.0	0.83	1		06/17/08 09:23	156-59-2	
trans-1,2-Dichloroethene	**<1.0**	ug/L	1.0	0.89	1		06/17/08 09:23	156-60-5	
4-Bromofluorobenzene (S)	90	%	64-132		1		06/17/08 09:23	460-00-4	pH
Dibromofluoromethane (S)	111	%	68-122		1		06/17/08 09:23	1868-53-7	
Toluene-d8 (S)	109	%	73-127		1		06/17/08 09:23	2037-26-5	

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ANALYTICAL RESULTS

Project: DANA ROSCOE
Pace Project No.: 405011

Sample: BB-04-35 **Lab ID: 405011006** Collected: 06/10/08 13:50 Received: 06/12/08 08:45 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
1,1,1-Trichloroethane	**<1.0**	ug/L	1.0	0.90	1		06/17/08 09:47	71-55-6	
1,1-Dichloroethane	**<1.0**	ug/L	1.0	0.75	1		06/17/08 09:47	75-34-3	
1,4-Dichlorobenzene	**<1.0**	ug/L	1.0	0.95	1		06/17/08 09:47	106-46-7	
Dichlorodifluoromethane	**<1.0**	ug/L	1.0	0.99	1		06/17/08 09:47	75-71-8	
Methylene Chloride	**<1.0**	ug/L	1.0	0.43	1		06/17/08 09:47	75-09-2	
Tetrachloroethene	**<1.0**	ug/L	1.0	0.45	1		06/17/08 09:47	127-18-4	
Toluene	**<1.0**	ug/L	1.0	0.67	1		06/17/08 09:47	108-88-3	
Trichloroethene	**5.6**	ug/L	1.0	0.48	1		06/17/08 09:47	79-01-6	
Vinyl chloride	**<1.0**	ug/L	1.0	0.18	1		06/17/08 09:47	75-01-4	
cis-1,2-Dichloroethene	**2.9**	ug/L	1.0	0.83	1		06/17/08 09:47	156-59-2	
trans-1,2-Dichloroethene	**<1.0**	ug/L	1.0	0.89	1		06/17/08 09:47	156-60-5	
4-Bromofluorobenzene (S)	90	%	64-132		1		06/17/08 09:47	460-00-4	pH
Dibromofluoromethane (S)	113	%	68-122		1		06/17/08 09:47	1868-53-7	
Toluene-d8 (S)	109	%	73-127		1		06/17/08 09:47	2037-26-5	

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ANALYTICAL RESULTS

Project: DANA ROSCOE
Pace Project No.: 405011

Sample: BB-05-70 **Lab ID: 405011007** Collected: 06/10/08 14:45 Received: 06/12/08 08:45 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
1,1,1-Trichloroethane	**<1.0**	ug/L	1.0	0.90	1		06/17/08 10:11	71-55-6	
1,1-Dichloroethane	**<1.0**	ug/L	1.0	0.75	1		06/17/08 10:11	75-34-3	
1,4-Dichlorobenzene	**<1.0**	ug/L	1.0	0.95	1		06/17/08 10:11	106-46-7	
Dichlorodifluoromethane	**<1.0**	ug/L	1.0	0.99	1		06/17/08 10:11	75-71-8	
Methylene Chloride	**<1.0**	ug/L	1.0	0.43	1		06/17/08 10:11	75-09-2	
Tetrachloroethene	**<1.0**	ug/L	1.0	0.45	1		06/17/08 10:11	127-18-4	
Toluene	**<1.0**	ug/L	1.0	0.67	1		06/17/08 10:11	108-88-3	
Trichloroethene	**20.5**	ug/L	1.0	0.48	1		06/17/08 10:11	79-01-6	
Vinyl chloride	**<1.0**	ug/L	1.0	0.18	1		06/17/08 10:11	75-01-4	
cis-1,2-Dichloroethene	**13.1**	ug/L	1.0	0.83	1		06/17/08 10:11	156-59-2	
trans-1,2-Dichloroethene	**<1.0**	ug/L	1.0	0.89	1		06/17/08 10:11	156-60-5	
4-Bromofluorobenzene (S)	90	%	64-132		1		06/17/08 10:11	460-00-4	pH
Dibromofluoromethane (S)	107	%	68-122		1		06/17/08 10:11	1868-53-7	
Toluene-d8 (S)	108	%	73-127		1		06/17/08 10:11	2037-26-5	

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ANALYTICAL RESULTS

Project: DANA ROSCOE
Pace Project No.: 405011

Sample: BB-05-50 **Lab ID: 405011008** Collected: 06/10/08 14:55 Received: 06/12/08 08:45 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
1,1,1-Trichloroethane	**<1.0**	ug/L	1.0	0.90	1		06/17/08 10:34	71-55-6	
1,1-Dichloroethane	**<1.0**	ug/L	1.0	0.75	1		06/17/08 10:34	75-34-3	
1,4-Dichlorobenzene	**<1.0**	ug/L	1.0	0.95	1		06/17/08 10:34	106-46-7	
Dichlorodifluoromethane	**<1.0**	ug/L	1.0	0.99	1		06/17/08 10:34	75-71-8	
Methylene Chloride	**<1.0**	ug/L	1.0	0.43	1		06/17/08 10:34	75-09-2	
Tetrachloroethene	**<1.0**	ug/L	1.0	0.45	1		06/17/08 10:34	127-18-4	
Toluene	**<1.0**	ug/L	1.0	0.67	1		06/17/08 10:34	108-88-3	
Trichloroethene	**12.8**	ug/L	1.0	0.48	1		06/17/08 10:34	79-01-6	
Vinyl chloride	**<1.0**	ug/L	1.0	0.18	1		06/17/08 10:34	75-01-4	
cis-1,2-Dichloroethene	**5.3**	ug/L	1.0	0.83	1		06/17/08 10:34	156-59-2	
trans-1,2-Dichloroethene	**<1.0**	ug/L	1.0	0.89	1		06/17/08 10:34	156-60-5	
4-Bromofluorobenzene (S)	88	%	64-132		1		06/17/08 10:34	460-00-4	pH
Dibromofluoromethane (S)	113	%	68-122		1		06/17/08 10:34	1868-53-7	
Toluene-d8 (S)	108	%	73-127		1		06/17/08 10:34	2037-26-5	

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ANALYTICAL RESULTS

Project: DANA ROSCOE
Pace Project No.: 405011

Sample: BB-05-35 **Lab ID: 405011009** Collected: 06/10/08 15:10 Received: 06/12/08 08:45 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
1,1,1-Trichloroethane	**<1.0**	ug/L	1.0	0.90	1		06/17/08 10:58	71-55-6	
1,1-Dichloroethane	**<1.0**	ug/L	1.0	0.75	1		06/17/08 10:58	75-34-3	
1,4-Dichlorobenzene	**<1.0**	ug/L	1.0	0.95	1		06/17/08 10:58	106-46-7	
Dichlorodifluoromethane	**<1.0**	ug/L	1.0	0.99	1		06/17/08 10:58	75-71-8	
Methylene Chloride	**<1.0**	ug/L	1.0	0.43	1		06/17/08 10:58	75-09-2	
Tetrachloroethene	**<1.0**	ug/L	1.0	0.45	1		06/17/08 10:58	127-18-4	
Toluene	**<1.0**	ug/L	1.0	0.67	1		06/17/08 10:58	108-88-3	
Trichloroethene	**2.6**	ug/L	1.0	0.48	1		06/17/08 10:58	79-01-6	
Vinyl chloride	**<1.0**	ug/L	1.0	0.18	1		06/17/08 10:58	75-01-4	
cis-1,2-Dichloroethene	**<1.0**	ug/L	1.0	0.83	1		06/17/08 10:58	156-59-2	
trans-1,2-Dichloroethene	**<1.0**	ug/L	1.0	0.89	1		06/17/08 10:58	156-60-5	
4-Bromofluorobenzene (S)	88	%	64-132		1		06/17/08 10:58	460-00-4	pH
Dibromofluoromethane (S)	110	%	68-122		1		06/17/08 10:58	1868-53-7	
Toluene-d8 (S)	106	%	73-127		1		06/17/08 10:58	2037-26-5	

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ANALYTICAL RESULTS

Project: DANA ROSCOE
Pace Project No.: 405011

Sample: SD-04 4-6' **Lab ID: 405011010** Collected: 06/10/08 17:00 Received: 06/12/08 08:45 Matrix: Solid

Results reported on a "wet-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5030 Low Level	Analytical Method: EPA 8260								
1,4-Dichlorobenzene	**<4.6**	ug/kg	4.6	0.50	1		06/17/08 11:13	106-46-7	
Dichlorodifluoromethane	**<4.6**	ug/kg	4.6	1.1	1		06/17/08 11:13	75-71-8	
1,1-Dichloroethane	**<4.6**	ug/kg	4.6	0.75	1		06/17/08 11:13	75-34-3	
cis-1,2-Dichloroethene	**<4.6**	ug/kg	4.6	0.90	1		06/17/08 11:13	156-59-2	
trans-1,2-Dichloroethene	**<4.6**	ug/kg	4.6	0.87	1		06/17/08 11:13	156-60-5	
Methylene Chloride	**<4.6**	ug/kg	4.6	0.75	1		06/17/08 11:13	75-09-2	
Tetrachloroethene	**<4.6**	ug/kg	4.6	0.84	1		06/17/08 11:13	127-18-4	
Toluene	**<4.6**	ug/kg	4.6	0.73	1		06/17/08 11:13	108-88-3	
1,1,1-Trichloroethane	**<4.6**	ug/kg	4.6	0.77	1		06/17/08 11:13	71-55-6	
Trichloroethene	**<4.6**	ug/kg	4.6	0.67	1		06/17/08 11:13	79-01-6	
Vinyl chloride	**<4.6**	ug/kg	4.6	0.75	1		06/17/08 11:13	75-01-4	
Dibromofluoromethane (S)	103	%	68-125		1		06/17/08 11:13	1868-53-7	
Toluene-d8 (S)	91	%	54-150		1		06/17/08 11:13	2037-26-5	
4-Bromofluorobenzene (S)	85	%	42-125		1		06/17/08 11:13	460-00-4	

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ANALYTICAL RESULTS

Project: DANA ROSCOE
Pace Project No.: 405011

Sample: SD-01 8-9' **Lab ID: 405011011** Collected: 06/10/08 17:40 Received: 06/12/08 08:45 Matrix: Solid

Results reported on a "wet-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV 5030 Low Level	Analytical Method: EPA 8260								
1,4-Dichlorobenzene	**<4.1**	ug/kg	4.1	0.44	1		06/17/08 11:36	106-46-7	
Dichlorodifluoromethane	**<4.1**	ug/kg	4.1	0.94	1		06/17/08 11:36	75-71-8	
1,1-Dichloroethane	**<4.1**	ug/kg	4.1	0.67	1		06/17/08 11:36	75-34-3	
cis-1,2-Dichloroethene	**<4.1**	ug/kg	4.1	0.80	1		06/17/08 11:36	156-59-2	
trans-1,2-Dichloroethene	**<4.1**	ug/kg	4.1	0.77	1		06/17/08 11:36	156-60-5	
Methylene Chloride	**<4.1**	ug/kg	4.1	0.67	1		06/17/08 11:36	75-09-2	
Tetrachloroethene	**<4.1**	ug/kg	4.1	0.74	1		06/17/08 11:36	127-18-4	
Toluene	**<4.1**	ug/kg	4.1	0.65	1		06/17/08 11:36	108-88-3	
1,1,1-Trichloroethane	**<4.1**	ug/kg	4.1	0.68	1		06/17/08 11:36	71-55-6	
Trichloroethene	**<4.1**	ug/kg	4.1	0.59	1		06/17/08 11:36	79-01-6	
Vinyl chloride	**<4.1**	ug/kg	4.1	0.66	1		06/17/08 11:36	75-01-4	
Dibromofluoromethane (S)	99	%	68-125		1		06/17/08 11:36	1868-53-7	
Toluene-d8 (S)	91	%	54-150		1		06/17/08 11:36	2037-26-5	
4-Bromofluorobenzene (S)	85	%	42-125		1		06/17/08 11:36	460-00-4	

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ANALYTICAL RESULTS

Project: DANA ROSCOE
Pace Project No.: 405011

Sample: SD-02 7-8' **Lab ID: 405011012** Collected: 06/10/08 19:00 Received: 06/12/08 08:45 Matrix: Solid

Results reported on a "wet-weight" basis

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Full List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B								
1,4-Dichlorobenzene	**<400**	ug/kg	400	149	8	06/17/08 10:38	06/17/08 17:34	106-46-7	
Dichlorodifluoromethane	**<400**	ug/kg	400	66.6	8	06/17/08 10:38	06/17/08 17:34	75-71-8	
1,1-Dichloroethane	**<400**	ug/kg	400	52.6	8	06/17/08 10:38	06/17/08 17:34	75-34-3	
cis-1,2-Dichloroethene	**<400**	ug/kg	400	66.4	8	06/17/08 10:38	06/17/08 17:34	156-59-2	
trans-1,2-Dichloroethene	**<400**	ug/kg	400	150	8	06/17/08 10:38	06/17/08 17:34	156-60-5	
Methylene Chloride	**<400**	ug/kg	400	65.4	8	06/17/08 10:38	06/17/08 17:34	75-09-2	
Tetrachloroethene	**<400**	ug/kg	400	86.7	8	06/17/08 10:38	06/17/08 17:34	127-18-4	
Toluene	**24200**	ug/kg	400	61.4	8	06/17/08 10:38	06/17/08 17:34	108-88-3	
1,1,1-Trichloroethane	**<400**	ug/kg	400	75.0	8	06/17/08 10:38	06/17/08 17:34	71-55-6	
Trichloroethene	**<400**	ug/kg	400	77.8	8	06/17/08 10:38	06/17/08 17:34	79-01-6	
Vinyl chloride	**<400**	ug/kg	400	80.1	8	06/17/08 10:38	06/17/08 17:34	75-01-4	
Dibromofluoromethane (S)	97	%	64-140		8	06/17/08 10:38	06/17/08 17:34	1868-53-7	
Toluene-d8 (S)	95	%	67-139		8	06/17/08 10:38	06/17/08 17:34	2037-26-5	
4-Bromofluorobenzene (S)	91	%	64-133		8	06/17/08 10:38	06/17/08 17:34	460-00-4	

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QUALITY CONTROL DATA

Project: DANA ROSCOE
Pace Project No.: 405011

QC Batch: MSV/1929 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV
Associated Lab Samples: 405011001, 405011002, 405011003, 405011004, 405011005, 405011006, 405011007, 405011008, 405011009

METHOD BLANK: 40815
Associated Lab Samples: 405011001, 405011002, 405011003, 405011004, 405011005, 405011006, 405011007, 405011008, 405011009

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
1,1,1-Trichloroethane	ug/L	<1.0	1.0	
1,1-Dichloroethane	ug/L	<1.0	1.0	
1,4-Dichlorobenzene	ug/L	<1.0	1.0	
cis-1,2-Dichloroethene	ug/L	<1.0	1.0	
Dichlorodifluoromethane	ug/L	<1.0	1.0	
Methylene Chloride	ug/L	<1.0	1.0	
Tetrachloroethene	ug/L	<1.0	1.0	
Toluene	ug/L	<1.0	1.0	
trans-1,2-Dichloroethene	ug/L	<1.0	1.0	
Trichloroethene	ug/L	<1.0	1.0	
Vinyl chloride	ug/L	<1.0	1.0	
4-Bromofluorobenzene (S)	%	89	64-132	
Dibromofluoromethane (S)	%	112	68-122	
Toluene-d8 (S)	%	107	73-127	

LABORATORY CONTROL SAMPLE & LCSD: 40816 40817

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
1,1,1-Trichloroethane	ug/L	50	50.9	52.1	102	104	75-128	2	20	
1,1-Dichloroethane	ug/L	50	47.0	47.9	94	96	71-130	2	20	
cis-1,2-Dichloroethene	ug/L	50	55.1	55.7	110	111	75-125	1	20	
Methylene Chloride	ug/L	50	58.2	56.3	116	113	75-125	3	20	
Tetrachloroethene	ug/L	50	48.5	51.0	97	102	75-130	5	20	
Toluene	ug/L	50	50.1	53.8	100	108	75-125	7	20	
trans-1,2-Dichloroethene	ug/L	50	54.8	55.6	110	111	75-125	1	20	
Trichloroethene	ug/L	50	50.0	51.0	100	102	75-125	2	20	
Vinyl chloride	ug/L	50	51.7	51.7	103	103	65-130	.06	20	
4-Bromofluorobenzene (S)	%				90	94	64-132			
Dibromofluoromethane (S)	%				114	113	68-122			
Toluene-d8 (S)	%				108	112	73-127			

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 41051 41052

Parameter	Units	405062007 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,1,1-Trichloroethane	ug/L	<1.0	50	50	48.7	51.8	97	104	70-130	6	30	
1,1-Dichloroethane	ug/L	<1.0	50	50	44.7	47.7	89	95	70-130	7	30	
cis-1,2-Dichloroethene	ug/L	<1.0	50	50	53.4	55.5	107	111	70-130	4	30	
Methylene Chloride	ug/L	<1.0	50	50	55.2	59.1	110	118	70-130	7	30	
Tetrachloroethene	ug/L	<1.0	50	50	49.1	50.4	98	101	70-130	3	30	

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QUALITY CONTROL DATA

Project: DANA ROSCOE
Pace Project No.: 405011

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 41051 41052

Parameter	Units	405062007 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Toluene	ug/L	<1.0	50	50	50.3	51.9	101	104	70-130	3	30	
trans-1,2-Dichloroethene	ug/L	<1.0	50	50	52.1	55.1	104	110	70-130	5	30	
Trichloroethene	ug/L	<1.0	50	50	49.2	50.8	98	102	70-130	3	30	
Vinyl chloride	ug/L	<1.0	50	50	46.5	50.8	93	102	62-138	9	30	
4-Bromofluorobenzene (S)	%						93	93	64-132			
Dibromofluoromethane (S)	%						111	116	68-122			
Toluene-d8 (S)	%						111	110	73-127			

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QUALITY CONTROL DATA

Project: DANA ROSCOE
Pace Project No.: 405011

QC Batch: MSV/1958
QC Batch Method: EPA 5035/5030B
Analysis Method: EPA 8260
Analysis Description: 8260 MSV Med Level Full List
Associated Lab Samples: 405011012

METHOD BLANK: 41390
Associated Lab Samples: 405011012

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
1,1,1-Trichloroethane	ug/kg	<50.0	50.0	
1,1-Dichloroethane	ug/kg	<50.0	50.0	
1,4-Dichlorobenzene	ug/kg	<50.0	50.0	
cis-1,2-Dichloroethene	ug/kg	<50.0	50.0	
Dichlorodifluoromethane	ug/kg	<50.0	50.0	
Methylene Chloride	ug/kg	<50.0	50.0	
Tetrachloroethene	ug/kg	<50.0	50.0	
Toluene	ug/kg	<50.0	50.0	
trans-1,2-Dichloroethene	ug/kg	<50.0	50.0	
Trichloroethene	ug/kg	<50.0	50.0	
Vinyl chloride	ug/kg	<50.0	50.0	
4-Bromofluorobenzene (S)	%	103	64-133	
Dibromofluoromethane (S)	%	113	64-140	
Toluene-d8 (S)	%	111	67-139	

LABORATORY CONTROL SAMPLE & LCSD: 41391 41392

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
1,1,1-Trichloroethane	ug/kg	2500	2590	2570	104	103	75-125	.8	20	
1,1-Dichloroethane	ug/kg	2500	2700	2610	108	105	75-125	3	20	
cis-1,2-Dichloroethene	ug/kg	2500	2660	2540	107	102	75-125	5	20	
Methylene Chloride	ug/kg	2500	2360	2650	94	106	58-144	12	20	
Tetrachloroethene	ug/kg	2500	2560	2540	102	102	75-125	.8	20	
Toluene	ug/kg	2500	2600	2530	104	101	75-125	3	20	
trans-1,2-Dichloroethene	ug/kg	2500	2630	2580	105	103	75-125	2	20	
Trichloroethene	ug/kg	2500	2620	2580	105	103	75-125	2	20	
Vinyl chloride	ug/kg	2500	2310	2390	92	96	49-125	4	20	
4-Bromofluorobenzene (S)	%				106	103	64-133			
Dibromofluoromethane (S)	%				112	110	64-140			
Toluene-d8 (S)	%				109	107	67-139			

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QUALITY CONTROL DATA

Project: DANA ROSCOE
Pace Project No.: 405011

QC Batch: MSV/1961 | Analysis Method: EPA 8260
QC Batch Method: EPA 8260 | Analysis Description: 8260 MSV 5030 Low
Associated Lab Samples: 405011010, 405011011

METHOD BLANK: 41520
Associated Lab Samples: 405011010, 405011011

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
1,1,1-Trichloroethane	ug/kg	<5.0	5.0	
1,1-Dichloroethane	ug/kg	<5.0	5.0	
1,4-Dichlorobenzene	ug/kg	<5.0	5.0	
cis-1,2-Dichloroethene	ug/kg	<5.0	5.0	
Dichlorodifluoromethane	ug/kg	<5.0	5.0	
Methylene Chloride	ug/kg	<5.0	5.0	
Tetrachloroethene	ug/kg	<5.0	5.0	
Toluene	ug/kg	<5.0	5.0	
trans-1,2-Dichloroethene	ug/kg	<5.0	5.0	
Trichloroethene	ug/kg	<5.0	5.0	
Vinyl chloride	ug/kg	<5.0	5.0	
4-Bromofluorobenzene (S)	%	85	42-125	
Dibromofluoromethane (S)	%	96	68-125	
Toluene-d8 (S)	%	94	54-150	

LABORATORY CONTROL SAMPLE & LCSD: 41521 41522

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
1,1,1-Trichloroethane	ug/kg	50	52.7	52.4	105	105	75-127	.6	20	
1,1-Dichloroethane	ug/kg	50	51.3	51.1	103	102	67-131	.3	20	
cis-1,2-Dichloroethene	ug/kg	50	49.8	49.6	100	99	72-125	.4	20	
Methylene Chloride	ug/kg	50	51.7	51.2	103	102	58-130	1	20	
Tetrachloroethene	ug/kg	50	59.5	56.9	119	114	75-126	5	20	
Toluene	ug/kg	50	52.1	50.7	104	101	75-125	3	20	
trans-1,2-Dichloroethene	ug/kg	50	52.9	52.0	106	104	75-129	2	20	
Trichloroethene	ug/kg	50	51.5	50.3	103	101	75-125	2	20	
Vinyl chloride	ug/kg	50	58.7	58.3	117	117	58-135	.8	20	
4-Bromofluorobenzene (S)	%				87	89	42-125			
Dibromofluoromethane (S)	%				95	95	68-125			
Toluene-d8 (S)	%				95	95	54-150			

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QUALIFIERS

Project: DANA ROSCOE
Pace Project No.: 405011

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

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LABORATORIES

PASI-G Pace Analytical Services - Green Bay

BATCH QUALIFIERS

Batch: MSV/1959

[1] A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

Batch: MSV/1961

[1] A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

ANALYTE QUALIFIERS

pH Post-analysis pH measurement indicates insufficient VOA sample preservation.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: DANA ROSCOE
Pace Project No.: 405011

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
405011001	BB-02-70	EPA 8260	MSV/1929		
405011002	BB-02-50	EPA 8260	MSV/1929		
405011003	BB-02-35	EPA 8260	MSV/1929		
405011004	BB-04-70	EPA 8260	MSV/1929		
405011005	BB-04-50	EPA 8260	MSV/1929		
405011006	BB-04-35	EPA 8260	MSV/1929		
405011007	BB-05-70	EPA 8260	MSV/1929		
405011008	BB-05-50	EPA 8260	MSV/1929		
405011009	BB-05-35	EPA 8260	MSV/1929		
405011012	SD-02 7-8'	EPA 5035/5030B	MSV/1958	EPA 8260	MSV/1959
405011010	SD-04 4-6'	EPA 8260	MSV/1961		
405011011	SD-01 8-9'	EPA 8260	MSV/1961		

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Sample Condition Upon Receipt

Pace Analytical

Client Name: RMT Project # 405011

Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☐ Client ☒ Commercial ☐ Pace Other _____

Tracking #: _____

Optional
Proj. Due Date:
Proj. Name:

Custody Seal on Cooler/Box Present: ☐ yes ☒ no Seals intact: ☐ yes ☐ no

Packing Material: ☐ Bubble Wrap ☐ Bubble Bags ☐ None ☒ Other Bubble mailer

Thermometer Used u6/12 AA JB **Type of Ice:** (Wet) Blue None ☐ Samples on ice, cooling process has begun

Cooler Temperature 0.5°C **Biological Tissue is Frozen:** Yes No

Temp should be above freezing to 6°C

Date and Initials of person examining contents: CL 6/12/08

				Comments:
Chain of Custody Present:	☒Yes	☐No	☐N/A	1.
Chain of Custody Filled Out:	☒Yes	☐No	☐N/A	2.
Chain of Custody Relinquished:	☒Yes	☐No	☐N/A	3.
Sampler Name & Signature on COC:	☒Yes	☐No	☐N/A	4.
Samples Arrived within Hold Time:	☒Yes	☐No	☐N/A	5.
Short Hold Time Analysis (<72hr):	☒Yes	☐No	☐N/A	6. encores
Rush Turn Around Time Requested:	☐Yes	☒No	☐N/A	7.
Sufficient Volume:	☐Yes	☒No	☐N/A	8. No TSC volume for # 90-012
Correct Containers Used:	☒Yes	☐No	☐N/A	9.
-Pace Containers Used: u6/12	☐Yes	☒No	☐N/A	
Containers Intact:	☒Yes	☐No	☐N/A	10.
Filtered volume received for Dissolved tests	☐Yes	☐No	☒N/A	11.
Sample Labels match COC:	☒Yes	☐No	☐N/A	12.
-Includes date/time/ID/Analysis Matrix: W / S				
All containers needing preservation have been checked.	☐Yes	☐No	☒N/A	13.
All containers needing preservation are found to be in compliance with EPA recommendation.	☐Yes	☐No	☒N/A	
exceptions: VOA, coliform, TOC, O&G, WI-DRO (water)	☐Yes	☐No		Initial when completed _____ Lot # of added preservative _____
Samples checked for dechlorination:	☐Yes	☐No	☒N/A	14.
Headspace in VOA Vials (>6mm):	☐Yes	☒No	☐N/A	15.
Trip Blank Present:	☐Yes	☒No	☐N/A	16.
Trip Blank Custody Seals Present	☐Yes	☐No	☒N/A	
Pace Trip Blank Lot # (if purchased): _____				

Client Notification/ Resolution: Field Data Required? Y / N

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: [signature] **Date:** 6/12/08

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e out of hold, incorrect preservative, out of temp, incorrect containers)

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F-ALL-C-003-REV.3 (11Sep2005)

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www.pacelabs.com

UPPER MIDWEST REGION
MN: 612-607-1700 WI: 920-469-2436

CHAIN OF CUSTODY

*Preservation Codes
A=None B=HCL C=H2SO4 D=HNO3 E=DI Water F=Methanol G=NaOH
H=Sodium Bisulfate Solution I=Sodium Thiosulfate J=Other

(Please Print Clearly)

Company Name:	RMT
Branch/Location:	Madison
Project Contact:	Lance Bakken / Jim Buss
Phone:	831-4444
Project Number:	2541.27
Project Name:	Dana Roscoe
Project State:	IL
Sampled By (Print):	Lance Bakken
Sampled By (Sign):	[signature]
PO #:	
Regulatory Program:	

Quote #:	
Mail To Contact:	Jim Buss
Mail To Company:	RMT
Mail To Address:	Madison
Invoice To Contact:	Same
Invoice To Company:	
Invoice To Address:	
Invoice To Phone:	

Data Package Options (billable)
- ☐ EPA Level III
- ☐ EPA Level IV

MS/MSD
- ☐ On your sample (billable)
- ☐ NOT needed on your sample

Matrix Codes

A = Air	W = Water
B = Biota	DW = Drinking Water
C = Charcoal	GW = Ground Water
O = Oil	SW = Surface Water
S = Soil	WW = Waste Water
SI = Sludge	WP = Wipe

PACE LAB #	CLIENT FIELD ID	COLLECTION DATE	COLLECTION TIME	MATRIX	Analyses Requested		CLIENT COMMENTS	LAB COMMENTS (Lab Use Only)	Profile #
					FILTERED? (YES/NO) Y/N	N			
					PRESERVATION (CODE)* Pick Letter	A			
					Analyses Requested	Same List as Last Week			
001	BB-02-70	6/10/08	950	GW		2	Unpreserved	2-40ml B	
002	BB-02-50		1000			2			
003	BB-02-35		1010			2			
004	BB-04-70		1330			2			
005	BB-04-50		1340			2			
006	BB-04-35		1350			2			
007	BB-05-70		1445			2			
008	BB-05-50		1455			2			
009	BB-05-35		1510			2			
010	SD-04 4-6'		1700	S		3 encores		1-25g dup; 2-5g dup	
011	SD-01 8-9'		1740	S		3 encores			
012	SD-02 7-8'		1900	S		3 encores			

Rush Turnaround Time Requested - Prelims
(Rush TAT subject to approval/surcharge)
Date Needed:

Transmit Prelim Rush Results by (complete what you want):

Email #1:	
Email #2:	
Telephone:	
Fax:	

Samples on HOLD are subject to special pricing and release of liability

Relinquished By:	Date/Time:	Received By:	Date/Time:
[signature]	6/11/08 830	[signature]	6/11/08 1320
[signature]	6/11/08 1555		
Walto	6/12/08 9:45	L. Inman	6/12/08 8:45

PACE Project No. 405011

Receipt Temp = 0.5°C °C

Sample Receipt pH OK / Adjusted

Cooler Custody Seal Present / Not Present Intact / Not Intact

Version 6.0 06/14/06

ORIGINAL

Pace Analytical Services, Inc.
1241 Bellevue Street
Green Bay, WI 54302
(920)469-2436

June 25, 2008

JIM BUSS
RMT MADISON
744 HEARTLAND TRAIL
Madison, WI 537171934

RE: Project: 2541.26 DANA ROSCOE
Pace Project No.: 405322

Dear JIM BUSS:
Enclosed are the analytical results for sample(s) received by the laboratory on June 19, 2008. The results relate only to the samples included in this report. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

for Tod N.

Tod Noltemeyer

tod.noltemeyer@pacelabs.com
Project Manager

Enclosures

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CERTIFICATIONS

Project: 2541.26 DANA ROSCOE
Pace Project No.: 405322

Green Bay Certification IDs

Florida (NELAP) Certification #: E87948
Illinois Certification #: 200050
California Certification #: 06246CA
New York Certification #: 11888
North Dakota Certification #: R-150
North Carolina Certification #: 503
Minnesota Certification #: 055-999-334
South Carolina Certification #: 83006001
Wisconsin Certification #: 405132750
Wisconsin DATCP Certification #: 105-444
Kentucky Certification #: 82
Louisiana Certification #: 04168

Green Bay Volatiles Certification IDs

Florida (NELAP) Certification #: E87951
California Certification #: 06247CA
Illinois Certification #: 200051
New York Certification #: 11887
North Dakota Certification #: R-200
North Carolina Certification #: 503
Minnesota Certification #: 055-999-334
South Carolina Certification #: 83006001
Wisconsin Certification #: 405132750
Wisconsin DATCP Certification #: 105-444
Kentucky Certification #: 83
Louisiana Certification #: 04169

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SAMPLE SUMMARY

Project: 2541.26 DANA ROSCOE
Pace Project No.: 405322

Lab ID	Sample ID	Matrix	Date Collected	Date Received
405322001	HEMW-4	Water	06/16/08 12:10	06/19/08 08:45
405322002	HEMW-3	Water	06/16/08 13:10	06/19/08 08:45
405322003	HEMW-2	Water	06/16/08 14:20	06/19/08 08:45
405322004	RB-01	Water	06/16/08 13:30	06/19/08 08:45
405322005	HEMW-1	Water	06/16/08 15:20	06/19/08 08:45
405322006	DUP-01	Water	06/16/08 00:00	06/19/08 08:45
405322007	CC-07-90	Water	06/17/08 09:30	06/19/08 08:45
405322008	CC-07-70	Water	06/17/08 09:40	06/19/08 08:45
405322009	CC-07-60	Water	06/17/08 09:50	06/19/08 08:45
405322010	CC-07-50	Water	06/17/08 09:55	06/19/08 08:45
405322011	CC-07-35	Water	06/17/08 10:10	06/19/08 08:45
405322012	CC-08-90	Water	06/17/08 11:00	06/19/08 08:45
405322013	CC-08-70	Water	06/17/08 11:10	06/19/08 08:45
405322014	CC-08-60	Water	06/17/08 11:20	06/19/08 08:45
405322015	CC-08-50	Water	06/17/08 11:30	06/19/08 08:45
405322016	CC-08-35	Water	06/17/08 11:35	06/19/08 08:45
405322017	BB-07-90	Water	06/17/08 12:40	06/19/08 08:45
405322018	BB-07-70	Water	06/17/08 12:50	06/19/08 08:45
405322019	BB-07-60	Water	06/17/08 12:55	06/19/08 08:45
405322020	BB-07-50	Water	06/17/08 13:10	06/19/08 08:45
405322021	BB-07-40	Water	06/17/08 13:20	06/19/08 08:45
405322022	DUP-02	Water	06/17/08 00:00	06/19/08 08:45
405322023	TRIP BLANK	Water	06/17/08 00:00	06/19/08 08:45

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SAMPLE ANALYTE COUNT

Project: 2541.26 DANA ROSCOE
Pace Project No.: 405322

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
405322001	HEMW-4	EPA 8260	JJS	64	PASI-G
405322002	HEMW-3	EPA 8260	JJS	64	PASI-G
405322003	HEMW-2	EPA 8260	JJS	64	PASI-G
405322004	RB-01	EPA 8260	SMT	64	PASI-G
405322005	HEMW-1	EPA 8260	SMT	64	PASI-G
405322006	DUP-01	EPA 8260	SMT	64	PASI-G
405322007	CC-07-90	EPA 8260	SMT	14	PASI-G
405322008	CC-07-70	EPA 8260	SMT	14	PASI-G
405322009	CC-07-60	EPA 8260	SMT	14	PASI-G
405322010	CC-07-50	EPA 8260	SMT	14	PASI-G
405322011	CC-07-35	EPA 8260	SMT	14	PASI-G
405322012	CC-08-90	EPA 8260	SMT	14	PASI-G
405322013	CC-08-70	EPA 8260	SMT	14	PASI-G
405322014	CC-08-60	EPA 8260	SMT	14	PASI-G
405322015	CC-08-50	EPA 8260	SMT	14	PASI-G
405322016	CC-08-35	EPA 8260	SMT	14	PASI-G
405322017	BB-07-90	EPA 8260	SMT	14	PASI-G
405322018	BB-07-70	EPA 8260	SMT	14	PASI-G
405322019	BB-07-60	EPA 8260	SMT	14	PASI-G
405322020	BB-07-50	EPA 8260	SMT	14	PASI-G
405322021	BB-07-40	EPA 8260	SMT	14	PASI-G
405322022	DUP-02	EPA 8260	SMT	14	PASI-G
405322023	TRIP BLANK	EPA 8260	SMT	64	PASI-G

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PROJECT NARRATIVE

Project: 2541.26 DANA ROSCOE
Pace Project No.: 405322

Method: EPA 8260
Description: 8260 MSV
Client: RMT MADISON
Date: June 25, 2008

General Information:
23 samples were analyzed for EPA 8260. All samples were received in acceptable condition with any exceptions noted below.

pH: Post-analysis pH measurement indicates insufficient VOA sample preservation.
- BB-07-40 (Lab ID: 405322021)
- BB-07-50 (Lab ID: 405322020)
- BB-07-60 (Lab ID: 405322019)

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Internal Standards:
All internal standards were within QC limits with any exceptions noted below.

Surrogates:
All surrogates were within QC limits with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.

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ANALYTICAL RESULTS

Project: 2541.26 DANA ROSCOE
Pace Project No.: 405322

Sample: HEMW-4 **Lab ID: 405322001** Collected: 06/16/08 12:10 Received: 06/19/08 08:45 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
Benzene	<1.0	ug/L	1.0	0.41	1		06/24/08 18:31	71-43-2	
Bromobenzene	<1.0	ug/L	1.0	0.82	1		06/24/08 18:31	108-86-1	
Bromochloromethane	<1.0	ug/L	1.0	0.97	1		06/24/08 18:31	74-97-5	
Bromodichloromethane	<1.0	ug/L	1.0	0.56	1		06/24/08 18:31	75-27-4	
Bromoform	<1.0	ug/L	1.0	0.94	1		06/24/08 18:31	75-25-2	
Bromomethane	<1.0	ug/L	1.0	0.91	1		06/24/08 18:31	74-83-9	
n-Butylbenzene	<1.0	ug/L	1.0	0.93	1		06/24/08 18:31	104-51-8	
sec-Butylbenzene	<1.0	ug/L	1.0	0.89	1		06/24/08 18:31	135-98-8	
tert-Butylbenzene	<1.0	ug/L	1.0	0.97	1		06/24/08 18:31	98-06-6	
Carbon tetrachloride	<1.0	ug/L	1.0	0.49	1		06/24/08 18:31	56-23-5	
Chlorobenzene	<1.0	ug/L	1.0	0.41	1		06/24/08 18:31	108-90-7	
Chloroethane	<1.0	ug/L	1.0	0.97	1		06/24/08 18:31	75-00-3	
Chloroform	<5.0	ug/L	5.0	0.37	1		06/24/08 18:31	67-66-3	
Chloromethane	<1.0	ug/L	1.0	0.24	1		06/24/08 18:31	74-87-3	
2-Chlorotoluene	<1.0	ug/L	1.0	0.85	1		06/24/08 18:31	95-49-8	
4-Chlorotoluene	<1.0	ug/L	1.0	0.74	1		06/24/08 18:31	106-43-4	
1,2-Dibromo-3-chloropropane	<5.0	ug/L	5.0	0.87	1		06/24/08 18:31	96-12-8	
Dibromochloromethane	<1.0	ug/L	1.0	0.81	1		06/24/08 18:31	124-48-1	
1,2-Dibromoethane (EDB)	<1.0	ug/L	1.0	0.56	1		06/24/08 18:31	106-93-4	
Dibromomethane	<1.0	ug/L	1.0	0.60	1		06/24/08 18:31	74-95-3	
1,2-Dichlorobenzene	<1.0	ug/L	1.0	0.83	1		06/24/08 18:31	95-50-1	
1,3-Dichlorobenzene	<1.0	ug/L	1.0	0.87	1		06/24/08 18:31	541-73-1	
1,4-Dichlorobenzene	<1.0	ug/L	1.0	0.95	1		06/24/08 18:31	106-46-7	
Dichlorodifluoromethane	<1.0	ug/L	1.0	0.99	1		06/24/08 18:31	75-71-8	
1,1-Dichloroethane	<1.0	ug/L	1.0	0.75	1		06/24/08 18:31	75-34-3	
1,2-Dichloroethane	<1.0	ug/L	1.0	0.36	1		06/24/08 18:31	107-06-2	
1,1-Dichloroethene	<1.0	ug/L	1.0	0.57	1		06/24/08 18:31	75-35-4	
cis-1,2-Dichloroethene	<1.0	ug/L	1.0	0.83	1		06/24/08 18:31	156-59-2	
trans-1,2-Dichloroethene	<1.0	ug/L	1.0	0.89	1		06/24/08 18:31	156-60-5	
1,2-Dichloropropane	<1.0	ug/L	1.0	0.46	1		06/24/08 18:31	78-87-5	
1,3-Dichloropropane	<1.0	ug/L	1.0	0.61	1		06/24/08 18:31	142-28-9	
2,2-Dichloropropane	<1.0	ug/L	1.0	0.62	1		06/24/08 18:31	594-20-7	
1,1-Dichloropropene	<1.0	ug/L	1.0	0.75	1		06/24/08 18:31	563-58-6	
cis-1,3-Dichloropropene	<1.0	ug/L	1.0	0.19	1		06/24/08 18:31	10061-01-5	
trans-1,3-Dichloropropene	<1.0	ug/L	1.0	0.19	1		06/24/08 18:31	10061-02-6	
Diisopropyl ether	<1.0	ug/L	1.0	0.76	1		06/24/08 18:31	108-20-3	
Ethylbenzene	<1.0	ug/L	1.0	0.54	1		06/24/08 18:31	100-41-4	
Hexachloro-1,3-butadiene	<1.0	ug/L	1.0	0.67	1		06/24/08 18:31	87-68-3	
Isopropylbenzene (Cumene)	<1.0	ug/L	1.0	0.59	1		06/24/08 18:31	98-82-8	
p-Isopropyltoluene	<1.0	ug/L	1.0	0.67	1		06/24/08 18:31	99-87-6	
Methylene Chloride	<1.0	ug/L	1.0	0.43	1		06/24/08 18:31	75-09-2	
Methyl-tert-butyl ether	<1.0	ug/L	1.0	0.61	1		06/24/08 18:31	1634-04-4	
Naphthalene	<5.0	ug/L	5.0	0.74	1		06/24/08 18:31	91-20-3	
n-Propylbenzene	<1.0	ug/L	1.0	0.81	1		06/24/08 18:31	103-65-1	
Styrene	<1.0	ug/L	1.0	0.86	1		06/24/08 18:31	100-42-5	
1,1,1,2-Tetrachloroethane	<1.0	ug/L	1.0	0.92	1		06/24/08 18:31	630-20-6	

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ANALYTICAL RESULTS

Project: 2541.26 DANA ROSCOE
Pace Project No.: 405322

Sample: HEMW-4 **Lab ID: 405322001** Collected: 06/16/08 12:10 Received: 06/19/08 08:45 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
1,1,2,2-Tetrachloroethane	**<1.0**	ug/L	1.0	0.20	1		06/24/08 18:31	79-34-5	
Tetrachloroethene	**<1.0**	ug/L	1.0	0.45	1		06/24/08 18:31	127-18-4	
Toluene	**<1.0**	ug/L	1.0	0.67	1		06/24/08 18:31	108-88-3	
1,2,3-Trichlorobenzene	**<1.0**	ug/L	1.0	0.74	1		06/24/08 18:31	87-61-6	
1,2,4-Trichlorobenzene	**<1.0**	ug/L	1.0	0.97	1		06/24/08 18:31	120-82-1	
1,1,1-Trichloroethane	**<1.0**	ug/L	1.0	0.90	1		06/24/08 18:31	71-55-6	
1,1,2-Trichloroethane	**<1.0**	ug/L	1.0	0.42	1		06/24/08 18:31	79-00-5	
Trichloroethene	**<1.0**	ug/L	1.0	0.48	1		06/24/08 18:31	79-01-6	
Trichlorofluoromethane	**<1.0**	ug/L	1.0	0.79	1		06/24/08 18:31	75-69-4	
1,2,3-Trichloropropane	**<1.0**	ug/L	1.0	0.99	1		06/24/08 18:31	96-18-4	
1,2,4-Trimethylbenzene	**<1.0**	ug/L	1.0	0.97	1		06/24/08 18:31	95-63-6	
1,3,5-Trimethylbenzene	**<1.0**	ug/L	1.0	0.83	1		06/24/08 18:31	108-67-8	
Vinyl chloride	**<1.0**	ug/L	1.0	0.18	1		06/24/08 18:31	75-01-4	
m&p-Xylene	**<2.0**	ug/L	2.0	1.8	1		06/24/08 18:31	1330-20-7	
o-Xylene	**<1.0**	ug/L	1.0	0.83	1		06/24/08 18:31	95-47-6	
4-Bromofluorobenzene (S)	103	%	64-132		1		06/24/08 18:31	460-00-4	
Dibromofluoromethane (S)	102	%	68-122		1		06/24/08 18:31	1868-53-7	
Toluene-d8 (S)	101	%	73-127		1		06/24/08 18:31	2037-26-5	

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ANALYTICAL RESULTS

Project: 2541.26 DANA ROSCOE
Pace Project No.: 405322

Sample: HEMW-3 **Lab ID: 405322002** Collected: 06/16/08 13:10 Received: 06/19/08 08:45 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
Benzene	**<1.0**	ug/L	1.0	0.41	1		06/24/08 17:20	71-43-2	
Bromobenzene	**<1.0**	ug/L	1.0	0.82	1		06/24/08 17:20	108-86-1	
Bromochloromethane	**<1.0**	ug/L	1.0	0.97	1		06/24/08 17:20	74-97-5	
Bromodichloromethane	**<1.0**	ug/L	1.0	0.56	1		06/24/08 17:20	75-27-4	
Bromoform	**<1.0**	ug/L	1.0	0.94	1		06/24/08 17:20	75-25-2	
Bromomethane	**<1.0**	ug/L	1.0	0.91	1		06/24/08 17:20	74-83-9	
n-Butylbenzene	**<1.0**	ug/L	1.0	0.93	1		06/24/08 17:20	104-51-8	
sec-Butylbenzene	**<1.0**	ug/L	1.0	0.89	1		06/24/08 17:20	135-98-8	
tert-Butylbenzene	**<1.0**	ug/L	1.0	0.97	1		06/24/08 17:20	98-06-6	
Carbon tetrachloride	**<1.0**	ug/L	1.0	0.49	1		06/24/08 17:20	56-23-5	
Chlorobenzene	**<1.0**	ug/L	1.0	0.41	1		06/24/08 17:20	108-90-7	
Chloroethane	**<1.0**	ug/L	1.0	0.97	1		06/24/08 17:20	75-00-3	
Chloroform	**<5.0**	ug/L	5.0	0.37	1		06/24/08 17:20	67-66-3	
Chloromethane	**<1.0**	ug/L	1.0	0.24	1		06/24/08 17:20	74-87-3	
2-Chlorotoluene	**<1.0**	ug/L	1.0	0.85	1		06/24/08 17:20	95-49-8	
4-Chlorotoluene	**<1.0**	ug/L	1.0	0.74	1		06/24/08 17:20	106-43-4	
1,2-Dibromo-3-chloropropane	**<5.0**	ug/L	5.0	0.87	1		06/24/08 17:20	96-12-8	
Dibromochloromethane	**<1.0**	ug/L	1.0	0.81	1		06/24/08 17:20	124-48-1	
1,2-Dibromoethane (EDB)	**<1.0**	ug/L	1.0	0.56	1		06/24/08 17:20	106-93-4	
Dibromomethane	**<1.0**	ug/L	1.0	0.60	1		06/24/08 17:20	74-95-3	
1,2-Dichlorobenzene	**<1.0**	ug/L	1.0	0.83	1		06/24/08 17:20	95-50-1	
1,3-Dichlorobenzene	**<1.0**	ug/L	1.0	0.87	1		06/24/08 17:20	541-73-1	
1,4-Dichlorobenzene	**<1.0**	ug/L	1.0	0.95	1		06/24/08 17:20	106-46-7	
Dichlorodifluoromethane	**<1.0**	ug/L	1.0	0.99	1		06/24/08 17:20	75-71-8	
1,1-Dichloroethane	**<1.0**	ug/L	1.0	0.75	1		06/24/08 17:20	75-34-3	
1,2-Dichloroethane	**<1.0**	ug/L	1.0	0.36	1		06/24/08 17:20	107-06-2	
1,1-Dichloroethene	**<1.0**	ug/L	1.0	0.57	1		06/24/08 17:20	75-35-4	
cis-1,2-Dichloroethene	**<1.0**	ug/L	1.0	0.83	1		06/24/08 17:20	156-59-2	
trans-1,2-Dichloroethene	**<1.0**	ug/L	1.0	0.89	1		06/24/08 17:20	156-60-5	
1,2-Dichloropropane	**<1.0**	ug/L	1.0	0.46	1		06/24/08 17:20	78-87-5	
1,3-Dichloropropane	**<1.0**	ug/L	1.0	0.61	1		06/24/08 17:20	142-28-9	
2,2-Dichloropropane	**<1.0**	ug/L	1.0	0.62	1		06/24/08 17:20	594-20-7	
1,1-Dichloropropene	**<1.0**	ug/L	1.0	0.75	1		06/24/08 17:20	563-58-6	
cis-1,3-Dichloropropene	**<1.0**	ug/L	1.0	0.19	1		06/24/08 17:20	10061-01-5	
trans-1,3-Dichloropropene	**<1.0**	ug/L	1.0	0.19	1		06/24/08 17:20	10061-02-6	
Diisopropyl ether	**<1.0**	ug/L	1.0	0.76	1		06/24/08 17:20	108-20-3	
Ethylbenzene	**<1.0**	ug/L	1.0	0.54	1		06/24/08 17:20	100-41-4	
Hexachloro-1,3-butadiene	**<1.0**	ug/L	1.0	0.67	1		06/24/08 17:20	87-68-3	
Isopropylbenzene (Cumene)	**<1.0**	ug/L	1.0	0.59	1		06/24/08 17:20	98-82-8	
p-Isopropyltoluene	**<1.0**	ug/L	1.0	0.67	1		06/24/08 17:20	99-87-6	
Methylene Chloride	**<1.0**	ug/L	1.0	0.43	1		06/24/08 17:20	75-09-2	
Methyl-tert-butyl ether	**<1.0**	ug/L	1.0	0.61	1		06/24/08 17:20	1634-04-4	
Naphthalene	**<5.0**	ug/L	5.0	0.74	1		06/24/08 17:20	91-20-3	
n-Propylbenzene	**<1.0**	ug/L	1.0	0.81	1		06/24/08 17:20	103-65-1	
Styrene	**<1.0**	ug/L	1.0	0.86	1		06/24/08 17:20	100-42-5	
1,1,1,2-Tetrachloroethane	**<1.0**	ug/L	1.0	0.92	1		06/24/08 17:20	630-20-6	

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ANALYTICAL RESULTS

Project: 2541.26 DANA ROSCOE
Pace Project No.: 405322

Sample: HEMW-3 **Lab ID: 405322002** Collected: 06/16/08 13:10 Received: 06/19/08 08:45 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
1,1,2,2-Tetrachloroethane	**<1.0**	ug/L	1.0	0.20	1		06/24/08 17:20	79-34-5	
Tetrachloroethene	**<1.0**	ug/L	1.0	0.45	1		06/24/08 17:20	127-18-4	
Toluene	**<1.0**	ug/L	1.0	0.67	1		06/24/08 17:20	108-88-3	
1,2,3-Trichlorobenzene	**<1.0**	ug/L	1.0	0.74	1		06/24/08 17:20	87-61-6	
1,2,4-Trichlorobenzene	**<1.0**	ug/L	1.0	0.97	1		06/24/08 17:20	120-82-1	
1,1,1-Trichloroethane	**<1.0**	ug/L	1.0	0.90	1		06/24/08 17:20	71-55-6	
1,1,2-Trichloroethane	**<1.0**	ug/L	1.0	0.42	1		06/24/08 17:20	79-00-5	
Trichloroethene	**<1.0**	ug/L	1.0	0.48	1		06/24/08 17:20	79-01-6	
Trichlorofluoromethane	**<1.0**	ug/L	1.0	0.79	1		06/24/08 17:20	75-69-4	
1,2,3-Trichloropropane	**<1.0**	ug/L	1.0	0.99	1		06/24/08 17:20	96-18-4	
1,2,4-Trimethylbenzene	**<1.0**	ug/L	1.0	0.97	1		06/24/08 17:20	95-63-6	
1,3,5-Trimethylbenzene	**<1.0**	ug/L	1.0	0.83	1		06/24/08 17:20	108-67-8	
Vinyl chloride	**<1.0**	ug/L	1.0	0.18	1		06/24/08 17:20	75-01-4	
m&p-Xylene	**<2.0**	ug/L	2.0	1.8	1		06/24/08 17:20	1330-20-7	
o-Xylene	**<1.0**	ug/L	1.0	0.83	1		06/24/08 17:20	95-47-6	
4-Bromofluorobenzene (S)	104	%	64-132		1		06/24/08 17:20	460-00-4	
Dibromofluoromethane (S)	104	%	68-122		1		06/24/08 17:20	1868-53-7	
Toluene-d8 (S)	102	%	73-127		1		06/24/08 17:20	2037-26-5	

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ANALYTICAL RESULTS

Project: 2541.26 DANA ROSCOE
Pace Project No.: 405322

Sample: HEMW-2 **Lab ID: 405322003** Collected: 06/16/08 14:20 Received: 06/19/08 08:45 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
Benzene	<1.0	ug/L	1.0	0.41	1		06/24/08 12:39	71-43-2	
Bromobenzene	<1.0	ug/L	1.0	0.82	1		06/24/08 12:39	108-86-1	
Bromochloromethane	<1.0	ug/L	1.0	0.97	1		06/24/08 12:39	74-97-5	
Bromodichloromethane	<1.0	ug/L	1.0	0.56	1		06/24/08 12:39	75-27-4	
Bromoform	<1.0	ug/L	1.0	0.94	1		06/24/08 12:39	75-25-2	
Bromomethane	<1.0	ug/L	1.0	0.91	1		06/24/08 12:39	74-83-9	
n-Butylbenzene	<1.0	ug/L	1.0	0.93	1		06/24/08 12:39	104-51-8	
sec-Butylbenzene	<1.0	ug/L	1.0	0.89	1		06/24/08 12:39	135-98-8	
tert-Butylbenzene	<1.0	ug/L	1.0	0.97	1		06/24/08 12:39	98-06-6	
Carbon tetrachloride	<1.0	ug/L	1.0	0.49	1		06/24/08 12:39	56-23-5	
Chlorobenzene	<1.0	ug/L	1.0	0.41	1		06/24/08 12:39	108-90-7	
Chloroethane	<1.0	ug/L	1.0	0.97	1		06/24/08 12:39	75-00-3	
Chloroform	<5.0	ug/L	5.0	0.37	1		06/24/08 12:39	67-66-3	
Chloromethane	<1.0	ug/L	1.0	0.24	1		06/24/08 12:39	74-87-3	
2-Chlorotoluene	<1.0	ug/L	1.0	0.85	1		06/24/08 12:39	95-49-8	
4-Chlorotoluene	<1.0	ug/L	1.0	0.74	1		06/24/08 12:39	106-43-4	
1,2-Dibromo-3-chloropropane	<5.0	ug/L	5.0	0.87	1		06/24/08 12:39	96-12-8	
Dibromochloromethane	<1.0	ug/L	1.0	0.81	1		06/24/08 12:39	124-48-1	
1,2-Dibromoethane (EDB)	<1.0	ug/L	1.0	0.56	1		06/24/08 12:39	106-93-4	
Dibromomethane	<1.0	ug/L	1.0	0.60	1		06/24/08 12:39	74-95-3	
1,2-Dichlorobenzene	<1.0	ug/L	1.0	0.83	1		06/24/08 12:39	95-50-1	
1,3-Dichlorobenzene	<1.0	ug/L	1.0	0.87	1		06/24/08 12:39	541-73-1	
1,4-Dichlorobenzene	<1.0	ug/L	1.0	0.95	1		06/24/08 12:39	106-46-7	
Dichlorodifluoromethane	<1.0	ug/L	1.0	0.99	1		06/24/08 12:39	75-71-8	
1,1-Dichloroethane	<1.0	ug/L	1.0	0.75	1		06/24/08 12:39	75-34-3	
1,2-Dichloroethane	<1.0	ug/L	1.0	0.36	1		06/24/08 12:39	107-06-2	
1,1-Dichloroethene	<1.0	ug/L	1.0	0.57	1		06/24/08 12:39	75-35-4	
cis-1,2-Dichloroethene	<1.0	ug/L	1.0	0.83	1		06/24/08 12:39	156-59-2	
trans-1,2-Dichloroethene	<1.0	ug/L	1.0	0.89	1		06/24/08 12:39	156-60-5	
1,2-Dichloropropane	<1.0	ug/L	1.0	0.46	1		06/24/08 12:39	78-87-5	
1,3-Dichloropropane	<1.0	ug/L	1.0	0.61	1		06/24/08 12:39	142-28-9	
2,2-Dichloropropane	<1.0	ug/L	1.0	0.62	1		06/24/08 12:39	594-20-7	
1,1-Dichloropropene	<1.0	ug/L	1.0	0.75	1		06/24/08 12:39	563-58-6	
cis-1,3-Dichloropropene	<1.0	ug/L	1.0	0.19	1		06/24/08 12:39	10061-01-5	
trans-1,3-Dichloropropene	<1.0	ug/L	1.0	0.19	1		06/24/08 12:39	10061-02-6	
Diisopropyl ether	<1.0	ug/L	1.0	0.76	1		06/24/08 12:39	108-20-3	
Ethylbenzene	<1.0	ug/L	1.0	0.54	1		06/24/08 12:39	100-41-4	
Hexachloro-1,3-butadiene	<1.0	ug/L	1.0	0.67	1		06/24/08 12:39	87-68-3	
Isopropylbenzene (Cumene)	<1.0	ug/L	1.0	0.59	1		06/24/08 12:39	98-82-8	
p-Isopropyltoluene	<1.0	ug/L	1.0	0.67	1		06/24/08 12:39	99-87-6	
Methylene Chloride	<1.0	ug/L	1.0	0.43	1		06/24/08 12:39	75-09-2	
Methyl-tert-butyl ether	<1.0	ug/L	1.0	0.61	1		06/24/08 12:39	1634-04-4	
Naphthalene	<5.0	ug/L	5.0	0.74	1		06/24/08 12:39	91-20-3	
n-Propylbenzene	<1.0	ug/L	1.0	0.81	1		06/24/08 12:39	103-65-1	
Styrene	<1.0	ug/L	1.0	0.86	1		06/24/08 12:39	100-42-5	
1,1,1,2-Tetrachloroethane	<1.0	ug/L	1.0	0.92	1		06/24/08 12:39	630-20-6	

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ANALYTICAL RESULTS

Project: 2541.26 DANA ROSCOE
Pace Project No.: 405322

Sample: HEMW-2 **Lab ID: 405322003** Collected: 06/16/08 14:20 Received: 06/19/08 08:45 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
1,1,2,2-Tetrachloroethane	**<1.0**	ug/L	1.0	0.20	1		06/24/08 12:39	79-34-5	
Tetrachloroethene	**<1.0**	ug/L	1.0	0.45	1		06/24/08 12:39	127-18-4	
Toluene	**<1.0**	ug/L	1.0	0.67	1		06/24/08 12:39	108-88-3	
1,2,3-Trichlorobenzene	**<1.0**	ug/L	1.0	0.74	1		06/24/08 12:39	87-61-6	
1,2,4-Trichlorobenzene	**<1.0**	ug/L	1.0	0.97	1		06/24/08 12:39	120-82-1	
1,1,1-Trichloroethane	**<1.0**	ug/L	1.0	0.90	1		06/24/08 12:39	71-55-6	
1,1,2-Trichloroethane	**<1.0**	ug/L	1.0	0.42	1		06/24/08 12:39	79-00-5	
Trichloroethene	**<1.0**	ug/L	1.0	0.48	1		06/24/08 12:39	79-01-6	
Trichlorofluoromethane	**<1.0**	ug/L	1.0	0.79	1		06/24/08 12:39	75-69-4	
1,2,3-Trichloropropane	**<1.0**	ug/L	1.0	0.99	1		06/24/08 12:39	96-18-4	
1,2,4-Trimethylbenzene	**<1.0**	ug/L	1.0	0.97	1		06/24/08 12:39	95-63-6	
1,3,5-Trimethylbenzene	**<1.0**	ug/L	1.0	0.83	1		06/24/08 12:39	108-67-8	
Vinyl chloride	**<1.0**	ug/L	1.0	0.18	1		06/24/08 12:39	75-01-4	
m&p-Xylene	**<2.0**	ug/L	2.0	1.8	1		06/24/08 12:39	1330-20-7	
o-Xylene	**<1.0**	ug/L	1.0	0.83	1		06/24/08 12:39	95-47-6	
4-Bromofluorobenzene (S)	103	%	64-132		1		06/24/08 12:39	460-00-4	
Dibromofluoromethane (S)	101	%	68-122		1		06/24/08 12:39	1868-53-7	
Toluene-d8 (S)	101	%	73-127		1		06/24/08 12:39	2037-26-5	

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ANALYTICAL RESULTS

Project: 2541.26 DANA ROSCOE
Pace Project No.: 405322

Sample: RB-01 **Lab ID: 405322004** Collected: 06/16/08 13:30 Received: 06/19/08 08:45 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
Benzene	<1.0	ug/L	1.0	0.41	1		06/23/08 11:26	71-43-2	
Bromobenzene	<1.0	ug/L	1.0	0.82	1		06/23/08 11:26	108-86-1	
Bromochloromethane	<1.0	ug/L	1.0	0.97	1		06/23/08 11:26	74-97-5	
Bromodichloromethane	<1.0	ug/L	1.0	0.56	1		06/23/08 11:26	75-27-4	
Bromoform	<1.0	ug/L	1.0	0.94	1		06/23/08 11:26	75-25-2	
Bromomethane	<1.0	ug/L	1.0	0.91	1		06/23/08 11:26	74-83-9	
n-Butylbenzene	<1.0	ug/L	1.0	0.93	1		06/23/08 11:26	104-51-8	
sec-Butylbenzene	<1.0	ug/L	1.0	0.89	1		06/23/08 11:26	135-98-8	
tert-Butylbenzene	<1.0	ug/L	1.0	0.97	1		06/23/08 11:26	98-06-6	
Carbon tetrachloride	<1.0	ug/L	1.0	0.49	1		06/23/08 11:26	56-23-5	
Chlorobenzene	<1.0	ug/L	1.0	0.41	1		06/23/08 11:26	108-90-7	
Chloroethane	<1.0	ug/L	1.0	0.97	1		06/23/08 11:26	75-00-3	
Chloroform	<5.0	ug/L	5.0	0.37	1		06/23/08 11:26	67-66-3	
Chloromethane	<1.0	ug/L	1.0	0.24	1		06/23/08 11:26	74-87-3	
2-Chlorotoluene	<1.0	ug/L	1.0	0.85	1		06/23/08 11:26	95-49-8	
4-Chlorotoluene	<1.0	ug/L	1.0	0.74	1		06/23/08 11:26	106-43-4	
1,2-Dibromo-3-chloropropane	<5.0	ug/L	5.0	0.87	1		06/23/08 11:26	96-12-8	
Dibromochloromethane	<1.0	ug/L	1.0	0.81	1		06/23/08 11:26	124-48-1	
1,2-Dibromoethane (EDB)	<1.0	ug/L	1.0	0.56	1		06/23/08 11:26	106-93-4	
Dibromomethane	<1.0	ug/L	1.0	0.60	1		06/23/08 11:26	74-95-3	
1,2-Dichlorobenzene	<1.0	ug/L	1.0	0.83	1		06/23/08 11:26	95-50-1	
1,3-Dichlorobenzene	<1.0	ug/L	1.0	0.87	1		06/23/08 11:26	541-73-1	
1,4-Dichlorobenzene	<1.0	ug/L	1.0	0.95	1		06/23/08 11:26	106-46-7	
Dichlorodifluoromethane	<1.0	ug/L	1.0	0.99	1		06/23/08 11:26	75-71-8	
1,1-Dichloroethane	<1.0	ug/L	1.0	0.75	1		06/23/08 11:26	75-34-3	
1,2-Dichloroethane	<1.0	ug/L	1.0	0.36	1		06/23/08 11:26	107-06-2	
1,1-Dichloroethene	<1.0	ug/L	1.0	0.57	1		06/23/08 11:26	75-35-4	
cis-1,2-Dichloroethene	<1.0	ug/L	1.0	0.83	1		06/23/08 11:26	156-59-2	
trans-1,2-Dichloroethene	<1.0	ug/L	1.0	0.89	1		06/23/08 11:26	156-60-5	
1,2-Dichloropropane	<1.0	ug/L	1.0	0.46	1		06/23/08 11:26	78-87-5	
1,3-Dichloropropane	<1.0	ug/L	1.0	0.61	1		06/23/08 11:26	142-28-9	
2,2-Dichloropropane	<1.0	ug/L	1.0	0.62	1		06/23/08 11:26	594-20-7	
1,1-Dichloropropene	<1.0	ug/L	1.0	0.75	1		06/23/08 11:26	563-58-6	
cis-1,3-Dichloropropene	<1.0	ug/L	1.0	0.19	1		06/23/08 11:26	10061-01-5	
trans-1,3-Dichloropropene	<1.0	ug/L	1.0	0.19	1		06/23/08 11:26	10061-02-6	
Diisopropyl ether	<1.0	ug/L	1.0	0.76	1		06/23/08 11:26	108-20-3	
Ethylbenzene	<1.0	ug/L	1.0	0.54	1		06/23/08 11:26	100-41-4	
Hexachloro-1,3-butadiene	<1.0	ug/L	1.0	0.67	1		06/23/08 11:26	87-68-3	
Isopropylbenzene (Cumene)	<1.0	ug/L	1.0	0.59	1		06/23/08 11:26	98-82-8	
p-Isopropyltoluene	<1.0	ug/L	1.0	0.67	1		06/23/08 11:26	99-87-6	
Methylene Chloride	<1.0	ug/L	1.0	0.43	1		06/23/08 11:26	75-09-2	
Methyl-tert-butyl ether	<1.0	ug/L	1.0	0.61	1		06/23/08 11:26	1634-04-4	
Naphthalene	<5.0	ug/L	5.0	0.74	1		06/23/08 11:26	91-20-3	
n-Propylbenzene	<1.0	ug/L	1.0	0.81	1		06/23/08 11:26	103-65-1	
Styrene	<1.0	ug/L	1.0	0.86	1		06/23/08 11:26	100-42-5	
1,1,1,2-Tetrachloroethane	<1.0	ug/L	1.0	0.92	1		06/23/08 11:26	630-20-6	

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ANALYTICAL RESULTS

Project: 2541.26 DANA ROSCOE
Pace Project No.: 405322

Sample: RB-01 **Lab ID: 405322004** Collected: 06/16/08 13:30 Received: 06/19/08 08:45 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
1,1,2,2-Tetrachloroethane	**<1.0**	ug/L	1.0	0.20	1		06/23/08 11:26	79-34-5	
Tetrachloroethene	**<1.0**	ug/L	1.0	0.45	1		06/23/08 11:26	127-18-4	
Toluene	**<1.0**	ug/L	1.0	0.67	1		06/23/08 11:26	108-88-3	
1,2,3-Trichlorobenzene	**<1.0**	ug/L	1.0	0.74	1		06/23/08 11:26	87-61-6	
1,2,4-Trichlorobenzene	**<1.0**	ug/L	1.0	0.97	1		06/23/08 11:26	120-82-1	
1,1,1-Trichloroethane	**<1.0**	ug/L	1.0	0.90	1		06/23/08 11:26	71-55-6	
1,1,2-Trichloroethane	**<1.0**	ug/L	1.0	0.42	1		06/23/08 11:26	79-00-5	
Trichloroethene	**<1.0**	ug/L	1.0	0.48	1		06/23/08 11:26	79-01-6	
Trichlorofluoromethane	**<1.0**	ug/L	1.0	0.79	1		06/23/08 11:26	75-69-4	
1,2,3-Trichloropropane	**<1.0**	ug/L	1.0	0.99	1		06/23/08 11:26	96-18-4	
1,2,4-Trimethylbenzene	**<1.0**	ug/L	1.0	0.97	1		06/23/08 11:26	95-63-6	
1,3,5-Trimethylbenzene	**<1.0**	ug/L	1.0	0.83	1		06/23/08 11:26	108-67-8	
Vinyl chloride	**<1.0**	ug/L	1.0	0.18	1		06/23/08 11:26	75-01-4	
m&p-Xylene	**<2.0**	ug/L	2.0	1.8	1		06/23/08 11:26	1330-20-7	
o-Xylene	**<1.0**	ug/L	1.0	0.83	1		06/23/08 11:26	95-47-6	
4-Bromofluorobenzene (S)	93	%	64-132		1		06/23/08 11:26	460-00-4	
Dibromofluoromethane (S)	106	%	68-122		1		06/23/08 11:26	1868-53-7	
Toluene-d8 (S)	99	%	73-127		1		06/23/08 11:26	2037-26-5	

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ANALYTICAL RESULTS

Project: 2541.26 DANA ROSCOE
Pace Project No.: 405322

Sample: HEMW-1 **Lab ID: 405322005** Collected: 06/16/08 15:20 Received: 06/19/08 08:45 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
Benzene	<1.0	ug/L	1.0	0.41	1		06/23/08 11:49	71-43-2	
Bromobenzene	<1.0	ug/L	1.0	0.82	1		06/23/08 11:49	108-86-1	
Bromochloromethane	<1.0	ug/L	1.0	0.97	1		06/23/08 11:49	74-97-5	
Bromodichloromethane	<1.0	ug/L	1.0	0.56	1		06/23/08 11:49	75-27-4	
Bromoform	<1.0	ug/L	1.0	0.94	1		06/23/08 11:49	75-25-2	
Bromomethane	<1.0	ug/L	1.0	0.91	1		06/23/08 11:49	74-83-9	
n-Butylbenzene	<1.0	ug/L	1.0	0.93	1		06/23/08 11:49	104-51-8	
sec-Butylbenzene	<1.0	ug/L	1.0	0.89	1		06/23/08 11:49	135-98-8	
tert-Butylbenzene	<1.0	ug/L	1.0	0.97	1		06/23/08 11:49	98-06-6	
Carbon tetrachloride	<1.0	ug/L	1.0	0.49	1		06/23/08 11:49	56-23-5	
Chlorobenzene	<1.0	ug/L	1.0	0.41	1		06/23/08 11:49	108-90-7	
Chloroethane	<1.0	ug/L	1.0	0.97	1		06/23/08 11:49	75-00-3	
Chloroform	<5.0	ug/L	5.0	0.37	1		06/23/08 11:49	67-66-3	
Chloromethane	<1.0	ug/L	1.0	0.24	1		06/23/08 11:49	74-87-3	
2-Chlorotoluene	<1.0	ug/L	1.0	0.85	1		06/23/08 11:49	95-49-8	
4-Chlorotoluene	<1.0	ug/L	1.0	0.74	1		06/23/08 11:49	106-43-4	
1,2-Dibromo-3-chloropropane	<5.0	ug/L	5.0	0.87	1		06/23/08 11:49	96-12-8	
Dibromochloromethane	<1.0	ug/L	1.0	0.81	1		06/23/08 11:49	124-48-1	
1,2-Dibromoethane (EDB)	<1.0	ug/L	1.0	0.56	1		06/23/08 11:49	106-93-4	
Dibromomethane	<1.0	ug/L	1.0	0.60	1		06/23/08 11:49	74-95-3	
1,2-Dichlorobenzene	<1.0	ug/L	1.0	0.83	1		06/23/08 11:49	95-50-1	
1,3-Dichlorobenzene	<1.0	ug/L	1.0	0.87	1		06/23/08 11:49	541-73-1	
1,4-Dichlorobenzene	<1.0	ug/L	1.0	0.95	1		06/23/08 11:49	106-46-7	
Dichlorodifluoromethane	<1.0	ug/L	1.0	0.99	1		06/23/08 11:49	75-71-8	
1,1-Dichloroethane	<1.0	ug/L	1.0	0.75	1		06/23/08 11:49	75-34-3	
1,2-Dichloroethane	<1.0	ug/L	1.0	0.36	1		06/23/08 11:49	107-06-2	
1,1-Dichloroethene	<1.0	ug/L	1.0	0.57	1		06/23/08 11:49	75-35-4	
cis-1,2-Dichloroethene	<1.0	ug/L	1.0	0.83	1		06/23/08 11:49	156-59-2	
trans-1,2-Dichloroethene	<1.0	ug/L	1.0	0.89	1		06/23/08 11:49	156-60-5	
1,2-Dichloropropane	<1.0	ug/L	1.0	0.46	1		06/23/08 11:49	78-87-5	
1,3-Dichloropropane	<1.0	ug/L	1.0	0.61	1		06/23/08 11:49	142-28-9	
2,2-Dichloropropane	<1.0	ug/L	1.0	0.62	1		06/23/08 11:49	594-20-7	
1,1-Dichloropropene	<1.0	ug/L	1.0	0.75	1		06/23/08 11:49	563-58-6	
cis-1,3-Dichloropropene	<1.0	ug/L	1.0	0.19	1		06/23/08 11:49	10061-01-5	
trans-1,3-Dichloropropene	<1.0	ug/L	1.0	0.19	1		06/23/08 11:49	10061-02-6	
Diisopropyl ether	<1.0	ug/L	1.0	0.76	1		06/23/08 11:49	108-20-3	
Ethylbenzene	<1.0	ug/L	1.0	0.54	1		06/23/08 11:49	100-41-4	
Hexachloro-1,3-butadiene	<1.0	ug/L	1.0	0.67	1		06/23/08 11:49	87-68-3	
Isopropylbenzene (Cumene)	<1.0	ug/L	1.0	0.59	1		06/23/08 11:49	98-82-8	
p-Isopropyltoluene	<1.0	ug/L	1.0	0.67	1		06/23/08 11:49	99-87-6	
Methylene Chloride	<1.0	ug/L	1.0	0.43	1		06/23/08 11:49	75-09-2	
Methyl-tert-butyl ether	<1.0	ug/L	1.0	0.61	1		06/23/08 11:49	1634-04-4	
Naphthalene	<5.0	ug/L	5.0	0.74	1		06/23/08 11:49	91-20-3	
n-Propylbenzene	<1.0	ug/L	1.0	0.81	1		06/23/08 11:49	103-65-1	
Styrene	<1.0	ug/L	1.0	0.86	1		06/23/08 11:49	100-42-5	
1,1,1,2-Tetrachloroethane	<1.0	ug/L	1.0	0.92	1		06/23/08 11:49	630-20-6	

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ANALYTICAL RESULTS

Project: 2541.26 DANA ROSCOE
Pace Project No.: 405322

Sample: HEMW-1 **Lab ID: 405322005** Collected: 06/16/08 15:20 Received: 06/19/08 08:45 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
1,1,2,2-Tetrachloroethane	**<1.0**	ug/L	1.0	0.20	1		06/23/08 11:49	79-34-5	
Tetrachloroethene	**<1.0**	ug/L	1.0	0.45	1		06/23/08 11:49	127-18-4	
Toluene	**<1.0**	ug/L	1.0	0.67	1		06/23/08 11:49	108-88-3	
1,2,3-Trichlorobenzene	**<1.0**	ug/L	1.0	0.74	1		06/23/08 11:49	87-61-6	
1,2,4-Trichlorobenzene	**<1.0**	ug/L	1.0	0.97	1		06/23/08 11:49	120-82-1	
1,1,1-Trichloroethane	**<1.0**	ug/L	1.0	0.90	1		06/23/08 11:49	71-55-6	
1,1,2-Trichloroethane	**<1.0**	ug/L	1.0	0.42	1		06/23/08 11:49	79-00-5	
Trichloroethene	**<1.0**	ug/L	1.0	0.48	1		06/23/08 11:49	79-01-6	
Trichlorofluoromethane	**<1.0**	ug/L	1.0	0.79	1		06/23/08 11:49	75-69-4	
1,2,3-Trichloropropane	**<1.0**	ug/L	1.0	0.99	1		06/23/08 11:49	96-18-4	
1,2,4-Trimethylbenzene	**<1.0**	ug/L	1.0	0.97	1		06/23/08 11:49	95-63-6	
1,3,5-Trimethylbenzene	**<1.0**	ug/L	1.0	0.83	1		06/23/08 11:49	108-67-8	
Vinyl chloride	**<1.0**	ug/L	1.0	0.18	1		06/23/08 11:49	75-01-4	
m&p-Xylene	**<2.0**	ug/L	2.0	1.8	1		06/23/08 11:49	1330-20-7	
o-Xylene	**<1.0**	ug/L	1.0	0.83	1		06/23/08 11:49	95-47-6	
4-Bromofluorobenzene (S)	91	%	64-132		1		06/23/08 11:49	460-00-4	
Dibromofluoromethane (S)	106	%	68-122		1		06/23/08 11:49	1868-53-7	
Toluene-d8 (S)	99	%	73-127		1		06/23/08 11:49	2037-26-5	

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ANALYTICAL RESULTS

Project: 2541.26 DANA ROSCOE
Pace Project No.: 405322

Sample: DUP-01 **Lab ID: 405322006** Collected: 06/16/08 00:00 Received: 06/19/08 08:45 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
Benzene	**<1.0**	ug/L	1.0	0.41	1		06/23/08 12:13	71-43-2	
Bromobenzene	**<1.0**	ug/L	1.0	0.82	1		06/23/08 12:13	108-86-1	
Bromochloromethane	**<1.0**	ug/L	1.0	0.97	1		06/23/08 12:13	74-97-5	
Bromodichloromethane	**<1.0**	ug/L	1.0	0.56	1		06/23/08 12:13	75-27-4	
Bromoform	**<1.0**	ug/L	1.0	0.94	1		06/23/08 12:13	75-25-2	
Bromomethane	**<1.0**	ug/L	1.0	0.91	1		06/23/08 12:13	74-83-9	
n-Butylbenzene	**<1.0**	ug/L	1.0	0.93	1		06/23/08 12:13	104-51-8	
sec-Butylbenzene	**<1.0**	ug/L	1.0	0.89	1		06/23/08 12:13	135-98-8	
tert-Butylbenzene	**<1.0**	ug/L	1.0	0.97	1		06/23/08 12:13	98-06-6	
Carbon tetrachloride	**<1.0**	ug/L	1.0	0.49	1		06/23/08 12:13	56-23-5	
Chlorobenzene	**<1.0**	ug/L	1.0	0.41	1		06/23/08 12:13	108-90-7	
Chloroethane	**<1.0**	ug/L	1.0	0.97	1		06/23/08 12:13	75-00-3	
Chloroform	**<5.0**	ug/L	5.0	0.37	1		06/23/08 12:13	67-66-3	
Chloromethane	**<1.0**	ug/L	1.0	0.24	1		06/23/08 12:13	74-87-3	
2-Chlorotoluene	**<1.0**	ug/L	1.0	0.85	1		06/23/08 12:13	95-49-8	
4-Chlorotoluene	**<1.0**	ug/L	1.0	0.74	1		06/23/08 12:13	106-43-4	
1,2-Dibromo-3-chloropropane	**<5.0**	ug/L	5.0	0.87	1		06/23/08 12:13	96-12-8	
Dibromochloromethane	**<1.0**	ug/L	1.0	0.81	1		06/23/08 12:13	124-48-1	
1,2-Dibromoethane (EDB)	**<1.0**	ug/L	1.0	0.56	1		06/23/08 12:13	106-93-4	
Dibromomethane	**<1.0**	ug/L	1.0	0.60	1		06/23/08 12:13	74-95-3	
1,2-Dichlorobenzene	**<1.0**	ug/L	1.0	0.83	1		06/23/08 12:13	95-50-1	
1,3-Dichlorobenzene	**<1.0**	ug/L	1.0	0.87	1		06/23/08 12:13	541-73-1	
1,4-Dichlorobenzene	**<1.0**	ug/L	1.0	0.95	1		06/23/08 12:13	106-46-7	
Dichlorodifluoromethane	**<1.0**	ug/L	1.0	0.99	1		06/23/08 12:13	75-71-8	
1,1-Dichloroethane	**<1.0**	ug/L	1.0	0.75	1		06/23/08 12:13	75-34-3	
1,2-Dichloroethane	**<1.0**	ug/L	1.0	0.36	1		06/23/08 12:13	107-06-2	
1,1-Dichloroethene	**<1.0**	ug/L	1.0	0.57	1		06/23/08 12:13	75-35-4	
cis-1,2-Dichloroethene	**<1.0**	ug/L	1.0	0.83	1		06/23/08 12:13	156-59-2	
trans-1,2-Dichloroethene	**<1.0**	ug/L	1.0	0.89	1		06/23/08 12:13	156-60-5	
1,2-Dichloropropane	**<1.0**	ug/L	1.0	0.46	1		06/23/08 12:13	78-87-5	
1,3-Dichloropropane	**<1.0**	ug/L	1.0	0.61	1		06/23/08 12:13	142-28-9	
2,2-Dichloropropane	**<1.0**	ug/L	1.0	0.62	1		06/23/08 12:13	594-20-7	
1,1-Dichloropropene	**<1.0**	ug/L	1.0	0.75	1		06/23/08 12:13	563-58-6	
cis-1,3-Dichloropropene	**<1.0**	ug/L	1.0	0.19	1		06/23/08 12:13	10061-01-5	
trans-1,3-Dichloropropene	**<1.0**	ug/L	1.0	0.19	1		06/23/08 12:13	10061-02-6	
Diisopropyl ether	**<1.0**	ug/L	1.0	0.76	1		06/23/08 12:13	108-20-3	
Ethylbenzene	**<1.0**	ug/L	1.0	0.54	1		06/23/08 12:13	100-41-4	
Hexachloro-1,3-butadiene	**<1.0**	ug/L	1.0	0.67	1		06/23/08 12:13	87-68-3	
Isopropylbenzene (Cumene)	**<1.0**	ug/L	1.0	0.59	1		06/23/08 12:13	98-82-8	
p-Isopropyltoluene	**<1.0**	ug/L	1.0	0.67	1		06/23/08 12:13	99-87-6	
Methylene Chloride	**<1.0**	ug/L	1.0	0.43	1		06/23/08 12:13	75-09-2	
Methyl-tert-butyl ether	**<1.0**	ug/L	1.0	0.61	1		06/23/08 12:13	1634-04-4	
Naphthalene	**<5.0**	ug/L	5.0	0.74	1		06/23/08 12:13	91-20-3	
n-Propylbenzene	**<1.0**	ug/L	1.0	0.81	1		06/23/08 12:13	103-65-1	
Styrene	**<1.0**	ug/L	1.0	0.86	1		06/23/08 12:13	100-42-5	
1,1,1,2-Tetrachloroethane	**<1.0**	ug/L	1.0	0.92	1		06/23/08 12:13	630-20-6	

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ANALYTICAL RESULTS

Project: 2541.26 DANA ROSCOE
Pace Project No.: 405322

Sample: DUP-01 **Lab ID: 405322006** Collected: 06/16/08 00:00 Received: 06/19/08 08:45 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
1,1,2,2-Tetrachloroethane	**<1.0**	ug/L	1.0	0.20	1		06/23/08 12:13	79-34-5	
Tetrachloroethene	**<1.0**	ug/L	1.0	0.45	1		06/23/08 12:13	127-18-4	
Toluene	**<1.0**	ug/L	1.0	0.67	1		06/23/08 12:13	108-88-3	
1,2,3-Trichlorobenzene	**<1.0**	ug/L	1.0	0.74	1		06/23/08 12:13	87-61-6	
1,2,4-Trichlorobenzene	**<1.0**	ug/L	1.0	0.97	1		06/23/08 12:13	120-82-1	
1,1,1-Trichloroethane	**<1.0**	ug/L	1.0	0.90	1		06/23/08 12:13	71-55-6	
1,1,2-Trichloroethane	**<1.0**	ug/L	1.0	0.42	1		06/23/08 12:13	79-00-5	
Trichloroethene	**<1.0**	ug/L	1.0	0.48	1		06/23/08 12:13	79-01-6	
Trichlorofluoromethane	**<1.0**	ug/L	1.0	0.79	1		06/23/08 12:13	75-69-4	
1,2,3-Trichloropropane	**<1.0**	ug/L	1.0	0.99	1		06/23/08 12:13	96-18-4	
1,2,4-Trimethylbenzene	**<1.0**	ug/L	1.0	0.97	1		06/23/08 12:13	95-63-6	
1,3,5-Trimethylbenzene	**<1.0**	ug/L	1.0	0.83	1		06/23/08 12:13	108-67-8	
Vinyl chloride	**<1.0**	ug/L	1.0	0.18	1		06/23/08 12:13	75-01-4	
m&p-Xylene	**<2.0**	ug/L	2.0	1.8	1		06/23/08 12:13	1330-20-7	
o-Xylene	**<1.0**	ug/L	1.0	0.83	1		06/23/08 12:13	95-47-6	
4-Bromofluorobenzene (S)	93	%	64-132		1		06/23/08 12:13	460-00-4	
Dibromofluoromethane (S)	106	%	68-122		1		06/23/08 12:13	1868-53-7	
Toluene-d8 (S)	101	%	73-127		1		06/23/08 12:13	2037-26-5	

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ANALYTICAL RESULTS

Project: 2541.26 DANA ROSCOE
Pace Project No.: 405322

Sample: CC-07-90 **Lab ID: 405322007** Collected: 06/17/08 09:30 Received: 06/19/08 08:45 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
1,1,1-Trichloroethane	**1.0**	ug/L	1.0	0.90	1		06/23/08 12:37	71-55-6	
1,1-Dichloroethane	**<1.0**	ug/L	1.0	0.75	1		06/23/08 12:37	75-34-3	
1,4-Dichlorobenzene	**<1.0**	ug/L	1.0	0.95	1		06/23/08 12:37	106-46-7	
Dichlorodifluoromethane	**<1.0**	ug/L	1.0	0.99	1		06/23/08 12:37	75-71-8	
Methylene Chloride	**<1.0**	ug/L	1.0	0.43	1		06/23/08 12:37	75-09-2	
Tetrachloroethene	**<1.0**	ug/L	1.0	0.45	1		06/23/08 12:37	127-18-4	
Toluene	**<1.0**	ug/L	1.0	0.67	1		06/23/08 12:37	108-88-3	
Trichloroethene	**8.3**	ug/L	1.0	0.48	1		06/23/08 12:37	79-01-6	
Vinyl chloride	**<1.0**	ug/L	1.0	0.18	1		06/23/08 12:37	75-01-4	
cis-1,2-Dichloroethene	**5.2**	ug/L	1.0	0.83	1		06/23/08 12:37	156-59-2	
trans-1,2-Dichloroethene	**<1.0**	ug/L	1.0	0.89	1		06/23/08 12:37	156-60-5	
4-Bromofluorobenzene (S)	94	%	64-132		1		06/23/08 12:37	460-00-4	
Dibromofluoromethane (S)	108	%	68-122		1		06/23/08 12:37	1868-53-7	
Toluene-d8 (S)	100	%	73-127		1		06/23/08 12:37	2037-26-5	

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ANALYTICAL RESULTS

Project: 2541.26 DANA ROSCOE
Pace Project No.: 405322

Sample: CC-07-70 **Lab ID: 405322008** Collected: 06/17/08 09:40 Received: 06/19/08 08:45 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
1,1,1-Trichloroethane	**1.1**	ug/L	1.0	0.90	1		06/23/08 13:01	71-55-6	
1,1-Dichloroethane	**<1.0**	ug/L	1.0	0.75	1		06/23/08 13:01	75-34-3	
1,4-Dichlorobenzene	**<1.0**	ug/L	1.0	0.95	1		06/23/08 13:01	106-46-7	
Dichlorodifluoromethane	**<1.0**	ug/L	1.0	0.99	1		06/23/08 13:01	75-71-8	
Methylene Chloride	**<1.0**	ug/L	1.0	0.43	1		06/23/08 13:01	75-09-2	
Tetrachloroethene	**<1.0**	ug/L	1.0	0.45	1		06/23/08 13:01	127-18-4	
Toluene	**<1.0**	ug/L	1.0	0.67	1		06/23/08 13:01	108-88-3	
Trichloroethene	**13.1**	ug/L	1.0	0.48	1		06/23/08 13:01	79-01-6	
Vinyl chloride	**<1.0**	ug/L	1.0	0.18	1		06/23/08 13:01	75-01-4	
cis-1,2-Dichloroethene	**7.8**	ug/L	1.0	0.83	1		06/23/08 13:01	156-59-2	
trans-1,2-Dichloroethene	**<1.0**	ug/L	1.0	0.89	1		06/23/08 13:01	156-60-5	
4-Bromofluorobenzene (S)	93	%	64-132		1		06/23/08 13:01	460-00-4	
Dibromofluoromethane (S)	106	%	68-122		1		06/23/08 13:01	1868-53-7	
Toluene-d8 (S)	101	%	73-127		1		06/23/08 13:01	2037-26-5	

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ANALYTICAL RESULTS

Project: 2541.26 DANA ROSCOE
Pace Project No.: 405322

Sample: CC-07-60 **Lab ID: 405322009** Collected: 06/17/08 09:50 Received: 06/19/08 08:45 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
1,1,1-Trichloroethane	**1.7**	ug/L	1.0	0.90	1		06/23/08 13:24	71-55-6	
1,1-Dichloroethane	**<1.0**	ug/L	1.0	0.75	1		06/23/08 13:24	75-34-3	
1,4-Dichlorobenzene	**<1.0**	ug/L	1.0	0.95	1		06/23/08 13:24	106-46-7	
Dichlorodifluoromethane	**<1.0**	ug/L	1.0	0.99	1		06/23/08 13:24	75-71-8	
Methylene Chloride	**<1.0**	ug/L	1.0	0.43	1		06/23/08 13:24	75-09-2	
Tetrachloroethene	**<1.0**	ug/L	1.0	0.45	1		06/23/08 13:24	127-18-4	
Toluene	**<1.0**	ug/L	1.0	0.67	1		06/23/08 13:24	108-88-3	
Trichloroethene	**23.6**	ug/L	1.0	0.48	1		06/23/08 13:24	79-01-6	
Vinyl chloride	**<1.0**	ug/L	1.0	0.18	1		06/23/08 13:24	75-01-4	
cis-1,2-Dichloroethene	**14.2**	ug/L	1.0	0.83	1		06/23/08 13:24	156-59-2	
trans-1,2-Dichloroethene	**<1.0**	ug/L	1.0	0.89	1		06/23/08 13:24	156-60-5	
4-Bromofluorobenzene (S)	93	%	64-132		1		06/23/08 13:24	460-00-4	
Dibromofluoromethane (S)	106	%	68-122		1		06/23/08 13:24	1868-53-7	
Toluene-d8 (S)	101	%	73-127		1		06/23/08 13:24	2037-26-5	

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ANALYTICAL RESULTS

Project: 2541.26 DANA ROSCOE
Pace Project No.: 405322

Sample: CC-07-50 **Lab ID: 405322010** Collected: 06/17/08 09:55 Received: 06/19/08 08:45 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
1,1,1-Trichloroethane	**2.2**	ug/L	1.0	0.90	1		06/23/08 13:48	71-55-6	
1,1-Dichloroethane	**<1.0**	ug/L	1.0	0.75	1		06/23/08 13:48	75-34-3	
1,4-Dichlorobenzene	**<1.0**	ug/L	1.0	0.95	1		06/23/08 13:48	106-46-7	
Dichlorodifluoromethane	**<1.0**	ug/L	1.0	0.99	1		06/23/08 13:48	75-71-8	
Methylene Chloride	**<1.0**	ug/L	1.0	0.43	1		06/23/08 13:48	75-09-2	
Tetrachloroethene	**<1.0**	ug/L	1.0	0.45	1		06/23/08 13:48	127-18-4	
Toluene	**<1.0**	ug/L	1.0	0.67	1		06/23/08 13:48	108-88-3	
Trichloroethene	**24.0**	ug/L	1.0	0.48	1		06/23/08 13:48	79-01-6	
Vinyl chloride	**<1.0**	ug/L	1.0	0.18	1		06/23/08 13:48	75-01-4	
cis-1,2-Dichloroethene	**18.5**	ug/L	1.0	0.83	1		06/23/08 13:48	156-59-2	
trans-1,2-Dichloroethene	**<1.0**	ug/L	1.0	0.89	1		06/23/08 13:48	156-60-5	
4-Bromofluorobenzene (S)	92	%	64-132		1		06/23/08 13:48	460-00-4	
Dibromofluoromethane (S)	106	%	68-122		1		06/23/08 13:48	1868-53-7	
Toluene-d8 (S)	99	%	73-127		1		06/23/08 13:48	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 2541.26 DANA ROSCOE
Pace Project No.: 405322

Sample: CC-07-35 **Lab ID: 405322011** Collected: 06/17/08 10:10 Received: 06/19/08 08:45 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
1,1,1-Trichloroethane	**<1.0**	ug/L	1.0	0.90	1		06/23/08 10:39	71-55-6	
1,1-Dichloroethane	**<1.0**	ug/L	1.0	0.75	1		06/23/08 10:39	75-34-3	
1,4-Dichlorobenzene	**<1.0**	ug/L	1.0	0.95	1		06/23/08 10:39	106-46-7	
Dichlorodifluoromethane	**<1.0**	ug/L	1.0	0.99	1		06/23/08 10:39	75-71-8	
Methylene Chloride	**<1.0**	ug/L	1.0	0.43	1		06/23/08 10:39	75-09-2	
Tetrachloroethene	**<1.0**	ug/L	1.0	0.45	1		06/23/08 10:39	127-18-4	
Toluene	**<1.0**	ug/L	1.0	0.67	1		06/23/08 10:39	108-88-3	
Trichloroethene	**9.2**	ug/L	1.0	0.48	1		06/23/08 10:39	79-01-6	
Vinyl chloride	**<1.0**	ug/L	1.0	0.18	1		06/23/08 10:39	75-01-4	
cis-1,2-Dichloroethene	**8.1**	ug/L	1.0	0.83	1		06/23/08 10:39	156-59-2	
trans-1,2-Dichloroethene	**<1.0**	ug/L	1.0	0.89	1		06/23/08 10:39	156-60-5	
4-Bromofluorobenzene (S)	93	%	64-132		1		06/23/08 10:39	460-00-4	
Dibromofluoromethane (S)	105	%	68-122		1		06/23/08 10:39	1868-53-7	
Toluene-d8 (S)	101	%	73-127		1		06/23/08 10:39	2037-26-5	

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ANALYTICAL RESULTS

Project: 2541.26 DANA ROSCOE
Pace Project No.: 405322

Sample: CC-08-90 **Lab ID: 405322012** Collected: 06/17/08 11:00 Received: 06/19/08 08:45 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
1,1,1-Trichloroethane	**<1.0**	ug/L	1.0	0.90	1		06/23/08 14:11	71-55-6	
1,1-Dichloroethane	**<1.0**	ug/L	1.0	0.75	1		06/23/08 14:11	75-34-3	
1,4-Dichlorobenzene	**<1.0**	ug/L	1.0	0.95	1		06/23/08 14:11	106-46-7	
Dichlorodifluoromethane	**<1.0**	ug/L	1.0	0.99	1		06/23/08 14:11	75-71-8	
Methylene Chloride	**<1.0**	ug/L	1.0	0.43	1		06/23/08 14:11	75-09-2	
Tetrachloroethene	**<1.0**	ug/L	1.0	0.45	1		06/23/08 14:11	127-18-4	
Toluene	**<1.0**	ug/L	1.0	0.67	1		06/23/08 14:11	108-88-3	
Trichloroethene	**1.8**	ug/L	1.0	0.48	1		06/23/08 14:11	79-01-6	
Vinyl chloride	**<1.0**	ug/L	1.0	0.18	1		06/23/08 14:11	75-01-4	
cis-1,2-Dichloroethene	**1.3**	ug/L	1.0	0.83	1		06/23/08 14:11	156-59-2	
trans-1,2-Dichloroethene	**<1.0**	ug/L	1.0	0.89	1		06/23/08 14:11	156-60-5	
4-Bromofluorobenzene (S)	93	%	64-132		1		06/23/08 14:11	460-00-4	
Dibromofluoromethane (S)	107	%	68-122		1		06/23/08 14:11	1868-53-7	
Toluene-d8 (S)	99	%	73-127		1		06/23/08 14:11	2037-26-5	

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ANALYTICAL RESULTS

Project: 2541.26 DANA ROSCOE
Pace Project No.: 405322

Sample: CC-08-70 **Lab ID: 405322013** Collected: 06/17/08 11:10 Received: 06/19/08 08:45 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
1,1,1-Trichloroethane	**<1.0**	ug/L	1.0	0.90	1		06/23/08 15:05	71-55-6	
1,1-Dichloroethane	**<1.0**	ug/L	1.0	0.75	1		06/23/08 15:05	75-34-3	
1,4-Dichlorobenzene	**<1.0**	ug/L	1.0	0.95	1		06/23/08 15:05	106-46-7	
Dichlorodifluoromethane	**<1.0**	ug/L	1.0	0.99	1		06/23/08 15:05	75-71-8	
Methylene Chloride	**<1.0**	ug/L	1.0	0.43	1		06/23/08 15:05	75-09-2	
Tetrachloroethene	**<1.0**	ug/L	1.0	0.45	1		06/23/08 15:05	127-18-4	
Toluene	**<1.0**	ug/L	1.0	0.67	1		06/23/08 15:05	108-88-3	
Trichloroethene	**10.8**	ug/L	1.0	0.48	1		06/23/08 15:05	79-01-6	
Vinyl chloride	**<1.0**	ug/L	1.0	0.18	1		06/23/08 15:05	75-01-4	
cis-1,2-Dichloroethene	**7.8**	ug/L	1.0	0.83	1		06/23/08 15:05	156-59-2	
trans-1,2-Dichloroethene	**<1.0**	ug/L	1.0	0.89	1		06/23/08 15:05	156-60-5	
4-Bromofluorobenzene (S)	92	%	64-132		1		06/23/08 15:05	460-00-4	
Dibromofluoromethane (S)	105	%	68-122		1		06/23/08 15:05	1868-53-7	
Toluene-d8 (S)	97	%	73-127		1		06/23/08 15:05	2037-26-5	

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ANALYTICAL RESULTS

Project: 2541.26 DANA ROSCOE
Pace Project No.: 405322

Sample: CC-08-60 **Lab ID: 405322014** Collected: 06/17/08 11:20 Received: 06/19/08 08:45 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
1,1,1-Trichloroethane	**<1.0**	ug/L	1.0	0.90	1		06/23/08 15:29	71-55-6	
1,1-Dichloroethane	**<1.0**	ug/L	1.0	0.75	1		06/23/08 15:29	75-34-3	
1,4-Dichlorobenzene	**<1.0**	ug/L	1.0	0.95	1		06/23/08 15:29	106-46-7	
Dichlorodifluoromethane	**<1.0**	ug/L	1.0	0.99	1		06/23/08 15:29	75-71-8	
Methylene Chloride	**<1.0**	ug/L	1.0	0.43	1		06/23/08 15:29	75-09-2	
Tetrachloroethene	**<1.0**	ug/L	1.0	0.45	1		06/23/08 15:29	127-18-4	
Toluene	**1.0**	ug/L	1.0	0.67	1		06/23/08 15:29	108-88-3	
Trichloroethene	**15.5**	ug/L	1.0	0.48	1		06/23/08 15:29	79-01-6	
Vinyl chloride	**<1.0**	ug/L	1.0	0.18	1		06/23/08 15:29	75-01-4	
cis-1,2-Dichloroethene	**10.2**	ug/L	1.0	0.83	1		06/23/08 15:29	156-59-2	
trans-1,2-Dichloroethene	**<1.0**	ug/L	1.0	0.89	1		06/23/08 15:29	156-60-5	
4-Bromofluorobenzene (S)	94	%	64-132		1		06/23/08 15:29	460-00-4	
Dibromofluoromethane (S)	107	%	68-122		1		06/23/08 15:29	1868-53-7	
Toluene-d8 (S)	101	%	73-127		1		06/23/08 15:29	2037-26-5	

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ANALYTICAL RESULTS

Project: 2541.26 DANA ROSCOE
Pace Project No.: 405322

Sample: CC-08-50 **Lab ID: 405322015** Collected: 06/17/08 11:30 Received: 06/19/08 08:45 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
1,1,1-Trichloroethane	**<1.0**	ug/L	1.0	0.90	1		06/23/08 15:53	71-55-6	
1,1-Dichloroethane	**<1.0**	ug/L	1.0	0.75	1		06/23/08 15:53	75-34-3	
1,4-Dichlorobenzene	**<1.0**	ug/L	1.0	0.95	1		06/23/08 15:53	106-46-7	
Dichlorodifluoromethane	**<1.0**	ug/L	1.0	0.99	1		06/23/08 15:53	75-71-8	
Methylene Chloride	**<1.0**	ug/L	1.0	0.43	1		06/23/08 15:53	75-09-2	
Tetrachloroethene	**<1.0**	ug/L	1.0	0.45	1		06/23/08 15:53	127-18-4	
Toluene	**<1.0**	ug/L	1.0	0.67	1		06/23/08 15:53	108-88-3	
Trichloroethene	**18.3**	ug/L	1.0	0.48	1		06/23/08 15:53	79-01-6	
Vinyl chloride	**<1.0**	ug/L	1.0	0.18	1		06/23/08 15:53	75-01-4	
cis-1,2-Dichloroethene	**12.3**	ug/L	1.0	0.83	1		06/23/08 15:53	156-59-2	
trans-1,2-Dichloroethene	**<1.0**	ug/L	1.0	0.89	1		06/23/08 15:53	156-60-5	
4-Bromofluorobenzene (S)	92	%	64-132		1		06/23/08 15:53	460-00-4	
Dibromofluoromethane (S)	107	%	68-122		1		06/23/08 15:53	1868-53-7	
Toluene-d8 (S)	100	%	73-127		1		06/23/08 15:53	2037-26-5	

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ANALYTICAL RESULTS

Project: 2541.26 DANA ROSCOE
Pace Project No.: 405322

Sample: CC-08-35 **Lab ID: 405322016** Collected: 06/17/08 11:35 Received: 06/19/08 08:45 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
1,1,1-Trichloroethane	**<1.0**	ug/L	1.0	0.90	1		06/23/08 16:16	71-55-6	
1,1-Dichloroethane	**<1.0**	ug/L	1.0	0.75	1		06/23/08 16:16	75-34-3	
1,4-Dichlorobenzene	**<1.0**	ug/L	1.0	0.95	1		06/23/08 16:16	106-46-7	
Dichlorodifluoromethane	**<1.0**	ug/L	1.0	0.99	1		06/23/08 16:16	75-71-8	
Methylene Chloride	**<1.0**	ug/L	1.0	0.43	1		06/23/08 16:16	75-09-2	
Tetrachloroethene	**<1.0**	ug/L	1.0	0.45	1		06/23/08 16:16	127-18-4	
Toluene	**1.4**	ug/L	1.0	0.67	1		06/23/08 16:16	108-88-3	
Trichloroethene	**6.0**	ug/L	1.0	0.48	1		06/23/08 16:16	79-01-6	
Vinyl chloride	**<1.0**	ug/L	1.0	0.18	1		06/23/08 16:16	75-01-4	
cis-1,2-Dichloroethene	**5.0**	ug/L	1.0	0.83	1		06/23/08 16:16	156-59-2	
trans-1,2-Dichloroethene	**<1.0**	ug/L	1.0	0.89	1		06/23/08 16:16	156-60-5	
4-Bromofluorobenzene (S)	92	%	64-132		1		06/23/08 16:16	460-00-4	
Dibromofluoromethane (S)	107	%	68-122		1		06/23/08 16:16	1868-53-7	
Toluene-d8 (S)	101	%	73-127		1		06/23/08 16:16	2037-26-5	

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ANALYTICAL RESULTS

Project: 2541.26 DANA ROSCOE
Pace Project No.: 405322

Sample: BB-07-90 **Lab ID: 405322017** Collected: 06/17/08 12:40 Received: 06/19/08 08:45 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
1,1,1-Trichloroethane	**<1.0**	ug/L	1.0	0.90	1		06/23/08 16:40	71-55-6	
1,1-Dichloroethane	**<1.0**	ug/L	1.0	0.75	1		06/23/08 16:40	75-34-3	
1,4-Dichlorobenzene	**<1.0**	ug/L	1.0	0.95	1		06/23/08 16:40	106-46-7	
Dichlorodifluoromethane	**<1.0**	ug/L	1.0	0.99	1		06/23/08 16:40	75-71-8	
Methylene Chloride	**<1.0**	ug/L	1.0	0.43	1		06/23/08 16:40	75-09-2	
Tetrachloroethene	**<1.0**	ug/L	1.0	0.45	1		06/23/08 16:40	127-18-4	
Toluene	**<1.0**	ug/L	1.0	0.67	1		06/23/08 16:40	108-88-3	
Trichloroethene	**<1.0**	ug/L	1.0	0.48	1		06/23/08 16:40	79-01-6	
Vinyl chloride	**<1.0**	ug/L	1.0	0.18	1		06/23/08 16:40	75-01-4	
cis-1,2-Dichloroethene	**<1.0**	ug/L	1.0	0.83	1		06/23/08 16:40	156-59-2	
trans-1,2-Dichloroethene	**<1.0**	ug/L	1.0	0.89	1		06/23/08 16:40	156-60-5	
4-Bromofluorobenzene (S)	92	%	64-132		1		06/23/08 16:40	460-00-4	
Dibromofluoromethane (S)	107	%	68-122		1		06/23/08 16:40	1868-53-7	
Toluene-d8 (S)	100	%	73-127		1		06/23/08 16:40	2037-26-5	

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ANALYTICAL RESULTS

Project: 2541.26 DANA ROSCOE
Pace Project No.: 405322

Sample: BB-07-70 **Lab ID: 405322018** Collected: 06/17/08 12:50 Received: 06/19/08 08:45 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
1,1,1-Trichloroethane	**<1.0**	ug/L	1.0	0.90	1		06/23/08 17:04	71-55-6	
1,1-Dichloroethane	**<1.0**	ug/L	1.0	0.75	1		06/23/08 17:04	75-34-3	
1,4-Dichlorobenzene	**<1.0**	ug/L	1.0	0.95	1		06/23/08 17:04	106-46-7	
Dichlorodifluoromethane	**<1.0**	ug/L	1.0	0.99	1		06/23/08 17:04	75-71-8	
Methylene Chloride	**<1.0**	ug/L	1.0	0.43	1		06/23/08 17:04	75-09-2	
Tetrachloroethene	**<1.0**	ug/L	1.0	0.45	1		06/23/08 17:04	127-18-4	
Toluene	**1.4**	ug/L	1.0	0.67	1		06/23/08 17:04	108-88-3	
Trichloroethene	**<1.0**	ug/L	1.0	0.48	1		06/23/08 17:04	79-01-6	
Vinyl chloride	**<1.0**	ug/L	1.0	0.18	1		06/23/08 17:04	75-01-4	
cis-1,2-Dichloroethene	**<1.0**	ug/L	1.0	0.83	1		06/23/08 17:04	156-59-2	
trans-1,2-Dichloroethene	**<1.0**	ug/L	1.0	0.89	1		06/23/08 17:04	156-60-5	
4-Bromofluorobenzene (S)	92	%	64-132		1		06/23/08 17:04	460-00-4	
Dibromofluoromethane (S)	107	%	68-122		1		06/23/08 17:04	1868-53-7	
Toluene-d8 (S)	100	%	73-127		1		06/23/08 17:04	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 2541.26 DANA ROSCOE
Pace Project No.: 405322

Sample: BB-07-60 **Lab ID: 405322019** Collected: 06/17/08 12:55 Received: 06/19/08 08:45 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
1,1,1-Trichloroethane	**<1.0**	ug/L	1.0	0.90	1		06/23/08 18:49	71-55-6	
1,1-Dichloroethane	**<1.0**	ug/L	1.0	0.75	1		06/23/08 18:49	75-34-3	
1,4-Dichlorobenzene	**<1.0**	ug/L	1.0	0.95	1		06/23/08 18:49	106-46-7	
Dichlorodifluoromethane	**<1.0**	ug/L	1.0	0.99	1		06/23/08 18:49	75-71-8	
Methylene Chloride	**<1.0**	ug/L	1.0	0.43	1		06/23/08 18:49	75-09-2	
Tetrachloroethene	**<1.0**	ug/L	1.0	0.45	1		06/23/08 18:49	127-18-4	
Toluene	**1.3**	ug/L	1.0	0.67	1		06/23/08 18:49	108-88-3	
Trichloroethene	**<1.0**	ug/L	1.0	0.48	1		06/23/08 18:49	79-01-6	
Vinyl chloride	**<1.0**	ug/L	1.0	0.18	1		06/23/08 18:49	75-01-4	
cis-1,2-Dichloroethene	**<1.0**	ug/L	1.0	0.83	1		06/23/08 18:49	156-59-2	
trans-1,2-Dichloroethene	**<1.0**	ug/L	1.0	0.89	1		06/23/08 18:49	156-60-5	
4-Bromofluorobenzene (S)	92	%	64-132		1		06/23/08 18:49	460-00-4	
Dibromofluoromethane (S)	106	%	68-122		1		06/23/08 18:49	1868-53-7	pH
Toluene-d8 (S)	100	%	73-127		1		06/23/08 18:49	2037-26-5	

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ANALYTICAL RESULTS

Project: 2541.26 DANA ROSCOE
Pace Project No.: 405322

Sample: BB-07-50 **Lab ID: 405322020** Collected: 06/17/08 13:10 Received: 06/19/08 08:45 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
1,1,1-Trichloroethane	**<1.0**	ug/L	1.0	0.90	1		06/23/08 19:13	71-55-6	
1,1-Dichloroethane	**<1.0**	ug/L	1.0	0.75	1		06/23/08 19:13	75-34-3	
1,4-Dichlorobenzene	**<1.0**	ug/L	1.0	0.95	1		06/23/08 19:13	106-46-7	
Dichlorodifluoromethane	**<1.0**	ug/L	1.0	0.99	1		06/23/08 19:13	75-71-8	
Methylene Chloride	**<1.0**	ug/L	1.0	0.43	1		06/23/08 19:13	75-09-2	
Tetrachloroethene	**<1.0**	ug/L	1.0	0.45	1		06/23/08 19:13	127-18-4	
Toluene	**1.3**	ug/L	1.0	0.67	1		06/23/08 19:13	108-88-3	
Trichloroethene	**1.2**	ug/L	1.0	0.48	1		06/23/08 19:13	79-01-6	
Vinyl chloride	**<1.0**	ug/L	1.0	0.18	1		06/23/08 19:13	75-01-4	
cis-1,2-Dichloroethene	**<1.0**	ug/L	1.0	0.83	1		06/23/08 19:13	156-59-2	
trans-1,2-Dichloroethene	**<1.0**	ug/L	1.0	0.89	1		06/23/08 19:13	156-60-5	
4-Bromofluorobenzene (S)	93	%	64-132		1		06/23/08 19:13	460-00-4	
Dibromofluoromethane (S)	107	%	68-122		1		06/23/08 19:13	1868-53-7	pH
Toluene-d8 (S)	99	%	73-127		1		06/23/08 19:13	2037-26-5	

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ANALYTICAL RESULTS

Project: 2541.26 DANA ROSCOE
Pace Project No.: 405322

Sample: BB-07-40 **Lab ID: 405322021** Collected: 06/17/08 13:20 Received: 06/19/08 08:45 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
1,1,1-Trichloroethane	**<1.0**	ug/L	1.0	0.90	1		06/23/08 19:37	71-55-6	
1,1-Dichloroethane	**<1.0**	ug/L	1.0	0.75	1		06/23/08 19:37	75-34-3	
1,4-Dichlorobenzene	**<1.0**	ug/L	1.0	0.95	1		06/23/08 19:37	106-46-7	
Dichlorodifluoromethane	**<1.0**	ug/L	1.0	0.99	1		06/23/08 19:37	75-71-8	
Methylene Chloride	**<1.0**	ug/L	1.0	0.43	1		06/23/08 19:37	75-09-2	
Tetrachloroethene	**<1.0**	ug/L	1.0	0.45	1		06/23/08 19:37	127-18-4	
Toluene	**1.1**	ug/L	1.0	0.67	1		06/23/08 19:37	108-88-3	
Trichloroethene	**<1.0**	ug/L	1.0	0.48	1		06/23/08 19:37	79-01-6	
Vinyl chloride	**<1.0**	ug/L	1.0	0.18	1		06/23/08 19:37	75-01-4	
cis-1,2-Dichloroethene	**<1.0**	ug/L	1.0	0.83	1		06/23/08 19:37	156-59-2	
trans-1,2-Dichloroethene	**<1.0**	ug/L	1.0	0.89	1		06/23/08 19:37	156-60-5	
4-Bromofluorobenzene (S)	92	%	64-132		1		06/23/08 19:37	460-00-4	
Dibromofluoromethane (S)	108	%	68-122		1		06/23/08 19:37	1868-53-7	pH
Toluene-d8 (S)	100	%	73-127		1		06/23/08 19:37	2037-26-5	

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ANALYTICAL RESULTS

Project: 2541.26 DANA ROSCOE
Pace Project No.: 405322

Sample: DUP-02 **Lab ID: 405322022** Collected: 06/17/08 00:00 Received: 06/19/08 08:45 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
1,1,1-Trichloroethane	**<1.0**	ug/L	1.0	0.90	1		06/23/08 20:00	71-55-6	
1,1-Dichloroethane	**<1.0**	ug/L	1.0	0.75	1		06/23/08 20:00	75-34-3	
1,4-Dichlorobenzene	**<1.0**	ug/L	1.0	0.95	1		06/23/08 20:00	106-46-7	
Dichlorodifluoromethane	**<1.0**	ug/L	1.0	0.99	1		06/23/08 20:00	75-71-8	
Methylene Chloride	**<1.0**	ug/L	1.0	0.43	1		06/23/08 20:00	75-09-2	
Tetrachloroethene	**<1.0**	ug/L	1.0	0.45	1		06/23/08 20:00	127-18-4	
Toluene	**<1.0**	ug/L	1.0	0.67	1		06/23/08 20:00	108-88-3	
Trichloroethene	**<1.0**	ug/L	1.0	0.48	1		06/23/08 20:00	79-01-6	
Vinyl chloride	**<1.0**	ug/L	1.0	0.18	1		06/23/08 20:00	75-01-4	
cis-1,2-Dichloroethene	**<1.0**	ug/L	1.0	0.83	1		06/23/08 20:00	156-59-2	
trans-1,2-Dichloroethene	**<1.0**	ug/L	1.0	0.89	1		06/23/08 20:00	156-60-5	
4-Bromofluorobenzene (S)	92	%	64-132		1		06/23/08 20:00	460-00-4	
Dibromofluoromethane (S)	103	%	68-122		1		06/23/08 20:00	1868-53-7	
Toluene-d8 (S)	99	%	73-127		1		06/23/08 20:00	2037-26-5	

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ANALYTICAL RESULTS

Project: 2541.26 DANA ROSCOE
Pace Project No.: 405322

Sample: TRIP BLANK **Lab ID: 405322023** Collected: 06/17/08 00:00 Received: 06/19/08 08:45 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
Benzene	**<1.0**	ug/L	1.0	0.41	1		06/23/08 11:02	71-43-2	
Bromobenzene	**<1.0**	ug/L	1.0	0.82	1		06/23/08 11:02	108-86-1	
Bromochloromethane	**<1.0**	ug/L	1.0	0.97	1		06/23/08 11:02	74-97-5	
Bromodichloromethane	**<1.0**	ug/L	1.0	0.56	1		06/23/08 11:02	75-27-4	
Bromoform	**<1.0**	ug/L	1.0	0.94	1		06/23/08 11:02	75-25-2	
Bromomethane	**<1.0**	ug/L	1.0	0.91	1		06/23/08 11:02	74-83-9	
n-Butylbenzene	**<1.0**	ug/L	1.0	0.93	1		06/23/08 11:02	104-51-8	
sec-Butylbenzene	**<1.0**	ug/L	1.0	0.89	1		06/23/08 11:02	135-98-8	
tert-Butylbenzene	**<1.0**	ug/L	1.0	0.97	1		06/23/08 11:02	98-06-6	
Carbon tetrachloride	**<1.0**	ug/L	1.0	0.49	1		06/23/08 11:02	56-23-5	
Chlorobenzene	**<1.0**	ug/L	1.0	0.41	1		06/23/08 11:02	108-90-7	
Chloroethane	**<1.0**	ug/L	1.0	0.97	1		06/23/08 11:02	75-00-3	
Chloroform	**<5.0**	ug/L	5.0	0.37	1		06/23/08 11:02	67-66-3	
Chloromethane	**<1.0**	ug/L	1.0	0.24	1		06/23/08 11:02	74-87-3	
2-Chlorotoluene	**<1.0**	ug/L	1.0	0.85	1		06/23/08 11:02	95-49-8	
4-Chlorotoluene	**<1.0**	ug/L	1.0	0.74	1		06/23/08 11:02	106-43-4	
1,2-Dibromo-3-chloropropane	**<5.0**	ug/L	5.0	0.87	1		06/23/08 11:02	96-12-8	
Dibromochloromethane	**<1.0**	ug/L	1.0	0.81	1		06/23/08 11:02	124-48-1	
1,2-Dibromoethane (EDB)	**<1.0**	ug/L	1.0	0.56	1		06/23/08 11:02	106-93-4	
Dibromomethane	**<1.0**	ug/L	1.0	0.60	1		06/23/08 11:02	74-95-3	
1,2-Dichlorobenzene	**<1.0**	ug/L	1.0	0.83	1		06/23/08 11:02	95-50-1	
1,3-Dichlorobenzene	**<1.0**	ug/L	1.0	0.87	1		06/23/08 11:02	541-73-1	
1,4-Dichlorobenzene	**<1.0**	ug/L	1.0	0.95	1		06/23/08 11:02	106-46-7	
Dichlorodifluoromethane	**<1.0**	ug/L	1.0	0.99	1		06/23/08 11:02	75-71-8	
1,1-Dichloroethane	**<1.0**	ug/L	1.0	0.75	1		06/23/08 11:02	75-34-3	
1,2-Dichloroethane	**<1.0**	ug/L	1.0	0.36	1		06/23/08 11:02	107-06-2	
1,1-Dichloroethene	**<1.0**	ug/L	1.0	0.57	1		06/23/08 11:02	75-35-4	
cis-1,2-Dichloroethene	**<1.0**	ug/L	1.0	0.83	1		06/23/08 11:02	156-59-2	
trans-1,2-Dichloroethene	**<1.0**	ug/L	1.0	0.89	1		06/23/08 11:02	156-60-5	
1,2-Dichloropropane	**<1.0**	ug/L	1.0	0.46	1		06/23/08 11:02	78-87-5	
1,3-Dichloropropane	**<1.0**	ug/L	1.0	0.61	1		06/23/08 11:02	142-28-9	
2,2-Dichloropropane	**<1.0**	ug/L	1.0	0.62	1		06/23/08 11:02	594-20-7	
1,1-Dichloropropene	**<1.0**	ug/L	1.0	0.75	1		06/23/08 11:02	563-58-6	
cis-1,3-Dichloropropene	**<1.0**	ug/L	1.0	0.19	1		06/23/08 11:02	10061-01-5	
trans-1,3-Dichloropropene	**<1.0**	ug/L	1.0	0.19	1		06/23/08 11:02	10061-02-6	
Diisopropyl ether	**<1.0**	ug/L	1.0	0.76	1		06/23/08 11:02	108-20-3	
Ethylbenzene	**<1.0**	ug/L	1.0	0.54	1		06/23/08 11:02	100-41-4	
Hexachloro-1,3-butadiene	**<1.0**	ug/L	1.0	0.67	1		06/23/08 11:02	87-68-3	
Isopropylbenzene (Cumene)	**<1.0**	ug/L	1.0	0.59	1		06/23/08 11:02	98-82-8	
p-Isopropyltoluene	**<1.0**	ug/L	1.0	0.67	1		06/23/08 11:02	99-87-6	
Methylene Chloride	**<1.0**	ug/L	1.0	0.43	1		06/23/08 11:02	75-09-2	
Methyl-tert-butyl ether	**<1.0**	ug/L	1.0	0.61	1		06/23/08 11:02	1634-04-4	
Naphthalene	**<5.0**	ug/L	5.0	0.74	1		06/23/08 11:02	91-20-3	
n-Propylbenzene	**<1.0**	ug/L	1.0	0.81	1		06/23/08 11:02	103-65-1	
Styrene	**<1.0**	ug/L	1.0	0.86	1		06/23/08 11:02	100-42-5	
1,1,1,2-Tetrachloroethane	**<1.0**	ug/L	1.0	0.92	1		06/23/08 11:02	630-20-6	

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ANALYTICAL RESULTS

Project: 2541.26 DANA ROSCOE
Pace Project No.: 405322

Sample: TRIP BLANK **Lab ID: 405322023** Collected: 06/17/08 00:00 Received: 06/19/08 08:45 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
1,1,2,2-Tetrachloroethane	**<1.0**	ug/L	1.0	0.20	1		06/23/08 11:02	79-34-5	
Tetrachloroethene	**<1.0**	ug/L	1.0	0.45	1		06/23/08 11:02	127-18-4	
Toluene	**<1.0**	ug/L	1.0	0.67	1		06/23/08 11:02	108-88-3	
1,2,3-Trichlorobenzene	**<1.0**	ug/L	1.0	0.74	1		06/23/08 11:02	87-61-6	
1,2,4-Trichlorobenzene	**<1.0**	ug/L	1.0	0.97	1		06/23/08 11:02	120-82-1	
1,1,1-Trichloroethane	**<1.0**	ug/L	1.0	0.90	1		06/23/08 11:02	71-55-6	
1,1,2-Trichloroethane	**<1.0**	ug/L	1.0	0.42	1		06/23/08 11:02	79-00-5	
Trichloroethene	**<1.0**	ug/L	1.0	0.48	1		06/23/08 11:02	79-01-6	
Trichlorofluoromethane	**<1.0**	ug/L	1.0	0.79	1		06/23/08 11:02	75-69-4	
1,2,3-Trichloropropane	**<1.0**	ug/L	1.0	0.99	1		06/23/08 11:02	96-18-4	
1,2,4-Trimethylbenzene	**<1.0**	ug/L	1.0	0.97	1		06/23/08 11:02	95-63-6	
1,3,5-Trimethylbenzene	**<1.0**	ug/L	1.0	0.83	1		06/23/08 11:02	108-67-8	
Vinyl chloride	**<1.0**	ug/L	1.0	0.18	1		06/23/08 11:02	75-01-4	
m&p-Xylene	**<2.0**	ug/L	2.0	1.8	1		06/23/08 11:02	1330-20-7	
o-Xylene	**<1.0**	ug/L	1.0	0.83	1		06/23/08 11:02	95-47-6	
4-Bromofluorobenzene (S)	94	%	64-132		1		06/23/08 11:02	460-00-4	
Dibromofluoromethane (S)	106	%	68-122		1		06/23/08 11:02	1868-53-7	
Toluene-d8 (S)	103	%	73-127		1		06/23/08 11:02	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 2541.26 DANA ROSCOE
Pace Project No.: 405322

QC Batch: MSV/1979 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV
Associated Lab Samples: 405322004, 405322005, 405322006, 405322007, 405322008, 405322009, 405322010, 405322011, 405322012, 405322013, 405322014, 405322015, 405322016, 405322017, 405322018, 405322019, 405322020, 405322021, 405322022, 405322023

METHOD BLANK: 43007
Associated Lab Samples: 405322004, 405322005, 405322006, 405322007, 405322008, 405322009, 405322010, 405322011, 405322012, 405322013, 405322014, 405322015, 405322016, 405322017, 405322018, 405322019, 405322020, 405322021, 405322022, 405322023

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	<1.0	1.0	
1,1,1-Trichloroethane	ug/L	<1.0	1.0	
1,1,2,2-Tetrachloroethane	ug/L	<1.0	1.0	
1,1,2-Trichloroethane	ug/L	<1.0	1.0	
1,1-Dichloroethane	ug/L	<1.0	1.0	
1,1-Dichloroethene	ug/L	<1.0	1.0	
1,1-Dichloropropene	ug/L	<1.0	1.0	
1,2,3-Trichlorobenzene	ug/L	<1.0	1.0	
1,2,3-Trichloropropane	ug/L	<1.0	1.0	
1,2,4-Trichlorobenzene	ug/L	<1.0	1.0	
1,2,4-Trimethylbenzene	ug/L	<1.0	1.0	
1,2-Dibromo-3-chloropropane	ug/L	<5.0	5.0	
1,2-Dibromoethane (EDB)	ug/L	<1.0	1.0	
1,2-Dichlorobenzene	ug/L	<1.0	1.0	
1,2-Dichloroethane	ug/L	<1.0	1.0	
1,2-Dichloropropane	ug/L	<1.0	1.0	
1,3,5-Trimethylbenzene	ug/L	<1.0	1.0	
1,3-Dichlorobenzene	ug/L	<1.0	1.0	
1,3-Dichloropropane	ug/L	<1.0	1.0	
1,4-Dichlorobenzene	ug/L	<1.0	1.0	
2,2-Dichloropropane	ug/L	<1.0	1.0	
2-Chlorotoluene	ug/L	<1.0	1.0	
4-Chlorotoluene	ug/L	<1.0	1.0	
Benzene	ug/L	<1.0	1.0	
Bromobenzene	ug/L	<1.0	1.0	
Bromochloromethane	ug/L	<1.0	1.0	
Bromodichloromethane	ug/L	<1.0	1.0	
Bromoform	ug/L	<1.0	1.0	
Bromomethane	ug/L	<1.0	1.0	
Carbon tetrachloride	ug/L	<1.0	1.0	
Chlorobenzene	ug/L	<1.0	1.0	
Chloroethane	ug/L	<1.0	1.0	
Chloroform	ug/L	<5.0	5.0	
Chloromethane	ug/L	<1.0	1.0	
cis-1,2-Dichloroethene	ug/L	<1.0	1.0	
cis-1,3-Dichloropropene	ug/L	<1.0	1.0	
Dibromochloromethane	ug/L	<1.0	1.0	
Dibromomethane	ug/L	<1.0	1.0	
Dichlorodifluoromethane	ug/L	<1.0	1.0	

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QUALITY CONTROL DATA

Project: 2541.26 DANA ROSCOE
Pace Project No.: 405322

METHOD BLANK: 43007

Associated Lab Samples: 405322004, 405322005, 405322006, 405322007, 405322008, 405322009, 405322010, 405322011, 405322012, 405322013, 405322014, 405322015, 405322016, 405322017, 405322018, 405322019, 405322020, 405322021, 405322022, 405322023

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
Diisopropyl ether	ug/L	<1.0	1.0	
Ethylbenzene	ug/L	<1.0	1.0	
Hexachloro-1,3-butadiene	ug/L	<1.0	1.0	
Isopropylbenzene (Cumene)	ug/L	<1.0	1.0	
m&p-Xylene	ug/L	<2.0	2.0	
Methyl-tert-butyl ether	ug/L	<1.0	1.0	
Methylene Chloride	ug/L	<1.0	1.0	
n-Butylbenzene	ug/L	<1.0	1.0	
n-Propylbenzene	ug/L	<1.0	1.0	
Naphthalene	ug/L	<5.0	5.0	
o-Xylene	ug/L	<1.0	1.0	
p-Isopropyltoluene	ug/L	<1.0	1.0	
sec-Butylbenzene	ug/L	<1.0	1.0	
Styrene	ug/L	<1.0	1.0	
tert-Butylbenzene	ug/L	<1.0	1.0	
Tetrachloroethene	ug/L	<1.0	1.0	
Toluene	ug/L	<1.0	1.0	
trans-1,2-Dichloroethene	ug/L	<1.0	1.0	
trans-1,3-Dichloropropene	ug/L	<1.0	1.0	
Trichloroethene	ug/L	<1.0	1.0	
Trichlorofluoromethane	ug/L	<1.0	1.0	
Vinyl chloride	ug/L	<1.0	1.0	
4-Bromofluorobenzene (S)	%	93	64-132	
Dibromofluoromethane (S)	%	104	68-122	
Toluene-d8 (S)	%	101	73-127	

LABORATORY CONTROL SAMPLE & LCSD: 43008 43009

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
1,1,1-Trichloroethane	ug/L	50	53.9	56.1	108	112	75-128	4	20	
1,1,2,2-Tetrachloroethane	ug/L	50	47.2	49.1	94	98	67-125	4	20	
1,1,2-Trichloroethane	ug/L	50	52.9	55.3	106	111	75-125	4	20	
1,1-Dichloroethane	ug/L	50	56.6	58.0	113	116	71-130	2	20	
1,1-Dichloroethene	ug/L	50	53.8	55.3	108	111	75-125	3	20	
1,2-Dichloroethane	ug/L	50	54.2	56.2	108	112	71-132	3	20	
1,2-Dichloropropane	ug/L	50	54.9	55.1	110	110	73-125	.4	20	
Benzene	ug/L	50	55.4	57.6	111	115	75-125	4	20	
Bromodichloromethane	ug/L	50	53.9	57.4	108	115	75-125	6	20	
Bromoform	ug/L	50	46.1	47.4	92	95	75-125	3	20	
Bromomethane	ug/L	50	47.6	51.8	95	104	66-125	8	20	
Carbon tetrachloride	ug/L	50	56.2	58.5	112	117	75-125	4	20	
Chlorobenzene	ug/L	50	51.4	53.3	103	107	75-125	4	20	
Chloroethane	ug/L	50	54.4	52.9	109	106	72-126	3	20	
Chloroform	ug/L	50	56.0	56.6	112	113	75-125	1	20	

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QUALITY CONTROL DATA

Project: 2541.26 DANA ROSCOE
Pace Project No.: 405322

LABORATORY CONTROL SAMPLE & LCSD: 43008 43009

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Chloromethane	ug/L	50	46.5	47.2	93	94	46-143	1	20	
cis-1,2-Dichloroethene	ug/L	50	55.5	57.6	111	115	75-125	4	20	
cis-1,3-Dichloropropene	ug/L	50	54.5	57.8	109	116	75-125	6	20	
Dibromochloromethane	ug/L	50	49.6	52.0	99	104	75-125	5	20	
Ethylbenzene	ug/L	50	52.8	53.8	106	108	75-125	2	20	
m&p-Xylene	ug/L	100	104	107	104	107	75-125	3	20	
Methylene Chloride	ug/L	50	54.3	56.0	109	112	75-125	3	20	
o-Xylene	ug/L	50	52.5	53.4	105	107	75-125	2	20	
Styrene	ug/L	50	49.1	50.6	98	101	75-125	3	20	
Tetrachloroethene	ug/L	50	46.1	46.9	92	94	75-130	2	20	
Toluene	ug/L	50	52.9	53.8	106	108	75-125	2	20	
trans-1,2-Dichloroethene	ug/L	50	56.1	56.6	112	113	75-125	.8	20	
trans-1,3-Dichloropropene	ug/L	50	53.7	56.6	107	113	75-125	5	20	
Trichloroethene	ug/L	50	55.4	57.1	111	114	75-125	3	20	
Vinyl chloride	ug/L	50	51.3	52.3	103	105	65-130	2	20	
4-Bromofluorobenzene (S)	%				92	92	64-132			
Dibromofluoromethane (S)	%				103	103	68-122			
Toluene-d8 (S)	%				100	101	73-127			

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 43561 43562

Parameter	Units	405322011 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,1,1-Trichloroethane	ug/L	<1.0	50	50	63.9	56.2	128	112	70-130	13	30	
1,1,2,2-Tetrachloroethane	ug/L	<1.0	50	50	55.0	48.7	110	97	70-130	12	30	
1,1,2-Trichloroethane	ug/L	<1.0	50	50	61.4	54.0	123	108	70-130	13	30	
1,1-Dichloroethane	ug/L	<1.0	50	50	65.0	57.6	130	115	70-130	12	30	
1,1-Dichloroethene	ug/L	<1.0	50	50	62.1	53.3	124	107	70-135	15	30	
1,2-Dichloroethane	ug/L	<1.0	50	50	61.1	54.9	122	110	70-130	11	30	
1,2-Dichloropropane	ug/L	<1.0	50	50	60.7	55.0	121	110	70-130	10	30	
Benzene	ug/L	<1.0	50	50	63.9	55.5	127	110	70-130	14	30	
Bromodichloromethane	ug/L	<1.0	50	50	62.6	56.9	125	114	70-130	9	30	
Bromoform	ug/L	<1.0	50	50	52.8	47.6	106	95	70-130	11	30	
Bromomethane	ug/L	<1.0	50	50	54.5	44.4	109	89	63-147	21	30	
Carbon tetrachloride	ug/L	<1.0	50	50	65.0	58.5	130	117	70-131	10	30	
Chlorobenzene	ug/L	<1.0	50	50	59.8	51.6	120	103	70-130	15	30	
Chloroethane	ug/L	<1.0	50	50	56.3	50.2	113	100	67-138	11	30	
Chloroform	ug/L	<5.0	50	50	62.7	55.7	125	111	70-130	12	30	
Chloromethane	ug/L	<1.0	50	50	45.9	39.4	92	79	43-150	15	30	
cis-1,2-Dichloroethene	ug/L	8.1	50	50	72.4	65.4	129	115	70-130	10	30	
cis-1,3-Dichloropropene	ug/L	<1.0	50	50	65.9	58.0	132	116	70-130	13	30	
Dibromochloromethane	ug/L	<1.0	50	50	58.9	51.4	118	103	70-130	14	30	
Ethylbenzene	ug/L	<1.0	50	50	62.0	53.5	123	106	70-136	15	30	
m&p-Xylene	ug/L	<2.0	100	100	122	105	121	104	70-137	15	30	
Methylene Chloride	ug/L	<1.0	50	50	61.3	54.0	123	108	70-130	13	30	
o-Xylene	ug/L	<1.0	50	50	59.8	52.4	119	104	70-130	13	30	
Styrene	ug/L	<1.0	50	50	56.0	49.5	112	99	70-130	12	30	

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QUALITY CONTROL DATA

Project: 2541.26 DANA ROSCOE
Pace Project No.: 405322

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 43561 43562

Parameter	Units	405322011 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Tetrachloroethene	ug/L	<1.0	50	50	53.7	45.1	107	90	70-130	17	30	
Toluene	ug/L	<1.0	50	50	61.8	54.0	122	106	70-130	13	30	
trans-1,2-Dichloroethene	ug/L	<1.0	50	50	64.1	54.4	128	109	70-130	16	30	
trans-1,3-Dichloropropene	ug/L	<1.0	50	50	64.0	55.3	128	111	70-130	15	30	
Trichloroethene	ug/L	9.2	50	50	71.6	65.9	125	113	70-130	8	30	
Vinyl chloride	ug/L	<1.0	50	50	50.7	45.7	101	91	62-138	10	30	
4-Bromofluorobenzene (S)	%						93	93	64-132			
Dibromofluoromethane (S)	%						101	103	68-122			
Toluene-d8 (S)	%						102	100	73-127			

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QUALITY CONTROL DATA

Project: 2541.26 DANA ROSCOE
Pace Project No.: 405322

QC Batch: MSV/1983 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV
Associated Lab Samples: 405322001, 405322002, 405322003

METHOD BLANK: 43593
Associated Lab Samples: 405322001, 405322002, 405322003

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	<1.0	1.0	
1,1,1-Trichloroethane	ug/L	<1.0	1.0	
1,1,2,2-Tetrachloroethane	ug/L	<1.0	1.0	
1,1,2-Trichloroethane	ug/L	<1.0	1.0	
1,1-Dichloroethane	ug/L	<1.0	1.0	
1,1-Dichloroethene	ug/L	<1.0	1.0	
1,1-Dichloropropene	ug/L	<1.0	1.0	
1,2,3-Trichlorobenzene	ug/L	<1.0	1.0	
1,2,3-Trichloropropane	ug/L	<1.0	1.0	
1,2,4-Trichlorobenzene	ug/L	<1.0	1.0	
1,2,4-Trimethylbenzene	ug/L	<1.0	1.0	
1,2-Dibromo-3-chloropropane	ug/L	<5.0	5.0	
1,2-Dibromoethane (EDB)	ug/L	<1.0	1.0	
1,2-Dichlorobenzene	ug/L	<1.0	1.0	
1,2-Dichloroethane	ug/L	<1.0	1.0	
1,2-Dichloropropane	ug/L	<1.0	1.0	
1,3,5-Trimethylbenzene	ug/L	<1.0	1.0	
1,3-Dichlorobenzene	ug/L	<1.0	1.0	
1,3-Dichloropropane	ug/L	<1.0	1.0	
1,4-Dichlorobenzene	ug/L	<1.0	1.0	
2,2-Dichloropropane	ug/L	<1.0	1.0	
2-Chlorotoluene	ug/L	<1.0	1.0	
4-Chlorotoluene	ug/L	<1.0	1.0	
Benzene	ug/L	<1.0	1.0	
Bromobenzene	ug/L	<1.0	1.0	
Bromochloromethane	ug/L	<1.0	1.0	
Bromodichloromethane	ug/L	<1.0	1.0	
Bromoform	ug/L	<1.0	1.0	
Bromomethane	ug/L	<1.0	1.0	
Carbon tetrachloride	ug/L	<1.0	1.0	
Chlorobenzene	ug/L	<1.0	1.0	
Chloroethane	ug/L	<1.0	1.0	
Chloroform	ug/L	<5.0	5.0	
Chloromethane	ug/L	<1.0	1.0	
cis-1,2-Dichloroethene	ug/L	<1.0	1.0	
cis-1,3-Dichloropropene	ug/L	<1.0	1.0	
Dibromochloromethane	ug/L	<1.0	1.0	
Dibromomethane	ug/L	<1.0	1.0	
Dichlorodifluoromethane	ug/L	<1.0	1.0	
Diisopropyl ether	ug/L	<1.0	1.0	
Ethylbenzene	ug/L	<1.0	1.0	
Hexachloro-1,3-butadiene	ug/L	<1.0	1.0	
Isopropylbenzene (Cumene)	ug/L	<1.0	1.0	

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QUALITY CONTROL DATA

Project: 2541.26 DANA ROSCOE
Pace Project No.: 405322

METHOD BLANK: 43593

Associated Lab Samples: 405322001, 405322002, 405322003

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
m&p-Xylene	ug/L	<2.0	2.0	
Methyl-tert-butyl ether	ug/L	<1.0	1.0	
Methylene Chloride	ug/L	<1.0	1.0	
n-Butylbenzene	ug/L	<1.0	1.0	
n-Propylbenzene	ug/L	<1.0	1.0	
Naphthalene	ug/L	<5.0	5.0	
o-Xylene	ug/L	<1.0	1.0	
p-Isopropyltoluene	ug/L	<1.0	1.0	
sec-Butylbenzene	ug/L	<1.0	1.0	
Styrene	ug/L	<1.0	1.0	
tert-Butylbenzene	ug/L	<1.0	1.0	
Tetrachloroethene	ug/L	<1.0	1.0	
Toluene	ug/L	<1.0	1.0	
trans-1,2-Dichloroethene	ug/L	<1.0	1.0	
trans-1,3-Dichloropropene	ug/L	<1.0	1.0	
Trichloroethene	ug/L	<1.0	1.0	
Trichlorofluoromethane	ug/L	<1.0	1.0	
Vinyl chloride	ug/L	<1.0	1.0	
4-Bromofluorobenzene (S)	%	103	64-132	
Dibromofluoromethane (S)	%	101	68-122	
Toluene-d8 (S)	%	100	73-127	

LABORATORY CONTROL SAMPLE & LCSD: 43594 43595

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
1,1,1-Trichloroethane	ug/L	50	55.0	56.3	110	113	75-128	2	20	
1,1,2,2-Tetrachloroethane	ug/L	50	48.5	47.3	97	95	67-125	2	20	
1,1,2-Trichloroethane	ug/L	50	50.8	50.9	102	102	75-125	.4	20	
1,1-Dichloroethane	ug/L	50	54.8	56.5	110	113	71-130	3	20	
1,1-Dichloroethene	ug/L	50	52.7	55.8	105	112	75-125	6	20	
1,2-Dichloroethane	ug/L	50	54.7	55.3	109	111	71-132	1	20	
1,2-Dichloropropane	ug/L	50	52.3	52.5	105	105	73-125	.3	20	
Benzene	ug/L	50	53.1	54.8	106	110	75-125	3	20	
Bromodichloromethane	ug/L	50	52.9	54.1	106	108	75-125	2	20	
Bromoform	ug/L	50	44.0	45.1	88	90	75-125	3	20	
Bromomethane	ug/L	50	53.8	57.7	108	115	66-125	7	20	
Carbon tetrachloride	ug/L	50	54.7	56.7	109	113	75-125	4	20	
Chlorobenzene	ug/L	50	50.4	50.8	101	102	75-125	.7	20	
Chloroethane	ug/L	50	55.3	56.4	111	113	72-126	2	20	
Chloroform	ug/L	50	52.7	54.0	105	108	75-125	2	20	
Chloromethane	ug/L	50	50.0	51.6	100	103	46-143	3	20	
cis-1,2-Dichloroethene	ug/L	50	52.3	53.1	105	106	75-125	2	20	
cis-1,3-Dichloropropene	ug/L	50	52.8	53.6	106	107	75-125	1	20	
Dibromochloromethane	ug/L	50	48.4	49.4	97	99	75-125	2	20	
Ethylbenzene	ug/L	50	51.2	51.9	102	104	75-125	1	20	

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1241 Bellevue Street
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(920)469-2436

QUALITY CONTROL DATA

Project: 2541.26 DANA ROSCOE
Pace Project No.: 405322

LABORATORY CONTROL SAMPLE & LCSD: 43594 43595

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
m&p-Xylene	ug/L	100	102	103	102	103	75-125	1	20	
Methylene Chloride	ug/L	50	53.0	53.8	106	108	75-125	1	20	
o-Xylene	ug/L	50	50.0	51.0	100	102	75-125	2	20	
Styrene	ug/L	50	48.5	48.5	97	97	75-125	.1	20	
Tetrachloroethene	ug/L	50	51.0	51.4	102	103	75-130	.7	20	
Toluene	ug/L	50	50.6	51.2	101	102	75-125	1	20	
trans-1,2-Dichloroethene	ug/L	50	53.1	54.0	106	108	75-125	2	20	
trans-1,3-Dichloropropene	ug/L	50	51.6	51.8	103	104	75-125	.4	20	
Trichloroethene	ug/L	50	52.8	52.7	106	105	75-125	.2	20	
Vinyl chloride	ug/L	50	54.4	55.7	109	111	65-130	3	20	
4-Bromofluorobenzene (S)	%				103	104	64-132			
Dibromofluoromethane (S)	%				100	102	68-122			
Toluene-d8 (S)	%				99	100	73-127			

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 43710 43711

Parameter	Units	405421001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,1,1-Trichloroethane	ug/L	<0.90	50	50	54.8	54.9	110	110	70-130	.08	30	
1,1,2,2-Tetrachloroethane	ug/L	<0.20	50	50	48.0	48.9	96	98	70-130	2	30	
1,1,2-Trichloroethane	ug/L	<0.42	50	50	50.7	50.1	101	100	70-130	1	30	
1,1-Dichloroethane	ug/L	<0.75	50	50	54.8	54.7	110	109	70-130	.2	30	
1,1-Dichloroethene	ug/L	<0.57	50	50	53.0	53.3	106	107	70-135	.5	30	
1,2-Dichloroethane	ug/L	<0.36	50	50	54.2	55.1	108	110	70-130	2	30	
1,2-Dichloropropane	ug/L	<0.46	50	50	51.6	52.2	103	104	70-130	1	30	
Benzene	ug/L	<0.41	50	50	52.8	53.2	106	106	70-130	.7	30	
Bromodichloromethane	ug/L	<0.56	50	50	53.6	52.2	107	104	70-130	3	30	
Bromoform	ug/L	<0.94	50	50	44.4	44.6	89	89	70-130	.5	30	
Bromomethane	ug/L	<0.91	50	50	57.3	58.3	115	117	63-147	2	30	
Carbon tetrachloride	ug/L	<0.49	50	50	54.6	54.5	109	109	70-131	.1	30	
Chlorobenzene	ug/L	<0.41	50	50	50.4	50.0	101	100	70-130	.7	30	
Chloroethane	ug/L	<0.97	50	50	55.4	54.6	111	109	67-138	1	30	
Chloroform	ug/L	<0.37	50	50	52.4	52.8	105	106	70-130	.7	30	
Chloromethane	ug/L	<0.24	50	50	50.3	49.4	101	99	43-150	2	30	
cis-1,2-Dichloroethene	ug/L	<0.83	50	50	51.3	51.4	103	103	70-130	.2	30	
cis-1,3-Dichloropropene	ug/L	<0.19	50	50	53.4	52.8	107	106	70-130	1	30	
Dibromochloromethane	ug/L	<0.81	50	50	49.6	49.1	99	98	70-130	1	30	
Ethylbenzene	ug/L	<0.54	50	50	51.3	50.4	102	100	70-136	2	30	
m&p-Xylene	ug/L	<1.8	100	100	102	100	102	100	70-137	2	30	
Methylene Chloride	ug/L	<0.43	50	50	52.8	53.2	106	106	70-130	.7	30	
o-Xylene	ug/L	<0.83	50	50	49.6	49.5	99	99	70-130	.1	30	
Styrene	ug/L	<0.86	50	50	47.3	47.2	95	94	70-130	.007	30	
Tetrachloroethene	ug/L	<0.45	50	50	50.3	50.3	101	101	70-130	.1	30	
Toluene	ug/L	<0.67	50	50	50.5	50.2	101	100	70-130	.5	30	
trans-1,2-Dichloroethene	ug/L	<0.89	50	50	52.5	53.3	105	107	70-130	2	30	
trans-1,3-Dichloropropene	ug/L	<0.19	50	50	50.6	51.0	101	102	70-130	.6	30	
Trichloroethene	ug/L	<0.48	50	50	53.3	52.0	107	104	70-130	2	30	

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(920)469-2436

QUALITY CONTROL DATA

Project: 2541.26 DANA ROSCOE
Pace Project No.: 405322

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 43710 43711

Parameter	Units	405421001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Vinyl chloride	ug/L	<0.18	50	50	54.8	54.4	110	109	62-138	.7	30	
4-Bromofluorobenzene (S)	%						104	103	64-132			
Dibromofluoromethane (S)	%						101	101	68-122			
Toluene-d8 (S)	%						100	99	73-127			

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(920)469-2436

QUALIFIERS

Project: 2541.26 DANA ROSCOE
Pace Project No.: 405322

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

Pace Analytical is NELAP accredited. Contact your Pace PM for the current list of accredited analytes.

LABORATORIES

PASI-G Pace Analytical Services - Green Bay

ANALYTE QUALIFIERS

pH Post-analysis pH measurement indicates insufficient VOA sample preservation.

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(920)469-2436

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 2541.26 DANA ROSCOE
Pace Project No.: 405322

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
405322004	RB-01	EPA 8260	MSV/1979		
405322005	HEMW-1	EPA 8260	MSV/1979		
405322006	DUP-01	EPA 8260	MSV/1979		
405322007	CC-07-90	EPA 8260	MSV/1979		
405322008	CC-07-70	EPA 8260	MSV/1979		
405322009	CC-07-60	EPA 8260	MSV/1979		
405322010	CC-07-50	EPA 8260	MSV/1979		
405322011	CC-07-35	EPA 8260	MSV/1979		
405322012	CC-08-90	EPA 8260	MSV/1979		
405322013	CC-08-70	EPA 8260	MSV/1979		
405322014	CC-08-60	EPA 8260	MSV/1979		
405322015	CC-08-50	EPA 8260	MSV/1979		
405322016	CC-08-35	EPA 8260	MSV/1979		
405322017	BB-07-90	EPA 8260	MSV/1979		
405322018	BB-07-70	EPA 8260	MSV/1979		
405322019	BB-07-60	EPA 8260	MSV/1979		
405322020	BB-07-50	EPA 8260	MSV/1979		
405322021	BB-07-40	EPA 8260	MSV/1979		
405322022	DUP-02	EPA 8260	MSV/1979		
405322023	TRIP BLANK	EPA 8260	MSV/1979		
405322001	HEMW-4	EPA 8260	MSV/1983		
405322002	HEMW-3	EPA 8260	MSV/1983		
405322003	HEMW-2	EPA 8260	MSV/1983		

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Sample Condition Upon Receipt

Pace Analytical

Client Name: MMT Project # 405322

Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☐ Client ☑ Commercial ☐ Pace Other _____

Tracking #: _____

Optional
Proj. Due Date:
Proj. Name:

Custody Seal on Cooler/Box Present: ☐ yes ☒ no Seals intact: ☐ yes ☐ no

Packing Material: ☐ Bubble Wrap ☑ Bubble Bags ☐ None ☐ Other _____

Thermometer Used JB **Type of Ice:** Wet Blue None ☐ Samples on ice, cooling process has begun

Cooler Temperature 2°C **Biological Tissue is Frozen:** Yes No

Temp should be above freezing to 6°C

Date and Initials of person examining contents: LL 6/19/08

				Comments:
Chain of Custody Present:	☑Yes	☐No	☐N/A	1.
Chain of Custody Filled Out:	☑Yes	☐No	☐N/A	2.
Chain of Custody Relinquished:	☑Yes	☐No	☐N/A	3.
Sampler Name & Signature on COC:	☑Yes	☐No	☐N/A	4.
Samples Arrived within Hold Time:	☑Yes	☐No	☐N/A	5.
Short Hold Time Analysis (<72hr):	☐Yes	☑No	☐N/A	6.
Rush Turn Around Time Requested:	☐Yes	☑No	☐N/A	7.
Sufficient Volume:	☑Yes	☐No	☐N/A	8.
Correct Containers Used:	☑Yes	☐No	☐N/A	9.
-Pace Containers Used:	☑Yes	☐No	☐N/A	
Containers Intact:	☑Yes	☐No	☐N/A	10.
Filtered volume received for Dissolved tests	☐Yes	☐No	☑N/A	11.
Sample Labels match COC:	☑Yes	☐No	☐N/A	12.
-Includes date/time/ID/Analysis Matrix: W				
All containers needing preservation have been checked.	☐Yes	☐No	☑N/A	13.
All containers needing preservation are found to be in compliance with EPA recommendation.	☐Yes	☐No	☑N/A	
exceptions: VOA, coliform, TOC, O&G, WI-DRO (water)	☐Yes	☐No		Initial when completed / Lot # of added preservative
Samples checked for dechlorination:	☐Yes	☐No	☑N/A	14.
Headspace in VOA Vials (>6mm):	☐Yes	☑No	☐N/A	15.
Trip Blank Present:	☑Yes	☐No	☐N/A	16.
Trip Blank Custody Seals Present	☑Yes	☐No	☐N/A	
Pace Trip Blank Lot # (if purchased): _____				

Client Notification/ Resolution: Field Data Required? Y / N

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: MLL **Date:** 6/19/08

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e out of hold, incorrect preservative, out of temp, incorrect containers)

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UPPER MIDWEST REGION
MN: 612-607-1700 WI: 920-469-2436

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CHAIN OF CUSTODY

*Preservation Codes
A=None B=HCL C=H2SO4 D=HNO3 E=DI Water F=Methanol G=NaOH
H=Sodium Bisulfate Solution I=Sodium Thiosulfate J=Other

(Please Print Clearly)

Company Name:	RMT
Branch/Location:	Madison
Project Contact:	Jim Buss / Lance Bakken
Phone:	(608) 831-4444
Project Number:	2541.26
Project Name:	Dana Roscoe
Project State:	IL
Sampled By (Print):	Lance Bakken
Sampled By (Sign):	[signature]
PO #:	Regulatory Program:

Quote #:	
Mail To Contact:	Jim Buss
Mail To Company:	RMT
Mail To Address:	Madison
Invoice To Contact:	Same
Invoice To Company:	
Invoice To Address:	
Invoice To Phone:	

Data Package Options (billable)
- ☐ EPA Level III
- ☐ EPA Level IV

MS/MSD
- ☐ On your sample (billable)
- ☐ NOT needed on your sample

Matrix Codes
A = Air, B = Biota, C = Charcoal, O = Oil, S = Soil, SI = Sludge, W = Water, DW = Drinking Water, GW = Ground Water, SW = Surface Water, WW = Waste Water, WP = Wipe

FILTERED? (YES/NO) Y/N: N
PRESERVATION (CODE)* Pick Letter: B

Analyses Requested: 8260 — See List from 6/4/08 (Samples)

PACE LAB #	CLIENT FIELD ID	COLLECTION DATE	COLLECTION TIME	MATRIX	8260	CLIENT COMMENTS	LAB COMMENTS (Lab Use Only)	Profile #
001	HEMW-4	6/16/08	1210	GW	X		3-40ml	
002	HEMW-3	6/16	1310	GW	X			
003	HEMW-2	6/16	~~1320~~ 1420	GW	X			
004	RB-01	6/16	1330	GW	X			
005	HEMW-1	6/16	1520	GW	X			
006	DUP-01	6/16		GW	X			
007	CC-07-90	6/17	930	GW	X			
008	CC-07-70		940		X			
009	CC-07-60		950		X			
010	CC-07-50		955		X			
011	CC-07-35		1010		X			
012	CC-08-90		1100		X			
013	CC-08-70		1110		X			

Rush Turnaround Time Requested - Prelims
(Rush TAT subject to approval/surcharge)
Date Needed:

Transmit Prelim Rush Results by (complete what you want):
Email #1:
Email #2:
Telephone:
Fax:

Samples on HOLD are subject to special pricing and release of liability

Relinquished By:	Date/Time:	Received By:	Date/Time:
[signature]	6/18/08 800	[signature]	6/18/08 0850
[signature]	6/18/08 1443	Walter	
Walter	6/19/08 8:45	[signature]	6/19/08 8:45

PACE Project No. 105322
Receipt Temp = 2 °C °C
Sample Receipt pH OK / Adjusted
Cooler Custody Seal Present / Not Present
Intact / Not Intact

UPPER MIDWEST REGION
MN: 612-607-1700 WI: 920-469-2436

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CHAIN OF CUSTODY

*Preservation Codes
A=None B=HCL C=H2SO4 D=HNO3 E=DI Water F=Methanol G=NaOH
H=Sodium Bisulfate Solution I=Sodium Thiosulfate J=Other

(Please Print Clearly)

Company Name:	RMT
Branch/Location:	Madison
Project Contact:	Jim Buss / Lance Bakken
Phone:	608-831-4444
Project Number:	2541.27
Project Name:	Dana Roscoe
Project State:	IL
Sampled By (Print):	Lance Bakken
Sampled By (Sign):	Lan Bak
PO #:	Regulatory Program:

Quote #:	
Mail To Contact:	Jim Buss
Mail To Company:	RMT
Mail To Address:	Madison
Invoice To Contact:	Same
Invoice To Company:	
Invoice To Address:	
Invoice To Phone:	

Data Package Options (billable)
- ☐ EPA Level III
- ☐ EPA Level IV

MS/MSD
- ☐ On your sample (billable)
- ☐ NOT needed on your sample

Matrix Codes
A = Air, B = Biota, C = Charcoal, O = Oil, S = Soil, SI = Sludge, W = Water, DW = Drinking Water, GW = Ground Water, SW = Surface Water, WW = Waste Water, WP = Wipe

FILTERED? (YES/NO) — PRESERVATION (CODE)*

Analyses Requested: See Attached List from 6/4/08

PACE LAB #	CLIENT FIELD ID	COLLECTION DATE	COLLECTION TIME	MATRIX	Y/N: N	Pick Letter: B	8260	CLIENT COMMENTS	LAB COMMENTS (Lab Use Only)	Profile #
014	CC-08-60	6/17/08	1120	GW	X				3-40ml	
015	CC-08-50		1130		X					
016	CC-08-35		1135		X					
017	BB-07-90		1240		X					
018	BB-07-70		1250		X					
019	BB-07-60		1255		X					
020	BB-07-50		1310		X					
021	BB-07-40		1320		X					
022	DUP-02				X					
023	TripBlank						X		2-40ml	

Rush Turnaround Time Requested - Prelims
(Rush TAT subject to approval/surcharge)
Date Needed:

Transmit Prelim Rush Results by (complete what you want):
Email #1:
Email #2:
Telephone:
Fax:

Samples on HOLD are subject to special pricing and release of liability

Relinquished By:	Date/Time:	Received By:	Date/Time:
Lan Bak	6/18/08 800	D. Fawcett	6/18/08 0850
D. Fawcett	6/18/08 1445	Walto	6/19/08
Walto	6/19/08 8:45	D. Lucas	6/19/08 8:4

PACE Project No. 405322
Receipt Temp = 2 °C °C
Sample Receipt pH OK / Adjusted
Cooler Custody Seal Present / Not Present
Intact / Not Intact

Pace Analytical Services, Inc.
1241 Bellevue Street
Green Bay, WI 54302
(920)469-2436

August 04, 2008

JIM BUSS
RMT MADISON
744 HEARTLAND TRAIL
Madison, WI 537171934

RE: Project: 2541.27 DANA ROSCOE
Pace Project No.: 407077

Dear JIM BUSS:
Enclosed are the analytical results for sample(s) received by the laboratory on July 30, 2008. The results relate only to the samples included in this report. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Alison for Tod N.

Tod Noltemeyer

tod.noltemeyer@pacelabs.com
Project Manager

Enclosures

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CERTIFICATIONS

Project: 2541.27 DANA ROSCOE
Pace Project No.: 407077

Green Bay Certification IDs

Florida (NELAP) Certification #: E87948
Illinois Certification #: 200050
New York Certification #: 11888
North Dakota Certification #: R-150
North Carolina Certification #: 503
Minnesota Certification #: 055-999-334
South Carolina Certification #: 83006001
Wisconsin Certification #: 405132750
Wisconsin DATCP Certification #: 105-444
Kentucky Certification #: 82
Louisiana Certification #: 04168

Green Bay Volatiles Certification IDs

Florida (NELAP) Certification #: E87951
Illinois Certification #: 200051
New York Certification #: 11887
North Dakota Certification #: R-200
North Carolina Certification #: 503
Minnesota Certification #: 055-999-334
South Carolina Certification #: 83006001
Wisconsin Certification #: 405132750
Wisconsin DATCP Certification #: 105-444
Kentucky Certification #: 83
Louisiana Certification #: 04169

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SAMPLE SUMMARY

Project: 2541.27 DANA ROSCOE
Pace Project No.: 407077

Lab ID	Sample ID	Matrix	Date Collected	Date Received
407077001	DUP-1	Water	07/29/08 00:00	07/30/08 15:00
407077002	CC-09-100	Water	07/29/08 08:00	07/30/08 15:00
407077003	CC-09-80	Water	07/29/08 09:00	07/30/08 15:00
407077004	CC-09-60	Water	07/29/08 09:30	07/30/08 15:00
407077005	CC-09-40	Water	07/29/08 10:00	07/30/08 15:00
407077006	RB-02	Water	07/29/08 10:30	07/30/08 15:00
407077007	CC-10-100	Water	07/29/08 11:00	07/30/08 15:00
407077008	CC-10-80	Water	07/29/08 11:30	07/30/08 15:00
407077009	CC-10-60	Water	07/29/08 12:00	07/30/08 15:00
407077010	CC-10-40	Water	07/29/08 12:30	07/30/08 15:00
407077011	BB-04-110	Water	07/29/08 13:30	07/30/08 15:00
407077012	BB-04-90	Water	07/29/08 14:00	07/30/08 15:00
407077013	BB-04-80	Water	07/29/08 14:30	07/30/08 15:00
407077014	DUP-2	Water	07/29/08 00:00	07/30/08 15:00
407077015	BB-05-110	Water	07/29/08 15:30	07/30/08 15:00
407077016	BB-05-90	Water	07/29/08 16:00	07/30/08 15:00
407077017	BB-05-80	Water	07/29/08 16:30	07/30/08 15:00
407077018	TRIP BLANK	Water	07/29/08 00:00	07/30/08 15:00
407077019	RB-SOURCE	Water	07/29/08 18:00	07/30/08 15:00

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SAMPLE ANALYTE COUNT

Project: 2541.27 DANA ROSCOE
Pace Project No.: 407077

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
407077001	DUP-1	EPA 8260	SMT	14	PASI-G
407077002	CC-09-100	EPA 8260	SMT	14	PASI-G
407077003	CC-09-80	EPA 8260	SMT	14	PASI-G
407077004	CC-09-60	EPA 8260	SMT	14	PASI-G
407077005	CC-09-40	EPA 8260	SMT	14	PASI-G
407077006	RB-02	EPA 8260	SMT	14	PASI-G
407077007	CC-10-100	EPA 8260	SMT	14	PASI-G
407077008	CC-10-80	EPA 8260	SMT	14	PASI-G
407077009	CC-10-60	EPA 8260	SMT	14	PASI-G
407077010	CC-10-40	EPA 8260	SMT	14	PASI-G
407077011	BB-04-110	EPA 8260	SMT	14	PASI-G
407077012	BB-04-90	EPA 8260	SMT	14	PASI-G
407077013	BB-04-80	EPA 8260	SMT	14	PASI-G
407077014	DUP-2	EPA 8260	SMT	14	PASI-G
407077015	BB-05-110	EPA 8260	SMT	14	PASI-G
407077016	BB-05-90	EPA 8260	SMT	14	PASI-G
407077017	BB-05-80	EPA 8260	SMT	14	PASI-G
407077018	TRIP BLANK	EPA 8260	SMT	14	PASI-G
407077019	RB-SOURCE	EPA 8260	SMT	14	PASI-G

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PROJECT NARRATIVE

Project: 2541.27 DANA ROSCOE
Pace Project No.: 407077

Method: EPA 8260
Description: 8260 MSV
Client: RMT MADISON
Date: August 04, 2008

General Information:
19 samples were analyzed for EPA 8260. All samples were received in acceptable condition with any exceptions noted below.

pH: Post-analysis pH measurement indicates insufficient VOA sample preservation.
- BB-04-90 (Lab ID: 407077012)
- BB-05-110 (Lab ID: 407077015)
- CC-10-100 (Lab ID: 407077007)
- DUP-1 (Lab ID: 407077001)

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Internal Standards:
All internal standards were within QC limits with any exceptions noted below.

Surrogates:
All surrogates were within QC limits with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.

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ANALYTICAL RESULTS

Project: 2541.27 DANA ROSCOE
Pace Project No.: 407077

Sample: DUP-1 **Lab ID: 407077001** Collected: 07/29/08 00:00 Received: 07/30/08 15:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
1,1,1-Trichloroethane	**<1.0**	ug/L	1.0	0.90	1		08/01/08 14:41	71-55-6	
1,1-Dichloroethane	**<1.0**	ug/L	1.0	0.75	1		08/01/08 14:41	75-34-3	
1,4-Dichlorobenzene	**<1.0**	ug/L	1.0	0.95	1		08/01/08 14:41	106-46-7	
Dichlorodifluoromethane	**<1.0**	ug/L	1.0	0.99	1		08/01/08 14:41	75-71-8	
Methylene Chloride	**<1.0**	ug/L	1.0	0.43	1		08/01/08 14:41	75-09-2	
Tetrachloroethene	**<1.0**	ug/L	1.0	0.45	1		08/01/08 14:41	127-18-4	
Toluene	**<1.0**	ug/L	1.0	0.67	1		08/01/08 14:41	108-88-3	
Trichloroethene	**4.6**	ug/L	1.0	0.48	1		08/01/08 14:41	79-01-6	
Vinyl chloride	**<1.0**	ug/L	1.0	0.18	1		08/01/08 14:41	75-01-4	
cis-1,2-Dichloroethene	**3.9**	ug/L	1.0	0.83	1		08/01/08 14:41	156-59-2	
trans-1,2-Dichloroethene	**<1.0**	ug/L	1.0	0.89	1		08/01/08 14:41	156-60-5	
4-Bromofluorobenzene (S)	83	%	64-132		1		08/01/08 14:41	460-00-4	
Dibromofluoromethane (S)	90	%	68-122		1		08/01/08 14:41	1868-53-7	pH
Toluene-d8 (S)	91	%	73-127		1		08/01/08 14:41	2037-26-5	

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ANALYTICAL RESULTS

Project: 2541.27 DANA ROSCOE
Pace Project No.: 407077

Sample: CC-09-100 **Lab ID: 407077002** Collected: 07/29/08 08:00 Received: 07/30/08 15:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
1,1,1-Trichloroethane	**<1.0**	ug/L	1.0	0.90	1		08/01/08 15:04	71-55-6	
1,1-Dichloroethane	**<1.0**	ug/L	1.0	0.75	1		08/01/08 15:04	75-34-3	
1,4-Dichlorobenzene	**<1.0**	ug/L	1.0	0.95	1		08/01/08 15:04	106-46-7	
Dichlorodifluoromethane	**<1.0**	ug/L	1.0	0.99	1		08/01/08 15:04	75-71-8	
Methylene Chloride	**<1.0**	ug/L	1.0	0.43	1		08/01/08 15:04	75-09-2	
Tetrachloroethene	**<1.0**	ug/L	1.0	0.45	1		08/01/08 15:04	127-18-4	
Toluene	**<1.0**	ug/L	1.0	0.67	1		08/01/08 15:04	108-88-3	
Trichloroethene	**1.4**	ug/L	1.0	0.48	1		08/01/08 15:04	79-01-6	
Vinyl chloride	**<1.0**	ug/L	1.0	0.18	1		08/01/08 15:04	75-01-4	
cis-1,2-Dichloroethene	**1.0**	ug/L	1.0	0.83	1		08/01/08 15:04	156-59-2	
trans-1,2-Dichloroethene	**<1.0**	ug/L	1.0	0.89	1		08/01/08 15:04	156-60-5	
4-Bromofluorobenzene (S)	83	%	64-132		1		08/01/08 15:04	460-00-4	
Dibromofluoromethane (S)	93	%	68-122		1		08/01/08 15:04	1868-53-7	
Toluene-d8 (S)	88	%	73-127		1		08/01/08 15:04	2037-26-5	

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ANALYTICAL RESULTS

Project: 2541.27 DANA ROSCOE
Pace Project No.: 407077

Sample: CC-09-80 **Lab ID: 407077003** Collected: 07/29/08 09:00 Received: 07/30/08 15:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
1,1,1-Trichloroethane	**<1.0**	ug/L	1.0	0.90	1		08/01/08 15:28	71-55-6	
1,1-Dichloroethane	**<1.0**	ug/L	1.0	0.75	1		08/01/08 15:28	75-34-3	
1,4-Dichlorobenzene	**<1.0**	ug/L	1.0	0.95	1		08/01/08 15:28	106-46-7	
Dichlorodifluoromethane	**<1.0**	ug/L	1.0	0.99	1		08/01/08 15:28	75-71-8	
Methylene Chloride	**<1.0**	ug/L	1.0	0.43	1		08/01/08 15:28	75-09-2	
Tetrachloroethene	**<1.0**	ug/L	1.0	0.45	1		08/01/08 15:28	127-18-4	
Toluene	**<1.0**	ug/L	1.0	0.67	1		08/01/08 15:28	108-88-3	
Trichloroethene	**4.2**	ug/L	1.0	0.48	1		08/01/08 15:28	79-01-6	
Vinyl chloride	**<1.0**	ug/L	1.0	0.18	1		08/01/08 15:28	75-01-4	
cis-1,2-Dichloroethene	**3.9**	ug/L	1.0	0.83	1		08/01/08 15:28	156-59-2	
trans-1,2-Dichloroethene	**<1.0**	ug/L	1.0	0.89	1		08/01/08 15:28	156-60-5	
4-Bromofluorobenzene (S)	82	%	64-132		1		08/01/08 15:28	460-00-4	
Dibromofluoromethane (S)	95	%	68-122		1		08/01/08 15:28	1868-53-7	
Toluene-d8 (S)	89	%	73-127		1		08/01/08 15:28	2037-26-5	

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ANALYTICAL RESULTS

Project: 2541.27 DANA ROSCOE
Pace Project No.: 407077

Sample: CC-09-60 **Lab ID: 407077004** Collected: 07/29/08 09:30 Received: 07/30/08 15:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
1,1,1-Trichloroethane	**<1.0**	ug/L	1.0	0.90	1		08/01/08 15:51	71-55-6	
1,1-Dichloroethane	**<1.0**	ug/L	1.0	0.75	1		08/01/08 15:51	75-34-3	
1,4-Dichlorobenzene	**<1.0**	ug/L	1.0	0.95	1		08/01/08 15:51	106-46-7	
Dichlorodifluoromethane	**<1.0**	ug/L	1.0	0.99	1		08/01/08 15:51	75-71-8	
Methylene Chloride	**<1.0**	ug/L	1.0	0.43	1		08/01/08 15:51	75-09-2	
Tetrachloroethene	**<1.0**	ug/L	1.0	0.45	1		08/01/08 15:51	127-18-4	
Toluene	**<1.0**	ug/L	1.0	0.67	1		08/01/08 15:51	108-88-3	
Trichloroethene	**2.3**	ug/L	1.0	0.48	1		08/01/08 15:51	79-01-6	
Vinyl chloride	**<1.0**	ug/L	1.0	0.18	1		08/01/08 15:51	75-01-4	
cis-1,2-Dichloroethene	**1.9**	ug/L	1.0	0.83	1		08/01/08 15:51	156-59-2	
trans-1,2-Dichloroethene	**<1.0**	ug/L	1.0	0.89	1		08/01/08 15:51	156-60-5	
4-Bromofluorobenzene (S)	84	%	64-132		1		08/01/08 15:51	460-00-4	
Dibromofluoromethane (S)	94	%	68-122		1		08/01/08 15:51	1868-53-7	
Toluene-d8 (S)	83	%	73-127		1		08/01/08 15:51	2037-26-5	

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ANALYTICAL RESULTS

Project: 2541.27 DANA ROSCOE
Pace Project No.: 407077

Sample: CC-09-40 **Lab ID: 407077005** Collected: 07/29/08 10:00 Received: 07/30/08 15:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
1,1,1-Trichloroethane	**<1.0**	ug/L	1.0	0.90	1		08/01/08 13:07	71-55-6	
1,1-Dichloroethane	**<1.0**	ug/L	1.0	0.75	1		08/01/08 13:07	75-34-3	
1,4-Dichlorobenzene	**<1.0**	ug/L	1.0	0.95	1		08/01/08 13:07	106-46-7	
Dichlorodifluoromethane	**<1.0**	ug/L	1.0	0.99	1		08/01/08 13:07	75-71-8	
Methylene Chloride	**<1.0**	ug/L	1.0	0.43	1		08/01/08 13:07	75-09-2	
Tetrachloroethene	**<1.0**	ug/L	1.0	0.45	1		08/01/08 13:07	127-18-4	
Toluene	**<1.0**	ug/L	1.0	0.67	1		08/01/08 13:07	108-88-3	
Trichloroethene	**<1.0**	ug/L	1.0	0.48	1		08/01/08 13:07	79-01-6	
Vinyl chloride	**<1.0**	ug/L	1.0	0.18	1		08/01/08 13:07	75-01-4	
cis-1,2-Dichloroethene	**<1.0**	ug/L	1.0	0.83	1		08/01/08 13:07	156-59-2	
trans-1,2-Dichloroethene	**<1.0**	ug/L	1.0	0.89	1		08/01/08 13:07	156-60-5	
4-Bromofluorobenzene (S)	87	%	64-132		1		08/01/08 13:07	460-00-4	
Dibromofluoromethane (S)	91	%	68-122		1		08/01/08 13:07	1868-53-7	
Toluene-d8 (S)	82	%	73-127		1		08/01/08 13:07	2037-26-5	

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ANALYTICAL RESULTS

Project: 2541.27 DANA ROSCOE
Pace Project No.: 407077

Sample: RB-02 **Lab ID: 407077006** Collected: 07/29/08 10:30 Received: 07/30/08 15:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
1,1,1-Trichloroethane	**<1.0**	ug/L	1.0	0.90	1		08/01/08 13:54	71-55-6	
1,1-Dichloroethane	**<1.0**	ug/L	1.0	0.75	1		08/01/08 13:54	75-34-3	
1,4-Dichlorobenzene	**<1.0**	ug/L	1.0	0.95	1		08/01/08 13:54	106-46-7	
Dichlorodifluoromethane	**<1.0**	ug/L	1.0	0.99	1		08/01/08 13:54	75-71-8	
Methylene Chloride	**<1.0**	ug/L	1.0	0.43	1		08/01/08 13:54	75-09-2	
Tetrachloroethene	**<1.0**	ug/L	1.0	0.45	1		08/01/08 13:54	127-18-4	
Toluene	**<1.0**	ug/L	1.0	0.67	1		08/01/08 13:54	108-88-3	
Trichloroethene	**<1.0**	ug/L	1.0	0.48	1		08/01/08 13:54	79-01-6	
Vinyl chloride	**<1.0**	ug/L	1.0	0.18	1		08/01/08 13:54	75-01-4	
cis-1,2-Dichloroethene	**<1.0**	ug/L	1.0	0.83	1		08/01/08 13:54	156-59-2	
trans-1,2-Dichloroethene	**<1.0**	ug/L	1.0	0.89	1		08/01/08 13:54	156-60-5	
4-Bromofluorobenzene (S)	83	%	64-132		1		08/01/08 13:54	460-00-4	
Dibromofluoromethane (S)	90	%	68-122		1		08/01/08 13:54	1868-53-7	
Toluene-d8 (S)	90	%	73-127		1		08/01/08 13:54	2037-26-5	

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ANALYTICAL RESULTS

Project: 2541.27 DANA ROSCOE
Pace Project No.: 407077

Sample: CC-10-100 **Lab ID: 407077007** Collected: 07/29/08 11:00 Received: 07/30/08 15:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
1,1,1-Trichloroethane	**<1.0**	ug/L	1.0	0.90	1		08/01/08 16:15	71-55-6	
1,1-Dichloroethane	**<1.0**	ug/L	1.0	0.75	1		08/01/08 16:15	75-34-3	
1,4-Dichlorobenzene	**<1.0**	ug/L	1.0	0.95	1		08/01/08 16:15	106-46-7	
Dichlorodifluoromethane	**<1.0**	ug/L	1.0	0.99	1		08/01/08 16:15	75-71-8	
Methylene Chloride	**<1.0**	ug/L	1.0	0.43	1		08/01/08 16:15	75-09-2	
Tetrachloroethene	**<1.0**	ug/L	1.0	0.45	1		08/01/08 16:15	127-18-4	
Toluene	**<1.0**	ug/L	1.0	0.67	1		08/01/08 16:15	108-88-3	
Trichloroethene	**<1.0**	ug/L	1.0	0.48	1		08/01/08 16:15	79-01-6	
Vinyl chloride	**<1.0**	ug/L	1.0	0.18	1		08/01/08 16:15	75-01-4	
cis-1,2-Dichloroethene	**<1.0**	ug/L	1.0	0.83	1		08/01/08 16:15	156-59-2	
trans-1,2-Dichloroethene	**<1.0**	ug/L	1.0	0.89	1		08/01/08 16:15	156-60-5	
4-Bromofluorobenzene (S)	86	%	64-132		1		08/01/08 16:15	460-00-4	
Dibromofluoromethane (S)	97	%	68-122		1		08/01/08 16:15	1868-53-7	pH
Toluene-d8 (S)	87	%	73-127		1		08/01/08 16:15	2037-26-5	

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ANALYTICAL RESULTS

Project: 2541.27 DANA ROSCOE
Pace Project No.: 407077

Sample: CC-10-80 **Lab ID: 407077008** Collected: 07/29/08 11:30 Received: 07/30/08 15:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
1,1,1-Trichloroethane	**<1.0**	ug/L	1.0	0.90	1		08/01/08 16:38	71-55-6	
1,1-Dichloroethane	**<1.0**	ug/L	1.0	0.75	1		08/01/08 16:38	75-34-3	
1,4-Dichlorobenzene	**<1.0**	ug/L	1.0	0.95	1		08/01/08 16:38	106-46-7	
Dichlorodifluoromethane	**<1.0**	ug/L	1.0	0.99	1		08/01/08 16:38	75-71-8	
Methylene Chloride	**<1.0**	ug/L	1.0	0.43	1		08/01/08 16:38	75-09-2	
Tetrachloroethene	**<1.0**	ug/L	1.0	0.45	1		08/01/08 16:38	127-18-4	
Toluene	**<1.0**	ug/L	1.0	0.67	1		08/01/08 16:38	108-88-3	
Trichloroethene	**<1.0**	ug/L	1.0	0.48	1		08/01/08 16:38	79-01-6	
Vinyl chloride	**<1.0**	ug/L	1.0	0.18	1		08/01/08 16:38	75-01-4	
cis-1,2-Dichloroethene	**<1.0**	ug/L	1.0	0.83	1		08/01/08 16:38	156-59-2	
trans-1,2-Dichloroethene	**<1.0**	ug/L	1.0	0.89	1		08/01/08 16:38	156-60-5	
4-Bromofluorobenzene (S)	84	%	64-132		1		08/01/08 16:38	460-00-4	
Dibromofluoromethane (S)	98	%	68-122		1		08/01/08 16:38	1868-53-7	
Toluene-d8 (S)	90	%	73-127		1		08/01/08 16:38	2037-26-5	

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ANALYTICAL RESULTS

Project: 2541.27 DANA ROSCOE
Pace Project No.: 407077

Sample: CC-10-60 **Lab ID: 407077009** Collected: 07/29/08 12:00 Received: 07/30/08 15:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
1,1,1-Trichloroethane	**<1.0**	ug/L	1.0	0.90	1		08/01/08 17:01	71-55-6	
1,1-Dichloroethane	**<1.0**	ug/L	1.0	0.75	1		08/01/08 17:01	75-34-3	
1,4-Dichlorobenzene	**<1.0**	ug/L	1.0	0.95	1		08/01/08 17:01	106-46-7	
Dichlorodifluoromethane	**<1.0**	ug/L	1.0	0.99	1		08/01/08 17:01	75-71-8	
Methylene Chloride	**<1.0**	ug/L	1.0	0.43	1		08/01/08 17:01	75-09-2	
Tetrachloroethene	**<1.0**	ug/L	1.0	0.45	1		08/01/08 17:01	127-18-4	
Toluene	**<1.0**	ug/L	1.0	0.67	1		08/01/08 17:01	108-88-3	
Trichloroethene	**<1.0**	ug/L	1.0	0.48	1		08/01/08 17:01	79-01-6	
Vinyl chloride	**<1.0**	ug/L	1.0	0.18	1		08/01/08 17:01	75-01-4	
cis-1,2-Dichloroethene	**<1.0**	ug/L	1.0	0.83	1		08/01/08 17:01	156-59-2	
trans-1,2-Dichloroethene	**<1.0**	ug/L	1.0	0.89	1		08/01/08 17:01	156-60-5	
4-Bromofluorobenzene (S)	83	%	64-132		1		08/01/08 17:01	460-00-4	
Dibromofluoromethane (S)	96	%	68-122		1		08/01/08 17:01	1868-53-7	
Toluene-d8 (S)	87	%	73-127		1		08/01/08 17:01	2037-26-5	

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(920)469-2436

ANALYTICAL RESULTS

Project: 2541.27 DANA ROSCOE
Pace Project No.: 407077

Sample: CC-10-40 **Lab ID: 407077010** Collected: 07/29/08 12:30 Received: 07/30/08 15:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
1,1,1-Trichloroethane	**<1.0**	ug/L	1.0	0.90	1		08/01/08 17:25	71-55-6	
1,1-Dichloroethane	**<1.0**	ug/L	1.0	0.75	1		08/01/08 17:25	75-34-3	
1,4-Dichlorobenzene	**<1.0**	ug/L	1.0	0.95	1		08/01/08 17:25	106-46-7	
Dichlorodifluoromethane	**<1.0**	ug/L	1.0	0.99	1		08/01/08 17:25	75-71-8	
Methylene Chloride	**<1.0**	ug/L	1.0	0.43	1		08/01/08 17:25	75-09-2	
Tetrachloroethene	**<1.0**	ug/L	1.0	0.45	1		08/01/08 17:25	127-18-4	
Toluene	**<1.0**	ug/L	1.0	0.67	1		08/01/08 17:25	108-88-3	
Trichloroethene	**<1.0**	ug/L	1.0	0.48	1		08/01/08 17:25	79-01-6	
Vinyl chloride	**<1.0**	ug/L	1.0	0.18	1		08/01/08 17:25	75-01-4	
cis-1,2-Dichloroethene	**<1.0**	ug/L	1.0	0.83	1		08/01/08 17:25	156-59-2	
trans-1,2-Dichloroethene	**<1.0**	ug/L	1.0	0.89	1		08/01/08 17:25	156-60-5	
4-Bromofluorobenzene (S)	81	%	64-132		1		08/01/08 17:25	460-00-4	
Dibromofluoromethane (S)	94	%	68-122		1		08/01/08 17:25	1868-53-7	
Toluene-d8 (S)	86	%	73-127		1		08/01/08 17:25	2037-26-5	

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ANALYTICAL RESULTS

Project: 2541.27 DANA ROSCOE
Pace Project No.: 407077

Sample: BB-04-110 **Lab ID: 407077011** Collected: 07/29/08 13:30 Received: 07/30/08 15:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
1,1,1-Trichloroethane	**1.1**	ug/L	1.0	0.90	1		08/01/08 17:48	71-55-6	
1,1-Dichloroethane	**<1.0**	ug/L	1.0	0.75	1		08/01/08 17:48	75-34-3	
1,4-Dichlorobenzene	**<1.0**	ug/L	1.0	0.95	1		08/01/08 17:48	106-46-7	
Dichlorodifluoromethane	**<1.0**	ug/L	1.0	0.99	1		08/01/08 17:48	75-71-8	
Methylene Chloride	**<1.0**	ug/L	1.0	0.43	1		08/01/08 17:48	75-09-2	
Tetrachloroethene	**<1.0**	ug/L	1.0	0.45	1		08/01/08 17:48	127-18-4	
Toluene	**<1.0**	ug/L	1.0	0.67	1		08/01/08 17:48	108-88-3	
Trichloroethene	**10.7**	ug/L	1.0	0.48	1		08/01/08 17:48	79-01-6	
Vinyl chloride	**<1.0**	ug/L	1.0	0.18	1		08/01/08 17:48	75-01-4	
cis-1,2-Dichloroethene	**5.5**	ug/L	1.0	0.83	1		08/01/08 17:48	156-59-2	
trans-1,2-Dichloroethene	**<1.0**	ug/L	1.0	0.89	1		08/01/08 17:48	156-60-5	
4-Bromofluorobenzene (S)	81	%	64-132		1		08/01/08 17:48	460-00-4	
Dibromofluoromethane (S)	94	%	68-122		1		08/01/08 17:48	1868-53-7	
Toluene-d8 (S)	82	%	73-127		1		08/01/08 17:48	2037-26-5	

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ANALYTICAL RESULTS

Project: 2541.27 DANA ROSCOE
Pace Project No.: 407077

Sample: BB-04-90 **Lab ID: 407077012** Collected: 07/29/08 14:00 Received: 07/30/08 15:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
1,1,1-Trichloroethane	**<1.0**	ug/L	1.0	0.90	1		08/01/08 18:12	71-55-6	
1,1-Dichloroethane	**<1.0**	ug/L	1.0	0.75	1		08/01/08 18:12	75-34-3	
1,4-Dichlorobenzene	**<1.0**	ug/L	1.0	0.95	1		08/01/08 18:12	106-46-7	
Dichlorodifluoromethane	**<1.0**	ug/L	1.0	0.99	1		08/01/08 18:12	75-71-8	
Methylene Chloride	**<1.0**	ug/L	1.0	0.43	1		08/01/08 18:12	75-09-2	
Tetrachloroethene	**<1.0**	ug/L	1.0	0.45	1		08/01/08 18:12	127-18-4	
Toluene	**<1.0**	ug/L	1.0	0.67	1		08/01/08 18:12	108-88-3	
Trichloroethene	**13.1**	ug/L	1.0	0.48	1		08/01/08 18:12	79-01-6	
Vinyl chloride	**<1.0**	ug/L	1.0	0.18	1		08/01/08 18:12	75-01-4	
cis-1,2-Dichloroethene	**6.9**	ug/L	1.0	0.83	1		08/01/08 18:12	156-59-2	
trans-1,2-Dichloroethene	**<1.0**	ug/L	1.0	0.89	1		08/01/08 18:12	156-60-5	
4-Bromofluorobenzene (S)	84	%	64-132		1		08/01/08 18:12	460-00-4	
Dibromofluoromethane (S)	98	%	68-122		1		08/01/08 18:12	1868-53-7	pH
Toluene-d8 (S)	91	%	73-127		1		08/01/08 18:12	2037-26-5	

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ANALYTICAL RESULTS

Project: 2541.27 DANA ROSCOE
Pace Project No.: 407077

Sample: BB-04-80 **Lab ID: 407077013** Collected: 07/29/08 14:30 Received: 07/30/08 15:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
1,1,1-Trichloroethane	**1.1**	ug/L	1.0	0.90	1		08/01/08 18:35	71-55-6	
1,1-Dichloroethane	**<1.0**	ug/L	1.0	0.75	1		08/01/08 18:35	75-34-3	
1,4-Dichlorobenzene	**<1.0**	ug/L	1.0	0.95	1		08/01/08 18:35	106-46-7	
Dichlorodifluoromethane	**<1.0**	ug/L	1.0	0.99	1		08/01/08 18:35	75-71-8	
Methylene Chloride	**<1.0**	ug/L	1.0	0.43	1		08/01/08 18:35	75-09-2	
Tetrachloroethene	**<1.0**	ug/L	1.0	0.45	1		08/01/08 18:35	127-18-4	
Toluene	**<1.0**	ug/L	1.0	0.67	1		08/01/08 18:35	108-88-3	
Trichloroethene	**19.0**	ug/L	1.0	0.48	1		08/01/08 18:35	79-01-6	
Vinyl chloride	**<1.0**	ug/L	1.0	0.18	1		08/01/08 18:35	75-01-4	
cis-1,2-Dichloroethene	**10.2**	ug/L	1.0	0.83	1		08/01/08 18:35	156-59-2	
trans-1,2-Dichloroethene	**<1.0**	ug/L	1.0	0.89	1		08/01/08 18:35	156-60-5	
4-Bromofluorobenzene (S)	82	%	64-132		1		08/01/08 18:35	460-00-4	
Dibromofluoromethane (S)	97	%	68-122		1		08/01/08 18:35	1868-53-7	
Toluene-d8 (S)	89	%	73-127		1		08/01/08 18:35	2037-26-5	

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ANALYTICAL RESULTS

Project: 2541.27 DANA ROSCOE
Pace Project No.: 407077

Sample: DUP-2 **Lab ID: 407077014** Collected: 07/29/08 00:00 Received: 07/30/08 15:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
1,1,1-Trichloroethane	**1.3**	ug/L	1.0	0.90	1		08/01/08 18:59	71-55-6	
1,1-Dichloroethane	**<1.0**	ug/L	1.0	0.75	1		08/01/08 18:59	75-34-3	
1,4-Dichlorobenzene	**<1.0**	ug/L	1.0	0.95	1		08/01/08 18:59	106-46-7	
Dichlorodifluoromethane	**<1.0**	ug/L	1.0	0.99	1		08/01/08 18:59	75-71-8	
Methylene Chloride	**<1.0**	ug/L	1.0	0.43	1		08/01/08 18:59	75-09-2	
Tetrachloroethene	**<1.0**	ug/L	1.0	0.45	1		08/01/08 18:59	127-18-4	
Toluene	**<1.0**	ug/L	1.0	0.67	1		08/01/08 18:59	108-88-3	
Trichloroethene	**19.5**	ug/L	1.0	0.48	1		08/01/08 18:59	79-01-6	
Vinyl chloride	**<1.0**	ug/L	1.0	0.18	1		08/01/08 18:59	75-01-4	
cis-1,2-Dichloroethene	**10.4**	ug/L	1.0	0.83	1		08/01/08 18:59	156-59-2	
trans-1,2-Dichloroethene	**<1.0**	ug/L	1.0	0.89	1		08/01/08 18:59	156-60-5	
4-Bromofluorobenzene (S)	79	%	64-132		1		08/01/08 18:59	460-00-4	
Dibromofluoromethane (S)	96	%	68-122		1		08/01/08 18:59	1868-53-7	
Toluene-d8 (S)	85	%	73-127		1		08/01/08 18:59	2037-26-5	

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ANALYTICAL RESULTS

Project: 2541.27 DANA ROSCOE
Pace Project No.: 407077

Sample: BB-05-110 **Lab ID: 407077015** Collected: 07/29/08 15:30 Received: 07/30/08 15:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
1,1,1-Trichloroethane	**<1.0**	ug/L	1.0	0.90	1		08/01/08 19:22	71-55-6	
1,1-Dichloroethane	**<1.0**	ug/L	1.0	0.75	1		08/01/08 19:22	75-34-3	
1,4-Dichlorobenzene	**<1.0**	ug/L	1.0	0.95	1		08/01/08 19:22	106-46-7	
Dichlorodifluoromethane	**<1.0**	ug/L	1.0	0.99	1		08/01/08 19:22	75-71-8	
Methylene Chloride	**<1.0**	ug/L	1.0	0.43	1		08/01/08 19:22	75-09-2	
Tetrachloroethene	**<1.0**	ug/L	1.0	0.45	1		08/01/08 19:22	127-18-4	
Toluene	**<1.0**	ug/L	1.0	0.67	1		08/01/08 19:22	108-88-3	
Trichloroethene	**2.1**	ug/L	1.0	0.48	1		08/01/08 19:22	79-01-6	
Vinyl chloride	**<1.0**	ug/L	1.0	0.18	1		08/01/08 19:22	75-01-4	
cis-1,2-Dichloroethene	**1.8**	ug/L	1.0	0.83	1		08/01/08 19:22	156-59-2	
trans-1,2-Dichloroethene	**<1.0**	ug/L	1.0	0.89	1		08/01/08 19:22	156-60-5	
4-Bromofluorobenzene (S)	83	%	64-132		1		08/01/08 19:22	460-00-4	
Dibromofluoromethane (S)	92	%	68-122		1		08/01/08 19:22	1868-53-7	pH
Toluene-d8 (S)	88	%	73-127		1		08/01/08 19:22	2037-26-5	

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ANALYTICAL RESULTS

Project: 2541.27 DANA ROSCOE
Pace Project No.: 407077

Sample: BB-05-90 **Lab ID: 407077016** Collected: 07/29/08 16:00 Received: 07/30/08 15:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
1,1,1-Trichloroethane	**<1.0**	ug/L	1.0	0.90	1		08/01/08 19:46	71-55-6	
1,1-Dichloroethane	**<1.0**	ug/L	1.0	0.75	1		08/01/08 19:46	75-34-3	
1,4-Dichlorobenzene	**<1.0**	ug/L	1.0	0.95	1		08/01/08 19:46	106-46-7	
Dichlorodifluoromethane	**<1.0**	ug/L	1.0	0.99	1		08/01/08 19:46	75-71-8	
Methylene Chloride	**<1.0**	ug/L	1.0	0.43	1		08/01/08 19:46	75-09-2	
Tetrachloroethene	**<1.0**	ug/L	1.0	0.45	1		08/01/08 19:46	127-18-4	
Toluene	**<1.0**	ug/L	1.0	0.67	1		08/01/08 19:46	108-88-3	
Trichloroethene	**8.1**	ug/L	1.0	0.48	1		08/01/08 19:46	79-01-6	
Vinyl chloride	**<1.0**	ug/L	1.0	0.18	1		08/01/08 19:46	75-01-4	
cis-1,2-Dichloroethene	**6.4**	ug/L	1.0	0.83	1		08/01/08 19:46	156-59-2	
trans-1,2-Dichloroethene	**<1.0**	ug/L	1.0	0.89	1		08/01/08 19:46	156-60-5	
4-Bromofluorobenzene (S)	78	%	64-132		1		08/01/08 19:46	460-00-4	
Dibromofluoromethane (S)	91	%	68-122		1		08/01/08 19:46	1868-53-7	
Toluene-d8 (S)	87	%	73-127		1		08/01/08 19:46	2037-26-5	

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ANALYTICAL RESULTS

Project: 2541.27 DANA ROSCOE
Pace Project No.: 407077

Sample: BB-05-80 **Lab ID: 407077017** Collected: 07/29/08 16:30 Received: 07/30/08 15:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
1,1,1-Trichloroethane	**<1.0**	ug/L	1.0	0.90	1		08/01/08 20:09	71-55-6	
1,1-Dichloroethane	**<1.0**	ug/L	1.0	0.75	1		08/01/08 20:09	75-34-3	
1,4-Dichlorobenzene	**<1.0**	ug/L	1.0	0.95	1		08/01/08 20:09	106-46-7	
Dichlorodifluoromethane	**<1.0**	ug/L	1.0	0.99	1		08/01/08 20:09	75-71-8	
Methylene Chloride	**<1.0**	ug/L	1.0	0.43	1		08/01/08 20:09	75-09-2	
Tetrachloroethene	**<1.0**	ug/L	1.0	0.45	1		08/01/08 20:09	127-18-4	
Toluene	**<1.0**	ug/L	1.0	0.67	1		08/01/08 20:09	108-88-3	
Trichloroethene	**9.7**	ug/L	1.0	0.48	1		08/01/08 20:09	79-01-6	
Vinyl chloride	**<1.0**	ug/L	1.0	0.18	1		08/01/08 20:09	75-01-4	
cis-1,2-Dichloroethene	**7.7**	ug/L	1.0	0.83	1		08/01/08 20:09	156-59-2	
trans-1,2-Dichloroethene	**<1.0**	ug/L	1.0	0.89	1		08/01/08 20:09	156-60-5	
4-Bromofluorobenzene (S)	80	%	64-132		1		08/01/08 20:09	460-00-4	
Dibromofluoromethane (S)	96	%	68-122		1		08/01/08 20:09	1868-53-7	
Toluene-d8 (S)	83	%	73-127		1		08/01/08 20:09	2037-26-5	

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ANALYTICAL RESULTS

Project: 2541.27 DANA ROSCOE
Pace Project No.: 407077

Sample: TRIP BLANK **Lab ID: 407077018** Collected: 07/29/08 00:00 Received: 07/30/08 15:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
1,1,1-Trichloroethane	**<1.0**	ug/L	1.0	0.90	1		08/01/08 13:30	71-55-6	
1,1-Dichloroethane	**<1.0**	ug/L	1.0	0.75	1		08/01/08 13:30	75-34-3	
1,4-Dichlorobenzene	**<1.0**	ug/L	1.0	0.95	1		08/01/08 13:30	106-46-7	
Dichlorodifluoromethane	**<1.0**	ug/L	1.0	0.99	1		08/01/08 13:30	75-71-8	
Methylene Chloride	**<1.0**	ug/L	1.0	0.43	1		08/01/08 13:30	75-09-2	
Tetrachloroethene	**<1.0**	ug/L	1.0	0.45	1		08/01/08 13:30	127-18-4	
Toluene	**<1.0**	ug/L	1.0	0.67	1		08/01/08 13:30	108-88-3	
Trichloroethene	**<1.0**	ug/L	1.0	0.48	1		08/01/08 13:30	79-01-6	
Vinyl chloride	**<1.0**	ug/L	1.0	0.18	1		08/01/08 13:30	75-01-4	
cis-1,2-Dichloroethene	**<1.0**	ug/L	1.0	0.83	1		08/01/08 13:30	156-59-2	
trans-1,2-Dichloroethene	**<1.0**	ug/L	1.0	0.89	1		08/01/08 13:30	156-60-5	
4-Bromofluorobenzene (S)	82	%	64-132		1		08/01/08 13:30	460-00-4	
Dibromofluoromethane (S)	88	%	68-122		1		08/01/08 13:30	1868-53-7	
Toluene-d8 (S)	88	%	73-127		1		08/01/08 13:30	2037-26-5	

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ANALYTICAL RESULTS

Project: 2541.27 DANA ROSCOE
Pace Project No.: 407077

Sample: RB-SOURCE **Lab ID: 407077019** Collected: 07/29/08 18:00 Received: 07/30/08 15:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
1,1,1-Trichloroethane	**<1.0**	ug/L	1.0	0.90	1		08/01/08 14:17	71-55-6	
1,1-Dichloroethane	**<1.0**	ug/L	1.0	0.75	1		08/01/08 14:17	75-34-3	
1,4-Dichlorobenzene	**<1.0**	ug/L	1.0	0.95	1		08/01/08 14:17	106-46-7	
Dichlorodifluoromethane	**<1.0**	ug/L	1.0	0.99	1		08/01/08 14:17	75-71-8	
Methylene Chloride	**<1.0**	ug/L	1.0	0.43	1		08/01/08 14:17	75-09-2	
Tetrachloroethene	**<1.0**	ug/L	1.0	0.45	1		08/01/08 14:17	127-18-4	
Toluene	**<1.0**	ug/L	1.0	0.67	1		08/01/08 14:17	108-88-3	
Trichloroethene	**<1.0**	ug/L	1.0	0.48	1		08/01/08 14:17	79-01-6	
Vinyl chloride	**<1.0**	ug/L	1.0	0.18	1		08/01/08 14:17	75-01-4	
cis-1,2-Dichloroethene	**<1.0**	ug/L	1.0	0.83	1		08/01/08 14:17	156-59-2	
trans-1,2-Dichloroethene	**<1.0**	ug/L	1.0	0.89	1		08/01/08 14:17	156-60-5	
4-Bromofluorobenzene (S)	83	%	64-132		1		08/01/08 14:17	460-00-4	
Dibromofluoromethane (S)	94	%	68-122		1		08/01/08 14:17	1868-53-7	
Toluene-d8 (S)	90	%	73-127		1		08/01/08 14:17	2037-26-5	

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Green Bay, WI 54302
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QUALITY CONTROL DATA

Project: 2541.27 DANA ROSCOE
Pace Project No.: 407077

QC Batch: MSV/2310 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV
Associated Lab Samples: 407077001, 407077002, 407077003, 407077004, 407077005, 407077006, 407077007, 407077008, 407077009, 407077010, 407077011, 407077012, 407077013, 407077014, 407077015, 407077016, 407077017, 407077018, 407077019

METHOD BLANK: 59395

Associated Lab Samples: 407077001, 407077002, 407077003, 407077004, 407077005, 407077006, 407077007, 407077008, 407077009, 407077010, 407077011, 407077012, 407077013, 407077014, 407077015, 407077016, 407077017, 407077018, 407077019

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
1,1,1-Trichloroethane	ug/L	<1.0	1.0	
1,1-Dichloroethane	ug/L	<1.0	1.0	
1,4-Dichlorobenzene	ug/L	<1.0	1.0	
cis-1,2-Dichloroethene	ug/L	<1.0	1.0	
Dichlorodifluoromethane	ug/L	<1.0	1.0	
Methylene Chloride	ug/L	<1.0	1.0	
Tetrachloroethene	ug/L	<1.0	1.0	
Toluene	ug/L	<1.0	1.0	
trans-1,2-Dichloroethene	ug/L	<1.0	1.0	
Trichloroethene	ug/L	<1.0	1.0	
Vinyl chloride	ug/L	<1.0	1.0	
4-Bromofluorobenzene (S)	%	83	64-132	
Dibromofluoromethane (S)	%	92	68-122	
Toluene-d8 (S)	%	89	73-127	

LABORATORY CONTROL SAMPLE & LCSD: 59396 59397

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
1,1,1-Trichloroethane	ug/L	50	52.3	50.2	105	100	75-128	4	20	
1,1-Dichloroethane	ug/L	50	53.9	53.7	108	107	71-130	.2	20	
cis-1,2-Dichloroethene	ug/L	50	48.6	48.2	97	96	75-125	.9	20	
Methylene Chloride	ug/L	50	52.8	52.3	106	105	75-125	.8	20	
Tetrachloroethene	ug/L	50	52.7	51.6	105	103	75-130	2	20	
Toluene	ug/L	50	51.8	53.7	104	107	75-125	4	20	
trans-1,2-Dichloroethene	ug/L	50	54.9	52.3	110	105	75-125	5	20	
Trichloroethene	ug/L	50	54.3	53.3	109	107	75-125	2	20	
Vinyl chloride	ug/L	50	49.6	49.9	99	100	65-130	.6	20	
4-Bromofluorobenzene (S)	%				89	90	64-132			
Dibromofluoromethane (S)	%				92	90	68-122			
Toluene-d8 (S)	%				91	94	73-127			

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 59609 59610

Parameter	Units	407077005 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,1,1-Trichloroethane	ug/L	<1.0	50	50	45.7	45.9	91	92	70-130	.4	30	

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QUALITY CONTROL DATA

Project: 2541.27 DANA ROSCOE
Pace Project No.: 407077

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 59609 59610

Parameter	Units	407077005 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,1-Dichloroethane	ug/L	<1.0	50	50	46.2	46.6	92	93	70-130	1	30	
cis-1,2-Dichloroethene	ug/L	<1.0	50	50	42.6	43.2	85	86	70-130	1	30	
Methylene Chloride	ug/L	<1.0	50	50	47.0	46.6	94	93	70-130	.8	30	
Tetrachloroethene	ug/L	<1.0	50	50	45.8	47.8	92	96	70-130	4	30	
Toluene	ug/L	<1.0	50	50	46.1	45.9	91	91	70-130	.3	30	
trans-1,2-Dichloroethene	ug/L	<1.0	50	50	45.7	47.0	91	94	70-130	3	30	
Trichloroethene	ug/L	<1.0	50	50	46.3	47.3	93	95	70-130	2	30	
Vinyl chloride	ug/L	<1.0	50	50	42.7	43.0	85	86	62-138	.7	30	
4-Bromofluorobenzene (S)	%						89	85	64-132			
Dibromofluoromethane (S)	%						89	90	68-122			
Toluene-d8 (S)	%						89	88	73-127			

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QUALIFIERS

Project: 2541.27 DANA ROSCOE
Pace Project No.: 407077

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

Pace Analytical is NELAP accredited. Contact your Pace PM for the current list of accredited analytes.

LABORATORIES

PASI-G Pace Analytical Services - Green Bay

ANALYTE QUALIFIERS

pH Post-analysis pH measurement indicates insufficient VOA sample preservation.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 2541.27 DANA ROSCOE
Pace Project No.: 407077

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
407077001	DUP-1	EPA 8260	MSV/2310		
407077002	CC-09-100	EPA 8260	MSV/2310		
407077003	CC-09-80	EPA 8260	MSV/2310		
407077004	CC-09-60	EPA 8260	MSV/2310		
407077005	CC-09-40	EPA 8260	MSV/2310		
407077006	RB-02	EPA 8260	MSV/2310		
407077007	CC-10-100	EPA 8260	MSV/2310		
407077008	CC-10-80	EPA 8260	MSV/2310		
407077009	CC-10-60	EPA 8260	MSV/2310		
407077010	CC-10-40	EPA 8260	MSV/2310		
407077011	BB-04-110	EPA 8260	MSV/2310		
407077012	BB-04-90	EPA 8260	MSV/2310		
407077013	BB-04-80	EPA 8260	MSV/2310		
407077014	DUP-2	EPA 8260	MSV/2310		
407077015	BB-05-110	EPA 8260	MSV/2310		
407077016	BB-05-90	EPA 8260	MSV/2310		
407077017	BB-05-80	EPA 8260	MSV/2310		
407077018	TRIP BLANK	EPA 8260	MSV/2310		
407077019	RB-SOURCE	EPA 8260	MSV/2310		

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Sample Condition Upon Receipt

Pace Analytical

Client Name: RMT Project # 407077

Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☑ Pace Other _____

Tracking #: _____

Optional:
Proj. Due Date:
Proj. Name:

Custody Seal on Cooler/Box Present: ☐ yes ☑ no Seals intact: ☐ yes ☐ no

Packing Material: ☐ Bubble Wrap ☑ Bubble Bags ☐ None ☐ Other _____

Thermometer Used N/A **Type of Ice:** Wet Blue None ☐ Samples on ice, cooling process has begun

Cooler Temperature 4.07 **Biological Tissue is Frozen:** Yes No

Date and Initials of person examining contents: 7/30/08

Temp should be above freezing to 6°C

		Comments:
Chain of Custody Present:	☑Yes ☐No ☐N/A	1.
Chain of Custody Filled Out:	☑Yes ☐No ☐N/A	2.
Chain of Custody Relinquished:	☑Yes ☐No ☐N/A	3.
Sampler Name & Signature on COC:	☑Yes ☐No ☐N/A	4.
Samples Arrived within Hold Time:	☑Yes ☐No ☐N/A	5.
Short Hold Time Analysis (<72hr):	☐Yes ☑No ☐N/A	6.
Rush Turn Around Time Requested:	☐Yes ☑No ☐N/A	7.
Sufficient Volume:	☑Yes ☐No ☐N/A	8.
Correct Containers Used:	☑Yes ☐No ☐N/A	9.
-Pace Containers Used:	☑Yes ☐No ☐N/A	
Containers Intact:	☑Yes ☐No ☐N/A	10.
Filtered volume received for Dissolved tests	☐Yes ☐No ☑N/A	11.
Sample Labels match COC:	☑Yes ☐No ☐N/A	12.
-Includes date/time/ID/Analysis Matrix: W		
All containers needing preservation have been checked.	☐Yes ☐No ☑N/A	13.
All containers needing preservation are found to be in compliance with EPA recommendation.	☐Yes ☐No ☑N/A	
exceptions: VOA, coliform, TOC, O&G, WI-DRO (water)	☐Yes ☐No	Initial when completed ____ Lot # of added preservative ____
Samples checked for dechlorination:	☐Yes ☐No ☑N/A	14.
Headspace in VOA Vials (>6mm):	☐Yes ☑No ☐N/A	15.
Trip Blank Present:	☑Yes ☐No ☐N/A	16.
Trip Blank Custody Seals Present	☑Yes ☐No ☐N/A	
Pace Trip Blank Lot # (if purchased): _____		

Client Notification/ Resolution: Field Data Required? Y / N

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: [signature] **Date:** 7/31/08

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e out of hold, incorrect preservative, out of temp, incorrect containers)

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UPPER MIDWEST REGION
MN: 612-607-1700 WI: 920-469-2436

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CHAIN OF CUSTODY

*Preservation Codes
A=None B=HCL C=H2SO4 D=HNO3 E=DI Water F=Methanol G=NaOH
H=Sodium Bisulfate Solution I=Sodium Thiosulfate J=Other

(Please Print Clearly)	
Company Name:	RMT
Branch/Location:	Madison
Project Contact:	Jim Buss
Phone:	608-662-5567
Project Number:	2541.27
Project Name:	Dana Roscoe
Project State:	IL
Sampled By (Print):	Jim Buss
Sampled By (Sign):	James A. Buss
PO #:	
Regulatory Program:	RRA

Quote #:	
Mail To Contact:	Jim Buss
Mail To Company:	RMT
Mail To Address:	744 Heartland Trl. Madison, WI 53717
Invoice To Contact:	Accts Payable
Invoice To Company:	RMT
Invoice To Address:	744 Heartland Trl Madison, WI
Invoice To Phone:	608-831-4444

Data Package Options (billable)
- ☐ EPA Level III
- ☐ EPA Level IV

MS/MSD
- ☐ On your sample (billable)
- ☒ NOT needed on your sample

Matrix Codes
A = Air, B = Biota, C = Charcoal, O = Oil, S = Soil, Sl = Sludge, W = Water, DW = Drinking Water, GW = Ground Water, SW = Surface Water, WW = Waste Water, WP = Wipe

PACE LAB #	CLIENT FIELD ID	COLLECTION DATE	COLLECTION TIME	MATRIX	FILTERED? (YES/NO) Y/N	PRESERVATION (CODE)* Pick Letter	Analyses Requested: Chlorinated VOCs 8260	CLIENT COMMENTS	LAB COMMENTS (Lab Use Only)	Profile #
001	DUP-1	7/29/08	—	GW	No	B	X	see Ted Nettmyer for VOC list.	3-40ml	
002	CC-09-100		0800				X			
003	CC-09-80		0900				X			
004	CC-09-60		0930				X			
005	CC-09-40		1000				X			
006	RB-02		1030				X			
007	CC-10-100		11:00				X			
008	CC-10-80		11:30				X			
009	CC-10-60		12:00				X			
010	CC-10-40		12:30				X			
011	BB-04-110		1330				X			
012	BB-04-90		1400				X			
013	BB-04-80		1430				X			

Rush Turnaround Time Requested - Prelims
(Rush TAT subject to approval/surcharge)
Date Needed:

Transmit Prelim Rush Results by (complete what you want):
Email #1:
Email #2:
Telephone:
Fax:

Samples on HOLD are subject to special pricing and release of liability

Relinquished By:	Date/Time:	Received By:	Date/Time:
James A. Buss	7/30/08 0800	D. Fenwick	7/30/08 0800
D. Fenwick	7/30/08 1158	B Kempen	7/30/08 1150
B Kempen	7/30/08 1500	Jennifer Schmidt	7/30/08 1500

PACE Project No. 407077
Receipt Temp = KOJ °C
Sample Receipt pH OK / Adjusted
Cooler Custody Seal Present / Not Present
Intact / Not Intact

UPPER MIDWEST REGION
MN: 612-607-1700 WI: 920-469-2436

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CHAIN OF CUSTODY

(Please Print Clearly)

Company Name:	RMT
Branch/Location:	Madison
Project Contact:	Jim Buss
Phone:	608-662-5367
Project Number:	2541.27
Project Name:	Dana Roscoe
Project State:	IL
Sampled By (Print):	Jim Buss
Sampled By (Sign):	James A. Buss
PO #:	
Regulatory Program:	RCRA

*Preservation Codes
A=None B=HCL C=H2SO4 D=HNO3 E=DI Water F=Methanol G=NaOH
H=Sodium Bisulfate Solution I=Sodium Thiosulfate J=Other

Quote #:	Jim Buss
Mail To Contact:	RMT
Mail To Company:	
Mail To Address:	744 Heartland Trl Madison, WI
Invoice To Contact:	Accts Payable MSN
Invoice To Company:	RMT
Invoice To Address:	744 Heartland Trl
Invoice To Phone:	608-831-4444

Data Package Options (billable)
- ☐ EPA Level III
- ☐ EPA Level IV

MS/MSD
- ☐ On your sample (billable)
- ☒ NOT needed on your sample

Matrix Codes
A = Air, B = Biota, C = Charcoal, O = Oil, S = Soil, Sl = Sludge, W = Water, DW = Drinking Water, GW = Ground Water, SW = Surface Water, WW = Waste Water, WP = Wipe

Analyses Requested: Chlorinated VOCs 8260

PACE LAB #	CLIENT FIELD ID	COLLECTION DATE	COLLECTION TIME	MATRIX	FILTERED? (YES/NO) Y/N	PRESERVATION (CODE)* Pick Letter	CLIENT COMMENTS	LAB COMMENTS (Lab Use Only)	Profile #
014	DUP-2	7/29/08	—	GW	N	B	See Ted Wathmer for VOC list.	3-40mlB	
015	BB-05-110	↓	1530	↓	X			↓	
016	BB-05-90		1600		X				
017	BB-05-80		1630		X				
018	Trip Blank			W	X				
019	RB-Source	↓	1800	W	X				

Rush Turnaround Time Requested - Prelims
(Rush TAT subject to approval/surcharge)
Date Needed:

Transmit Prelim Rush Results by (complete what you want):
Email #1:
Email #2:
Telephone:
Fax:

Samples on HOLD are subject to special pricing and release of liability

Relinquished By:	Date/Time:	Received By:	Date/Time:
James A. Buss	7/30/08 0800	D. Fennell	7/30/08 0800
D. Fennell	7/30/08 1150	B. Kempen	7/30/08 1150
B. Kempen	7/30/08 1500	Dawn Schust	7/30/08 1500

PACE Project No. 407077
Receipt Temp = Rej °C
Sample Receipt pH OK / Adjusted
Cooler Custody Seal Present / Not Present Intact / Not Intact

C019a(27Jun2006)
Version 6.0 06/14/06
ORIGINAL

Appendix F
BIOCHLOR Model Results

RMT

Technical Memorandum

Date: February 9, 2009

To: Project File 2541.30

cc: John Rice

From: Jim Buss

Project No.: 2541.30

Subject: Biochlor Chlorinated VOC Attenuation To Support Monitored Natural Attenuation Former Warner Electric Facility, Roscoe, Illinois

Background

This Memorandum describes the modeling that RMT, Inc. (RMT), performed on behalf of Dana Holding Corporation (Dana) using the United States Environmental Protection Agency (USEPA) Biochlor Natural Attenuation Decision Support System, Version 2.2, model (Biochlor) (USEPA, 2000) to evaluate the natural attenuation of chlorinated volatile organic compounds (CVOCs) at, and downgradient from, the Former Warner Electric (Warner) facility in Roscoe, Illinois (Figure 1). The goal of this evaluation was to establish an intermediate cleanup goal for trichloroethene (TCE) in groundwater proximal to the sources at the facility (former degreaser 1231 and the TCE storage area). This will allow for the suspension of active remedial efforts and will enable monitored natural attenuation (MNA) in the shallow aquifer to complete remediation by restoring groundwater to potable drinking water standards (Maximum Contaminant Levels [MCLs]) at the property boundary approximately 600 feet downgradient from the source.

The Warner facility is closed and unoccupied. However, a release of CVOCs at the facility, first discovered in 1983, resulted in a plume of affected groundwater, which migrates downgradient approximately 1.25 miles to the Rock River (Figure 2). Under an Administrative Consent Order (CO) between Dana and the USEPA, Dana operates a groundwater recovery and treatment system near the Rock River. The system, which has operated nearly continuously since 1991, has become increasingly inefficient as influent concentrations to the system have fallen below the discharge limits for the National Pollutant Discharge Elimination System (NPDES) permit for the system. In response to this, Dana is refocusing remedial efforts to the facility, where a limited residual source area remains.

As part of this remedial effort, Dana will enhance the natural reductive dechlorination of affected groundwater through the injection of lactate and zero-valent iron into the shallow aquifer at the facility. Pilot-scale testing has shown that this effort is capable of substantially reducing CVOC concentrations in the groundwater, although they may not reach the MCL cleanup criteria specified in the CO. Achieving these MCL cleanup criteria will be accomplished through long-term MNA.

The principal CVOCs associated with the facility are trichloroethene (TCE), which has an MCL of 5 μg/L, and cis-1,2-dichloroethene (cis-1,2-DCE), which has an MCL of 70 μg/L. Since the TCE MCL is more than 10 times lower than the cis-1,2-DCE MCL, and since there is no indication that cis-1,2-DCE accumulates at this site, TCE is the compound that will drive remedial efforts. The results of the modeling show that TCE concentrations at the source area will need to decline to 100 μg/L in order for natural attenuation to complete remediation and result in TCE at or below the 5 μg/L MCL at the property boundary.

Biochlor Simulation Setup

Using data collected by RMT and others, summarized in the 2007 Workplan To Amend Administrative Order on Consent (RMT, 2007), RMT prepared a Biochlor simulation for the site, which reflects pre-remedial conditions.

The following parameters were input into Biochlor:

- Hydraulic conductivity = 2.1×10^{-1} cm/s (from pumping tests performed by D'Appolonia [1983] and Weston [1991]).
- Gradient = 0.0019 (typical gradient across the site).
- Porosity = 0.25 (estimate for sand outwash aquifer).
- Longitudinal dispersivity (Lx) = 50 feet, based on Biochlor users manual and Xu & Eckstien (1995). The length of the plume was set to 7,500 feet.
- Transverse dispersivity ratio = L_y/L_x = 0.1 (Gelhar et al., 1992).
- Vertical dispersivity ratio = L_z/L_x = 0.05 (ASTM, 1995).
- Soil bulk density = 1.7 kg/L (USEPA, 2000), as no site-specific data are available.
- Organic carbon partition coefficient: PCE = 426 L/kg, TCE = 130 L/kg, DCE = 125 L/kg, VC = 30 L/g (USEPA, 2000).
- Organic carbon = 0.001 (USEPA, 2000), as no site-specific data are available.
- Dissolved solvent half life: PCE = 9.9 years, TCE 13.9 years, DCE = 3.9 years, VC = 5.8 years (Wiedemeier et al., 1999). TCA = 1.5 years and DCA = 0.43 years (Howard et al., 1991). These are high-end half-life values in order to be conservative.
- Source area width = 300 to 100 feet (based on the results from the groundwater screening investigation and the expected residual area of affected groundwater).
- Source area aquifer thickness = 20 to 10 feet (based on the results from the groundwater screening investigation and the expected residual area of affected groundwater).

Biochlor Model Results

For the pre-remediation model scenario, RMT assumed that the source area was 300 feet wide and 20 feet thick, with a TCE concentration of 3 mg/L. This reflects the approximate conditions during the early 1980s following the TCE release. Attachment 1 contains the Biochlor model input and output for this pre-remediation condition. The results show that the downgradient TCE concentration would be 18 μg/L at 5,000 feet (equivalent to Transect BB' on Hononegah Road, see Figure 2), and 11 μg/L at 7,500 feet (equivalent to Transect CC' near the Rock River, see Figure 2). These concentrations match well with the concentrations measured in the screening samples collected in 2008 (RMT, 2008).

For the post-remediation model scenario (conditions needed to allow for final cleanup by MNA), RMT assumed that the source area was 100 feet wide and 10 feet thick. This smaller size is expected to be consistent with conditions following successful *in situ* remediation. Variable TCE concentrations were used in this scenario. Model results showed that, if the source area TCE concentration was reduced to 100 μg/L, the concentration 600 feet downgradient, at the property line, would reach the 5 μg/L MCL. This simulation conservatively assumed the pre-remediation TCE half-life and does not assume any continuing beneficial effect of the injections. Attachment 2 contains the Biochlor model input and output for this post-remediation condition. Based on this analysis, the intermediate cleanup goal for TCE in groundwater in the source area beneath the facility is 100 μg/L.

Conclusion

Following enhanced *in situ* remediation of groundwater at the Warner facility, MNA will be used as a final remedial measure, with the goal of restoring groundwater quality to USEPA MCLs. Site-specific conditions render TCE as the remedial driver for this effort. Biochlor modeling shows that reducing source area concentrations of TCE to 100 μg/L will be adequate to allow for MNA to complete the remediation and restore groundwater quality to MCLs at the property boundary approximately 600 feet downgradient from the source area.

References

American Society for Testing and Materials (ASTM). 1995. *Standard guide for risk-based corrective action applied at petroleum sites,* ASTM E-1839-95, Philadelphia, Pennsylvania.

D'Appolonia, Inc. 1983. Site investigation/Initial remedial measures, Former Warner Electric Brake and Clutch Company, Roscoe, Illinois. D'Appolonia Project Number X83-1515-DW.

Howard, P. H., R. S. Boethling, W. F. Jarvis, W. M. Meylan, and E. M. Michalenko. 1991. *Handbook of environmental degradation rates.* Chelsea, Michigan: Lewis Publishers, Inc.

Gelhar, L.W., C. Welty, and K.R. Rehfeldt. 1992. A critical review of data on field-scale dispersion in aquifers. *Water Resour. Res.* 28(7): 1915-1974.

Pickens J. F. and G. E. Grisak. 1981. Scale-dependent dispersion in a stratified granular aquifer. *Water Resour. Res.* 17(4): 1191-1211.

RMT, Inc. 2007. Workplan to amend administrative order on consent. Warner Electric Brake and Clutch Division, Roscoe, Illinois. October 2007.

RMT, Inc. 2008. Groundwater screening results, Former Warner Electric, Roscoe, Illinois. September 2008.

Roy F. Weston, Inc. 1991. Unpublished data from November 1991 pumping test.

United States Environmental Protection Agency (USEPA). 2000. *BIOCHLOR natural attenuation decision support system, users manual, Version 1.0,* EPA/600/R-00/008. EPA, Office of Research and Development. Washington, DC 20460.

Xu M., and Y. Eckstien, 1995. Use of Weighted Least-Squares Method in Evaluation of the Relationship Between Dispersivity and Scale. Journal of Groundwater 33(6), 905-908.

Wiedemeier, T. H., H. S. Rifai, C. J. Newell, and J.W. Wilson. 1999. *Natural attenuation of fuels and chlorinated solvents.* New York, New York: John Wiley & Sons,.

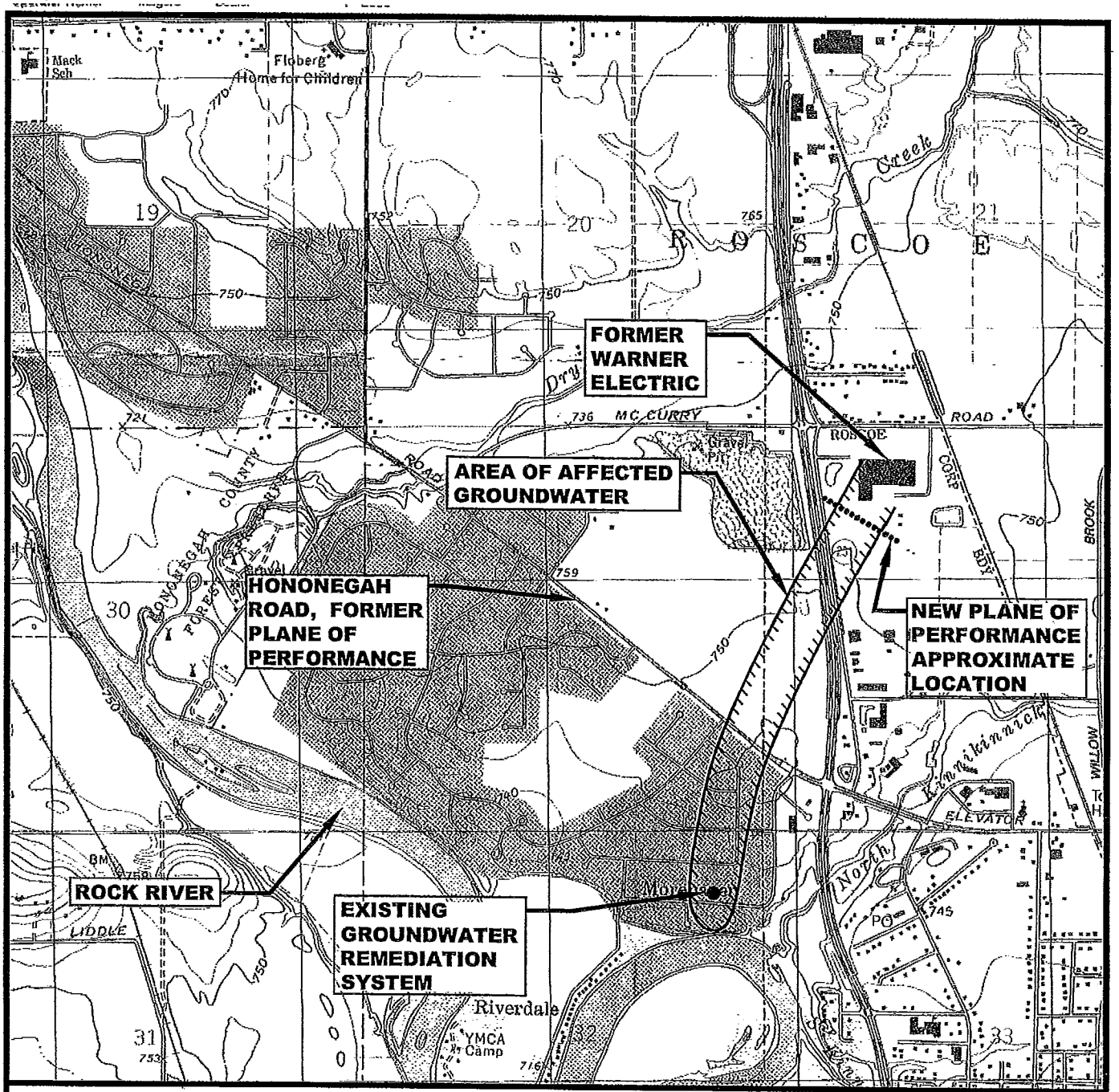
List of Attachments

Figure 1 – Site Location Map

Figure 2 – Planes of Performance and Groundwater Screening Locations

Attachment 1 – Pre-Remediation Biochlor Model Input and Output

Attachment 2 – Post-Remediation Biochlor Model Input and Output



SOURCE: SOUTH BELOIT, ILLINOIS
U.S.G.S. 7.5 MINUTE QUADRANGLE

LOCATION: NW1/4, NW1/4, SECTION 28,
RANGE 12E, TOWNSHIP 46N.

ILLINOIS

0 2000 4000

SCALE: 1"= 2000'

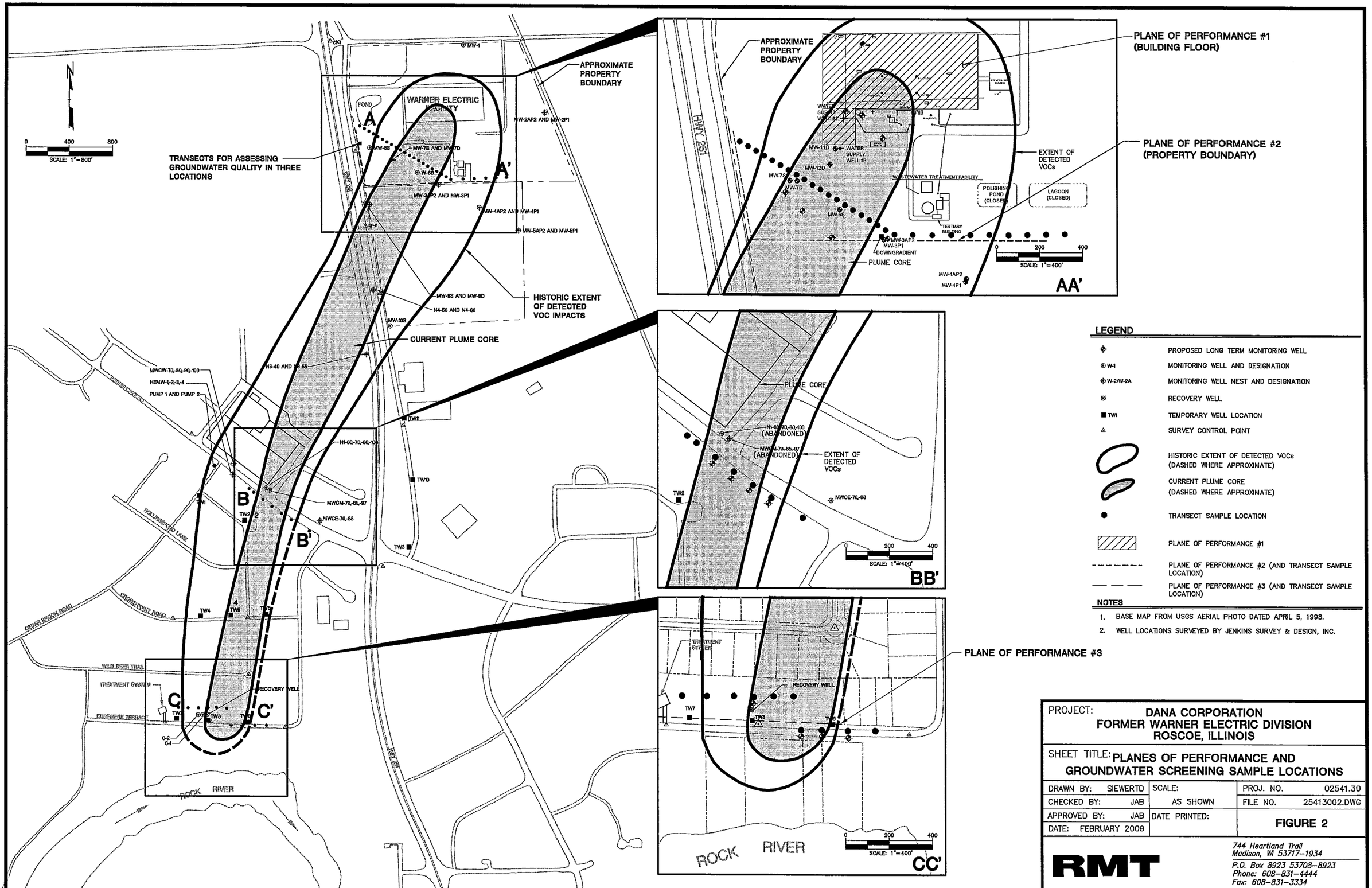
N

RMT

DANA CORPORATION
WARNER ELECTRIC
ROSCOE, ILLINOIS

SITE LOCATION MAP

DRAWN BY:	FITZGERALD
APPROVED BY:	JAB
PROJECT NO.	02541.30
FILE NO.	25413001.DWG
DATE:	FEBRUARY 2009


N
0 400 800
SCALE: 1"=800'
APPROXIMATE PROPERTY BOUNDARY
TRANSECTS FOR ASSESSING GROUNDWATER QUALITY IN THREE LOCATIONS
WARNER ELECTRIC FACILITY
POND
A
A'
MW-1
MW-2AP2 AND MW-2P1
MW-8S
MW-7S AND MW-7D
W-6S
MW-3AP2 AND MW-3P1
MW-4AP2 AND MW-4P1
MW-5AP2 AND MW-5P1
MW-9S AND MW-9D
N4-50 AND N4-60
MW-10S
HISTORIC EXTENT OF DETECTED VOC IMPACTS
CURRENT PLUME CORE
N3-40 AND N3-55
MWCW-70,-80,-90,-100
HEMW-1,-2,-3,-4
PUMP 1 AND PUMP 2
TW11
N1-60,-70,-80,-100
MWCM-73,-85,-97
MWCE-70,-88
B
B'
TW1
TW2
TW3
TW4
TW5
TW6
TW7
TW8
TW9
TW10
POLLINGHEAD LANE
CEDAR BROOK ROAD
SNOWBOARD ROAD
WILD DISH TRAIL
TREATMENT SYSTEM
RECOVERY WELL
HIGHMARK TERRACE
C
C'
0-2
0-1
ROCK RIVER
HWY 251
APPROXIMATE PROPERTY BOUNDARY
PLANE OF PERFORMANCE #1 (BUILDING FLOOR)
PLANE OF PERFORMANCE #2 (PROPERTY BOUNDARY)
WATER SUPPLY WELL #1
MW-11D
WATER SUPPLY WELL #3
MW-12D
MW-7S
MW-7D
MW-6S
WASTEWATER TREATMENT FACILITY
POLISHING POND (CLOSED)
LAGOON (CLOSED)
TERTIARY BUILDING
EXTENT OF DETECTED VOCs
MW-3AP2
MW-3P1
DOWNGRADIENT
PLUME CORE
MW-4AP2
MW-4P1
0 200 400
SCALE: 1"=400'
AA'
PLUME CORE
N1-60,-70,-80,-100 (ABANDONED)
MWCM-73,-85,-97 (ABANDONED)
EXTENT OF DETECTED VOCs
MWCE-70,-88
BB'
TREATMENT SYSTEM
RECOVERY WELL
PLANE OF PERFORMANCE #3
ROCK RIVER
CC'
LEGEND
PROPOSED LONG TERM MONITORING WELL
W-1 MONITORING WELL AND DESIGNATION
W-2/W-2A MONITORING WELL NEST AND DESIGNATION
RECOVERY WELL
TW1 TEMPORARY WELL LOCATION
SURVEY CONTROL POINT
HISTORIC EXTENT OF DETECTED VOCs (DASHED WHERE APPROXIMATE)
CURRENT PLUME CORE (DASHED WHERE APPROXIMATE)
TRANSECT SAMPLE LOCATION
PLANE OF PERFORMANCE #1
PLANE OF PERFORMANCE #2 (AND TRANSECT SAMPLE LOCATION)
PLANE OF PERFORMANCE #3 (AND TRANSECT SAMPLE LOCATION)
NOTES
1. BASE MAP FROM USGS AERIAL PHOTO DATED APRIL 5, 1998.
2. WELL LOCATIONS SURVEYED BY JENKINS SURVEY & DESIGN, INC.
PROJECT: DANA CORPORATION FORMER WARNER ELECTRIC DIVISION ROSCOE, ILLINOIS
SHEET TITLE: PLANES OF PERFORMANCE AND GROUNDWATER SCREENING SAMPLE LOCATIONS
DRAWN BY: SIEWERTD
CHECKED BY: JAB
APPROVED BY: JAB
DATE: FEBRUARY 2009
SCALE: AS SHOWN
DATE PRINTED:
PROJ. NO. 02541.30
FILE NO. 25413002.DWG
FIGURE 2
RMT
744 Heartland Trail
Madison, WI 53717-1934
P.O. Box 8923 53708-8923
Phone: 608-831-4444
Fax: 608-831-3334
PLOT DATA
Drawing Name: J:\02541\30\25413002.dwg
Operator Name: siewertd
Scale: 1"=400'

Attachment 1

Pre-Remediation Biochlor Model Input and Output

Baseline Conditions Showing Existing CVOC Degradation

BIOCHLOR Natural Attenuation Decision Support System

Version 2.2
Excel 2000

Fmr Warner Elec.
Roscoe, IL
Run Name

Data Input Instructions:

115 → 1. Enter value directly....or
↑ or 2. Calculate by filling in gray
0.02 cells. Press Enter, then (c)
(To restore formulas, hit "Restore Formulas" button)
Variable* → Data used directly in model.

Test if Biotransformation is Occurring → Natural Attenuation Screening Protocol

TYPE OF CHLORINATED SOLVENT: Ethenes ● Ethanes ○

1. ADVECTION

Seepage Velocity*	Vs	1651.3	(ft/yr)
or			
Hydraulic Conductivity	K	2.1E-01	(cm/sec)
Hydraulic Gradient	i	0.0019	(ft/ft)
Effective Porosity	n	0.25	(-)

2. DISPERSION

Alpha x*	50	(ft)
(Alpha y) / (Alpha x)*	0.1	(-)
(Alpha z) / (Alpha x)*	5.E-02	(-)

Calc. Alpha x

3. ADSORPTION

Retardation Factor* → R

or

Soil Bulk Density, rho	1.7	(kg/L)		
FractionOrganicCarbon, foc	1.0E-3	(-)		
Partition Coefficient	Koc			
PCE	426	(L/kg)	3.90	(-)
TCE	130	(L/kg)	1.88	(-)
DCE	125	(L/kg)	1.85	(-)
VC	30	(L/kg)	1.20	(-)
ETH	302	(L/kg)	3.05	(-)
Common R (used in model)* =			**1.88**	

4. BIOTRANSFORMATION

-1st Order Decay Coefficient*

Zone 1	λ (1/yr)	half-life (yrs)	Yield
PCE → TCE	0.877	0.79	0.79
TCE → DCE	0.936	0.74	0.74
DCE → VC	1.083	0.64	0.64
VC → ETH	1.540	0.45	0.45

Zone 2	λ (1/yr)	half-life (yrs)
PCE → TCE	0.035	20.00
TCE → DCE	0.036	19.00
DCE → VC	0.039	18.00
VC → ETH	0.041	17.00

λ HELP

5. GENERAL

Simulation Time*	25	(yr)
Modeled Area Width*	800	(ft)
Modeled Area Length*	7500	(ft)
Zone 1 Length*	1000	(ft)
Zone 2 Length*	6500	(ft)

L, W

Zone 2= L - Zone 1

6. SOURCE DATA

TYPE: Continuous, Single Planar

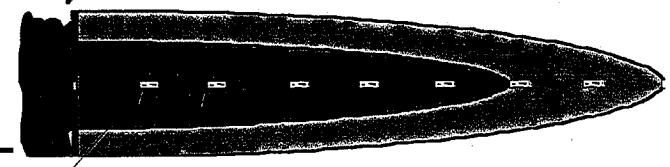
Source Options

Source Thickness in Sat. Zone* 20 (ft)

Width* (ft) Y1: 300

Conc. (mg/L)*	C1	k_s* (1/yr)
PCE		0
TCE	3.0	0
DCE	1.5	0
VC		0
ETH		0

Vertical Plane Source: Determine Source Well Location and Input Solvent Concentrations



View of Plume Looking Down

Observed Centerline Conc. at Monitoring Wells

7. FIELD DATA FOR COMPARISON

PCE Conc. (mg/L)											
TCE Conc. (mg/L)	1.0	.35	.02	.017							
DCE Conc. (mg/L)	.25	.35	.015	.012							
VC Conc. (mg/L)	0.0	.0									
ETH Conc. (mg/L)	0.0	.0									
Distance from Source (ft)	0	600	5000	7500							
Date Data Collected	2008										

8. CHOOSE TYPE OF OUTPUT TO SEE:

RUN CENTERLINE | RUN ARRAY | Help | Restore Formulas | RESET | SEE OUTPUT | Paste Example

Start Here → ○ PCE
○ TCE
◉ DCE
○ VC
○ ETH

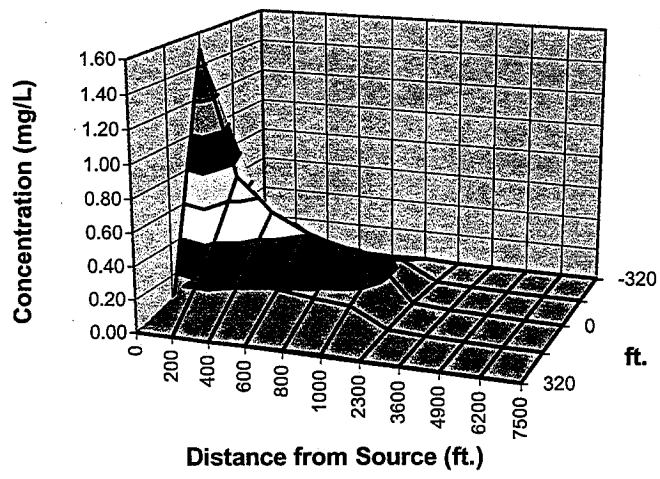
DISSOLVED SOLVENT CONCENTRATIONS IN PLUME

Transverse Distance (ft) ↓ / Distance from Source (ft)	0	200	400	600	800	1000	2300	3600	4900	6200	7500
320	0.000	0.000	0.002	0.006	0.011	0.014	0.009	0.008	0.007	0.007	0.006
160	0.000	0.298	0.232	0.195	0.169	0.148	0.028	0.019	0.014	0.012	0.010
0	1.500	0.724	0.521	0.411	0.336	0.280	0.041	0.025	0.018	0.014	0.011
-160	0.000	0.298	0.232	0.195	0.169	0.148	0.028	0.019	0.014	0.012	0.010
-320	0.000	0.000	0.002	0.006	0.011	0.014	0.009	0.008	0.007	0.007	0.006
MASS RATE (mg/day)	-	-	-	-	-	-	-	-	-	-	-

Show No Degradation

Show Biotransformation

Time: 25 yr Target Level: 0.070 mg/L Displayed Model: Biotransformation Displayed Compound: DCE



Plume Mass (Order-of-Magnitude Accuracy)

See Gallons

Plume Mass if No Degradation	121.7	(Kg)
- Plume Mass if Biotransformation/Production	63.5	(Kg)
Mass Removed	58.2	(Kg)
% Biotransformed =	+47.8%	
% Change in Mass Rate =	#VALUE!	(source to edge)

If "Can't Calc." make model area longer

See acre ft

Current Volume of Ground Water in Plume	Can't Calc.	MGal
Flow Rate of Water Through Source Area	0.051	MGD

Compare to Pump and Treat

Pumping Rate		(gpm)
# Pore Volumes Removed Per Yr.		
# Pore Volumes to Clean-Up		
Clean-Up Time		(yr)

Plot All Data Plot Data > Target Mass HELP To Centerline Return to Input

Attachment 2

Post-Remediation Biochlor Model Input and Output

MNA analysis for water quality at property line

BIOCHLOR Natural Attenuation Decision Support System

Version 2.2
Excel 2000

Fmr Warner Elec.
Roscoe, IL
Run Name

Data Input Instructions:

115 → 1. Enter value directly....or
↑ *or* ↘ 2. Calculate by filling in gray
0.02 cells. Press Enter, then (c)
(To restore formulas, hit "Restore Formulas" button)
Variable* → Data used directly in model.

Test if Biotransformation is Occurring → Natural Attenuation Screening Protocol

TYPE OF CHLORINATED SOLVENT: Ethenes ● Ethanes ○

1. ADVECTION

Seepage Velocity*	Vs	1651.3	(ft/yr)
or			
Hydraulic Conductivity	K	2.1E-01	(cm/sec)
Hydraulic Gradient	i	0.0019	(ft/ft)
Effective Porosity	n	0.25	(-)

2. DISPERSION

Alpha x*	50	(ft)
(Alpha y) / (Alpha x)*	0.1	(-)
(Alpha z) / (Alpha x)*	5.E-02	(-)

Calc. Alpha x

3. ADSORPTION

Retardation Factor* → R

or

Soil Bulk Density, rho	1.7	(kg/L)		
FractionOrganicCarbon, foc	1.0E-3	(-)		
Partition Coefficient	Koc			
PCE	426	(L/kg)	3.90	(-)
TCE	130	(L/kg)	1.88	(-)
DCE	125	(L/kg)	1.85	(-)
VC	30	(L/kg)	1.20	(-)
ETH	302	(L/kg)	3.05	(-)
Common R (used in model)* =			**1.88**	

4. BIOTRANSFORMATION -1st Order Decay Coefficient*

Zone 1	λ (1/yr)	half-life (yrs)	Yield
PCE → TCE	0.877	0.79	0.79
TCE → DCE	0.936	0.74	0.74
DCE → VC	1.083	0.64	0.64
VC → ETH	1.540	0.45	0.45

Zone 2	λ (1/yr)	half-life (yrs)
PCE → TCE	0.035	20.00
TCE → DCE	0.036	19.00
DCE → VC	0.039	18.00
VC → ETH	0.041	17.00

λ HELP

5. GENERAL

Simulation Time*	25	(yr)
Modeled Area Width*	800	(ft)
Modeled Area Length*	7500	(ft)
Zone 1 Length*	1000	(ft)
Zone 2 Length*	6500	(ft)

Zone 2= L - Zone 1

6. SOURCE DATA TYPE: Continuous Single Planar

Source Options

Source Thickness in Sat. Zone* 10 (ft)

Width* (ft) Y1 100

Conc. (mg/L)*	C1	k_s* (1/yr)
PCE		0
TCE	.1	0
DCE		0
VC		0
ETH		0

Vertical Plane Source: Determine Source Well Location and Input Solvent Concentrations

View of Plume Looking Down

Observed Centerline Conc. at Monitoring Wells

7. FIELD DATA FOR COMPARISON

PCE Conc. (mg/L)											
TCE Conc. (mg/L)	1.0	.35	.02	.017							
DCE Conc. (mg/L)	.25	.35	.015	.012							
VC Conc. (mg/L)	0.0	.0									
ETH Conc. (mg/L)	0.0	.0									
Distance from Source (ft)	0	600	5000	7500							
Date Data Collected	2008										

8. CHOOSE TYPE OF OUTPUT TO SEE:

RUN CENTERLINE | RUN ARRAY | Help | Restore Formulas | RESET | SEE OUTPUT | Paste Example

Start Here → ○ PCE
◉ TCE
○ DCE
○ VC
○ ETH

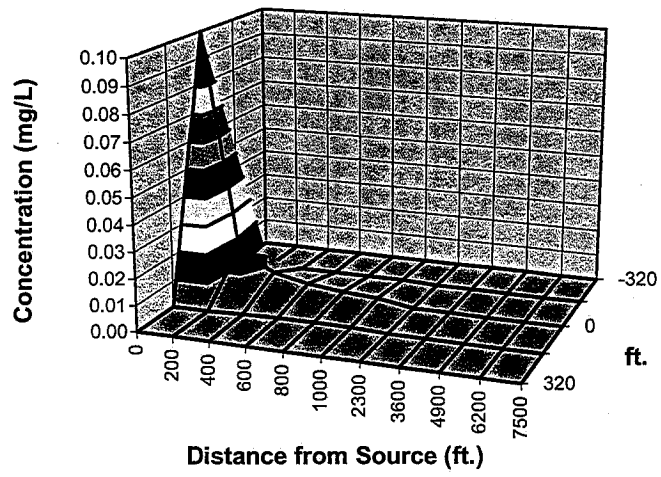
DISSOLVED SOLVENT CONCENTRATIONS IN PLUME

Transverse Distance (ft) ↓ / Distance from Source (ft)	0	200	400	600	800	1000	2300	3600	4900	6200	7500
320	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
160	0.000	0.000	0.001	0.001	0.001	0.001	0.000	0.000	0.000	0.000	0.000
0	0.100	0.016	0.008	0.005	0.003	0.002	0.000	0.000	0.000	0.000	0.000
-160	0.000	0.000	0.001	0.001	0.001	0.001	0.000	0.000	0.000	0.000	0.000
-320	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
MASS RATE (mg/day)	-	-	-	-	-	-	-	-	-	-	-

Show No Degradation

Show Biotransformation

Time: 25 yr Target Level: 0.005 mg/L Displayed Model: Biotransformation Displayed Compound: TCE



Plume Mass (Order-of-Magnitude Accuracy)

See Gallons

Plume Mass If No Degradation	0.9	(Kg)
- Plume Mass If Biotransformation/Production	0.4	(Kg)
Mass Removed	0.5	(Kg)
% Biotransformed =	+52.4%	
% Change in Mass Rate =	#VALUE!	(source to edge)

If "Can't Calc" make model area longer

See acre ft

Current Volume of Ground Water in Plume	2.39	MGal
Flow Rate of Water Through Source Area	0.008	MGD

Compare to Pump and Treat

Pumping Rate		(gpm)
# Pore Volumes Removed Per Yr.	0.00	
# Pore Volumes to Clean-Up		
Clean-Up Time		(yr)

Plot All Data Plot Data > Target Mass HELP To Centerline Return to Input