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TRANSMITTAL LETTER

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To:	Michael Schmoller Project Manager Wisconsin Department of Natural Resources South Central Region 3911 Fish Hatchery Road Fitchburg, WI 53711	**Date:** **Project No:** **Project Name:**	February 28, 2018 266431 Phase 4 Madison-Kipp Corporation Groundwater and Soil Vapor Extraction and Treatment Systems BRRTS No. 02-13-558625 Facility ID No. 113125320

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Enclosed is a hard copy of the Operations, Monitoring, and Maintenance Semi-Annual Report for the period of July 1, 2017 – December 31, 2017 for the Madison-Kipp Corporation.

Please contact me at 608-826-3665 if you have any questions.

Sincerely,

Andrew Stehn
Project Engineer

cc: Mark Sheppard – Madison-Kipp Corporation (electronic)

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Operations, Monitoring, and Maintenance Semi-Annual Report

July 1, 2017 – December 31, 2017

Madison-Kipp Corporation
Groundwater, Soil Vapor, and Treatment Systems
Facility ID No. 113125320, BRRTS No. 02-13-558625

February 2018

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Section 1
Introduction

TRC Environmental Corp. (TRC), on behalf of Madison-Kipp Corp. (MKC), is reporting on the operation, monitoring, and maintenance (OM&M) of the groundwater, soil vapor extraction and treatment system operations at MKC's facility at 201 Waubesa Street, Madison, Wisconsin (Site).

1.1 Site Description

The Site is located in the southwest quarter of Section 5, Township 7 North, Range 10 East in Dane County, Wisconsin. The Site Location Map is shown on Figure 1. The Site is approximately 7.5 acres in area, with a 130,000 square foot building occupying much of the Site. The building has a basement and a second floor over part of the footprint. There is a second 6,000 square foot building in the northeast corner of the property, housing the Groundwater Extraction Treatment System (GETS) and storage. The remainder of the Site is predominately paved in asphalt for driveways and parking lots. The Site is zoned M-1 (industrial/manufacturing), and is currently operated as a metal die casting facility.

The Site is surrounded by a mix of commercial, industrial, and residential land use. The Site is bounded by the Capital City Bike Trail to the north, residences to the east, Atwood Avenue to the south, and Waubesa Street to the west. The Goodman Community Center is located to the north across the Capital City Bike Trail. Residences are located adjacent to the east and west sides of the Site. Commercial properties are located to the south.

The Site is located on the northeastern end of the Madison Isthmus, which is a narrow strip of land separating Lake Mendota and Lake Monona. The Site is approximately 1,500 feet north of Lake Monona and approximately 6,800 feet east of Lake Mendota. These two lakes are the hydrologic boundaries for the Site. The topography of the Site is flat, with an elevation ranging from approximately 870 to 880 feet above mean sea level. The Site and surrounding areas are serviced by municipal water supply and sewer systems.

1.2 Site Background

Environmental investigation and remediation activities have been on-going at the Site since 1994. Investigation activities included defining the extent of tetrachloroethene (PCE) and, beginning in 2012, polychlorinated biphenyls (PCBs), polycyclic aromatic hydrocarbons (PAHs) and Resource Conservation and Recovery Act metals (RCRA Metals). A complete summary of the project background, including the on-site and off-site investigations is included in the 2015

Annual Report submitted to the Wisconsin Department of Natural Resources (WDNR) on April 12, 2016 by Arcadis U.S., Inc. (Arcadis, 2016) and in previous reports referenced therein.

The Site active remediation systems include a Soil Vapor Extraction System (SVE) and a Groundwater Extraction Treatment System (GETS). The SVE system began permanent continuous operation in May 2013 and has been operating since then. In 2015, Arcadis completed the installation of the GETS at the Site, and conducted testing from July 2015 start-up through December 2015. During the start-up period, the system was operated at its 45 gallon per minute (gpm) capacity, but was occasionally offline for system optimization and equipment repairs/modification. The GETS has operated full-time since January 2016.

1.3 Offsite Sub-slab Depressurization System Inspections

MKC currently completes annual inspections of off-site sub-slab depressurization systems installed at five properties along Marquette Street. Annual inspections were completed at the five properties during the 2017 calendar year.

1.4 Purpose and Scope

On-going OM&M activities are completed to monitor the status of soil gas and groundwater conditions at the Site and to ensure the treatment systems are operating as designed and in compliance with regulatory standards. OM&M activities include: GETS operation and monthly Discharge Monitoring Reports, SVE operation, semi-annual Site groundwater monitoring, and annual Site soil gas monitoring. The purpose of this Semi-Annual Report is to provide documentation of OM&M activities performed during July 1 through December 31, 2017.

This Semi-Annual Report describes:

- GETS OM&M,
- SVE OM&M,
- Groundwater Monitoring,
- Site Soil Gas Monitoring, and
- Conclusions and Recommendations.

Section 2
GETS OM&M

MKC is operating a GETS system for extraction and treatment of PCE-impacted groundwater. The system was installed in 2015 and is described in detail in Groundwater Extraction and Treatment System (GETS) Construction Documentation Report (Arcadis, 2015b).

2.1 System Operation

Over the period of July 1 through December 31, 2017, the GETS was generally operated at 45 gpm. The extraction and transfer pumps for the GETS contain variable speed frequency drives that fluctuate based on liquid levels in the equalization and mixing tank along with the air stripper liquid level. At times the flow will fluctuate above and below the design rate over a few days' time, however, the overall weekly to monthly flow rate is generally consistent.

In addition, the flow rate was adjusted occasionally to 40 gpm while repairs were made to the SVE system. The vapors extracted from the SVE system are combined with vapors generated from the air stripper for the GETS operation and treated by two 2,000 pound activated carbon vessels installed in series. To ensure proper operation of the air stripper, a booster blower is installed downstream of the stripper to overcome back pressure from the SVE system. At times when the SVE system shuts down, the water level in the air stripper increases due to lack of back pressure downstream of the blower. The booster blower during this time can pull water from the top portion of the air stripper into the vapor phase carbon vessels.

Intermittently during the reporting period while the SVE system was down, the extraction pump was operated at 40 gpm to keep water from being extracted from the upper portion of the air stripper. Once the SVE system was repaired the flow was adjusted back to 45 gpm. In total during this reporting period, the GETS was operated at 40 gpm for approximately 12 days.

The GETS system was occasionally shut down due to routine maintenance and repairs. During this reporting period the following GETS repairs and maintenance tasks were completed:

- the peroxide metering pump diaphragm was replaced to improve operation;
- the sequestrate metering pump diaphragm was replaced to improve operation;
- minor shut downs occurred due to system faults related to air bubbles in the peroxide feed line, the pump was primed and the system was restarted; and
- the air stripper unit was cleaned.

The location of the extraction well (GWE-1) for the GETS is identified on Figure 2. MKC personnel complete weekly monitoring of the GETS and an operations summary table is included in Table 1.

A total of approximately 9,836,627 gallons of groundwater were treated between July 1, 2017 and December 31, 2017. During this reporting period approximately 158 pounds of VOCs were removed. From the start of the system through the end of December 2017, approximately 660 pounds of VOCs have been removed through operation of the GETS. A trend plot depicting the cumulative VOCs removed over time since the start-up of the GETS system is included in Trend Plot A.1 of Appendix A. In addition, the trend plot showing PCE concentration verses time for the groundwater extraction well (GWE-1) is included in Trend Plot A.2 of Appendix A. Additional system operation information is noted in the attached Remediation Site Operation, Maintenance, Monitoring, and Optimization Report Form 4400-194 in Appendix B.

2.2 Monthly Discharge Monitoring Reports

MKC completes monthly performance monitoring and submits monthly Discharge Monitoring Reports (DMRs) required for the system operation and discharge permit (Wisconsin Pollution Discharge Elimination System (WPDES) Permit number WI-0046566-6).

For performance monitoring and permit compliance, MKC personnel collect samples of the extracted groundwater (GETS influent) and treated groundwater (GETS effluent) on a monthly basis. Table 2 provides the influent and effluent laboratory analytical results for this reporting period. The sampling frequency and monitoring parameters collected were completed as approved by the WDNR in June 2017. Parameters included monthly monitoring of volatile organic compounds along with visual monitoring for sodium permanganate neutralization and quarterly monitoring of oil and grease, biological oxygen demand, total suspended solids, chloride, and select polycyclic aromatic hydrocarbons.

The DMRs for July through December 2017 were submitted to the WDNR on August 3, 2017, September 7, 2017, October 6, 2017, November 6, 2017, December 6, 2017, and January 15, 2018 with their respective laboratory analytical reports. A copy of the last submittal from the December 2017 monitoring event is included in Appendix C.

During the December 2017 monitoring event, one exceedance for the PAH Group 10 was reported. Upon review of the data the WDNR was notified within 24 hours of the exceedance. The detected PAH parameter was phenanthrene and was reported in the effluent at a concentration of 0.41 µg/L. This parameter has only been detected in the influent sample on two occasions and in the effluent on one occasion. These detections were observed in July and August of 2015 (system start up), and all three detections were reported with 'J' and/or 'B' qualifiers and were reported at

concentrations below the permit limitation. Based on this information, no significant changes to the GETS operation, and a discussion with the WDNR, MKC is completing further monitoring of PAHs to ensure the GETS is operating in compliance with the WPDES permit.

2.3 Monthly Vapor Sampling

The SVE system and GETS produce gases which are combined and treated with granular activated carbon (GAC) for removal of vapor-phase volatile organic compounds (VOCs). The GAC influent and GAC effluent gas are sampled on a monthly basis for performance and compliance monitoring. An analytical summary table with influent and effluent results are included in Table 3 and the laboratory analytical reports are included in Appendix D. The influent and effluent concentration of total VOCs compared to time, is provided in Trend Plot A.3 in Appendix A. An emission rate was calculated based on the effluent analytical results and combined system flow rate; and results were compared to NR 445 and NR 406. No regulatory standards for effluent emissions from the combined systems were exceeded. Tables 4 through 8 include a summary of the monthly emission rates for total VOCs, PCE, trichloroethene (TCE), cis-1,2, dichloroethene (cis-1,2-DCE), and vinyl chloride (VC) for this reporting period.

TRC continues to assess the influent and effluent concentrations of VOCs to evaluate the GAC component of the treatment system. The evaluation thus far has concluded that the activated carbon is approaching the end of its life as PCE continues to be reduced but breakdown products (e.g. TCE, cis-1,2-DCE, and VC) are not being reduced as effectively, although they still remain below applicable standards. During this reporting period's evaluation, loading rates for total VOCs, PCE, TCE, cis-1,2-DCE, and VC were calculated based on the influent results (pre-carbon treatment). Currently, with the GETS and SVE systems in operation together, the gas concentrations measured pre-carbon treatment are below the established NR 445 and NR 406 regulatory standards. A summary of these calculations are included in Table 9 through 13.

In addition, during this reporting period between September and December 2017, the gases generated from the GETS only were also monitored to determine what contribution the GETS has to the overall combined influent results. Overall, the monitoring to date shows that gases generated from the air stripper system only, assuming the same overall system air flow rate, do not generate an emissions rate, resulting in an exceedances of the NR 445 and 406 emission standards for total VOCs, PCE, TCE, cis-1,2-DCE, or VC. Table 14 includes a summary of the gases generated from the only air stripper system (pre-treatment). The GETS gas concentration will be monitored on occasion during the next reporting period and if emissions from the GETS only stay consistent, removal of the GAC component may be recommended but will also be dependent on the SVE system component as discussed in Section 3.2.

Section 3
SVE OM&M

MKC is operating an SVE system for extraction and treatment of shallow soil vapor on the east-northeast portion of the Site. The system began permanent operation in May 2013 and has been in operation since.

3.1 System Operation

The SVE system was operated on a continuous basis during this reporting period, with the exception of occasional maintenance shut-downs to complete general maintenance and repairs. At times during the reporting period the transfer pump for the system vapor liquid separator required repairs to ensure continued operation of the SVE system. Repairs to the system were made between July 1 and 6, and December 15 and 21, 2017. Weekly system operation readings are obtained by MKC personnel and a summary of the operational parameters are included in Table 15. VOCs were monitored in the gas removed from each soil vapor extraction well on a monthly basis using a Photoionization Detector (PID). Readings for extraction wells SVE-1, SVE-2, and SVE 6 through SVE-9 were generally reported below or around one parts per million (ppm) during this reporting period. Extraction wells SVE 3 though SVE 5 showed higher concentrations with readings ranging above 2 ppm to 9 ppm.

3.2 Monthly Vapor Sampling

The treatment and sampling of the gases removed from the SVE system are combined with the GETS and treated as described in Section 2.3. However, since the start of the GETS, the SVE influent (consisting of combined gas extracted from nine SVE wells) has been monitored on five occasions (September and December of 2016, and March, May, and September of 2017) to determine the removal rates of VOCs by the SVE system. This was completed as an initial step to potentially phase out the SVE system from site operations. A concentration versus time trend plot for the combined influent is included in Appendix E for reference.

In review of the historical data along with the recent monitoring through May of 2017, there appeared to be episodic valleys that occur followed by increases in total VOC concentrations. An additional sample was collected in September 2017 to determine if this increase is still occurring at the Site. Results indicated that the total VOC concentrations being removed from the entire system remain low. The concentrations of VOCs from the SVE system have fluctuated since 2013 but over the last few years concentrations have remained low with removal rates ranging between 0.0002 to 0.002 pounds per hour of removal. This removal rate

may be biased slightly high as the total VOC summation includes the concentrations of all detected parameters and half the detection limit for all parameters reported below the detection limit. Based on the data collected between September 2016 and May 2017 the removal rate of the system ranged between 1.8 to 21 pounds per year but on average would equate to approximately 7 pounds per year as very low concentrations have been observed more frequently. Results from the September 2017 monitoring, confirmed the approximate removal of 7 lbs per year. A table summarizing the SVE combined influent concentrations and loading rates between 2016 and 2017 is included in Appendix E (Table 1).

The soil gas monitoring completed on an annual basis, which is further discussed in Section 5 in conjunction with the SVE removal rates, continues to be reviewed to determine if phasing out the SVE system would have an effect on soil gas concentrations migrating at the site. Overall, results collected from the vapor probes currently in the annual monitoring program indicate that PCE, TCE, and cis-1,2 DCE are present at the site. However, VP-102 is the only location where residential exceedences for deep soil gas have been reported in recent years. No exceedences of chlorinated VOCs for non-residential deep soil gas have been reported. Soil vapor extraction well SVE-2 is located in close proximity to VP-102 (approximately 15 feet – Appendix E, Figure E-1). PID readings collected on a monthly basis from SVE-2 have not indicated significant VOC concentrations over the last few years and generally have been observed at concentrations less than one part per million (ppm).

Between September and December 2017, gas samples were collected from vapor extraction well SVE-2 to determine the effectiveness of the SVE system in proximity to VP-102. Concentrations in the SVE-2 samples indicated that CVOCs are being removed from the soil gas within the proximity of VP-102 but based on the concentrations observed, removal rates remain minimal overall (1.2 lb/yr total VOCs compared to the overall system 6.9 lb/yr total VOCs). A summary table of the data collected from extraction well header SVE-2 is included in Appendix E (Table E-2).

Additional system operation information is noted in the attached Remediation Site Operation, Maintenance, Monitoring, and Optimization Report Form 4400-194 in Appendix B. Laboratory analytical results for vapor sampling completed during this reporting period are included in Appendix D.

Section 4
Groundwater Monitoring

The 2017 groundwater monitoring program at the Site, which included water level gauging and sampling, was conducted as described in the Proposed Modification to Performance Monitoring Plan (TRC, 2017) and as summarized in Table 16.

The Site contains 42 monitoring wells, 4 multi-port wells, and one operational extraction well (GWE-1). The wells are installed in unconsolidated units and/or bedrock and their locations are shown on Figure 2. The Site's near-surface geology consists of two unconsolidated units consisting of fill material and glacially-derived deposits, which overlie three bedrock formations (Lone Rock, Wonewoc, and Eau Claire). Further information on the site geology is included in the 2014 Annual Report (Arcadis, 2015a) and in previous reports referenced therein.

4.1 Groundwater Flow Conditions

Water levels at 42 Site monitoring wells and 20 multi-port well intervals were gauged on October 2, 2017. The groundwater elevations are summarized in Table 17, and the October 2017 water table map and potentiometric surface maps are shown on Figures 3 through 7. Overall, the groundwater elevations and the direction of groundwater flow in October 2017 are generally consistent with historical observations. Groundwater flow at the water table converges toward the site from the north and west (Figure 3). Groundwater flow in the Upper Lone Rock formation is generally to the north-northeast (Figure 4). The extraction well (GWE-1) has a local influence on flow within the Lower Lone Rock, Upper Wonewoc, and Lower Wonewoc formations, causing flow to generally converge toward the extraction well (Figures 5 through 7).

4.2 Monitoring Well Network and Sampling Program

Groundwater sampling was conducted in wells within the unconsolidated units, Lone Rock formation, and the Wonewoc formation for geochemical field parameters and chemical analyses for VOCs. These monitoring wells were sampled to evaluate the effectiveness of the GETS operation—which was installed to remove VOCs from the groundwater and provide hydraulic containment to minimize off-site migration—and to evaluate the overall site-wide water quality. In total, 25 site monitoring wells and 18 multi-port well intervals were monitored as summarized in Table 16.

- Monitoring wells monitored within the unconsolidated units or just below included: MW-1, MW-3S, MW-6S, MW-22S, and MW-23S.

- Monitoring wells/multiports monitored within the Lone Rock formation included: MW-2D, MW-3D, MW-3D2, MW-4D2, MW-5S, MW-5D, MW-6D, MW-9D, MW-9D2, MP-13 [port 5 (81-85), port 6 (67-71), and port 7 (44-48)], MW-22D, and MW-23D.
- Monitoring wells/multiports monitored within the Wonewoc Formation and into the Upper portion of the Eau Claire formation included: MW-3D3, MW-5D2, MW-5D3, MW-17, MW-25D, MW-25D2, MW-27D, MW-27D2, MP-13 [port 1 (163-167), port 2 (135-139), port 3 (121-125), and port 4 (102-106)], MP-14 [port 1 (170-178), port 2 (135-140), port 3 (100-105)], MP-15 [port 1 (177-187), port 2 (142-146), port 3 (120-125), port 4 (100-105), and port 5 (88-92)], and MP-16 [port 1 (175-179), port 2 (140-144), and port 3 (106-116)].
- As part of the monitoring program, GWE-1 was sampled in accordance with the monthly permit compliance.

In addition, ten of the site wells were monitored for polychlorinated biphenyls (PCBs), total suspended solids (TSS), total dissolved solids (TDS), and geochemical field parameters per the request of MKC. The ten wells sampled are located in the unconsolidated or Lone Rock unit/formation and included: MW-4S, MW-4D, MW-6S, MW-11S, MW-22S, MW-22D, MW-23S, MW-23D, MW-24, and MW-28.

4.3 Groundwater Sampling Results

The results from the groundwater sampling to date are included in Table 18, and the laboratory analytical reports for the October 2017 monitoring event are included in Appendix F. Table 19 includes the 2018 groundwater monitoring plan.

Multiple NR 140 preventative action limit (PAL) and enforcement standard (ES) exceedances for VOCs were reported. The laboratory analytical results from the October 2017 monitoring event are generally consistent with historical results. The overall concentration of PCE over time was reviewed for each Site well sampled during the second half of 2017, and a brief description for each unit/formation is included in the sub-sections below. Appendix A includes a trend plot (A.4) indicating PCE concentrations over time for multi-port MP-13 Port 2 (135-139) which contained the highest concentration of PCE during the October 2017 monitoring event.

Isoconcentration maps for PCE for the Water Table (Unconsolidated), Upper Lone Rock, Lower Lone Rock, Upper Wonewoc, and Lower Wonewoc are shown in Figures 8 through 12, respectively. The contours are based on the October 2017 monitoring event.

Figure 13 includes two cross-sections (A-A' and B-B') displaying the vertical PCE concentration extents based on the October 2017 groundwater monitoring. Figure 2 shows the location of the wells and the cross-sections.

4.3.1 Water Table (Unconsolidated) VOC Monitoring Results

Results for wells monitored within the unconsolidated unit or just below indicate that PCE concentrations generally show decreasing trends over time or are comparable to the historical results. Concentrations of PCE were reported above the ES for monitoring wells MW-3S, MW-22S, and MW-23S, above the PAL for monitoring well MW-1, and non-detect for monitoring well MW-6S.

4.3.2 Lone Rock Formation VOC Monitoring Results

Results for wells monitored within the Lone Rock formation indicate that PCE concentrations generally show decreasing trends over time or are comparable to the historical results. Concentrations of PCE were reported above the ES for monitoring wells MW-2D, MW-3D, MW-5S, MW-5D, MW-6D, MW-9D2, MP-13 [port 5 (81-85), port 6 (67-71), and port 7 (44-48)], MW-22D, and MW-23D and above the PAL for monitoring well MW-3D2 and MW-4D2.

4.3.3 Wonewoc Formation VOC Monitoring Results

Results for wells monitored within the Wonewoc Rock formation indicate that PCE concentrations generally show decreasing trends over time or are comparable to the historical results. Concentrations of PCE were reported above the ES for monitoring wells MW-5D2, MW-17, MW-27D2, MP-13 [port 1 (163-167), port 2 (135-139), port 3 (121-125), and port 4 (102-106)], MP-14 [port 1 (170-178), port 2 (135-140)], MP-15 [port 1 (177-187), port 2 (142-146), port 3 (120-125), port 4 (100-105), and port 5 (88-92)], and MP-16 [port 2 (140-144), and port 3 (106-116)], above the PAL for monitoring wells MW-27D, and MP-16 [port 1 (175-179)], and below the PAL for monitoring wells MW-25D, MW-25D2, and MP-14 [port 3 (100-105)].

4.3.4 Upper Eau Claire Formation VOC Monitoring Results

MW-3D3 and MW-5D3 are screened in the lower portion of the Wonewoc and upper portion of the Eau Claire formations. Results for these wells report no PCE concentrations above the NR 140 ES or PAL, and are consistent with historical results.

4.3.5 PCB Monitoring Results

Seven of the ten monitoring wells monitored for PCBs reported no detections above the method detection limits and therefore no exceedance of the NR 140 ES or PAL was reported. MW-22S, MW-22D and MW-23S reported detections above the NR 140 ES. However, based on the location of these wells, concentrations are attributed to well installation through soils with high PCB concentrations and are not an indication of PCBs migrating in groundwater at the Site. Based on the Stipulation and Order for Judgement entered on November 27, 2017 between the State of Wisconsin and MKC, MW-22S, MW-22D, MW-23S, and MW-23D will be abandoned and a new well nest (MW-29S and MW-29D) will be installed for future PCB monitoring.

Section 5
Soil Gas Monitoring

The 2017 annual soil gas monitoring program at the Site was conducted as described in the 2015 Annual Report (Arcadis, 2016). However, VP-126 was removed from the monitoring program in 2017 as approved by the WDNR on July 17, 2017.

5.1 Monitoring Network and Sampling Program

On July 25, 2017, TRC collected soil gas samples from six of the site vapor probes. The sampled probes included: VP-1N, VP-1S, VP-2N, VP-6, VP-102, and VP-210. In addition, one duplicate sample was collected from VP-102. The locations of the wells are shown on Figure E-1 of Appendix E.

Soil gas samples were collected from the six probes over an approximate 30 minute interval using 6-liter laboratory provided Summa® canisters. Each sample was analyzed for PCE, TCE, cis-1, 2 DCE, trans-1, 2-dichloroethene (trans-1, 2 DCE), and VC using Environmental Protection Agency (EPA) Method Toxic Organic (TO)-15. Each sample was collected by TRC and analyzed by Eurofins Air Toxics Inc. of Folsom, California. A summary table of the soil gas analytical results through July 2017 and the laboratory analytical report from the 2017 monitoring event are included in Table 20 and Appendix G, respectively.

5.2 Soil Gas Sampling Results

Overall, in comparison to historical data, soil gas monitoring results at the site show:

- The soil gas sampled from the vapor probes VP-1N and -2N contained no detections of PCE, TCE, cis-1, 2 DCE, trans-1, 2 DCE, or VC above the method detection limits.
- The soil gas sampled from the vapor probe VP-1S and VP-210 contained detections of PCE at concentrations below the Wisconsin residential deep soil gas vapor action level.
- The soil gas sampled at VP-6 contained PCE and TCE at concentrations below the Wisconsin non-residential deep soil gas vapor action level. The vapor monitoring point is compared to the non-residential vapor action level based on its location.
- The soil gas sampled at VP-102 contained PCE and TCE at levels above the Wisconsin residential deep soil gas vapor action level. PCE was reported at a concentration of 820 parts per billion by volume (ppbv) and TCE was reported at a concentration of 75 ppbv.

Section 6
Conclusions and Recommendations

6.1 Conclusions

The OM&M activities for the SVE and GETS were completed as required at the Site during this reporting period. Both systems operated continuously throughout this reporting period, with the exception of repairs and routine maintenance as noted.

Site groundwater monitoring was completed in October 2017. As additional monitoring events are completed, further data and concentration verses time analyses will be completed to continue to evaluate the effectiveness of the GETS. As of December 2017, the GETS has been in operation for approximately two and half years. The GETS is influencing local groundwater flow within the Lower Lone Rock, Upper Wonewoc, and Lower Wonewoc formations.

Overall groundwater monitoring indicates that the groundwater quality at the Site is consistent with historical results, and groundwater quality is improving proximate to the groundwater extraction well. Particularly, groundwater quality is improving in the Lower Lone Rock formation at MW-3D2 and MW-5D. The influence of the GETS operation is seen on the PCE concentration trends at wells adjacent GWE-1 and as shown on Figures 10 -13. Groundwater monitoring will continue and results will be evaluated to determine the effectiveness of the GETS and if there are impacts to groundwater not being addressed by the remediation system.

6.2 Recommendations

Based on the results of the July through December 2017 OM&M, no immediate actions are required and OM&M is planned to continue in 2018. Work planned for 2018 includes the following:

- GETS operation;
- SVE system operation (at least first half of 2018, see discussion following);
- Compliance monitoring;
- Groundwater monitoring (as outlined in Table 19);
- Soil gas monitoring;
- Annual inspections of the off-site sub-slab depressurization systems; and
- Semi-annual reporting.

The following Site OM&M items continue to be reviewed and potential modifications are as described:

- Soil gas recovered from the SVE system was monitored periodically during the second half of 2017. Based on results obtained and initial evaluation of the system, TRC recommends continued evaluation of the SVE system be completed for the first part of the 2018 calendar year. Select SVE gas monitoring is recommended to evaluate the SVE system effectiveness and performance. Periodic monitoring of the SVE influent gas from the combined header (pre-treatment) and select individual extraction wells is recommended for the first half of 2018. Following evaluation select modifications and/or operational requirements will be recommended.
- TRC recommends that the influent gas (pre-carbon treatment) from the GETS (not combined with the SVE) continue to be monitored periodically for the first half of the 2018 calendar year. This monitoring will be completed in conjunction with the combined (SVE and GETS) influent and effluent monitoring currently being completed on a monthly basis. This activity is being completed to determine the need of the carbon adsorption system for the treatment of gas from the GETS.

Section 7
References

Arcadis U.S., Inc. 2015a. *2014 Annual Report, Madison-Kipp Corporation, 201 Waubesa Street, Madison, Wisconsin.* March 2015.

Arcadis U.S., Inc. 2015b. *Groundwater Extraction and Treatment System (GETS) Construction Documentation Report, Madison-Kipp Corporation, 201 Waubesa Street, Madison, Wisconsin.* November 19, 2015.

Arcadis U.S., Inc. 2016. *2015 Annual Report, Madison-Kipp Corporation, 201 Waubesa Street, Madison, Wisconsin.* April 12, 2016.

TRC Environmental Corporation. 2017. *Proposed Modification to Performance Monitoring Plan, 201 Waubesa Street, Madison, Wisconsin.* March 7, 2017.

Table 1
Summary of Groundwater Extraction System Operation and Mass Removal
Madison Kipp Corporation
201 Waubesa Street
Madison, Wisconsin

DATE		GROUNDWATER DISCHARGED THIS PERIOD (gal)	CUMULATIVE GROUNDWATER DISCHARGED (gal)[1]	AVERAGE DISCHARGE FLOW RATE[2],[5] (gpd)	AVERAGE DISCHARGE FLOW RATE[2],[5] (gpm)	INFLUENT SAMPLE RESULTS[3] VOCs (µg/L)	EFFLUENT SAMPLE RESULTS[3] VOCs (µg/L)	CUMULATIVE VOCs REMOVED[1],[4] (pounds)	COMMENTS
6/26/2017	6/26/2017 10:56	388,950	36,381,627	64,698	45	NS	NS	500	
7/11/2017	7/11/2017 9:30	--	--	--	--	1859	65.7	500	Meter reading recorded is not consistent with previous collected data, flow calculations not completed.
7/17/2017	7/17/2017 13:20	978,848	37,360,475	46,391	32	NS	NS	510	Between July 1, and July 24, 2017, the GETS had periodic shut downs due to the peroxide injection system.
7/24/2017	7/24/2017 11:00	270,585	37,631,060	39,199	27	NS	NS	520	
8/1/2017	8/1/2017 7:30	--	--	--	--	NS	NS	520	Meter reading recorded not consistent with previous collected data, flow calculations not completed.
8/7/2017	8/7/2017 7:15	612,130	38,243,190	44,217	31	1992	60.9	530	The GETS had periodic shut downs due to the peroxide injection system
8/15/2017	8/15/2017 11:45	--	--	--	--	NS	NS	530	Readings were taken from two different displays causing inaccurate flow rate calculation.
8/25/2017	8/25/2017 8:15	1,094,085	39,337,275	60,642	42	NS	NS	550	The GETS had periodic shut downs due to the peroxide injection system
8/29/2017	8/29/2017 8:15	121,545	39,458,820	30,386	21	NS	NS	550	The GETS had periodic shut downs due to the peroxide injection system
9/6/2017	9/6/2017 7:45	502,025	39,960,845	62,917	44	NS	NS	560	
9/11/2017	9/11/2017 8:30	281,460	40,242,305	55,942	39	1788	50.1	560	
9/21/2017	9/21/2017 9:21	618,151	40,860,456	61,597	43	NS	NS	570	
9/27/2017	9/27/2017 8:38	386,297	41,246,753	64,705	45	NS	NS	580	
10/5/2017	10/5/2017 7:30	--	--	--	--	2130	48.2	580	Readings were taken from two different displays causing inaccurate flow rate calculation.
10/9/2017	10/9/2017 11:21	783,861	42,030,614	64,711	45	NS	NS	590	
10/17/2017	10/17/2017 10:28	515,425	42,546,039	64,726	45	NS	NS	600	
10/23/2017	10/23/2017 8:14	382,172	42,928,211	64,699	45	NS	NS	600	
10/31/2017	10/31/2017 7:50	516,832	43,445,043	64,739	45	NS	NS	610	
11/6/2017	11/6/2017 10:38	354,464	43,799,507	57,951	40	NS	NS	620	GETS was operated at 40 gpm between November 1 and 6, 2017.
11/14/2017	11/14/2017 12:23	132,291	43,931,798	16,387	11	2423.2	37.4	620	The GETS was shutdown between November 7 and November 12 for maintenance.
11/21/2017	11/21/2017 9:20	309,483	44,241,281	45,029	31	NS	NS	630	The GETS flow rates was operated at 40 gpm for a period of time and shutdown due to air bubbles in the peroxide pump line.
11/28/2017	11/28/2017 10:30	--	--	--	--	NS	NS	630	Readings were taken from two different displays causing inaccurate flow rate calculation.
12/8/2017	12/8/2017 10:30	648,700	44,889,981	64,870	45	1813	48.7	640	
12/14/2017	12/14/2017 14:41	370,035	45,260,016	59,931	42	NS	NS	640	
12/18/2017	12/18/2017 12:13	--	--	--	--	NS	NS	640	GETS was operated at 40 gpm between December 15 and 21, 2017. Readings were taken from two different displays causing inaccurate flow rate calculation.
12/28/2017	12/28/2017 10:34	1,132,139	46,392,155	58,218	40	NS	NS	660	GETS was operated at 40 gpm between December 15 and 21, 2017.

Notes:

Updated By: B. Wachholz 1/30/2018
Checked By: A.Stehn 2/4/2018

The total gallons treated and VOCs removed by the GETS prior to January 2016 is further discussed in the *2015 Annual Report* (ARCADIS, April, 2016).
The GETS was shutdown between January 1 and 14, 2016 for groundwater extraction pump repairs. The system was restarted on January 14, 2016.
-- = Field reading recorded is not consistent with previous collected data and not used for calculations or system issues did not allow a reading to be obtained.
VOCs = Volatile Organic Compounds
WDNR = Wisconsin Department of Natural Resources
WPDES = Wisconsin Pollution Discharge Elimination System
DMR = Discharge Monitoring Report
GETS - Groundwater Extraction and Treatment System

Footnotes:

1. The cumulative groundwater treated through December 31, 2015 was 4,683,600 gallons and cumulative VOCs removed through December 31, 2015 was 61 pounds, as reported in the 2015 Annual Report (ARCADIS, April 2016).
2. The GETS standard operation is 45 gpm. The average discharge flow rate calculations noted take into account system down time and are based on volume of groundwater extracted and time elapsed between monitoring events.
3. Analytical laboratory reports were submitted to the WDNR each month during this reporting period with the WPDES DMR submittal (Permit WI-0046566-6).
4. Compliance sampling is completed on a monthly basis. For weeks where samples were not collected the previously obtained sampling data was used for cumulative VOCs calculations.
5. The extraction and transfer pumps for the GETS contain variable speed frequency drives that fluctuate based on liquid levels in the equalization and mixing tank along with the air stripper liquid level. At times the flow will fluctuate and readings collected over a few days time may reflect bias results for the overall system operation.

Table 2
GETS WPDES Compliance Sample Results
Madison-Kipp Corporation Site
201 Waubesa Street, Madison, Wisconsin

PARAMETER[3]	PERMIT DISCHARGE LIMITS	UNIT	LOCATION SAMPLE DATE																									
			INFLUENT 1/18/2016	EFFLUENT 1/18/2016	INFLUENT 2/8/2016	EFFLUENT 2/8/2016	INFLUENT 3/7/2016	EFFLUENT 3/7/2016	INFLUENT 4/6/2016	EFFLUENT 4/6/2016	INFLUENT 5/4/2016	EFFLUENT 5/4/2016	INFLUENT 6/7/2016	EFFLUENT 6/7/2016	INFLUENT 7/20/2016	EFFLUENT 7/20/2016	INFLUENT 8/8/2016	EFFLUENT 8/8/2016	INFLUENT 9/9/2016	EFFLUENT 9/9/2016	INFLUENT 10/10/2016	EFFLUENT 10/10/2016	INFLUENT 11/7/2016	EFFLUENT 11/7/2016	INFLUENT 12/7/2016	EFFLUENT 12/7/2016	INFLUENT 1/12/2017	EFFLUENT 1/12/2017
Miscellaneous																												
Oil & Grease	10	mg/L	1.7 JB	2.5 JB	0.68 JB	<0.57	1.6 J B	0.87 J B F1	1.3 J	0.86 J	1.0 J B	1.1 J B	<1.5	<1.4	1.8 J	1.6 J F1	2.4 J B	1.5 J F1 B	<1.4	<1.4	<1.4	<1.4	2.4 J	<1.4	<1.4	<1.4	2.6 J B	3.1 J B
Chloride	395	mg/L	110	140	100	110	100	100	100	100	100	100	100	98	100	70	110	110	110	110	110 B	110 B	120	120	110 B	100 B	110 B	110 B
Total Suspended Solids	40	mg/L	<1.6	<1.6	<1.6	<1.6	2.0 J	<1.6	<1.6	5.0	<1.6	<1.6	<2.5	5.5	2.5 J	2.5 J	19	<2.5	<2.5	4.0 J	2.5 J	15	5.0	3.0 J	<2.5	<2.5	<2.5	<2.5
Biological Oxygen Demand	20	mg/L	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
VOCs																												
1,1,1-Trichloroethane	50	µg/L	<1.9	<0.38	<1.9	<0.38	<1.9	<0.38	<1.9	<0.38	<1.9	<0.38	<0.76	<0.38	<1.9	<0.38	<0.76	<0.38	<1.9	<0.38	<1.9	<0.38	<1.9	<0.38	<0.76	<0.38	<0.76	<0.38
1,1,2,2-Tetrachloroethane	50	µg/L	<2.0	<0.40	<2.0	<0.40	<2.0	<0.40	<2.0	<0.40	<2.0	<0.40	<0.80	<0.40	<2.0	<0.40	<0.80	<0.40	<2.0	<0.40	<2.0	<0.40	<2.0	<0.40	<0.80	<0.40	<0.80	<0.40
1,1,2-Trichloroethane	50	µg/L	<1.8	<0.35	<1.8	<0.35	<1.8	<0.35	<1.8	<0.35	<1.8	<0.35	<0.70	<0.35	<1.8	<0.35	<0.70	<0.35	<1.8	<0.35	<1.8	<0.35	<1.8	<0.35	<0.70	<0.35	<0.70	<0.35
1,1-Dichloroethene	50	µg/L	<2.0	<0.39	<2.0	<0.39	<2.0	<0.39	<2.0	<0.39	<2.0	<0.39	<0.78	<0.39	<2.0	<0.39	<0.78	<0.39	<2.0	<0.39	<2.0	<0.39	<2.0	<0.39	<0.78	<0.39	<0.78	<0.39
1,2-Dichloroethane	180	µg/L	<2.0	<0.39	<2.0	<0.39	<2.0	<0.39	<2.0	<0.39	<2.0	<0.39	<0.78	<0.39	<2.0	<0.39	<0.78	<0.39	<2.0	<0.39	<2.0	<0.39	<2.0	<0.39	<0.78	<0.39	<0.78	<0.39
Benzene	50	µg/L	<0.73	<0.15	<0.73	<0.15	<0.73	<0.15	<0.73	<0.15	<0.73	<0.15	<0.29	<0.15	<0.73	<0.15	<0.29	<0.15	<0.73	<0.15	<0.73	<0.15	<0.73	<0.15	<0.29	<0.15	<0.29	<0.15
Bromodichloromethane	120	µg/L	<1.9	<0.37	<1.9	<0.37	<1.9	<0.37	<1.9	<0.37	<1.9	<0.37	<0.74	<0.37	<1.9	<0.37	<0.74	<0.37	<1.9	<0.37	<1.9	<0.37	<1.9	<0.37	<0.74	<0.37	<0.74	<0.37
Bromoform	120	µg/L	<2.2	<0.45	<2.2	<0.45	<2.2	<0.45	<2.2	<0.45	<2.2	<0.45	<0.89	<0.45	<2.2	<0.45	<0.89	<0.45	<2.2	<0.45	<2.2	<0.45	<2.2	<0.45	<0.89	<0.45	<0.89	<0.45
Bromomethane	NE	µg/L	<3.2	<0.65	<3.2	<0.65	<3.2	<0.65	<3.2	<0.65	<3.2	<0.65	<1.3	<0.65	<3.2	<0.65	<1.3	<0.65	<3.2	<0.65	<3.2	<0.65	<3.2	<0.65	<1.3	<0.65	<1.3	<0.65
Carbon Tetrachloride	150	µg/L	<1.9	<0.38	<1.9	<0.38	<1.9	<0.38	<1.9	<0.38	<1.9	<0.38	<0.77	<0.38	<1.9	<0.38	<0.77	<0.38	<1.9	<0.38	<1.9	<0.38	<1.9	<0.38	<0.77	<0.38	<0.77	<0.38
cis-1,2-Dichloroethene	NE	µg/L	14	18	<2.0	19	<2.0	19	<2.0	18	<2.0	17	<0.82	16	<2.0	18	<0.82	19	<2.0	19	<2.0	17	<2.0	22	<0.82	18	<0.82	14
Chloromethane	NE	µg/L	<1.6	<0.32	<1.6	<0.32	<1.6	<0.32	<1.6	<0.32	<1.6	<0.32	<0.64	<0.32	<1.6	<0.32	<0.64	<0.32	<1.6	<0.32	<1.6	<0.32	<1.6	<0.32	<0.64	<0.32	<0.64	<0.32
Ethylbenzene	NE	µg/L	<0.92	<0.18	<0.92	<0.18	<0.92	<0.18	<0.92	<0.18	<0.92	<0.18	<0.37	<0.18	<0.92	<0.18	<0.37	<0.18	<0.92	<0.18	<0.92	<0.18	<0.92	<0.18	<0.37	<0.18	<0.37	<0.18
Tetrachloroethene	50	µg/L	2500	46	2300	43	2500	40	2000	34	1700	38	1500	36	1600	37	1200	35	1600	39	1600	32	1600	35	1700	28	1300	21
Toluene	NE	µg/L	<0.76	<0.15	<0.76	<0.15	<0.76	<0.15	<0.76	<0.15	<0.76	<0.15	<0.30	<0.15	<0.76	<0.15	<0.30	<0.15	<0.76	<0.15	<0.76	<0.15	<0.76	0.93	<0.30	<0.15	<0.30	<0.15
Total Xylenes	NE	µg/L	<2.0	<0.40	<2.0	<0.40	<2.0	<0.40	<2.0	0.61 J	<2.0	<0.40	<0.80	<0.40	<2.0	<0.40	<0.80	<0.40	<2.0	<0.40	<2.0	<0.40	<2.0	<0.40	<0.80	<0.40	<0.80	<0.40
trans-1,2-Dichloroethene	NE	µg/L	<1.7	<0.35	<1.7	<0.35	<1.7	<0.35	<1.7	<0.35	<1.7	<0.35	<0.70	<0.35	<1.7	<0.35	<0.70	<0.35	<1.7	<0.35	<1.7	<0.35	<1.7	<0.35	<0.70	<0.35	<0.70	<0.35
Trichloroethene	50	µg/L	41	5.7	<0.82	6.4	<0.82	6.3	<0.82	5.6	<0.82	5.9	<0.33	5.4	<0.82	8.3	<0.33	7.2	<0.82	9.2	<0.82	5.8	<0.82	8.8	<0.33	6.5	0.68 J	5.5
Vinyl chloride	10	µg/L	<1.0	<0.20	<1.0	<0.20	<1.0	<0.20	<1.0	<0.20	<1.0	<0.20	<0.41	<0.20	<1.0	<0.20	<0.41	<0.20	<1.0	<0.20	<1.0	<0.20	<1.0	<0.20	<0.41	<0.20	<0.41	<0.20
Total BTEX[1]	750	µg/L	<2.0	<0.40	<2.0	<0.40	<2.0	<0.40	<2.0	0.61 J	<2.0	<0.40	<0.80	<0.40	<2.0	<0.40	<0.80	<0.40	<2.0	<0.40	<2.0	<0.40	<2.0	0.93	<0.80	<0.40	<0.80	<0.40
Total VOCs (includes BTEX)	NE	µg/L	2555	69.7	2300	68.4	2500	65.3	2000	58.21	1700	60.9	1500	57.4	1600	63.3	1200	61.2	1600	67.2	1600	54.8	1600	66.7	1700	52.5	1300.68	40.5
PAHs																												
Benzo(a)anthracene	NE	µg/L	<0.024	<0.026	<0.024	<0.024	<0.024	<0.024*	<0.024	<0.023	<0.025 *	<0.023 *	<0.027	<0.026 *	<0.025 *	<0.024 *	<0.024 *	<0.025 *	<0.024	<0.024	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.024	<0.025
Benzo(a)pyrene	0.1	µg/L	<0.024	<0.026	<0.024	<0.024	<0.024	<0.024	<0.024	<0.023	<0.025	<0.023	<0.027	<0.026	<0.025	<0.024	<0.024	<0.025	<0.024	<0.024	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.024	<0.025
Benzo(b)fluoranthene	NE	µg/L	<0.024	<0.026	<0.024	<0.024	<0.024	<0.024	<0.024	<0.023	<0.025	<0.023	<0.027	<0.026	<0.025	<0.024	<0.024	<0.025	<0.024	<0.024	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.024	<0.025
Benzo(g,h,i)perylene	NE	µg/L	<0.048	<0.052	<0.048	<0.048	<0.048	<0.048	<0.047	<0.046	<0.050	<0.046	<0.054	<0.052	<0.050	<0.048	<0.048	<0.050	<0.048	<0.048	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.048	<0.050
Benzo(k)fluoranthene	NE	µg/L	<0.048	<0.052	<0.048	<0.048	<0.048	<0.048	<0.047	<0.046	<0.050	<0.046	<0.054	<0.052	<0.050	<0.048	<0.048	<0.050	<0.048	<0.048	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.048	<0.050
Chrysene	NE	µg/L	<0.048	<0.052	<0.048	<0.048	<0.048	<0.048*	<0.047	<0.046	<0.050 *	<0.046 *	<0.054	<0.052 *	<0.050 *	<0.048 *	<0.048 *	<0.050 *	<0.048	<0.048	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.048	<0.050
Dibenzo(a,h)anthracene	NE	µg/L	<0.024	<0.026	<0.024	<0.024	<0.024	<0.024	<0.024	<0.023	<0.025	<0.023	<0.027	<0.026	<0.025	<0.024	<0.024	<0.025	<0.024	<0.024	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.024	<0.025
Fluoranthene	NE	µg/L	<0.048	<0.052	<0.048	<0.048	<0.048	<0.048	<0.047	<0.046	<0.050	<0.046	<0.054	<0.052	<0.050	<0.048	<0.048	<0.050	<0.048	<0.048	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.048	<0.050
Indeno(1,2,3-cd)pyrene	NE	µg/L	<0.024	<0.026	<0.024	<0.024	<0.024	<0.024	<0.024	<0.023	<0.025	<0.023	<0.027	<0.026	<0.025	<0.024	<0.024	<0.025	<0.024	<0.024	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.024	<0.025
Naphthalene	70	µg/L	<0.048	<0.052	<0.048	<0.048	<0.048	<0.048	0.41	<0.046	<0.050	0.077 J	<0.054	<0.052	<0.050	<0.048	<0.048	<0.050	<0.048	<0.048	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.048	<0.050
Phenanthrene	NE	µg/L	<0.048	<0.052	<0.048	<0.048	<0.048	<0.048	<0.047	<0.046	<0.050	<0.046	<0.054	<0.052	<0.050	<0.048	<0.048	<0.050	<0.048	<0.048	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.048	<0.050
Pyrene	NE	µg/L	<0.048	<0.052	<0.048	<0.048	<0.048	<0.048*	<0.047	<0.046	<0.050 *	<0.046 *	<0.054	<0.052 *	<0.050 *	<0.048 *	<0.048 *	<0.050 *	<0.048	<0.048	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.048	<0.050
PAHs Group of 10 Total[2]	0.1	µg/L	<0.048	<0.052	<0.048	<0.048	<0.048	<0.048	0.41	<0.046	<0.050	0.077 J	<0.054	<0.052	<0.050	<0.048	<0.048	<0.050	<0.048	<0.048	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.048	<0.050

Notes:
< = Less than
µg/L = Micrograms per liter
mg/L = Milligrams per liter
B = Compound was found in the blank and in the sample.
J = Estimated value. Analyte detected at a level less than the reporting limit and greater than or equal to the detection limit.
F1 = MS and/or MSD Recovery is outside acceptance limits.
* = ISTD response or retention time outside of acceptable limits.
ND = Not Detected
NE = Not Established
-- = Not analyzed
PAHs = Polynuclear Aromatic Hydrocarbons
VOCs = Volatile Organic Compounds

Footnotes:
(1) Total BTEX is the sum of the benzene, toluene, ethylbenzene and xylene concentrations. If all compounds were below their corresponding laboratory detection limits, then the highest detection limit of the BTEX compounds was noted.
(2) PAH group of 10 (Polynuclear Aromatic Hydrocarbons) include the sum of the following individual compounds: benzo(a)anthracene, benzo(b)fluoranthene, benzo(g,h,i)perylene, benzo(k)fluoranthene, chrysene, dibenzo(a,h)anthracene, fluoranthene, indeno(1,2,3-cd)pyrene, phenanthrene, and pyrene. If all compounds were below their corresponding laboratory detection limits, then the highest detection limit of the PAH group compounds was noted.
(3) The WDNR approved a modification to the GETS monitoring program for select constituents on April 27, 2017 and June 23, 2017. Following the approval, VOCs will be monitored on a monthly basis and all other constitutes previously monitored will be completed on a quarterly basis.

Table 2
GETS WPDES Compliance Sample Results
Madison-Kipp Corporation Site
201 Waubesa Street, Madison, Wisconsin

PARAMETER[3]	PERMIT DISCHARGE LIMITS	UNIT	LOCATION SAMPLE DATE																					
			INFLUENT 2/8/2017	EFFLUENT 2/8/2017	INFLUENT 3/7/2017	EFFLUENT 3/7/2017	INFLUENT 4/6/2017	EFFLUENT 4/6/2017	INFLUENT 5/10/2017	EFFLUENT 5/10/2017	INFLUENT 6/7/2017	EFFLUENT 6/7/2017	INFLUENT 7/11/2017	EFFLUENT 7/11/2017	INFLUENT 8/15/2017	EFFLUENT 8/15/2017	INFLUENT 9/11/2017	EFFLUENT 9/11/2017	INFLUENT 10/5/2017	EFFLUENT 10/5/2017	INFLUENT 11/13/2017	EFFLUENT 11/13/2017	INFLUENT 12/8/2017	EFFLUENT 12/8/2017
Miscellaneous																								
Oil & Grease	10	mg/L	3.0 J B	2.3 J B	2.2 J B	2.7 J B	<1.5	3.4 J B	--	--	3.0 J	2.6 J	--	--	--	--	95.4	2.2 J	--	--	--	--	2.7 J	2.3 J
Chloride	395	mg/L	120	110	120	120	130	130	--	--	130	190	--	--	--	--	120	120	--	--	--	--	130	130
Total Suspended Solids	40	mg/L	<2.5	<2.5	<2.5	<2.5	20	3.0 J	--	--	<1.9	3.5 J	--	--	--	--	<1.9	<1.9	--	--	--	2.0 J	<1.9	2.0 J
Biological Oxygen Demand	20	mg/L	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	--	--	<2.0	<2.0	--	--	--	--	<2.0	<2.0	--	--	--	--	<2.0	<2.0
VOCs																								
1,1,1-Trichloroethane	50	µg/L	<1.9	<0.38	<0.76	<0.38	<1.9	<0.38	<1.9	<0.38	<1.9	<0.38	<1.9	<0.38	<1.9	<0.38	<1.9	<0.38	<1.9	<0.38	<1.9	<0.38	<1.9	<0.38
1,1,2,2-Tetrachloroethane	50	µg/L	<2.0	<0.40	<0.80	<0.40	<2.0	<0.40	<2.0	<0.40	<2.0	<0.40	<2.0	<0.40	<2.0	<0.40	<2.0	<0.40	<2.0	<0.40	<2.0	<0.40	<2.0	<0.40
1,1,2-Trichloroethane	50	µg/L	<1.8	<0.35	<0.70	<0.35	<1.8	<0.35	<1.8	<0.35	<1.8	<0.35	<1.8	<0.35	<1.8	<0.35	<1.8	<0.35	<1.8	<0.35	<1.8	<0.35	<1.8	<0.35
1,1-Dichloroethene	50	µg/L	<2.0	<0.39	<0.78	<0.39	<2.0	<0.39	<2.0	<0.39	<2.0	<0.39	<2.0	<0.39	<2.0	<0.39	<2.0	<0.39	<2.0	<0.39	<2.0	<0.39	<2.0	<0.39
1,2-Dichloroethane	180	µg/L	<2.0	<0.39	<0.78	<0.39	<2.0	<0.39	<2.0	<0.39	<2.0	<0.39	<2.0	<0.39	<2.0	<0.39	<2.0	<0.39	<2.0	<0.39	<2.0	<0.39	<2.0	<0.39
Benzene	50	µg/L	<0.73	<0.15	<0.29	<0.15	<0.73	<0.15	<0.73	0.25 J	<0.73	<0.15	<0.73	<0.15	<0.73	<0.15	<0.73	<0.15	<0.73	<0.15	<0.73	<0.15	<0.73	<0.15
Bromodichloromethane	120	µg/L	<1.9	<0.37	<0.74	<0.37	<1.9	<0.37	<1.9	<0.37	<1.9	<0.37	<1.9	<0.37	<1.9	<0.37	<1.9	<0.37	<1.9	<0.37	<1.9	<0.37	<1.9	<0.37
Bromoform	120	µg/L	<2.2	<0.45	<0.89	<0.45	<2.2	<0.45	<2.2	<0.45	<2.2	<0.45	<2.2	<0.45	<2.2	<0.45	<2.2	<0.45	<2.2	<0.45	<2.2	<0.45	<2.2	<0.45
Bromomethane	NE	µg/L	<3.2	<0.65	<1.3	<0.65	<3.2	<0.65	<3.2	<0.65	<3.2	<0.65	<3.2	<0.65	<3.2	<0.65	<3.2	<0.65	<3.2	<0.65	<3.2	<0.65	<3.2	<0.65
Carbon Tetrachloride	150	µg/L	<1.9	<0.38	<0.77	<0.38	<1.9	<0.38	<1.9	<0.38	<1.9	<0.38	<1.9	<0.38	<1.9	<0.38	<1.9	<0.38	<1.9	<0.38	<1.9	<0.38	<1.9	<0.38
cis-1,2-Dichloroethene	NE	µg/L	<2.0	18	3.0	19	<2.0	18	<2.0	18	11	26	49	22	62	20	22	17	190	18	450	18	83	16
Chloromethane	NE	µg/L	<1.6	<0.32	<0.64	<0.32	<1.6	<0.32	<1.6	<0.32	<1.9	<0.32	<1.6	<0.32	<1.6	<0.32	<1.6	<0.32	<1.6	<0.32	<1.6	<0.32	<1.6	<0.32
Ethylbenzene	NE	µg/L	<0.92	<0.18	<0.37	<0.18	<0.92	<0.18	<0.92	<0.18	<0.92	<0.18	<0.92	<0.18	<0.92	<0.18	<0.92	<0.18	<0.92	<0.18	<0.92	<0.18	<0.92	<0.18
Tetrachloroethene	50	µg/L	1500	29	1400	29	1600	26	1700	21	2200	31	1700	34	1800	32	1700	25	1700	23	1600	14	1600	26
Toluene	NE	µg/L	<0.76	<0.15	<0.30	<0.15	<0.76	0.18 J	<0.76	<0.15	<0.76	<0.15	<0.76	<0.15	<0.76	<0.15	<0.76	<0.15	<0.76	<0.15	<0.76	<0.15	<0.76	<0.15
Total Xylenes	NE	µg/L	<2.0	<0.40	<0.80	<0.40	<2.0	<0.40	<2.0	<0.40	<2.0	<0.40	<2.0	<0.40	<2.0	<0.40	<2.0	<0.40	<2.0	<0.40	<2.0	<0.40	<2.0	<0.40
trans-1,2-Dichloroethene	NE	µg/L	<1.7	<0.35	<0.70	<0.35	<1.7	<0.35	<1.7	<0.35	<1.7	<0.35	<1.7	<0.35	<1.7	<0.35	<1.7	<0.35	<1.7	<0.35	4.6 J	<0.35	<1.7	<0.35
Trichloroethene	50	µg/L	<0.82	7.9	20	7.7	2.5	7.5	2.3 J	7.2	45	9.7	110	9.7	130	8.9	66	8.1	240	7.2	370	5.4	130	6.7
Vinyl chloride	10	µg/L	<1.0	<0.20	<0.41	<0.20	<1.0	<0.20	<1.0	<0.20	<1.0	<0.20	<1.0	<0.20	<1.0	<0.20	<1.0	<0.20	<1.0	<0.20	3.2	<0.20	<1.0	<0.20
Total BTEX[1]	750	µg/L	<2.0	<0.40	<0.80	<0.40	<2.0	0.18 J	<2.0	0.25 J	<2.0	<0.40	<2.0	<0.40	<2.0	<0.40	<2.0	<0.40	<2.0	<0.40	<2.0	<0.40	<2.0	<0.40
Total VOCs (includes BTEX)	NE	µg/L	1500	54.9	1423	55.7	1602.5	51.68	1702.3	46.45	2256	66.7	1859	66	1992	61	1788	50.1	2130	48	2423.2	37.4	1813	48.7
PAHs																								
Benzo(a)anthracene	NE	µg/L	<0.024	<0.024	<0.024	<0.024	<0.024	<0.025	--	--	<0.025	<0.025	--	--	--	--	<0.028	<0.026	--	--	--	--	<0.022	<0.025
Benzo(a)pyrene	0.1	µg/L	<0.024	<0.024	<0.024	<0.024	<0.024	<0.025	<0.026	<0.025	<0.025	<0.025	--	--	--	--	<0.028	<0.026	--	--	--	--	0.056	<0.025
Benzo(b)fluoranthene	NE	µg/L	<0.024	<0.024	<0.024	<0.024	<0.024	<0.025	--	--	<0.025	<0.025	--	--	--	--	<0.028	<0.026	--	--	--	--	0.063	<0.025
Benzo(g,h,i)perylene	NE	µg/L	<0.048	<0.048	<0.048	<0.048	<0.048	<0.050	--	--	<0.050	<0.050	--	--	--	--	<0.056	<0.052	--	--	--	--	0.059 J	<0.050
Benzo(k)fluoranthene	NE	µg/L	<0.048	<0.048	<0.048	<0.048	<0.048	<0.050	--	--	<0.050	<0.050	--	--	--	--	<0.056	<0.052	--	--	--	--	<0.045	<0.050
Chrysene	NE	µg/L	<0.048	<0.048	<0.048	<0.048	<0.048	<0.050	--	--	<0.050	<0.050	--	--	--	--	<0.056	<0.052	--	--	--	--	<0.045	<0.050
Dibenzo(a,h)anthracene	NE	µg/L	<0.024	<0.024	<0.024	<0.024	<0.024	<0.025	--	--	<0.025	<0.025	--	--	--	--	<0.028	<0.026	--	--	--	--	<0.022	<0.025
Fluoranthene	NE	µg/L	<0.048	<0.048	<0.048	<0.048	<0.048	<0.050	--	--	<0.050	<0.050	--	--	--	--	<0.056	<0.052	--	--	--	--	0.087 J	0.058 J
Indeno(1,2,3-cd)pyrene	NE	µg/L	<0.024	<0.024	<0.024	<0.024	<0.024	<0.025	--	--	<0.025	<0.025	--	--	--	--	<0.028	<0.026	--	--	--	--	0.044 J	<0.025
Naphthalene	70	µg/L	<0.048	<0.048	<0.048	<0.048	0.12	<0.050	--	--	<0.050	0.14	--	--	--	--	<0.056	<0.052	--	--	--	--	0.054 J	0.073 J
Phenanthrene	NE	µg/L	<0.048	<0.048	<0.048	<0.048	<0.048	<0.050	--	--	<0.050	<0.050	--	--	--	--	<0.056	<0.052	--	--	--	--	0.26	0.41
Pyrene	NE	µg/L	<0.048	<0.048	<0.048	<0.048	<0.048	<0.050	--	--	<0.050	<0.050	--	--	--	--	<0.056	<0.052	--	--	--	--	0.052 J	<0.050
PAHs Group of 10 Total[2]	0.1	µg/L	<0.048	<0.048	<0.048	<0.048	<0.048	<0.050	--	--	<0.050	<0.050	--	--	--	--	<0.056	<0.052	--	--	--	--	0.565	0.468

Notes:

Updated by: B. Wachholz 1/12/2018

Checked by: L. Auner 1/15/2018

< = Less than

µg/L = Micrograms per liter

mg/L = Milligrams per liter

B = Compound was found in the blank and in the sample.

J = Estimated value. Analyte detected at a level less than the reporting limit and greater than or equal to the detection limit.

F1 = MS and/or MSD Recovery is outside acceptance limits.

* = ISTD response or retention time outside of acceptable limits.

ND = Not Detected

NE = Not Established

-- = Not analyzed

PAHs = Polynuclear Aromatic Hydrocarbons

VOCs = Volatile Organic Compounds

Footnotes:

(1) Total BTEX is the sum of the benzene, toluene, ethylbenzene and xylene concentrations. If all compounds were below their corresponding laboratory detection limits, then the highest detection limit of the BTEX compounds was noted.

(2) PAH group of 10 (Polynuclear Aromatic Hydrocarbons) include the sum of the following individual compounds: benzo(a)anthracene, benzo(b)fluoranthene, benzo(g,h,i)perylene, benzo(k)fluoranthene, chrysene, dibenzo(a,h)anthracene, fluoranthene, indeno(1,2,3-cd)pyrene, phenanthrene, and pyrene. If all compounds were below their corresponding laboratory detection limits, then the highest detection limit of the PAH group compounds was noted.

(3) The WDNR approved a modification to the GETS monitoring program for select constituents on April 27, 2017 and June 23, 2017. Following the approval, VOCs will be monitored on a monthly basis and all other constitutes previously monitored will be completed on a quarterly basis.

Table 3
Combined SVE and GETS Gas Analytical Data - January 2016 - December 2017
Madison-Kipp Corporation
201 Waubesa Street
Madison, Wisconsin

SAMPLE DATE	1/18/2016		2/8/2016		3/7/2016		4/6/2016		5/4/2016		6/7/2016		7/20/2016		8/8/2016		9/9/2016		10/10/2016		11/7/2016		12/7/2016	
SAMPLE LOCATION	INFLUENT	EFFLUENT	INFLUENT	EFFLUENT	INFLUENT	EFFLUENT	INFLUENT	EFFLUENT	INFLUENT	EFFLUENT	INFLUENT	EFFLUENT	INFLUENT	EFFLUENT	INFLUENT	EFFLUENT	INFLUENT	EFFLUENT	INFLUENT	EFFLUENT	INFLUENT	EFFLUENT	INFLUENT	EFFLUENT
Vinyl Chloride	<7.2	**1.9**	<3.7	<2.2	<2.2	**2.2**	<16	**3.4**	<14	<2.0	<16	<2.2	<20	<7.8	<16	<3.3	<7.2	<5.2	<2.7	<1.3	<12	<2.4	<5.7	<2.0
1,1-Dichloroethene	<7.2	<1.6	<3.7	<2.2	<2.2	<1.3	<16	**1.8**	<14	<2.0	<16	<2.2	<20	<7.8	<16	<3.3	<7.2	<5.2	<2.7	<1.3	<12	<2.4	<5.7	<2.0
cis-1,2-Dichloroethene	**640**	**220**	**220**	**130**	**150**	**460**	**480**	**360**	**530**	**430**	**440**	**450**	**530**	**1900**	**600**	**1100**	**350**	**1300**	**230**	**160**	**570**	**710**	**640**	**500**
Benzene	<7.2	**1.8**	<3.7	<2.2	<2.2	<1.3	<16	<1.3	<14	<2.0	<16	<2.2	<20	<7.8	<16	<3.3	<7.2	<5.2	<2.7	<1.3	<12	<2.4	<5.7	<2.0
Trichloroethene	**370**	**20**	**130**	**23**	**78**	**13**	**400**	**15**	**340**	**16**	**400**	**17**	**440**	**48**	**550**	**39**	**390**	**32**	**130**	**35**	**470**	**110**	**460**	**130**
Toluene	<7.2	<1.6	**25**	<2.2	<2.2	<1.3	<16	**3**	<14	<2.0	<16	**18**	<20	<7.8	<16	<3.3	<7.2	<5.2	<2.7	**4.0**	**13**	**6.5**	<5.7	**3.5**
Tetrachloroethene	**2400**	**340**	**1100**	**340**	**690**	**140**	**4100**	**200**	**3100**	**180**	**3700**	**180**	**3500**	**130**	**3900**	**160**	**2000**	**140**	**1000**	**350**	**3100**	**150**	**1800**	**230**
Ethyl Benzene	<7.2	<1.6	<3.7	<2.2	<2.2	<1.3	<16	**15**	<14	<2.0	<16	<2.2	<20	<7.8	<16	<3.3	<7.2	<5.2	<2.7	<1.3	<12	<2.4	<5.7	<2.0
m,p-Xylene	<7.2	<1.6	<3.7	<2.2	<2.2	<1.3	**28**	**72**	<14	**2.2**	<16	**2.4**	<20	<7.8	<16	<3.3	<7.2	<5.2	<2.7	**1.8**	<12	**6.8**	<5.7	**2.0 J**
o-Xylene	<7.2	<1.6	<3.7	<2.2	<2.2	<1.3	<16	**32**	<14	<2.0	<16	<2.2	<20	<7.8	<16	<3.3	<7.2	<5.2	<2.7	<1.3	<12	<2.4	<5.7	<2.0
1,3,5-Trimethylbenzene	<7.2	<1.6	<3.7	<2.2	**8.9**	<1.3	<16	**3.8**	<14	<2.0	<16	<2.2	<20	<7.8	<16	<3.3	<7.2	<5.2	<2.7	<1.3	<12	<2.4	<5.7	<2.0
1,2,4-Trimethylbenzene	<7.2	<1.6	<3.7	<2.2	**42**	**7.8**	<16	**9.1**	<14	<2.0	<16	<2.2	<20	<7.8	<16	<3.3	<7.2	<5.2	<2.7	<1.3	<12	<2.4	<5.7	<2.0

Notes:

All concentrations in this table are reported in ppbv unless otherwise noted.

All samples were analyzed using Method TO-15 and the analytes shown in the table are from the VOC analyte list. Only analytes that were detected in at least one sample are shown in the table. A complete list of constituents analyzed are included in the laboratory analytical reports.

< = Constituent not detected above noted laboratory method detection limit.

Bold = Constituent detected above laboratory detection limit.

SVE = Soil vapor extraction

GETS = Groundwater extraction and treatment system

ppbv = parts per billon by volume

VOCs = Volatile Organic Compounds

Table 3
Combined SVE and GETS Gas Analytical Data - January 2016 - December 2017
Madison-Kipp Corporation
201 Waubesa Street
Madison, Wisconsin

SAMPLE DATE	1/17/2017		2/8/2017		3/7/2017		4/6/2017		5/5/2017		6/7/2017		7/11/2017		8/7/2017		9/14/2017		10/5/2017		11/30/2017		12/8/2017	
SAMPLE LOCATION	INFLUENT	EFFLUENT	INFLUENT	EFFLUENT	INFLUENT	EFFLUENT	INFLUENT	EFFLUENT	INFLUENT	EFFLUENT	INFLUENT	EFFLUENT	INFLUENT	EFFLUENT	INFLUENT	EFFLUENT	INFLUENT	EFFLUENT	INFLUENT	EFFLUENT	INFLUENT	EFFLUENT	INFLUENT	EFFLUENT
Vinyl Chloride	<11	**3.8**	<23	**2.8**	<6.0	**3.3**	<8.4	**2.9**	<2.5	<2.4	<13	**3.0**	<10	**2.9**	<12	**4.5**	<15	**5.3**	<4.7	**6.8**	**7.0**	**3.9**	**10**	**8.5**
1,1-Dichloroethene	<11	<1.7	<23	<1.1	<6.0	<1.6	<8.4	<1.2	<2.5	<2.4	<13	<1.6	<10	<2.7	<12	<4.2	<15	<4.6	<4.7	<2.6	<5.4	<1.2	<6.4	<2.6
cis-1,2-Dichloroethene	**1100**	**670**	**1100**	**460**	**700**	**510**	**680**	**500**	**260**	**420**	**610**	**240**	**870**	**770**	**730**	**470**	**440**	**450**	**280**	**720**	**430**	**110**	**720**	**270**
Benzene	<11	<1.7	<23	<1.1	<6.0	<1.6	<8.4	<1.2	<2.5	<2.4	<13	<1.6	<10	<2.7	<12	<4.2	<15	<4.6	<4.7	<2.6	<5.4	<1.2	<6.4	<2.6
Trichloroethene	**880**	**300**	**1000**	**340**	**440**	**210**	**420**	**410**	**240**	**400**	**520**	**200**	**530**	**430**	**570**	**700**	**490**	**1500**	**270**	**1000**	**380**	**360**	**540**	**750**
Toluene	<11	**14**	<23	**3.9**	<6.0	**8.8**	<8.4	**6.6**	**4.5**	**5.9**	<13	<1.6	<10	<2.7	<12	<4.2	<15	<4.6	<4.7	<2.6	**17**	<1.2	<6.4	<2.6
Tetrachloroethene	**3200**	**210**	**5300**	**300**	**1400**	**280**	**2200**	**140**	**810**	**230**	**2500**	**240**	**2300**	**280**	**2700**	**260**	**2900**	**230**	**1300**	**200**	**1600**	**360**	**2400**	**730**
Ethyl Benzene	<11	<1.7	<23	<1.1	<6.0	<1.6	<8.4	<1.2	<2.5	<2.4	<13	<1.6	<10	<2.7	<12	<4.2	<15	<4.6	<4.7	<2.6	<5.4	<1.2	<6.4	<2.6
m,p-Xylene	<11	**2.4**	<23	**2.2**	<6.0	**4.2**	<8.4	**2.2**	<2.5	<2.4	<13	<1.6	<10	<2.7	<12	<4.2	<15	<4.6	<4.7	<2.6	<5.4	<1.2	<6.4	<2.6
o-Xylene	<11	<1.7	<23	<1.1	<6.0	<1.6	<8.4	<1.2	<2.5	<2.4	<13	<1.6	<10	<2.7	<12	<4.2	<15	<4.6	<4.7	<2.6	<5.4	<1.2	<6.4	<2.6
1,3,5-Trimethylbenzene	<11	<1.7	<23	<1.1	<6.0	<1.6	<8.4	<1.2	<2.5	<2.4	<13	<1.6	<10	<2.7	<12	<4.2	<15	<4.6	<4.7	<2.6	<5.4	<1.2	<6.4	<2.6
1,2,4-Trimethylbenzene	<11	<1.7	<23	<1.1	<6.0	<1.6	<8.4	<1.2	<2.5	<2.4	<13	<1.6	<10	<2.7	<12	<4.2	<15	<4.6	<4.7	<2.6	<5.4	<1.2	<6.4	<2.6

Notes:

Updated by: L. Auner 12/28/2017
Checked by: K. Barber 1/8/2018

All concentrations in this table are reported in ppbv unless otherwise noted.
All samples were analyzed using Method TO-15 and the analytes shown in the table are from the VOC analyte list. Only analytes that were detected in at least one sample are shown in the table. A complete list of constituents analyzed are included in the laboratory analytical reports.
< = Constituent not detected above noted laboratory method detection limit.
Bold = Constituent detected above laboratory detection limit.
SVE = Soil vapor extraction
GETS = Groundwater extraction and treatment system
ppbv = parts per billon by volume
VOCs = Volatile Organic Compounds

Table 4
Estimate of GAC Effluent Emissions - Total Volatile Organic Compounds
Madison-Kipp Corporation
201 Waubesa Street
Madison, Wisconsin

DATE	TOTAL VOC CONCENTRATION[1][2] µg/m^3	SYSTEM FLOW RATE[3] CFM	EMISSION RATE[4] lb/hr
1/18/2016	3500	389.4	5.2E-03
2/8/2016	3300	362.2	4.5E-03
3/7/2016	3100	364.1	4.2E-03
4/6/2016	3700	363.8	5.0E-03
5/4/2016	3300	361.0	4.5E-03
6/7/2016	3500	354.9	4.7E-03
7/20/2016	9900	359.6	1.3E-02
8/8/2016	6400	354.1	8.5E-03
9/9/2016	7100	346.9	9.2E-03
10/10/2016	3500	361.1	4.7E-03
11/7/2016	4900	357.8	6.5E-03
12/7/2016	4600	366.9	6.3E-03
1/17/2017	6000	376.7	8.4E-03
2/8/2017	5800	375.3	8.2E-03
3/7/2017	5400	355.8	7.2E-03
4/6/2017	5400	352.6	7.1E-03
5/5/2017	5800	353.8	7.7E-03
6/7/2017	3900	358.1	5.3E-03
7/11/2017	7700	346.0	9.9E-03
8/7/2017	8100	355.8	1.1E-02
9/14/2017	12200	368.0	1.7E-02
10/5/2017	10300	367.5	1.4E-02
11/30/2017	5000	375.2	7.1E-03
12/8/2017	10600	384.0	1.5E-02
		Average Emission Rate[5] =	**8.1E-03**
		NR 406 Emission Threshold =	**5.7**

Notes:

Updated by: L. Auner 12/28/2017
Checked by: K. Barber 1/8/2018

VOCs = Volatile Organic Compounds
SVE = Soil Vapor Extraction
GETS = Groundwater extraction and treatment system.
CFM = cubic feet per minute
µg/m^3 = micrograms per cubic meters
lb/hr = pounds per hour

Footnotes:

1. As of 7/14/2015 the vapors recovered from the SVE system and the GETS operation were combined and are treated through a vapor-phase activated carbon system. An influent and effluent vapor sample is collected each month and analyzed using Method TO-15. The total VOC concentration listed is representative of the effluent sample collected post treatment of the SVE and GETS operations.
2. Total VOC concentrations were calculated based on analytes reported above and below the method reporting limit. For detected analytes, the reported concentrations were used. For all other analytes detected below the method reporting limit, half of the reporting limit was used.
3. The system flow rate is a combined air flow rate from both the GETS and SVE system and is measured using flow meter FIT-201 which measures total flow from the activated carbon system.
4. Emission rates were calculated based on the product of the monthly concentration and monthly system flow rate.
5. Average Emission Rate is an average based on samples collected between January 2016 and December 2017.

Table 5
Estimate of GAC Effluent Gas Emissions for Tetrachloroethene
Madison-Kipp Corporation
201 Waubesa Street
Madison, Wisconsin

DATE	TOTAL PCE CONCENTRATION[1][2] µg/m^3	SYSTEM FLOW RATE[3] CFM	EMISSION RATE[4] lb/hr
1/18/2016	2300	389.4	3.4E-03
2/8/2016	2300	362.2	3.1E-03
3/7/2016	980	364.1	1.3E-03
4/6/2016	1400	363.8	1.9E-03
5/4/2016	1200	361.0	1.6E-03
6/7/2016	1200	354.9	1.6E-03
7/20/2016	890	359.6	1.2E-03
8/8/2016	1100	354.1	1.5E-03
9/9/2016	950	346.9	1.2E-03
10/10/2016	2400	361.1	3.2E-03
11/7/2016	1000	357.8	1.3E-03
12/7/2016	1500	366.9	2.1E-03
1/17/2017	1400	376.7	2.0E-03
2/8/2017	2000	375.3	2.8E-03
3/7/2017	1900	355.8	2.5E-03
4/6/2017	930	352.6	1.2E-03
5/5/2017	1600	353.8	2.1E-03
6/7/2017	1600	358.1	2.1E-03
7/11/2017	1900	346.0	2.5E-03
8/7/2017	1800	355.8	2.4E-03
9/14/2017	1600	368.0	2.2E-03
10/5/2017	1400	367.5	1.9E-03
11/30/2017	2400	375.2	3.4E-03
12/8/2017	5000	384.0	7.2E-03
Average Emission Rate[5] =		**2.3E-03**	**lb/hr**
NR 445 Emission Threshold =		**35.4**	**lb/hr**

Notes:

PCE = Tetrachloroethene
SVE = Soil Vapor Extraction
GETS = Groundwater extraction and treatment system.
CFM = cubic feet per minute
µg/m^3 = micrograms per cubic meters
lb/hr = pounds per hour

Updated by: L. Auner 12/28/2017
Checked by: K. Barber 1/8/2018

Footnotes:

1. As of 7/14/2015 the vapors recovered from the SVE system and the GETS operation were combined and are treated through a vapor-phase activated carbon system. An influent and effluent vapor sample is collected each month and analyzed using Method TO-15. The PCE concentration listed is representative of the effluent sample collected post treatment of the SVE and GETS operations.
2. The PCE concentration reported in the effluent sample was used for emission calculations. If the concentration was reported below the method reporting limit, half of the reporting limit was used for calculations.
3. The system flow rate is a combined air flow rate from both the GETS and SVE system and is measured using flow meter FIT-201 which measures total flow from the activated carbon system.
4. Emission rates were calculated based on the product of the monthly concentration and monthly system flow rate.
5. Average Emission Rate is an average based on samples collected between January 2016 and December 2017.

Table 6
Estimate of GAC Effluent Gas Emissions for Trichloroethene
Madison-Kipp Corporation
201 Waubesa Street
Madison, Wisconsin

DATE	TCE CONCENTRATION[1][2] µg/m^3	SYSTEM FLOW RATE[3] CFM	EMISSION RATE[4] lb/hr
1/18/2016	110	389.4	1.6E-04
2/8/2016	120	362.2	1.6E-04
3/7/2016	71	364.1	9.7E-05
4/6/2016	81	363.8	1.1E-04
5/4/2016	85	361.0	1.1E-04
6/7/2016	91	354.9	1.2E-04
7/20/2016	260	359.6	3.5E-04
8/8/2016	210	354.1	2.8E-04
9/9/2016	170	346.9	2.2E-04
10/10/2016	190	361.1	2.6E-04
11/7/2016	600	357.8	8.0E-04
12/7/2016	700	366.9	9.6E-04
1/17/2017	1600	376.7	2.3E-03
2/8/2017	1800	375.3	2.5E-03
3/7/2017	1200	355.8	1.6E-03
4/6/2017	2200	352.6	2.9E-03
5/5/2017	2100	353.8	2.8E-03
6/7/2017	1100	358.1	1.5E-03
7/11/2017	2300	346.0	3.0E-03
8/7/2017	3700	355.8	4.9E-03
9/14/2017	8000	368.0	1.1E-02
10/5/2017	5500	367.5	7.6E-03
11/30/2017	2000	375.2	2.8E-03
12/8/2017	4000	384.0	5.8E-03
Average Emission Rate[5] =		**2.2E-03**	**lb/hr**
NR 445 Emission Threshold =		**56.1**	**lb/hr**

Notes:

Updated by: L. Auner 12/28/2017
Checked by: K. Barber 1/8/2018

TCE = Trichloroethene
SVE = Soil Vapor Extraction
GETS = Groundwater extraction and treatment system.
CFM = cubic feet per minute
µg/m^3 = micrograms per cubic meters
lb/hr = pounds per hour

Footnotes:

1. As of 7/14/2015 the vapors recovered from the SVE system and the GETS operation were combined and are treated through a vapor-phase activated carbon system. An influent and effluent vapor sample is collected each month and analyzed using Method TO-15. The TCE concentration listed is representative of the effluent sample collected post treatment of the SVE and GETS operations.
2. The TCE concentration reported in the effluent sample was used for emission calculations. If the concentration was reported below the method reporting limit, half of the reporting limit was used for calculations.
3. The system flow rate is a combined air flow rate from both the GETS and SVE system and is measured using flow meter FIT-201 which measures total flow from the activated carbon system.
4. Emission rates were calculated based on the product of the monthly concentration and monthly system flow rate.
5. Average Emission Rate is an average based on samples collected between January 2016 and December 2017.

Table 7
Estimate of GAC Effluent Gas Emissions for Cis-1,2-Dichloroethene
Madison-Kipp Corporation
201 Waubesa Street
Madison, Wisconsin

DATE	CIS-1,2-DCE CONCENTRATION[1][2] µg/m^3	SYSTEM FLOW RATE[3] CFM	EMISSION RATE[4] lb/hr
1/18/2016	860	389.4	1.3E-03
2/8/2016	530	362.2	7.2E-04
3/7/2016	1800	364.1	2.5E-03
4/6/2016	1400	363.8	1.9E-03
5/4/2016	1700	361.0	2.3E-03
6/7/2016	1800	354.9	2.4E-03
7/20/2016	7400	359.6	1.0E-02
8/8/2016	4500	354.1	6.0E-03
9/9/2016	5100	346.9	6.6E-03
10/10/2016	620	361.1	8.4E-04
11/7/2016	2800	357.8	3.8E-03
12/7/2016	2000	366.9	2.7E-03
1/17/2017	2600	376.7	3.7E-03
2/8/2017	1800	375.3	2.5E-03
3/7/2017	2000	355.8	2.7E-03
4/6/2017	2000	352.6	2.6E-03
5/5/2017	1700	353.8	2.3E-03
6/7/2017	960	358.1	1.3E-03
7/11/2017	3000	346.0	3.9E-03
8/7/2017	1900	355.8	2.5E-03
9/14/2017	1800	368.0	2.5E-03
10/5/2017	2900	367.5	4.0E-03
11/30/2017	420	375.2	5.9E-04
12/8/2017	1100	384.0	1.6E-03
Average Emission Rate[5] =		**3.0E-03**	**lb/hr**
NR 445 Emission Threshold =		**166**	**lb/hr**

Notes:

Updated by: L. Auner 12/28/2017
Checked by: K. Barber 1/8/2018

cis-1,2-DCE = cis-1,2-Dichloroethene
SVE = Soil Vapor Extraction
GETS = Groundwater extraction and treatment system.
CFM = cubic feet per minute
µg/m^3 = micrograms per cubic meters
lb/hr = pounds per hour

Footnotes:

1. As of 7/14/2015 the vapors recovered from the SVE system and the GETS operation were combined and are treated through a vapor-phase activated carbon system. An influent and effluent vapor sample is collected each month and analyzed using Method TO-15. The Cis,1,2-DCE concentration listed is representative of the effluent sample collected post treatment of the SVE and GETS operations.
2. The cis-1,2-DCE concentration reported in the effluent sample was used for emission calculations. If the concentration was reported below the method reporting limit, half of the reporting limit was used for calculations.
3. The system flow rate is a combined air flow rate from both the GETS and SVE system and is measured using flow meter FIT-201 which measures total flow from the activated carbon system.
4. Emission rates were calculated based on the product of the monthly concentration and monthly system flow rate.
5. Average Emission Rate is an average based on samples collected between January 2016 and December 2017.

Table 8
Estimate of GAC Effluent Gas Emissions for Vinyl Chloride
Madison-Kipp Corporation
201 Waubesa Street
Madison, Wisconsin

DATE	VINYL CHLORIDE CONCENTRATION[1][2] µg/m^3	SYSTEM FLOW RATE[3] CFM	EMISSION RATE[4] lb/hr	EMISSION RATE[4] lb/yr
1/18/2016	5.0	389.4	7.3E-06	6.4E-02
2/8/2016	2.9	362.2	3.9E-06	3.4E-02
3/7/2016	5.7	364.1	7.8E-06	6.8E-02
4/6/2016	8.8	363.8	1.2E-05	1.1E-01
5/4/2016	2.6	361	3.5E-06	3.1E-02
6/7/2016	2.85	354.9	3.79E-06	3.32E-02
7/20/2016	10.0	359.6	1.35E-05	1.18E-01
8/8/2016	4.20	354.1	5.57E-06	4.88E-02
9/9/2016	6.50	346.9	8.45E-06	7.40E-02
10/10/2016	1.65	361.1	2.23E-06	1.95E-02
11/7/2016	3.05	357.8	4.09E-06	3.58E-02
12/7/2016	2.6	366.9	3.57E-06	3.13E-02
1/17/2017	9.8	376.7	1.38E-05	1.21E-01
2/8/2017	7.2	375.3	1.01E-05	8.87E-02
3/7/2017	8.4	355.8	1.12E-05	9.81E-02
4/6/2017	7.3	352.6	9.64E-06	8.45E-02
5/5/2017	3.1	353.8	4.11E-06	3.60E-02
6/7/2017	7.6	358.1	1.02E-05	8.93E-02
7/11/2017	7.5	346.0	9.72E-06	8.51E-02
8/7/2017	11	355.8	1.47E-05	1.28E-01
9/14/2017	13	368.0	1.79E-05	1.57E-01
10/5/2017	17	367.5	2.34E-05	2.05E-01
11/30/2017	10	375.2	1.41E-05	1.23E-01
12/8/2017	22	384.0	3.16E-05	2.77E-01
		Average Emission Rate[5] =	**9.0E-02**	**lb/yr**
		NR 445 Emission Threshold =	**830**	**lb/yr**

Notes:

VC = Vinyl Chloride
SVE = Soil Vapor Extraction
GETS = Groundwater extraction and treatment system.
CFM = cubic feet per minute
µg/m^3 = micrograms per cubic meters
lb/hr = pounds per hour
lb/yr = pounds per year

Updated by: L. Auner 12/28/2017
Checked by: K. Barber 1/8/2018

Footnotes:

1. As of 7/14/2015 the vapors recovered from the SVE system and the GETS operation were combined and are treated through a vapor-phase activated carbon system. An influent and effluent vapor sample is collected each month and analyzed using Method TO-15. The VC concentration listed is representative of the effluent sample collected post treatment of the SVE and GETS operations.
2. The VC concentration reported in the effluent sample was used for emission calculations. If the concentration was reported below the method reporting limit, half of the reporting limit was used for calculations.
3. The system flow rate is a combined air flow rate from both the GETS and SVE system and is measured using flow meter FIT-201 which measures total flow from the activated carbon system.
4. Emission rates were calculated based on the product of the monthly concentration and monthly system flow rate.
5. Average Emission Rate is an average based on samples collected between January 2016 and December 2017.

Table 9
Estimate of GAC Influent Gas Rate - Total Volatile Organic Compounds
Madison-Kipp Corporation
201 Waubesa Street
Madison, Wisconsin

DATE	TOTAL VOC CONCENTRATION[1][2] µg/m^3	SYSTEM FLOW RATE[3] CFM	EMISSION RATE[4] lb/hr
1/18/2016	21700	389.4	3.2E-02
2/8/2016	9600	362.2	1.3E-02
3/7/2016	6300	364.1	8.6E-03
4/6/2016	34800	363.8	4.7E-02
5/4/2016	27300	361.0	3.7E-02
6/7/2016	31700	354.9	4.2E-02
7/20/2016	32000	359.6	4.3E-02
8/8/2016	34200	354.1	4.5E-02
9/9/2016	17700	346.9	2.3E-02
10/10/2016	9100	361.1	1.2E-02
11/7/2016	27900	357.8	3.7E-02
12/7/2016	18000	366.9	2.5E-02
1/17/2017	33100	376.7	4.7E-02
2/8/2017	50300	375.3	7.1E-02
3/7/2017	15400	355.8	2.1E-02
4/6/2017	21400	352.6	2.8E-02
5/5/2017	8200	353.8	1.1E-02
6/7/2017	24400	358.1	3.3E-02
7/11/2017	24000	346.0	3.1E-02
8/7/2017	26100	355.8	3.5E-02
9/14/2017	27000	368.0	3.7E-02
10/5/2017	12400	367.5	1.7E-02
11/30/2017	15800	375.2	2.2E-02
12/8/2017	22900	384.0	3.3E-02
		Average Emission Rate[5] =	**3.1E-02 lb/hr**
		NR 406 Emission Threshold =	**5.7 lb/hr**

Notes:

VOCs = Volatile Organic Compounds
SVE = Soil Vapor Extraction
GETS = Groundwater extraction and treatment system.
CFM = cubic feet per minute
µg/m^3 = micrograms per cubic meters
lb/hr = pounds per hour

Updated by: L. Auner 1/30/2018
Checked by: B. Wachholz 1/30/2018

Footnotes:

1. As of 7/14/2015 the vapors recovered from the SVE system and the GETS operation were combined and are treated through a vapor-phase activated carbon system. An influent and effluent vapor sample is collected each month and analyzed using Method TO-15. The total VOC concentration listed is representative of the influent sample collected pre treatment of the SVE and GETS operations.
2. Total VOC concentrations were calculated based on analytes reported above and below the method reporting limit. For detected analytes, the reported concentrations were used. For all other analytes detected below the method reporting limit, half of the reporting limit was used.
3. The system flow rate is a combined air flow rate from both the GETS and SVE system and is measured using flow meter FIT-201 which measures total flow from the activated carbon system.
4. Emission rates were calculated based on the product of the monthly concentration and monthly system flow rate.
5. Average Emission Rate is an average based on samples collected between July 2017 and December 2017.

Table 10
Estimate of GAC Influent Gas Rate for Tetrachloroethene
Madison-Kipp Corporation
201 Waubesa Street
Madison, Wisconsin

DATE	TOTAL PCE CONCENTRATION[1][2] µg/m^3	SYSTEM FLOW RATE[3] CFM	EMISSION RATE[4] lb/hr
1/18/2016	16000	389.4	2.3E-02
2/8/2016	7300	362.2	9.9E-03
3/7/2016	4700	364.1	6.4E-03
4/6/2016	28000	363.8	3.8E-02
5/4/2016	21000	361.0	2.8E-02
6/7/2016	25000	354.9	3.3E-02
7/20/2016	24000	359.6	3.2E-02
8/8/2016	26000	354.1	3.4E-02
9/9/2016	13000	346.9	1.7E-02
10/10/2016	7000	361.1	9.5E-03
11/7/2016	21000	357.8	2.8E-02
12/7/2016	12000	366.9	1.6E-02
1/17/2017	22000	376.7	3.1E-02
2/8/2017	36000	375.3	5.1E-02
3/7/2017	9300	355.8	1.2E-02
4/6/2017	15000	352.6	2.0E-02
5/5/2017	5500	353.8	7.3E-03
6/7/2017	17000	358.1	2.3E-02
7/11/2017	16000	346.0	2.1E-02
8/7/2017	18000	355.8	2.4E-02
9/14/2017	20000	368.0	2.8E-02
10/5/2017	9100	367.5	1.3E-02
11/30/2017	11000	375.2	1.5E-02
12/8/2017	16000	384.0	2.3E-02

Average Emission Rate[5] =	**2.3E-02**	**lb/hr**
NR 445 Emission Threshold =	**35.4**	**lb/hr**

Notes:

PCE = Tetrachloroethene
SVE = Soil Vapor Extraction
GETS = Groundwater extraction and treatment system.
CFM = cubic feet per minute
µg/m^3 = micrograms per cubic meters
lb/hr = pounds per hour

Updated by: L. Auner 1/30/2018
Checked by: B. Wachholz 1/30/2018

Footnotes:

1. As of 7/14/2015 the vapors recovered from the SVE system and the GETS operation were combined and are treated through a vapor-phase activated carbon system. An influent and effluent vapor sample is collected each month and analyzed using Method TO-15. The PCE concentration listed is representative of the influent sample collected pre treatment of the SVE and GETS operations.
2. The PCE concentration reported in the influent sample was used for emission calculations. If the concentration was reported below the method reporting limit, half of the reporting limit was used for calculations.
3. The system flow rate is a combined air flow rate from both the GETS and SVE system and is measured using flow meter FIT-201 which measures total flow from the activated carbon system.
4. Emission rates were calculated based on the product of the monthly concentration and monthly system flow rate.
5. Average Emission Rate is an average based on samples collected between July 2017 and December 2017.

Table 11
Estimate of GAC Influent Gas Rate for Trichloroethene
Madison-Kipp Corporation
201 Waubesa Street
Madison, Wisconsin

DATE	TCE CONCENTRATION[1][2] µg/m^3	SYSTEM FLOW RATE[3] CFM	EMISSION RATE[4] lb/hr
1/18/2016	2000	389.4	2.9E-03
2/8/2016	710	362.2	9.6E-04
3/7/2016	420	364.1	5.7E-04
4/6/2016	2200	363.8	3.0E-03
5/4/2016	1800	361.0	2.4E-03
6/7/2016	2200	354.9	2.9E-03
7/20/2016	2400	359.6	3.2E-03
8/8/2016	3000	354.1	4.0E-03
9/9/2016	2100	346.9	2.7E-03
10/10/2016	720	361.1	9.7E-04
11/7/2016	2500	357.8	3.4E-03
12/7/2016	2400	366.9	3.3E-03
1/17/2017	4700	376.7	6.6E-03
2/8/2017	5700	375.3	8.0E-03
3/7/2017	2300	355.8	3.1E-03
4/6/2017	2300	352.6	3.0E-03
5/5/2017	1300	353.8	1.7E-03
6/7/2017	2800	358.1	3.8E-03
7/11/2017	2800	346.0	3.6E-03
8/7/2017	3100	355.8	4.1E-03
9/14/2017	2600	368.0	3.6E-03
10/5/2017	1400	367.5	1.9E-03
11/30/2017	2100	375.2	3.0E-03
12/8/2017	2900	384.0	4.2E-03
Average Emission Rate[5] =		**3.2E-03**	**lb/hr**
NR 445 Emission Threshold =		**56.1**	**lb/hr**

Notes:

TCE = Trichloroethene

SVE = Soil Vapor Extraction

GETS = Groundwater extraction and treatment system.

CFM = cubic feet per minute

µg/m^3 = micrograms per cubic meters

lb/hr = pounds per hour

Updated by: L. Auner 1/30/2018

Checked by: B. Wachholz 1/30/2018

Footnotes:

1. As of 7/14/2015 the vapors recovered from the SVE system and the GETS operation were combined and are treated through a vapor-phase activated carbon system. An influent and effluent vapor sample is collected each month and analyzed using Method TO-15. The TCE concentration listed is representative of the influent sample collected pre treatment of the SVE and GETS operations.
2. The TCE concentration reported in the influent sample was used for emission calculations. If the concentration was reported below the method reporting limit, half of the reporting limit was used for calculations.
3. The system flow rate is a combined air flow rate from both the GETS and SVE system and is measured using flow meter FIT-201 which measures total flow from the activated carbon system.
4. Emission rates were calculated based on the product of the monthly concentration and monthly system flow rate.
5. Average Emission Rate is an average based on samples collected between July 2017 and December 2017.

Table 12
Estimate of GAC Influent Gas Rate for Cis-1,2-Dichloroethene
Madison-Kipp Corporation
201 Waubesa Street
Madison, Wisconsin

DATE	CIS-1,2-DCE CONCENTRATION[1][2] µg/m^3	SYSTEM FLOW RATE[3] CFM	EMISSION RATE[4] lb/hr
1/18/2016	2500	389.4	3.6E-03
2/8/2016	880	362.2	1.2E-03
3/7/2016	610	364.1	8.3E-04
4/6/2016	1900	363.8	2.6E-03
5/4/2016	2100	361.0	2.8E-03
6/7/2016	1800	354.9	2.4E-03
7/20/2016	2100	359.6	2.8E-03
8/8/2016	2400	354.1	3.2E-03
9/9/2016	1400	346.9	1.8E-03
10/10/2016	910	361.1	1.2E-03
11/7/2016	2300	357.8	3.1E-03
12/7/2016	2600	366.9	3.6E-03
1/17/2016	4500	376.7	6.3E-03
2/8/2017	4600	375.3	6.5E-03
3/7/2017	2800	355.8	3.7E-03
4/6/2017	2700	352.6	3.6E-03
5/5/2017	1000	353.8	1.3E-03
6/7/2017	2400	358.1	3.2E-03
7/11/2017	3400	346.0	4.4E-03
8/7/2017	2900	355.8	3.9E-03
9/14/2017	1700	368.0	2.3E-03
10/5/2017	1100	367.5	1.5E-03
11/30/2017	1700	375.2	2.4E-03
12/8/2017	2900	384.0	4.2E-03
Average Emission Rate[5] =		**3.0E-03**	**lb/hr**
NR 445 Emission Threshold =		**166**	**lb/hr**

Notes:

Updated by: L. Auner 1/30/2018
Checked by: B. Wachholz 1/30/2018

cis-1,2-DCE = cis-1,2-Dichloroethene
SVE = Soil Vapor Extraction
GETS = Groundwater extraction and treatment system.
CFM = cubic feet per minute
µg/m^3 = micrograms per cubic meters
lb/hr = pounds per hour

Footnotes:

1. As of 7/14/2015 the vapors recovered from the SVE system and the GETS operation were combined and are treated through a vapor-phase activated carbon system. An influent and effluent vapor sample is collected each month and analyzed using Method TO-15. The Cis,1,2-DCE concentration listed is representative of the influent sample collected pre treatment of the SVE and GETS operations.
2. The cis-1,2-DCE concentration reported in the influent sample was used for emission calculations. If the concentration was reported below the method reporting limit, half of the reporting limit was used for calculations.
3. The system flow rate is a combined air flow rate from both the GETS and SVE system and is measured using flow meter FIT-201 which measures total flow from the activated carbon system.
4. Emission rates were calculated based on the product of the monthly concentration and monthly system flow rate.
5. Average Emission Rate is an average based on samples collected between July 2017 and December 2017.

Table 13
Estimate of GAC Influent Gas Rate for Vinyl Chloride
Madison-Kipp Corporation
201 Waubesa Street
Madison, Wisconsin

DATE	VINYL CHLORIDE CONCENTRATION[1][2] µg/m^3	SYSTEM FLOW RATE[3] CFM	EMISSION RATE[4] lb/hr	EMISSION RATE[4] lb/yr
1/18/2016	9.0	389.4	1.3E-05	1.1E-01
2/8/2016	4.7	362.2	6.4E-06	5.6E-02
3/7/2016	2.8	364.1	3.8E-06	3.3E-02
4/6/2016	20.0	363.8	2.7E-05	2.4E-01
5/4/2016	18.0	361	2.4E-05	2.1E-01
6/7/2016	20.5	354.9	2.7E-05	2.39E-01
7/20/2016	26.0	359.6	3.5E-05	3.07E-01
8/8/2016	20.5	354.1	2.7E-05	2.38E-01
9/9/2016	9.0	346.9	1.2E-05	1.02E-01
10/10/2016	3.4	361.1	4.6E-06	4.03E-02
11/7/2016	15.5	357.8	2.1E-05	1.82E-01
12/7/2016	7.0	366.9	9.6E-06	8.43E-02
1/17/2016	14.0	376.7	2.0E-05	1.73E-01
2/8/2017	30.0	375.3	4.2E-05	3.69E-01
3/7/2017	7.5	355.8	1.0E-05	8.76E-02
4/6/2017	10.5	352.6	1.4E-05	1.21E-01
5/5/2017	3.2	353.8	4.2E-06	3.71E-02
6/7/2017	16.5	358.1	2.2E-05	1.94E-01
7/11/2017	13.0	346.0	1.7E-05	1.48E-01
8/7/2017	16.0	355.8	2.1E-05	1.87E-01
9/14/2017	19.5	368.0	2.7E-05	2.35E-01
10/5/2017	6.0	367.5	8.3E-06	7.24E-02
11/30/2017	18.0	375.2	2.5E-05	2.22E-01
12/8/2017	26.0	384.0	3.7E-05	3.28E-01
		Average Emission Rate[5] =	**1.7E-01**	**lb/yr**
		NR 445 Emission Threshold =	**830**	**lb/yr**

Notes:

Updated by: L. Auner 1/30/2018
Checked by: B. Wachholz 1/30/2018

VC = Vinyl Chloride
SVE = Soil Vapor Extraction
GETS = Groundwater extraction and treatment system.
CFM = cubic feet per minute
µg/m^3 = micrograms per cubic meters
lb/hr = pounds per hour
lb/yr = pounds per year

Footnotes:

1. As of 7/14/2015 the vapors recovered from the SVE system and the GETS operation were combined and are treated through a vapor-phase activated carbon system. An influent and effluent vapor sample is collected each month and analyzed using Method TO-15. The VC concentration listed is representative of the influent sample collected pre treatment of the SVE and GETS operations.
2. The VC concentration reported in the influent sample was used for emission calculations. If the concentration was reported below the method reporting limit, half of the reporting limit was used for calculations.
3. The system flow rate is a combined air flow rate from both the GETS and SVE system and is measured using flow meter FIT-201 which measures total flow from the activated carbon system.
4. Emission rates were calculated based on the product of the monthly concentration and monthly system flow rate.
5. Average Emission Rate is an average based on samples collected between July 2017 and December 2017.

Table 14
Estimate of GETS Influent Gas Generation Rates
Madison-Kipp Corporation
201 Waubesa Street
Madison, Wisconsin

DATE	CONCENTRATION (ug/m3)	SYSTEM FLOW RATE (CFM) [1,3]	GETS GAS GENERATION RATE (lb/hr) [1,2]	GENERATION RATE AS % OF THRESHOLD
Total VOCs, NR 406 Emission Threshold - 5.7 lb/hr				
9/14/2017	53422	368.0	7.4E-02	1.3%
10/5/2017	50763	367.5	7.0E-02	1.2%
11/13/2017	32477	375.2	4.6E-02	0.80%
12/8/2017	38610	384.0	5.6E-02	0.97%
PCE, NR 445 Emission Threshold - 35.4 lb/hr				
9/14/2017	41000	368.0	5.7E-02	0.16%
10/5/2017	39000	367.5	5.4E-02	0.15%
11/13/2017	20000	375.2	2.8E-02	0.079%
12/8/2017	27000	384.0	3.9E-02	0.11%
TCE, NR 445 Emission Threshold - 56.1 lb/hr				
9/14/2017	5000	368.0	6.9E-03	0.012%
10/5/2017	4800	367.5	6.6E-03	0.012%
11/13/2017	5000	375.2	7.0E-03	0.013%
12/8/2017	4700	384.0	6.8E-03	0.012%
cis-1,2-DCE, NR 445 Emission Threshold - 166 lb/hr				
9/14/2017	2900	368.0	4.0E-03	0.0024%
10/5/2017	3100	367.5	4.3E-03	0.0026%
11/13/2017	5900	375.2	8.3E-03	0.0050%
12/8/2017	4600	384.0	6.6E-03	0.0040%
Vinyl Chloride, NR 445 Emission Threshold - 830 lb/yr = 0.0948 lb/hr				
9/14/2017	34	368.0	4.7E-05	0.049%
10/5/2017	29	367.5	4.0E-05	0.042%
11/13/2017	34	375.2	4.8E-05	0.050%
12/8/2017	35	384.0	5.0E-05	0.053%

Notes:

Prepared by: L. Auner 12/28/2017

Checked by: K. Barber 1/9/2018

VOCs = Volatile Organic Compounds

PCE = Tetrachloroethene

TCE = Trichloroethene

cis-1,2-DCE = cis-1,2-Dichloroethene

GETS = Groundwater extraction and treatment system.

CFM = cubic feet per minute

$\mu g/m^3$ = micrograms per cubic meters

lb/hr = pounds per hour

Footnotes:

1. The estimated rates were calculated using the gas analytical data collected from the GETS only (before treatment was completed) and the total flow rate for GETS and SVE system. Due to the use of this total flow rate, the calculated gas concentration rates are bias high and therefore an overestimate of the expected GETS discharge rates.
2. Total VOC concentrations were calculated based on analytes reported above and below the method reporting limit. For detected analytes, the reported concentrations were used. For all other analytes detected below the method reporting limit, half of the reporting limit was used.
3. The system flow rate is a combined air flow rate from both the GETS and SVE system and is measured using flow meter FIT-201 which measures total flow from the activated carbon system.

Table 15
Summary of SVE Operations - January 1, 2016 - December 30, 2017
Madison Kipp Corporation
201 Waubesa Street
Madison, Wisconsin

WELL ID	DATE	VACUUM (in H2O)	FLOW RATE (cfm)	VOCs (ppm)
SVE-1	6/26/2017	-95.2	14.4	--
SVE-1	7/11/2017	-81.6	18.1	0.8
SVE-1	7/17/2017	-81.6	14.7	--
SVE-1	7/24/2017	-88.4	14.6	--
SVE-1	8/1/2017	-81.6	18.1	--
SVE-1	8/7/2017	-81.6	14.7	1.5
SVE-1	8/15/2017	-74.8	18.2	--
SVE-1	8/25/2017	-74.8	14.9	--
SVE-1	8/29/2017	-81.6	18.1	--
SVE-1	9/6/2017	-74.8	14.9	--
SVE-1	9/11/2017	-74.8	14.9	1.6
SVE-1	9/22/2017	-68.0	18.4	--
SVE-1	9/28/2017	-70.7	15.0	--
SVE-1	10/5/2017	-68.0	15.0	0.8
SVE-1	10/12/2017	-81.6	14.7	--
SVE-1	10/18/2017	-81.6	14.7	--
SVE-1	10/25/2017	-81.6	10.4	--
SVE-1	11/2/2017	-81.6	14.7	--
SVE-1	11/7/2017	-81.6	-(2)	--
SVE-1	11/13/2017	-68.0	15.0	0.9
SVE-1	11/21/2017	-68.0	15.0	--
SVE-1	11/28/2017	-68.0	15.0	--
SVE-1	12/8/2017	-74.8	18.2	0.5
SVE-1	12/13/2017	-74.8	14.9	--
SVE-1	12/19/2017	-68.0	15.0	--
SVE-1	12/28/2017	-81.6	14.7	--
SVE-2	6/26/2017	-88.4	0.0	--
SVE-2	7/11/2017	-81.6	25.5	0.8
SVE-2	7/17/2017	-81.6	27.6	--
SVE-2	7/24/2017	-95.2	0.0	--
SVE-2	8/1/2017	-68.0	30.1	--
SVE-2	8/7/2017	-68.0	30.1	1.8
SVE-2	8/15/2017	-68.0	35.3	--
SVE-2	8/25/2017	-68.0	35.3	--
SVE-2	8/29/2017	-68.0	28.1	--
SVE-2	9/6/2017	-68.0	23.8	--
SVE-2	9/11/2017	-68.0	28.1	0.7
SVE-2	9/22/2017	-68.0	28.1	--
SVE-2	9/28/2017	-61.2	29.4	--
SVE-2	10/5/2017	-68.0	28.1	1.3
SVE-2	10/12/2017	-69.3	28.1	--
SVE-2	10/18/2017	-68.0	28.1	--
SVE-2	10/25/2017	-74.8	27.9	--
SVE-2	11/2/2017	-68.0	35.3	--
SVE-2	11/7/2017	-68.0	-(2)	--
SVE-2	11/13/2017	-54.4	28.7	1.2
SVE-2	11/21/2017	-68.0	31.9	--
SVE-2	11/28/2017	-54.4	30.7	--
SVE-2	12/8/2017	-54.4	34.3	0.7
SVE-2	12/13/2017	-68.0	33.6	--
SVE-2	12/19/2017	-54.4	36.0	--
SVE-2	12/28/2017	-54.4	36.0	--

Table 15
Summary of SVE Operations - January 1, 2016 - December 30, 2017
Madison Kipp Corporation
201 Waubesa Street
Madison, Wisconsin

WELL ID	DATE	VACUUM (in H2O)	FLOW RATE (cfm)	VOCs (ppm)
SVE-3	6/26/2017	-95.2	0.0	--
SVE-3	7/11/2017	-81.6	10.4	2.1
SVE-3	7/17/2017	-81.6	10.4	--
SVE-3	7/24/2017	-108.8	0.0	--
SVE-3	8/1/2017	-81.6	10.4	--
SVE-3	8/7/2017	-81.6	14.7	4.4
SVE-3	8/15/2017	-81.6	10.4	--
SVE-3	8/25/2017	-81.6	10.4	--
SVE-3	8/29/2017	-81.6	10.4	--
SVE-3	9/6/2017	-68.0	0.0	--
SVE-3	9/11/2017	-74.8	10.5	5.9
SVE-3	9/22/2017	-81.6	10.4	--
SVE-3	9/28/2017	-68.0	13.0	--
SVE-3	10/5/2017	-81.6	10.4	4.6
SVE-3	10/12/2017	-81.6	12.8	--
SVE-3	10/18/2017	-81.6	10.4	--
SVE-3	10/25/2017	-81.6	11.4	--
SVE-3	11/2/2017	-81.6	14.7	--
SVE-3	11/7/2017	-81.6	-(2)	--
SVE-3	11/13/2017	-68.0	18.4	3.4
SVE-3	11/21/2017	-81.6	14.7	--
SVE-3	11/28/2017	-68.0	15.0	--
SVE-3	12/8/2017	-74.8	14.9	1.9
SVE-3	12/13/2017	-68.0	10.6	--
SVE-3	12/19/2017	-68.0	15.0	--
SVE-3	12/28/2017	-68.0	15.0	--
SVE-4	6/26/2017	-81.6	23.3	--
SVE-4	7/11/2017	-81.6	23.3	3.3
SVE-4	7/17/2017	-81.6	20.8	--
SVE-4	7/24/2017	-95.2	22.8	--
SVE-4	8/1/2017	-68.0	21.3	--
SVE-4	8/7/2017	-68.0	21.3	8.9
SVE-4	8/15/2017	-68.0	21.3	--
SVE-4	8/25/2017	-68.0	21.3	--
SVE-4	8/29/2017	-68.0	21.3	--
SVE-4	9/6/2017	-68.0	21.3	--
SVE-4	9/11/2017	-68.0	21.3	4.2
SVE-4	9/22/2017	-68.0	21.3	--
SVE-4	9/28/2017	-66.6	21.3	--
SVE-4	10/5/2017	-61.2	21.5	4.4
SVE-4	10/12/2017	-70.7	23.7	--
SVE-4	10/18/2017	-74.8	23.5	--
SVE-4	10/25/2017	-78.2	23.4	--
SVE-4	11/2/2017	-68.0	21.3	--
SVE-4	11/7/2017	-68.0	-(2)	--
SVE-4	11/13/2017	-61.2	21.5	3.5
SVE-4	11/21/2017	-68.0	21.3	--
SVE-4	11/28/2017	-61.2	18.6	--
SVE-4	12/8/2017	-68.0	23.8	2.0
SVE-4	12/13/2017	-61.2	21.5	--
SVE-4	12/19/2017	-61.2	21.5	--
SVE-4	12/28/2017	-68.0	21.3	--

Table 15
Summary of SVE Operations - January 1, 2016 - December 30, 2017
Madison Kipp Corporation
201 Waubesa Street
Madison, Wisconsin

WELL ID	DATE	VACUUM (in H2O)	FLOW RATE (cfm)	VOCs (ppm)
SVE-5	6/26/2017	-95.2	27.0	--
SVE-5	7/11/2017	-81.6	23.3	1.3
SVE-5	7/17/2017	-81.6	25.5	--
SVE-5	7/24/2017	-95.2	27.0	--
SVE-5	8/1/2017	-74.8	23.5	--
SVE-5	8/7/2017	-74.8	23.5	2.9
SVE-5	8/15/2017	-74.8	23.5	--
SVE-5	8/25/2017	-74.8	23.5	--
SVE-5	8/29/2017	-74.8	23.5	--
SVE-5	9/6/2017	-74.8	23.5	--
SVE-5	9/11/2017	-68.0	23.8	2.3
SVE-5	9/22/2017	-68.0	23.8	--
SVE-5	9/28/2017	-70.7	22.5	--
SVE-5	10/5/2017	-68.0	23.8	2.1
SVE-5	10/12/2017	-78.9	24.3	--
SVE-5	10/18/2017	-81.6	23.3	--
SVE-5	10/25/2017	-81.6	24.4	--
SVE-5	11/2/2017	-74.8	23.5	--
SVE-5	11/7/2017	-74.8	-(2)	--
SVE-5	11/13/2017	-68.0	26.1	1.0
SVE-5	11/21/2017	-68.0	23.8	--
SVE-5	11/28/2017	-68.0	23.8	--
SVE-5	12/8/2017	-68.0	23.8	0.6
SVE-5	12/13/2017	-68.0	23.8	--
SVE-5	12/19/2017	-68.0	23.8	--
SVE-5	12/28/2017	-68.0	23.8	--
SVE-6	6/26/2017	-81.6	29.5	--
SVE-6	7/11/2017	-74.8	27.9	0.6
SVE-6	7/17/2017	-81.6	27.6	--
SVE-6	7/24/2017	-88.4	30.9	--
SVE-6	8/1/2017	-68.0	26.1	--
SVE-6	8/7/2017	-68.0	26.1	1.6
SVE-6	8/15/2017	-68.0	26.1	--
SVE-6	8/25/2017	-68.0	31.9	--
SVE-6	8/29/2017	-68.0	26.1	--
SVE-6	9/6/2017	-68.0	26.1	--
SVE-6	9/11/2017	-61.2	26.3	1.3
SVE-6	9/22/2017	-68.0	23.8	--
SVE-6	9/28/2017	-61.2	27.4	--
SVE-6	10/5/2017	-61.2	26.3	1.3
SVE-6	10/12/2017	-70.7	23.7	--
SVE-6	10/18/2017	-68.0	26.1	--
SVE-6	10/25/2017	-71.4	24.8	--
SVE-6	11/2/2017	-68.0	18.4	--
SVE-6	11/7/2017	-68.0	-(2)	--
SVE-6	11/13/2017	-54.4	28.7	0.7
SVE-6	11/21/2017	-68.0	10.6	--
SVE-6	11/28/2017	-54.4	21.7	--
SVE-6	12/8/2017	-61.2	21.5	--
SVE-6	12/13/2017	-68.0	18.4	--
SVE-6	12/19/2017	-54.4	18.8	--
SVE-6	12/28/2017	-54.4	18.8	--

Table 15
Summary of SVE Operations - January 1, 2016 - December 30, 2017
Madison Kipp Corporation
201 Waubesa Street
Madison, Wisconsin

WELL ID	DATE	VACUUM (in H2O)	FLOW RATE (cfm)	VOCs (ppm)
SVE-7	6/26/2017	-95.2	20.4	--
SVE-7	7/11/2017	-81.6	20.8	0.2
SVE-7	7/17/2017	-81.6	18.1	--
SVE-7	7/24/2017	-95.2	20.4	--
SVE-7	8/1/2017	-74.8	21.1	--
SVE-7	8/7/2017	-68.0	18.4	0.6
SVE-7	8/15/2017	-74.8	18.2	--
SVE-7	8/25/2017	-68.0	18.4	--
SVE-7	8/29/2017	-74.8	21.1	--
SVE-7	9/6/2017	-68.0	18.4	--
SVE-7	9/11/2017	-68.0	18.4	0.2
SVE-7	9/22/2017	-68.0	18.4	--
SVE-7	9/28/2017	-68.0	18.4	--
SVE-7	10/5/2017	-68.0	18.4	0.8
SVE-7	10/12/2017	-72.1	20.1	--
SVE-7	10/18/2017	-74.8	18.2	--
SVE-7	10/25/2017	-78.2	19.9	--
SVE-7	11/2/2017	-74.8	21.1	--
SVE-7	11/7/2017	-74.8	-(2)	--
SVE-7	11/13/2017	-68.0	18.4	0.1
SVE-7	11/21/2017	-68.0	18.4	--
SVE-7	11/28/2017	-68.0	18.4	--
SVE-7	12/8/2017	-68.0	21.3	0.2
SVE-7	12/13/2017	-68.0	21.3	--
SVE-7	12/19/2017	-61.2	18.6	--
SVE-7	12/28/2017	-74.8	18.2	--
SVE-8	6/26/2017	-81.6	27.6	--
SVE-8	7/11/2017	-81.6	25.5	0.2
SVE-8	7/17/2017	-81.6	25.5	--
SVE-8	7/24/2017	-95.2	28.9	--
SVE-8	8/1/2017	-74.8	25.8	--
SVE-8	8/7/2017	-74.8	23.5	0.6
SVE-8	8/15/2017	-68.0	23.8	--
SVE-8	8/25/2017	-74.8	23.5	--
SVE-8	8/29/2017	-74.8	23.5	--
SVE-8	9/6/2017	-68.0	23.8	--
SVE-8	9/11/2017	-68.0	23.8	0.3
SVE-8	9/22/2017	-68.0	23.8	--
SVE-8	9/28/2017	-68.0	23.8	--
SVE-8	10/5/2017	-68.0	23.8	0.6
SVE-8	10/12/2017	-77.5	23.4	--
SVE-8	10/18/2017	-74.8	23.5	--
SVE-8	10/25/2017	-81.6	23.3	--
SVE-8	11/2/2017	-68.0	26.1	--
SVE-8	11/7/2017	-74.8	-(2)	--
SVE-8	11/13/2017	-68.0	28.1	0.2
SVE-8	11/21/2017	-68.0	28.1	--
SVE-8	11/28/2017	-68.0	28.1	--
SVE-8	12/8/2017	-68.0	28.1	0.2
SVE-8	12/13/2017	-68.0	28.1	--
SVE-8	12/19/2017	-61.2	28.4	--
SVE-8	12/28/2017	-61.2	26.3	--

Table 15
Summary of SVE Operations - January 1, 2016 - December 30, 2017
Madison Kipp Corporation
201 Waubesa Street
Madison, Wisconsin

WELL ID	DATE	VACUUM (in H2O)	FLOW RATE (cfm)	VOCs (ppm)
SVE-9	6/26/2017	-68.0	23.8	--
SVE-9	7/11/2017	-68.0	23.8	0.7
SVE-9	7/17/2017	-81.6	20.8	--
SVE-9	7/24/2017	-74.8	21.1	--
SVE-9	8/1/2017	-54.4	21.7	--
SVE-9	8/7/2017	-40.8	22.1	2.1
SVE-9	8/15/2017	-54.4	21.7	--
SVE-9	8/25/2017	-27.2	22.5	--
SVE-9	8/29/2017	-54.4	21.7	--
SVE-9	9/6/2017	-27.2	19.5	--
SVE-9	9/11/2017	-34.0	22.3	0.7
SVE-9	9/22/2017	-54.4	18.8	--
SVE-9	9/28/2017	-34.0	20.9	--
SVE-9	10/5/2017	-27.2	19.5	1.2
SVE-9	10/12/2017	-40.8	22.1	--
SVE-9	10/18/2017	-68.0	15.0	--
SVE-9	10/25/2017	-47.6	19.0	--
SVE-9	11/2/2017	-54.4	18.8	--
SVE-9	11/7/2017	-54.4	-(2)	--
SVE-9	11/13/2017	-61.2	18.6	1.0
SVE-9	11/21/2017	-68.0	18.4	--
SVE-9	11/28/2017	-68.0	18.4	--
SVE-9	12/8/2017	-40.8	22.1	0.7
SVE-9	12/13/2017	-54.4	18.8	--
SVE-9	12/19/2017	-54.4	18.8	--
SVE-9	12/28/2017	-54.4	18.8	--

Notes:

System operation data before January 2016 was previously reported.

Photoionization Detector (PID) did not calibrate on April 6, 2016.

NR = No reading recorded during system inspection.

- = data not collected due to operational issues

-- = not monitored

cfm = cubic feet per minute

GETS = Groundwater Extraction System

in H_2O = Inches of water column

ppm = parts per million

SVE = Soil Vapor Extraction

VOCs = Volatile Organic Compounds

Footnotes:

(1) SVE-2 differential pressure gauge not working during 8/15/16 sampling event.

(2) The differential pressure was not recorded during the November 7, 2017 monitoring event.

Table 16
WDNR Approved Performance Monitoring Plan - 2017
Madison-Kipp Corporation
201 Waubesa Street
Madison, Wisconsin

WELL/ POINT ID	BEDROCK UNIT	SCREENED INTERVAL (ft bgs)	APRIL & OCTOBER GAUGING	APRIL VOC SAMPLING	OCTOBER VOC SAMPLING	PUMP TYPE
GWE-1*	Lone Rock/ Wonewoc	55-175	x	x	x	NA
MW-1	Unconsolidated	14-24	x		x	Peristaltic
MW-2S	Unconsolidated	19-29	x			NA
MW-2D	Upper Lone Rock	39-44	x	x	x	Peristaltic
MW-3S	Unconsolidated	19-29	x		x	Peristaltic
MW-3D	Upper Lone Rock	48-53	x	x	x	Peristaltic
MW-3D2	Lower Lone Rock	76-81	x	x	x	Peristaltic
MW-3D3	Lower Wonewoc/ Upper Eau Claire	214-224	x		x	GeoSub
MW-4S**	Unconsolidated/ Upper Lone Rock	35-50	x			NA
MW-4D	Lower Lone Rock	65-70	x			NA
MW-4D2	Lower Lone Rock	91-96	x	x	x	Bladder
MW-5S	Upper Lone Rock	34-44	x		x	Peristaltic
MW-5D	Lower Lone Rock	75-80	x	x	x	Peristaltic
MW-5D2	Lower Wonewoc	166-171	x	x	x	Bladder
MW-5D3	Lower Wonewoc/ Upper Eau Claire	225-235	x	x	x	GeoSub
MW-6S	Unconsolidated/ Upper Lone Rock	32-42	x		x	Bladder
MW-6D	Lower Lone Rock	66-71	x	x	x	Bladder
MW-7	Unconsolidated	25-35	x			NA
MW-8	Unconsolidated	24-34	x			NA
MW-9D	Upper Lone Rock	44-49	x		x	Peristaltic
MW-9D2	Lower Lone Rock	64-69	x	x	x	Peristaltic
MW-10S	Unconsolidated	11-21	x			NA
MW-11S	Unconsolidated	24-34	x			NA
MW-12S	Unconsolidated	3-13	x			NA
MW-17	Upper Wonewoc	160-170	x	x	x	Bladder
MW-18S	Unconsolidated	20-30	x			NA
MW-21D2	Upper/Lower Wonewoc	110-170	x			NA
MW-22S	Unconsolidated	25-35	x		x	Peristaltic
MW-22D	Upper Lone Rock	45-50	x	x	x	Bladder
MW-23S	Unconsolidated	25-35	x		x	Peristaltic
MW-23D	Upper Lone Rock	45-50	x	x	x	Bladder
MW-24	Upper Lone Rock	30-40	x			NA
MW-25D	Upper Wonewoc	120-130	x		x	Bladder
MW-25D2	Upper Wonewoc	160-170	x	x	x	Bladder
MW-26S	Unconsolidated	6.8-16.8	x			NA
MW-27D	Lower Wonewoc	130-140	x	x	x	Bladder
MW-27D2	Lower Wonewoc	170-180	x		x	Bladder
MW-28**	Unconsolidated	28-38	x			NA
MP-13 Port 1	Lower Wonewoc	163-167	x		x	Westbay
MP-13 Port 2	Lower Wonewoc	135-139	x		x	Westbay
MP-13 Port 3	Upper Wonewoc	121-125	x		x	Westbay
MP-13 Port 4	Upper Wonewoc	102-106	x		x	Westbay
MP-13 Port 5	Lower Lone Rock	81-85	x		x	Westbay
MP-13 Port 6	Lower Lone Rock	67-71	x		x	Westbay
MP-13 Port 7	Upper Lone Rock	44-48	x		x	Westbay

Table 16
WDNR Approved Performance Monitoring Plan - 2017
Madison-Kipp Corporation
201 Waubesa Street
Madison, Wisconsin

WELL/ POINT ID	BEDROCK UNIT	SCREENED INTERVAL (ft bgs)	APRIL & OCTOBER GAUGING	APRIL VOC SAMPLING	OCTOBER VOC SAMPLING	PUMP TYPE
MP-14 Port 1	Lower Wonewoc	170-178	x		x	Westbay
MP-14 Port 2	Lower Wonewoc	135-140	x	x	x	Westbay
MP-14 Port 3	Upper Wonewoc	100-105	x		x	Westbay
MP-14 Port 4	Lower Lone Rock	70-75	x			NA
MP-15 Port 1	Lower Wonewoc	177-187	x		x	Westbay
MP-15 Port 2	Lower Wonewoc	142-146	x		x	Westbay
MP-15 Port 3	Lower Wonewoc	120-125	x		x	Westbay
MP-15 Port 4	Upper Wonewoc	100-105	x		x	Westbay
MP-15 Port 5	Upper Wonewoc	88-92	x		x	Westbay
MP-16 Port 1	Lower Wonewoc	175-179	x		x	Westbay
MP-16 Port 2	Lower Wonewoc	140-144	x	x	x	Westbay
MP-16 Port 3	Upper Wonewoc	106-116	x		x	Westbay
MP-16 Port 4	Lower Lone Rock	80-84	x			NA
		Total Sample Points:	**58**	**17**	**43**	

Notes:

* = The GWE-1 influent sample results from the month of the sampling event will be used.

** = MW-4S and MW-28 will be gauged during each semi-annual event.

Created By: K. Vater 2/17/17
Checked By: A. Stehn 2/20/17

Table 17
Summary of Groundwater Elevations - October 2, 2017
Madison Kipp Corporation
201 Waubesa Street
Madison, Wisconsin

WELL/BORING	LITHOLOGY	SCREEN INTERVAL (feet bls)	GROUND ELEVATION (feet amsl)	TOP OF CASING ELEVATION (feet amsl)	DATE	DEPTH TO WATER (feet btoc)	GROUNDWATER ELEVATION (feet amsl)
MW-01	Unconsolidated	14-24	861.71	861.08	10/2/2017	12.16	848.92
MW-02D	Upper Lone Rock	39-44	866.50	868.74	10/2/2017	20.32	848.42
MW-02S	Unconsolidated	19-29	866.34	868.94	10/2/2017	19.82	849.12
MW-03D	Upper Lone Rock	48-53	867.68	867.25	10/2/2017	19.81	847.44
MW-03D2	Lower Lone Rock	76-81	867.58	867.39	10/2/2017	22.15	845.24
MW-03D3	Lower Wonewoc/Upper Eau Claire	214-224	867.61	867.35	10/2/2017	23.46	843.89
MW-03S	Unconsolidated	19-29	867.87	867.41	10/2/2017	18.95	848.46
MW-04D	Lower Lone Rock	65-70	881.18	880.38	10/2/2017	31.40	848.98
MW-04D2	Lower Lone Rock	91-96	880.36	880.20	10/2/2017	31.82	848.38
MW-04S	Unconsolidated/ Upper Lone Rock	35-50	880.81	880.31	10/2/2017	28.96	851.35
MW-05D	Lower Lone Rock	75-80	872.58	872.10	10/2/2017	24.68	847.42
MW-05D2	Lower Wonewoc	165.8-170.8	872.59	872.20	10/2/2017	28.09	844.11
MW-05D3	Lower Wonewoc/Upper Eau Claire	225-235	872.34	871.89	10/2/2017	27.58	844.31
MW-05S	Upper Lone Rock	34-44	872.56	872.14	10/2/2017	23.95	848.19
MW-06D	Lower Lone Rock	65.5-70.5	877.11	876.69	10/2/2017	28.29	848.40
MW-06S	Unconsolidated/ Upper Lone Rock	31.4-41.4	877.20	876.69	10/2/2017	27.11	849.58
MW-07	Unconsolidated	25-35	870.91	870.42	10/2/2017	22.03	848.39
MW-08	Unconsolidated	24-34	867.69	866.78	10/2/2017	18.54	848.24
MW-09D	Upper Lone Rock	44-49	855.80	855.47	10/2/2017	9.25	846.22
MW-09D2	Lower Lone Rock	64-69	855.89	855.48	10/2/2017	9.45	846.03
MW-10S	Unconsolidated	11-21	864.88	864.42	10/2/2017	15.16	849.26
MW-11S	Unconsolidated	24-34	874.10	873.47	10/2/2017	24.79	848.68
MW-12S	Unconsolidated	3-13	859.78	859.41	10/2/2017	9.78	849.63
MW-17	Upper Wonewoc	160-170	877.26	876.65	10/2/2017	32.24	844.41
MW-18S	Unconsolidated	20-30	867.89	867.24	10/2/2017	18.60	848.64
MW-19D	Lower Lone Rock	60-90	867.44	866.75	10/2/2017	21.44	845.31
MW-19D2	Upper Wonewoc	110-140	867.44	866.71	10/2/2017	23.31	843.40
MW-20D	Lower Lone Rock	60-90	867.36	866.96	10/2/2017	21.18	845.78
MW-20D2	Upper Wonewoc	110-140	867.36	867.04	10/2/2017	23.64	843.40
MW-21D	Lower Lone Rock	60-90	867.77	867.49	10/2/2017	21.31	846.18
MW-21D2	Upper/Lower Wonewoc	110-170	867.77	867.46	10/2/2017	23.65	843.81
MW-22D	Upper Lone Rock	45-50	874.45	874.15	10/2/2017	25.79	848.36
MW-22S	Unconsolidated	25-35	874.45	874.12	10/2/2017	25.53	848.59

Table 17
Summary of Groundwater Elevations - October 2, 2017
Madison Kipp Corporation
201 Waubesa Street
Madison, Wisconsin

WELL/BORING	LITHOLOGY	SCREEN INTERVAL (feet bls)	GROUND ELEVATION (feet amsl)	TOP OF CASING ELEVATION (feet amsl)	DATE	DEPTH TO WATER (feet btoc)	GROUNDWATER ELEVATION (feet amsl)
MW-23D	Upper Lone Rock	45-50	874.55	874.27	10/2/2017	24.77	849.50
MW-23S	Unconsolidated	25-35	874.55	874.20	10/2/2017	25.38	848.82
MW-24	Upper Lone Rock	30-40	876.66	876.41	10/2/2017	27.31	849.10
MW-25D	Upper Wonewoc	120-130	886.97	886.69	10/2/2017	41.95	844.74
MW-25D2	Upper Wonewoc	160-170	886.97	886.68	10/2/2017	41.52	845.16
MW-26S	Unconsolidated	6.85-16.85	857.51	856.61	10/2/2017	8.05	848.56
MW-27D	Lower Wonewoc	130-140	862.96	862.65	10/2/2017	17.44	845.21
MW-27D2	Lower Wonewoc	170-180	862.96	862.59	10/2/2017	17.40	845.19
MW-28	Unconsolidated	28-38	874.30	874.05	10/2/2017	25.21	848.84
MP-13	Upper Lone Rock	44-48	864.49	863.99	10/2/2017	16.90	847.09
MP-13	Lower Lone Rock	67-71	864.49	863.99	10/2/2017	18.81	845.18
MP-13	Lower Lone Rock	81-85	864.49	863.99	10/2/2017	19.39	844.60
MP-13	Upper Wonewoc	102-106	864.49	863.99	10/2/2017	20.22	843.77
MP-13	Upper Wonewoc	121-125	864.49	863.99	10/2/2017	20.29	843.70
MP-13	Lower Wonewoc	135-139	864.49	863.99	10/2/2017	20.33	843.66
MP-13	Lower Wonewoc	163-167	864.49	863.99	10/2/2017	20.07	843.92
MP-14	Lower Lone Rock	70-75	866.88	867.28	10/2/2017	18.15	849.13
MP-14	Upper Wonewoc	100-105	866.88	867.28	10/2/2017	21.39	845.89
MP-14	Lower Wonewoc	135-140	866.88	867.28	10/2/2017	21.93	845.35
MP-14	Lower Wonewoc	170-178	866.88	867.28	10/2/2017	22.27	845.01
MP-15	Upper Wonewoc	88-92	855.98	855.50	10/2/2017	10.22	845.28
MP-15	Upper Wonewoc	100-105	855.98	855.50	10/2/2017	10.16	845.34
MP-15	Lower Wonewoc	120-125	855.98	855.50	10/2/2017	10.23	845.27
MP-15	Lower Wonewoc	142-146	855.98	855.50	10/2/2017	10.37	845.13
MP-15	Lower Wonewoc	177-187	855.98	855.50	10/2/2017	10.46	845.04
MP-16	Lower Lone Rock	80-84	870.68	870.17	10/2/2017	22.98	847.19
MP-16	Upper Wonewoc	106-116	870.68	870.17	10/2/2017	25.42	844.75
MP-16	Lower Wonewoc	140-144	870.68	870.17	10/2/2017	25.65	844.52
MP-16	Lower Wonewoc	175-179	870.68	870.17	10/2/2017	26.07	844.10

Created By: Peggy Popp 1/23/18
Checked By: Ben Wachholz 1/29/2018

Table 18
Groundwater Analytical Results Summary
Madison-Kipp Corporation
Madison, Wisconsin

WELL ID SCREEN INTERVAL (feet bgs) SAMPLE DATE	PREVENTIVE ACTION LIMIT	ENFORCEMENT STANDARD	MW-1 14 - 24 ft 04/08/2010	MW-1 14 - 24 ft 03/29/2011	MW-1 14 - 24 ft 04/11/2012	MW-1 14 - 24 ft 01/15/2013	MW-1 14 - 24 ft 04/21/2013	MW-1 14 - 24 ft 07/18/2013	MW-1 14 - 24 ft 10/09/2013	MW-1 14 - 24 ft 04/22/2014	MW-1 14 - 24 ft 10/23/2014	MW-1 14 - 24 ft 04/14/2015	MW-1 14 - 24 ft 10/21/2015	MW-1 14 - 24 ft 10/13/2016	MW-1 14 - 24 ft 10/04/2017
VOCs															
1,1,1,2-Tetrachloroethane	7	70	< 0.25	< 0.25	< 0.31	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.46	< 0.11	< 0.11
1,1,1-Trichloroethane	40	200	< 0.5	< 0.5	< 0.26	< 0.2	< 0.2	< 0.2	< 0.2	< 0.20	< 0.20	< 0.20	< 0.38	< 0.10	< 0.1
1,1,2-Trichloroethane	0.5	5	< 0.25	< 0.25	< 0.3	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.35	< 0.10	< 0.1
1,1-Dichloroethene	0.7	7	***1.1***	***0.95***	***0.94 J***	***0.84 J***	< 0.31	< 0.31	0.62 J	< 0.31	< 0.31	< 0.31	< 0.39	< 0.14	< 0.14
1,2,4-Trimethylbenzene	96	480	< 0.2	< 0.2	< 0.22	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.36	< 0.060	< 0.06
1,2-Dibromoethane	0.005	0.05	< 0.2	< 0.2	< 0.45	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36	< 0.39	< 0.13	< 0.13
1,2-Dichlorobenzene	60	600	< 0.2	< 0.2	< 0.21	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.33	< 0.076	< 0.076
1,2-Dichloropropane	0.5	5	< 0.5	< 0.5	< 0.36	< 0.2	< 0.2	< 0.2	< 0.2	< 0.20	< 0.20	< 0.20	< 0.43	< 0.10	< 0.1
1,2,3-Trichlorobenzene	NE	NE	< 0.25	< 0.25	< 0.36	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.46	< 0.045	< 0.045
1,2,4-Trichlorobenzene	14	70	< 0.25	< 0.25	< 0.22	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.34	< 0.077	< 0.077
1,3,5-Trimethylbenzene	96	480	< 0.2	< 0.2	< 0.23	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.25	< 0.075	< 0.075
2-Butanone	800	4000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 3.0	< 3
2-Hexanone	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.95	< 0.95
4-Methyl-2-pentanone	50	500	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.77	< 0.77
Acetone	1800	9000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 3.4	7.5 BJ
Benzene	0.5	5	< 0.2	< 0.2	< 0.12	< 0.074	< 0.074	< 0.074	< 0.074	< 0.074	< 0.074	< 0.074	< 0.15	< 0.089	< 0.089
Bromodichloromethane	0.06	0.6	< 0.2	< 0.2	< 0.23	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.37	< 0.077	< 0.077
Bromoform	0.44	4.4	< 0.2	< 0.2	< 0.45	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.48	< 0.088	< 0.088
Bromomethane	1	10	< 0.5	< 0.5	< 0.49	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.80	< 0.59	< 0.59
Carbon disulfide	200	1000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.053	< 0.053
Carbon tetrachloride	0.5	5	< 0.8	< 0.8	< 0.28	< 0.26	< 0.26	< 0.26	< 0.26	< 0.26	< 0.26	< 0.26	< 0.38	< 0.038	< 0.038
Chloroform	0.6	6	< 0.2	< 0.2	< 0.25	< 0.2	< 0.2	< 0.2	< 0.2	< 0.20	< 0.20	< 0.20	< 0.37	< 0.062	< 0.062
Chloromethane	3	30	< 0.3	< 0.3	< 0.24	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.32	0.75 BJ	2.2
cis-1,2-Dichloroethene	7	70	***51***	***58***	***38***	***41***	***23***	***25***	***27***	***25***	***22***	***20***	***8***	3.6	2.8
Dichlorodifluoromethane	200	1000	< 0.5	< 0.5	< 0.26	< 0.2	< 0.2	< 0.2	< 0.2	< 0.20	< 0.20	< 0.20	< 0.54	< 0.11	< 0.11
Ethylbenzene	140	700	< 0.5	< 0.5	< 0.14	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.18	< 0.054	< 0.054
Isopropylbenzene	NE	NE	< 0.2	< 0.2	< 0.21	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.39	< 0.081	< 0.081
m,p-Xylene	400	2000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.057	< 0.057
Methyl tert-butyl ether	12	60	< 0.5	< 0.5	< 0.28	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.39	< 0.14	< 0.14
Methylene chloride	0.5	5	< 1	< 1	***8.5***	< 0.68	< 0.68	< 0.68	< 0.68	< 0.68	< 0.68	< 0.68	< 1.6	< 0.14	< 0.14
Naphthalene	10	100	< 0.25	< 0.25	< 0.24	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.34	< 0.088	< 0.088
n-Butylbenzene	NE	NE	< 0.2	< 0.2	< 0.21	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.39	< 0.14	< 0.14
n-Hexane	120	600	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.21	< 0.21
n-Propylbenzene	NE	NE	< 0.5	< 0.5	< 0.19	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.41	< 0.10	< 0.1
o-Xylene	400	2000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.058	< 0.058
p-Isopropyltoluene	NE	NE	< 0.2	< 0.2	< 0.24	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.36	< 0.085	< 0.085
sec-Butylbenzene	NE	NE	< 0.25	< 0.25	< 0.19	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.40	< 0.13	< 0.13
Styrene	10	100	< 0.5	< 0.5	< 0.26	< 0.1	< 0.1	< 0.1	< 0.1	< 0.10	< 0.10	< 0.10	< 0.39	< 0.065	0.07 BJ
tert-Butylbenzene	NE	NE	< 0.2	< 0.2	< 0.24	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.40	< 0.12	< 0.12
Tetrachloroethene	0.5	5	***32***	***9***	***23***	***22***	***10***	***11***	***18***	***19***	***16***	***16***	***4.4***	***5.5***	***4***
Toluene	160	800	< 0.5	< 0.5	< 0.15	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.15	< 0.053	< 0.053
trans-1,2-Dichloroethene	20	100	0.97	0.93	0.77 J	0.78 J	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.35	0.22 J	0.16 J
Trichloroethene	0.5	5	***33***	***20***	***24***	***25***	***23***	***18***	***23***	***28***	***19***	***21***	***6.2***	***3.8***	***2***
Vinyl chloride	0.02	0.2	***1.5***	***1.1***	***0.86***	***0.63***	< 0.1	< 0.1	< 0.1	< 0.10	< 0.10	< 0.10	< 0.20	< 0.16	< 0.16
Xylenes, Total	400	2000	< 0.5	< 0.5	< 0.3	< 0.068	< 0.068	< 0.068	< 0.068	< 0.068	< 0.068	< 0.068	< 0.22	< 0.058	< 0.12
Total PCBs															
Aroclor-1016	0.003	0.03	NA	NA	NA	< 0.17	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1232	0.003	0.03	NA	NA	NA	< 0.091	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1242	0.003	0.03	NA	NA	NA	< 0.13	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1248	0.003	0.03	NA	NA	NA	< 0.11	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Detected PCBs	0.003	0.03	NA	NA	NA	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dissolved PCBs															
Aroclor-1016	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1232	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1242	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1248	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Detected PCBs	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Solids															
Total Dissolved Solids	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Suspended Solids (TSS)	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

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Table 18
Groundwater Analytical Results Summary
Madison-Kipp Corporation
Madison, Wisconsin

WELL ID SCREEN INTERVAL (feet bgs) SAMPLE DATE	PREVENTIVE ACTION LIMIT	ENFORCEMENT STANDARD	MW-2S 19 - 29 ft 04/08/2010	MW-2S 19 - 29 ft 03/30/2011	MW-2S 19 - 29 ft 04/11/2012	MW-2S 19 - 29 ft 01/14/2013	MW-2S 19 - 29 ft 04/20/2013	MW-2S 19 - 29 ft 07/18/2013	MW-2S 19 - 29 ft 10/10/2013	MW-2S 19 - 29 ft 04/17/2014	MW-2S 19 - 29 ft 10/16/2014
VOCs											
1,1,1,2-Tetrachloroethane	7	70	< 0.25	< 0.25	< 0.31	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25
1,1,1-Trichloroethane	40	200	< 0.5	< 0.5	< 0.26	< 0.2	< 0.2	< 0.2	< 0.2	< 0.20	< 0.20
1,1,2-Trichloroethane	0.5	5	< 0.25	< 0.25	< 0.3	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28
1,1-Dichloroethene	0.7	7	< 0.5	< 0.5	< 0.29	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31
1,2,4-Trimethylbenzene	96	480	< 0.2	< 0.2	< 0.22	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14
1,2-Dibromoethane	0.005	0.05	< 0.2	< 0.2	< 0.45	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36
1,2-Dichlorobenzene	60	600	< 0.2	< 0.2	< 0.21	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27
1,2-Dichloropropane	0.5	5	< 0.5	< 0.5	< 0.36	< 0.2	< 0.2	< 0.2	< 0.2	< 0.20	< 0.20
1,2,3-Trichlorobenzene	NE	NE	< 0.25	< 0.25	< 0.36	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24
1,2,4-Trichlorobenzene	14	70	< 0.25	< 0.25	< 0.22	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31
1,3,5-Trimethylbenzene	96	480	< 0.2	< 0.2	< 0.23	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18
2-Butanone	800	4000	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Hexanone	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Methyl-2-pentanone	50	500	NA	NA	NA	NA	NA	NA	NA	NA	NA
Acetone	1800	9000	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzene	0.5	5	< 0.2	< 0.2	< 0.12	< 0.074	< 0.074	< 0.074	< 0.074	< 0.074	< 0.074
Bromodichloromethane	0.06	0.6	< 0.2	< 0.2	< 0.23	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17
Bromoform	0.44	4.4	< 0.2	< 0.2	< 0.45	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28
Bromomethane	1	10	< 0.5	< 0.5	< 0.49	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31
Carbon disulfide	200	1000	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon tetrachloride	0.5	5	< 0.8	< 0.8	< 0.28	< 0.26	< 0.26	< 0.26	< 0.26	< 0.26	< 0.26
Chloroform	0.6	6	< 0.2	< 0.2	< 0.25	< 0.2	< 0.2	< 0.2	< 0.2	< 0.20	< 0.20
Chloromethane	3	30	< 0.3	< 0.3	< 0.24	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18
cis-1,2-Dichloroethene	7	70	< 0.5	< 0.5	< 0.22	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12
Dichlorodifluoromethane	200	1000	< 0.5	< 0.5	< 0.26	< 0.2	< 0.2	< 0.2	< 0.2	< 0.20	< 0.20
Ethylbenzene	140	700	< 0.5	< 0.5	< 0.14	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13
Isopropylbenzene	NE	NE	< 0.2	< 0.2	< 0.21	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14
m,p-Xylene	400	2000	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methyl tert-butyl ether	12	60	< 0.5	< 0.5	< 0.28	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24
Methylene chloride	0.5	5	< 1	< 1	***8.6***	< 0.68	< 0.68	< 0.68	< 0.68	< 0.68	< 0.68
Naphthalene	10	100	< 0.25	< 0.25	< 0.24	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16
n-Butylbenzene	NE	NE	< 0.2	< 0.2	< 0.21	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13
n-Hexane	120	600	NA	NA	NA	NA	NA	NA	NA	NA	NA
n-Propylbenzene	NE	NE	< 0.5	< 0.5	< 0.19	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13
o-Xylene	400	2000	NA	NA	NA	NA	NA	NA	NA	NA	NA
p-Isopropyltoluene	NE	NE	< 0.2	< 0.2	< 0.24	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17
sec-Butylbenzene	NE	NE	< 0.25	< 0.25	< 0.19	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15
Styrene	10	100	< 0.5	< 0.5	< 0.26	< 0.1	< 0.1	< 0.1	< 0.1	< 0.10	< 0.10
tert-Butylbenzene	NE	NE	< 0.2	< 0.2	< 0.24	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14
Tetrachloroethene	0.5	5	***1.6***	***1.3***	***1.2***	***1.3***	***1.3***	***0.81 J***	***1.1***	***1.3***	***1***
Toluene	160	800	< 0.5	< 0.5	< 0.15	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11
trans-1,2-Dichloroethene	20	100	< 0.5	< 0.5	< 0.27	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25
Trichloroethene	0.5	5	< 0.2	< 0.2	< 0.18	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19
Vinyl chloride	0.02	0.2	< 0.2	< 0.2	< 0.13	< 0.1	< 0.1	< 0.1	< 0.1	< 0.10	< 0.10
Xylenes, Total	400	2000	< 0.5	< 0.5	< 0.3	< 0.068	< 0.068	< 0.068	< 0.068	< 0.068	< 0.068
Total PCBs											
Aroclor-1016	0.003	0.03	NA	NA	NA	< 0.17	NA	NA	NA	NA	NA
Aroclor-1232	0.003	0.03	NA	NA	NA	< 0.091	NA	NA	NA	NA	NA
Aroclor-1242	0.003	0.03	NA	NA	NA	< 0.13	NA	NA	NA	NA	NA
Aroclor-1248	0.003	0.03	NA	NA	NA	< 0.11	NA	NA	NA	NA	NA
Total Detected PCBs	0.003	0.03	NA	NA	NA	ND	NA	NA	NA	NA	NA
Dissolved PCBs											
Aroclor-1016	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1232	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1242	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1248	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Detected PCBs	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA
Solids											
Total Dissolved Solids	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Suspended Solids (TSS)	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA

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Table 18
Groundwater Analytical Results Summary
Madison-Kipp Corporation
Madison, Wisconsin

WELL ID SCREEN INTERVAL (feet bgs) SAMPLE DATE	PREVENTIVE ACTION LIMIT	ENFORCEMENT STANDARD	MW-2D 39 - 44 ft 04/08/2010	MW-2D 39 - 44 ft 10/01/2010	MW-2D 39 - 44 ft 03/30/2011	MW-2D 39 - 44 ft 04/11/2012	MW-2D 39 - 44 ft 01/15/2013	MW-2D 39 - 44 ft 04/20/2013	MW-2D 39 - 44 ft 07/18/2013	MW-2D 39 - 44 ft 10/10/2013	MW-2D 39 - 44 ft 04/17/2014	MW-2D 39 - 44 ft 10/16/2014	MW-2D 39 - 44 ft 04/14/2015	MW-2D 39 - 44 ft 10/21/2015	MW-2D 39 - 44 ft 01/25/2016	MW-2D 39 - 44 ft 04/21/2016	MW-2D 39 - 44 ft 07/19/2016	MW-2D 39 - 44 ft 10/13/2016	MW-2D 39 - 44 ft 1/19/2017	MW-2D 39 - 44 ft 04/12/2017	MW-2D 39 - 44 ft 10/04/2017
VOCs																					
1,1,1,2-Tetrachloroethane	7	70	< 8	< 0.25	< 4	< 0.31	< 0.5	< 0.5	< 0.25	< 0.25	< 0.25	< 0.50	< 0.25	< 0.46	< 0.55	< 1.1	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11
1,1,1-Trichloroethane	40	200	< 16	< 0.5	< 8	< 0.26	< 0.4	< 0.4	< 0.2	< 0.2	< 0.20	< 0.40	< 0.20	< 0.38	< 0.50	< 1.0	< 0.10	< 0.10	< 0.10	< 0.10	< 0.1
1,1,2-Trichloroethane	0.5	5	< 8	< 0.25	< 4	< 0.3	< 0.56	< 0.56	< 0.28	< 0.28	< 0.28	< 0.56	< 0.28	< 0.35	< 0.50	< 1.0	< 0.10	< 0.10	< 0.10	< 0.10	< 0.1
1,1-Dichloroethene	0.7	7	< 16	< 0.5	< 8	< 0.29	< 0.62	< 0.62	< 0.31	< 0.31	< 0.31	< 0.62	< 0.31	< 0.39	< 0.70	< 1.4	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14
1,2,4-Trimethylbenzene	96	480	< 6.4	< 0.2	< 3.2	< 0.22	< 0.28	< 0.28	< 0.14	< 0.14	< 0.14	< 0.28	< 0.14	< 0.36	< 0.30	< 0.60	< 0.060	< 0.060	< 0.060	< 0.060	< 0.06
1,2-Dibromoethane	0.005	0.05	< 6.4	< 0.2	< 3.2	< 0.45	< 0.72	< 0.72	< 0.36	< 0.36	< 0.36	< 0.72	< 0.36	< 0.39	< 0.65	< 1.3	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13
1,2-Dichlorobenzene	60	600	< 6.4	< 0.2	< 3.2	< 0.21	< 0.54	< 0.54	< 0.27	< 0.27	< 0.27	< 0.54	< 0.27	< 0.33	0.45 J	< 0.76	< 0.076	< 0.076	< 0.076	< 0.076	< 0.076
1,2-Dichloropropane	0.5	5	< 16	< 0.5	< 8	< 0.36	< 0.4	< 0.4	< 0.2	< 0.2	< 0.20	< 0.40	< 0.20	< 0.43	< 0.50	< 1.0	< 0.10	< 0.10	< 0.10	< 0.10	< 0.1
1,2,3-Trichlorobenzene	NE	NE	< 8	< 0.25	< 4	< 0.36	< 0.48	< 0.48	< 0.24	< 0.24	< 0.24	< 0.48	< 0.24	< 0.46	< 0.23	< 0.45	< 0.045	< 0.045	< 0.045	< 0.045	< 0.045
1,2,4-Trichlorobenzene	14	70	< 8	< 0.25	< 4	< 0.22	< 0.62	< 0.62	< 0.31	< 0.31	< 0.31	< 0.62	< 0.31	< 0.34	0.85 J	< 0.77	< 0.077	< 0.077	< 0.077	< 0.077	< 0.077
1,3,5-Trimethylbenzene	96	480	< 6.4	< 0.2	< 3.2	< 0.23	< 0.36	< 0.36	< 0.18	< 0.18	< 0.18	< 0.36	< 0.18	< 0.25	< 0.38	< 0.75	< 0.075	< 0.075	< 0.075	< 0.075	< 0.075
2-Butanone	800	4000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 15	< 30	< 3.0	< 3.0	< 3.0	< 3.0	< 3
2-Hexanone	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 4.8	< 9.5	< 0.95	< 0.95	< 0.95	< 0.95	< 0.95
4-Methyl-2-pentanone	50	500	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 3.9	< 7.7	< 0.77	< 0.77	< 0.77	< 0.77	< 0.77
Acetone	1800	9000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 17	< 34	< 3.4	< 3.4	< 3.4	15 BJ	< 3.4
Benzene	0.5	5	< 6.4	< 0.2	< 3.2	< 0.12	< 0.15	< 0.15	< 0.074	< 0.074	< 0.074	< 0.15	< 0.074	< 0.15	< 0.45	< 0.89	< 0.089	< 0.089	< 0.089	< 0.089	< 0.089
Bromodichloromethane	0.06	0.6	< 6.4	< 0.2	< 3.2	< 0.23	< 0.34	< 0.34	< 0.17	< 0.17	< 0.17	< 0.34	< 0.17	< 0.37	< 0.39	< 0.77	< 0.077	< 0.077	< 0.077	< 0.077	< 0.077
Bromoform	0.44	4.4	< 6.4	< 0.2	< 3.2	< 0.45	< 0.56	< 0.56	< 0.28	< 0.28	< 0.28	< 0.56	< 0.28	< 0.48	< 0.44	< 0.88	< 0.088	< 0.088	< 0.088	< 0.088	< 0.088
Bromomethane	1	10	< 16	< 0.5	< 8	< 0.49	< 0.62	< 0.62	< 0.31	< 0.31	< 0.31	< 0.62	< 0.31	< 0.80	< 3.0	< 5.9	< 0.59	< 0.59	< 0.59	< 0.59	< 0.59
Carbon disulfide	200	1000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.27	< 0.53	< 0.053	< 0.053	< 0.053	< 0.053	< 0.053
Carbon tetrachloride	0.5	5	< 26	< 0.8	< 13	< 0.28	< 0.52	< 0.52	< 0.26	< 0.26	< 0.26	< 0.52	< 0.26	< 0.38	< 0.19	< 0.38	< 0.038	< 0.038	< 0.038	< 0.038	< 0.038
Chloroform	0.6	6	< 6.4	< 0.2	< 3.2	< 0.25	< 0.4	< 0.4	< 0.2	< 0.2	< 0.20	< 0.40	< 0.20	< 0.37	< 0.31	< 0.62	< 0.062	< 0.062	< 0.062	< 0.062	< 0.062
Chloromethane	3	30	< 9.6	< 0.3	< 4.8	< 0.24	< 0.36	< 0.36	< 0.18	< 0.18	< 0.18	< 0.36	< 0.18	< 0.32	< 0.80	< 1.6	0.20 J	0.81 BJ	0.33 BJ	0.30 J+	1.4 J
cis-1,2-Dichloroethene	7	70	< 16	0.67	< 8	< 0.22	< 0.24	< 0.24	< 0.12	< 0.12	< 0.12	< 0.24	< 0.12	< 0.41	< 0.55	< 1.1	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11
Dichlorodifluoromethane	200	1000	< 16	< 0.5	< 8	< 0.26	< 0.4	< 0.4	< 0.2	< 0.2	< 0.20	< 0.40	< 0.20	< 0.54	< 0.55	< 1.1	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11
Ethylbenzene	140	700	< 16	< 0.5	< 8	< 0.14	< 0.26	< 0.26	< 0.13	< 0.13	< 0.13	< 0.26	< 0.13	< 0.18	< 0.27	< 0.54	< 0.054	< 0.054	< 0.054	< 0.054	< 0.054
Isopropylbenzene	NE	NE	< 6.4	< 0.2	< 3.2	< 0.21	< 0.28	< 0.28	< 0.14	< 0.14	< 0.14	< 0.28	< 0.14	< 0.39	< 0.41	< 0.81	< 0.081	< 0.081	< 0.081	< 0.081	< 0.081
m,p-Xylene	400	2000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.29	< 0.57	< 0.057	< 0.057	< 0.057	< 0.057	< 0.057
Methyl tert-butyl ether	12	60	< 16	< 0.5	< 8	< 0.28	< 0.48	< 0.48	< 0.24	< 0.24	< 0.24	< 0.48	< 0.24	< 0.39	< 0.70	< 1.4	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14
Methylene chloride	0.5	5	< 32	< 1	< 16	***8.1***	< 1.4	< 1.4	< 0.68	< 0.68	< 0.68	< 1.4	< 0.68	< 1.6	< 0.70	< 1.4	< 0.14	< 0.14	***0.82 BJ***	< 0.14	< 0.14
Naphthalene	10	100	< 8	< 0.25	< 4	< 0.24	< 0.32	< 0.32	< 0.16	< 0.16	< 0.16	< 0.32	< 0.16	< 0.34	< 0.44	< 0.88	< 0.088	< 0.088	< 0.088	< 0.088	< 0.088
n-Butylbenzene	NE	NE	< 6.4	< 0.2	< 3.2	< 0.21	< 0.26	< 0.26	< 0.13	< 0.13	< 0.13	< 0.26	< 0.13	< 0.39	< 0.70	< 1.4	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14
n-Hexane	120	600	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 1.1	< 2.1	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21
n-Propylbenzene	NE	NE	< 16	< 0.5	< 8	< 0.19	< 0.26	< 0.26	< 0.13	< 0.13	< 0.13	< 0.26	< 0.13	< 0.41	< 0.50	< 1.0	< 0.10	< 0.10	< 0.10	< 0.10	< 0.1
o-Xylene	400	2000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.29	< 0.58	< 0.058	< 0.058	< 0.058	< 0.058	< 0.058
p-Isopropyltoluene	NE	NE	< 6.4	< 0.2	< 3.2	< 0.24	< 0.34	< 0.34	< 0.17	< 0.17	< 0.17	< 0.34	< 0.17	< 0.36	< 0.43	< 0.85	< 0.085	< 0.085	< 0.085	< 0.085	< 0.085
sec-Butylbenzene	NE	NE	< 8	< 0.25	< 4	< 0.19	< 0.3	< 0.3	< 0.15	< 0.15	< 0.15	< 0.30	< 0.15	< 0.40	< 0.65	< 1.3	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13
Styrene	10	100	< 16	< 0.5	< 8	< 0.26	< 0.2	< 0.2	< 0.1	< 0.1	< 0.10	< 0.20	< 0.10	< 0.39	< 0.33	< 0.65	< 0.065	< 0.065	< 0.065	< 0.065	< 0.065
tert-Butylbenzene	NE	NE	< 6.4	< 0.2	< 3.2	< 0.24	< 0.28	< 0.28	< 0.14	< 0.14	< 0.14	< 0.28	< 0.14	< 0.40	< 0.60	< 1.2	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12
Tetrachloroethene	0.5	5	***1400***	***1300***	***1000***	***610***	***720***	***910***	***580***	***440***	***450***	***540***	***250***	***210***	***85***	***290***	***81***	***28***	***22***	***19***	***38***
Toluene	160	800	< 16	< 0.5	< 8	< 0.15	< 0.22	< 0.22	< 0.11	< 0.11	< 0.11	< 0.22	< 0.11	< 0.15	0.30 J	< 0.53	< 0.053	0.090 J	0.090 BJ	< 0.053	< 0.053
trans-1,2-Dichloroethene	20	100	< 16	< 0.5	< 8	< 0.27	< 0.5	< 0.5	< 0.25	< 0.25	< 0.25	< 0.50	< 0.25	< 0.35	< 0.55	< 1.1	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11
Trichloroethene	0.5	5	***20***	***16***	***9.8***	***5.4***	***5.1***	***6.4***	***4.1***	***3***	***2.5***	***2.1***	***1.2***	***0.73***	***0.60 J***	< 0.62	0.24 J	0.10 J	0.12 BJ	0.12 J	0.09 J
Vinyl chloride	0.02	0.2	< 6.4	< 0.2	< 3.2	< 0.13	< 0.2	< 0.2	< 0.1	< 0.1	< 0.10	< 0.20	< 0.10	< 0.20	< 0.80	< 1.6	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16
Xylenes, Total	400	2000	< 16	< 0.5	< 8	< 0.3	< 0.14	< 0.14	< 0.068	< 0.068	< 0.068	< 0.14	< 0.068	< 0.22	< 0.29	< 0.58	< 0.058	< 0.058	< 0.12	< 0.12	< 0.12
Total PCBs																					
Aroclor-1016	0.003	0.03	NA	NA	NA	NA	< 0.18	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1232	0.003	0.03	NA	NA	NA	NA	< 0.096	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1242	0.003	0.03	NA	NA	NA	NA	< 0.14	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1248	0.003	0.03	NA	NA	NA	NA	< 0.11	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Detected PCBs	0.003	0.03	NA	NA	NA	NA	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dissolved PCBs																					
Aroclor-1016	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1232	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1242	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1248	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Detected PCBs	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Solids																					
Total Dissolved Solids	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Suspended Solids (TSS)	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

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Table 18
Groundwater Analytical Results Summary
Madison-Kipp Corporation
Madison, Wisconsin

WELL ID			MW-3S	MW-3S	MW-3S	MW-3S	MW-3S	MW-3S	MW-3S	MW-3S	MW-3S	MW-3S	MW-3S	MW-3S	MW-3S	MW-3S[1]	MW-3S[1,3]	MW-3S	MW-3S[1]	MW-3S[1]	MW-3S	MW-3S	MW-3S[1]	MW-3S	MW-3S	MW-3S	MW-3S
SCREEN INTERVAL (feet bgs)	PREVENTIVE	ENFORCEMENT	19 - 29 ft	19 - 29 ft	19 - 29 ft	19 - 29 ft	19 - 29 ft	19 - 29 ft	19 - 29 ft	19 - 29 ft	19 - 29 ft	19 - 29 ft	19 - 29 ft	19 - 29 ft	19 - 29 ft	19 - 29 ft	19 - 29 ft	19 - 29 ft	19 - 29 ft	19 - 29 ft	19 - 29 ft	19 - 29 ft	19 - 29 ft	19 - 29 ft	19 - 29 ft	19 - 29 ft	19 - 29 ft
SAMPLE DATE	ACTION LIMIT	STANDARD	04/07/2010	03/29/2011	04/12/2012	11/30/2012	12/18/2012	12/19/2012	12/28/2012	01/03/2013	01/15/2013	01/15/2013	01/31/2013	02/12/2013	02/12/2013	02/12/2013	02/12/2013	02/28/2013	03/12/2013	04/16/2013	07/16/2013	10/10/2013	04/16/2014	10/22/2014	04/13/2015	10/21/2015	10/13/2016	10/05/2017
VOCs																											
1,1,1,2-Tetrachloroethane	7	70	< 8	< 6.3	< 1.6	< 1.3	NA	NA	NA	NA	NA	< 0.25	NA	NA	NA	< 0.25	< 0.25	NA	< 0.25	< 0.25	< 0.5	< 0.5	< 1.3	< 0.25	< 1.3	< 0.92	< 2.2	< 2.8
1,1,1-Trichloroethane	40	200	< 16	< 13	< 1.3	< 1	NA	NA	NA	NA	NA	< 0.2	NA	NA	NA	< 0.2	< 0.2	NA	< 0.2	< 0.2	< 0.4	< 0.4	< 1.0	< 0.20	< 1.0	< 0.76	< 2.0	< 2.5
1,1,2-Trichloroethane	0.5	5	< 8	< 6.3	< 1.5	< 1.4	NA	NA	NA	NA	NA	< 0.28	NA	NA	NA	< 0.28	< 0.28	NA	< 0.28	< 0.28	< 0.56	< 0.56	< 1.4	< 0.28	< 1.4	< 0.70	< 2.0	< 2.5
1,1-Dichloroethene	0.7	7	< 16	< 13	< 1.5	< 1.6	NA	NA	NA	NA	NA	< 0.31	NA	NA	NA	< 0.31	< 0.31	NA	< 0.31	< 0.31	< 0.62	< 0.62	< 1.6	< 0.31	< 1.6	< 0.78	< 2.8	< 3.5
1,2,4-Trimethylbenzene	96	480	< 6.4	< 5	< 1.1	< 0.7	NA	NA	NA	NA	NA	< 0.14	NA	NA	NA	< 0.14	< 0.14	NA	< 0.14	< 0.14	< 0.28	< 0.28	< 0.70	< 0.14	< 0.70	< 0.72	< 1.2	< 1.5
1,2-Dibromoethane	0.005	0.05	< 6.4	< 5	< 2.3	< 1.8	NA	NA	NA	NA	NA	< 0.36	NA	NA	NA	< 0.36	< 0.36	NA	< 0.36	< 0.36	< 0.72	< 0.72	< 1.8	< 0.36	< 1.8	< 0.77	< 2.6	< 3.3
1,2-Dichlorobenzene	60	600	< 6.4	< 5	< 1.1	< 1.4	NA	NA	NA	NA	NA	< 0.27	NA	NA	NA	< 0.27	< 0.27	NA	< 0.27	< 0.27	< 0.54	< 0.54	< 1.4	< 0.27	< 1.4	< 0.67	< 1.5	< 1.9
1,2-Dichloropropane	0.5	5	< 16	< 13	< 1.8	< 1	NA	NA	NA	NA	NA	< 0.2	NA	NA	NA	< 0.2	< 0.2	NA	< 0.2	< 0.2	< 0.4	< 0.4	< 1.0	< 0.20	< 1.0	< 0.86	< 2.0	< 2.5
1,2,3-Trichlorobenzene	NE	NE	< 8	< 6.3	< 1.8	< 1.2	NA	NA	NA	NA	NA	< 0.24	NA	NA	NA	< 0.24	< 0.24	NA	< 0.24	< 0.24	< 0.48	< 0.48	< 1.2	< 0.24	< 1.2	< 0.92	< 0.90	< 1.1
1,2,4-Trichlorobenzene	14	70	< 8	< 6.3	< 1.1	< 1.6	NA	NA	NA	NA	NA	< 0.31	NA	NA	NA	< 0.31	< 0.31	NA	< 0.31	< 0.31	< 0.62	< 0.62	< 1.6	< 0.31	< 1.6	< 0.68	< 1.5	< 1.9
1,3,5-Trimethylbenzene	96	480	< 6.4	< 5	< 1.2	< 0.9	NA	NA	NA	NA	NA	< 0.18	NA	NA	NA	< 0.18	< 0.18	NA	< 0.18	< 0.18	< 0.36	< 0.36	< 0.90	< 0.18	< 0.90	< 0.51	< 1.5	< 1.9
2-Butanone	800	4000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 60	< 75
2-Hexanone	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 19	< 24
4-Methyl-2-pentanone	50	500	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 15	< 19
Acetone	1800	9000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 68	< 85
Benzene	0.5	5	< 6.4	< 5	< 0.6	***1.5 J***	NA	NA	NA	NA	NA	0.42 J	NA	NA	NA	***0.88***	***0.9***	NA	***1***	***0.6***	***0.70 J***	***1***	< 0.37	***0.67***	< 0.37	< 0.29	< 1.8	< 2.2
Bromodichloromethane	0.06	0.6	< 6.4	< 5	< 1.2	< 0.85	NA	NA	NA	NA	NA	< 0.17	NA	NA	NA	< 0.17	< 0.17	NA	< 0.17	< 0.17	< 0.34	< 0.34	< 0.85	< 0.17	< 0.85	< 0.74	< 1.5	< 1.9
Bromoform	0.44	4.4	< 6.4	< 5	< 2.3	< 1.4	NA	NA	NA	NA	NA	< 0.28	NA	NA	NA	< 0.28	< 0.28	NA	< 0.28	< 0.28	< 0.56	< 0.56	< 1.4	< 0.28	< 1.4	< 0.97	< 1.8	< 2.2
Bromomethane	1	10	< 16	< 13	< 2.5	< 1.6	NA	NA	NA	NA	NA	< 0.31	NA	NA	NA	< 0.31	< 0.31	NA	< 0.31	< 0.31	< 0.62	< 0.62	< 1.6	< 0.31	< 1.6	< 1.6	< 12	< 15
Carbon disulfide	200	1000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 1.1	< 1.3
Carbon tetrachloride	0.5	5	< 26	< 20	< 1.4	< 1.3	NA	NA	NA	NA	NA	< 0.26	NA	NA	NA	< 0.26	< 0.26	NA	< 0.26	< 0.26	< 0.52	< 0.52	< 1.3	< 0.26	< 1.3	< 0.77	< 0.76	< 0.95
Chloroform	0.6	6	< 6.4	< 5	***3.7 J***	***5***	NA	NA	NA	NA	NA	***1.6***	NA	NA	NA	***3***	***3.2***	NA	***4.1***	***2.7***	***2.8***	***3.7***	***3.4 J***	***2.4***	< 1.0	***3***	< 1.2	< 1.6
Chloromethane	3	30	< 9.6	< 7.5	< 1.2	< 0.9	NA	NA	NA	NA	NA	< 0.18	NA	NA	NA	< 0.18	< 0.18	NA	< 0.18	< 0.18	< 0.36	< 0.36	< 0.90	< 0.18	< 0.90	< 0.64	***11 BJ***	< 4
cis-1,2-Dichloroethene	7	70	***83***	***37***	***89***	***98***	NA	NA	NA	NA	NA	< 0.12	NA	NA	NA	1.6	1.8	NA	5.0	< 0.12	***14***	***58***	< 0.60	***35***	***54***	***36***	***29***	***20***
Dichlorodifluoromethane	200	1000	< 16	< 13	< 1.3	< 1	NA	NA	NA	NA	NA	< 0.2	NA	NA	NA	< 0.2	< 0.2	NA	< 0.2	< 0.2	< 0.4	< 0.4	< 1.0	< 0.20	< 1.0	< 1.1	< 2.2	< 2.8
Ethylbenzene	140	700	< 16	< 13	< 0.7	< 0.65	NA	NA	NA	NA	NA	0.36 J	NA	NA	NA	< 0.13	< 0.13	NA	< 0.13	< 0.13	< 0.26	< 0.26	< 0.65	< 0.13	< 0.65	< 0.37	< 1.1	< 1.4
Isopropylbenzene	NE	NE	< 6.4	< 5	< 1.1	< 0.7	NA	NA	NA	NA	NA	< 0.14	NA	NA	NA	< 0.14	< 0.14	NA	< 0.14	< 0.14	< 0.28	< 0.28	< 0.70	< 0.14	< 0.70	< 0.77	< 1.6	< 2
m,p-Xylene	400	2000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 1.1	< 1.4
Methyl tert-butyl ether	12	60	< 16	< 13	< 1.4	< 1.2	NA	NA	NA	NA	NA	< 0.24	NA	NA	NA	< 0.24	< 0.24	NA	< 0.24	< 0.24	< 0.48	< 0.48	< 1.2	< 0.24	< 1.2	< 0.79	< 2.8	< 3.5
Methylene chloride	0.5	5	< 32	< 25	< 3.2	< 3.4	NA	NA	NA	NA	NA	< 0.68	NA	NA	NA	< 0.68	< 0.68	NA	< 0.68	< 0.68	< 1.4	< 1.4	< 3.4	< 0.68	< 3.4	***17***	< 2.8	< 3.5
Naphthalene	10	100	< 8	< 6.3	< 1.2	< 0.8	NA	NA	NA	NA	NA	< 0.16	NA	NA	NA	< 0.16	< 0.16	NA	< 0.16	< 0.16	< 0.32	< 0.32	< 0.80	< 0.16	< 0.80	< 0.67	< 1.8	< 2.2
n-Butylbenzene	NE	NE	< 6.4	< 5	< 1.1	< 0.65	NA	NA	NA	NA	NA	< 0.13	NA	NA	NA	< 0.13	< 0.13	NA	< 0.13	< 0.13	< 0.26	< 0.26	< 0.65	< 0.13	< 0.65	< 0.78	< 2.8	< 3.5
n-Hexane	120	600	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 4.2	< 5.3
n-Propylbenzene	NE	NE	< 16	< 13	< 0.95	< 0.65	NA	NA	NA	NA	NA	< 0.13	NA	NA	NA	< 0.13	< 0.13	NA	< 0.13	< 0.13	< 0.26	< 0.26	< 0.65	< 0.13	< 0.65	< 0.83	< 2.0	< 2.5
o-Xylene	400	2000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 1.2	< 1.5
p-Isopropyltoluene	NE	NE	< 6.4	< 5	< 1.2	< 0.85	NA	NA	NA	NA	NA	< 0.17	NA	NA	NA	< 0.17	< 0.17	NA	< 0.17	< 0.17	< 0.34	< 0.34	< 0.85	< 0.17	< 0.85	< 0.72	< 1.7	< 2.1
sec-Butylbenzene	NE	NE	< 8	< 6.3	< 0.95	< 0.75	NA	NA	NA	NA	NA	< 0.15	NA	NA	NA	< 0.15	< 0.15	NA	< 0.15	< 0.15	< 0.3	< 0.3	< 0.75	< 0.15	< 0.75	< 0.80	< 2.6	< 3.3
Styrene	10	100	< 16	< 13	< 1.3	< 0.5	NA	NA	NA	NA	NA	< 0.1	NA	NA	NA	< 0.1	< 0.1	NA	< 0.1	< 0.1	< 0.2	< 0.2	< 0.50	< 0.10	< 0.50	< 0.77	< 1.3	< 1.6
tert-Butylbenzene	NE	NE	< 6.4	< 5	< 1.2	< 0.7	NA	NA	NA	NA	NA	< 0.14	NA	NA	NA	< 0.14	< 0.14	NA	< 0.14	< 0.14	< 0.28	< 0.28	< 0.70	< 0.14	< 0.70	< 0.80	< 2.4	< 3
Tetrachloroethene	0.5	5	***2000***	***1100***	***1600***	***2400***	NA	NA	NA	NA	NA	***88***	NA	NA	NA	***600***	***600***	NA	***750***	***20***	***840***	***1000***	***630***	***770***	***1300***	***1300***	***860***	***690 B***
Toluene	160	800	< 16	< 13	< 0.75	< 0.55	NA	NA	NA	NA	NA	0.38 J	NA	NA	NA	< 0.11	< 0.11	NA	< 0.11	< 0.11	< 0.22	< 0.22	< 0.55	< 0.11	< 0.55	< 0.30	< 1.1	< 1.3
trans-1,2-Dichloroethene	20	100	< 16	< 13	5.4	6.0	NA	NA	NA	NA	NA	< 0.25	NA	NA	NA	< 0.25	< 0.25	NA	< 0.25	< 0.25	< 0.5	4.9	< 1.3	2.7	< 1.3	3.1	3.4 J	< 2.8
Trichloroethene	0.5	5	***130***	***66***	***120***	***160***	NA	NA	NA	NA	NA	< 0.19	NA	NA	NA	***6.8***	***6.7***	NA	***16***	< 0.19	***26***	***100***	***6.9***	***82***	***120***	***90***	***86***	***65***
Vinyl chloride	0.02	0.2	< 6.4	< 5	< 0.65	< 0.5	NA	NA	NA	NA	NA	< 0.1	NA	NA	NA	< 0.1	< 0.1	NA	< 0.1	< 0.1	< 0.2	< 0.2	< 0.50	< 0.10	< 0.50	< 0.41	< 3.2	< 4
Xylenes, Total	400	2000	< 16	< 13	< 1.5	< 0.34	NA	NA	NA	NA	NA	2.4	NA	NA	NA	< 0.068	< 0.068	NA	< 0.068	< 0.068	< 0.14	< 0.14	< 0.34	< 0.068	< 0.34	< 0.44	< 1.2	< 2.9
Total PCBs																											
Aroclor-1016	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.18	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1232	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.096	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1242	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.14	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1248	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.11	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Detected PCBs	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dissolved PCBs																											
Aroclor-1016	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1232	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1242	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1248	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Detected PCBs	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Solids																											
Total Dissolved Solids	NE	NE	NA	NA	NA	2500	12000	7100	3400	3800	2700	3400	4700	8600	8200	NA	NA	13000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Suspended Solids (TSS)	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

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Table 18
Groundwater Analytical Results Summary
Madison-Kipp Corporation
Madison, Wisconsin

WELL ID SCREEN INTERVAL (feet bgs) SAMPLE DATE	PREVENTIVE ACTION LIMIT	ENFORCEMENT STANDARD	MW-3D 48 - 53 ft 04/07/2010	MW-3D 48 - 53 ft 10/01/2010	MW-3D 48 - 53 ft 03/30/2011	MW-3D 48 - 53 ft 04/12/2012	MW-3D 48 - 53 ft 11/30/2012	MW-3D 48 - 53 ft 12/19/2012	MW-3D 48 - 53 ft 12/28/2012	MW-3D 48 - 53 ft 01/03/2013	MW-3D 48 - 53 ft 01/16/2013	MW-3D 48 - 53 ft 01/31/2013	MW-3D 48 - 53 ft 02/12/2013	MW-3D 48 - 53 ft 02/12/2013	MW-3D 48 - 53 ft 02/28/2013	MW-3D 48 - 53 ft 03/13/2013	MW-3D 48 - 53 ft 04/16/2013
VOCs																	
1,1,1,2-Tetrachloroethane	7	70	< 8	< 0.25	< 5	< 0.31	< 1.3	NA	NA	NA	< 0.25	NA	NA	< 0.25	NA	< 0.25	< 0.25
1,1,1-Trichloroethane	40	200	< 16	< 0.5	< 10	< 0.26	< 1	NA	NA	NA	< 0.2	NA	NA	< 0.2	NA	< 0.2	< 0.2
1,1,2-Trichloroethane	0.5	5	< 8	< 0.25	< 5	< 0.3	< 1.4	NA	NA	NA	< 0.28	NA	NA	< 0.28	NA	< 0.28	< 0.28
1,1-Dichloroethene	0.7	7	< 16	< 0.5	< 10	< 0.29	< 1.6	NA	NA	NA	< 0.31	NA	NA	< 0.31	NA	< 0.31	< 0.31
1,2,4-Trimethylbenzene	96	480	< 6.4	< 0.2	< 4	< 0.22	< 0.7	NA	NA	NA	< 0.14	NA	NA	< 0.14	NA	< 0.14	< 0.14
1,2-Dibromoethane	0.005	0.05	< 6.4	< 0.2	< 4	< 0.45	< 1.8	NA	NA	NA	< 0.36	NA	NA	< 0.36	NA	< 0.36	< 0.36
1,2-Dichlorobenzene	60	600	< 6.4	< 0.2	< 4	< 0.21	< 1.4	NA	NA	NA	< 0.27	NA	NA	< 0.27	NA	< 0.27	< 0.27
1,2-Dichloropropane	0.5	5	< 16	< 0.5	< 10	< 0.36	< 1	NA	NA	NA	< 0.2	NA	NA	< 0.2	NA	< 0.2	< 0.2
1,2,3-Trichlorobenzene	NE	NE	< 8	< 0.25	< 5	< 0.36	< 1.2	NA	NA	NA	< 0.24	NA	NA	< 0.24	NA	< 0.24	< 0.24
1,2,4-Trichlorobenzene	14	70	< 8	< 0.25	< 5	< 0.22	< 1.6	NA	NA	NA	< 0.31	NA	NA	< 0.31	NA	< 0.31	< 0.31
1,3,5-Trimethylbenzene	96	480	< 6.4	< 0.2	< 4	< 0.23	< 0.9	NA	NA	NA	< 0.18	NA	NA	< 0.18	NA	< 0.18	< 0.18
2-Butanone	800	4000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Hexanone	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Methyl-2-pentanone	50	500	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Acetone	1800	9000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzene	0.5	5	< 6.4	0.31	< 4	0.39 J	< 0.37	NA	NA	NA	0.32 J	NA	NA	0.29 J	NA	< 0.074	0.27 J
Bromodichloromethane	0.06	0.6	< 6.4	< 0.2	< 4	< 0.23	< 0.85	NA	NA	NA	< 0.17	NA	NA	< 0.17	NA	< 0.17	< 0.17
Bromoform	0.44	4.4	< 6.4	< 0.2	< 4	< 0.45	< 1.4	NA	NA	NA	< 0.28	NA	NA	< 0.28	NA	< 0.28	< 0.28
Bromomethane	1	10	< 16	< 0.5	< 10	< 0.49	< 1.6	NA	NA	NA	< 0.31	NA	NA	< 0.31	NA	< 0.31	< 0.31
Carbon disulfide	200	1000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon tetrachloride	0.5	5	< 26	< 0.8	< 16	< 0.28	< 1.3	NA	NA	NA	< 0.26	NA	NA	< 0.26	NA	< 0.26	< 0.26
Chloroform	0.6	6	< 6.4	***0.78***	< 4	***0.93 J***	< 1	NA	NA	NA	***0.89 J***	NA	NA	< 0.2	NA	< 0.2	< 0.2
Chloromethane	3	30	< 9.6	< 0.3	< 6	< 0.24	< 0.9	NA	NA	NA	< 0.18	NA	NA	< 0.18	NA	< 0.18	< 0.18
cis-1,2-Dichloroethene	7	70	***510***	***310***	***300***	***350***	***520***	NA	NA	NA	***290***	NA	NA	***200***	NA	***54***	***210***
Dichlorodifluoromethane	200	1000	< 16	< 0.5	< 10	< 0.26	< 1	NA	NA	NA	< 0.2	NA	NA	< 0.2	NA	< 0.2	< 0.2
Ethylbenzene	140	700	< 16	< 0.5	< 10	< 0.14	< 0.65	NA	NA	NA	< 0.13	NA	NA	< 0.13	NA	< 0.13	< 0.13
Isopropylbenzene	NE	NE	< 6.4	< 0.2	< 4	< 0.21	< 0.7	NA	NA	NA	< 0.14	NA	NA	< 0.14	NA	< 0.14	< 0.14
m,p-Xylene	400	2000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methyl tert-butyl ether	12	60	< 16	< 0.5	< 10	< 0.28	< 1.2	NA	NA	NA	< 0.24	NA	NA	< 0.24	NA	< 0.24	< 0.24
Methylene chloride	0.5	5	< 32	< 1	< 20	< 0.63	< 3.4	NA	NA	NA	< 0.68	NA	NA	< 0.68	NA	< 0.68	< 0.68
Naphthalene	10	100	< 8	< 0.25	< 5	< 0.24	< 0.8	NA	NA	NA	< 0.16	NA	NA	< 0.16	NA	< 0.16	< 0.16
n-Butylbenzene	NE	NE	< 6.4	< 0.2	< 4	< 0.21	< 0.65	NA	NA	NA	< 0.13	NA	NA	< 0.13	NA	< 0.13	< 0.13
n-Hexane	120	600	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
n-Propylbenzene	NE	NE	< 16	< 0.5	< 10	< 0.19	< 0.65	NA	NA	NA	< 0.13	NA	NA	< 0.13	NA	< 0.13	< 0.13
o-Xylene	400	2000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
p-Isopropyltoluene	NE	NE	< 6.4	< 0.2	< 4	< 0.24	< 0.85	NA	NA	NA	< 0.17	NA	NA	< 0.17	NA	< 0.17	< 0.17
sec-Butylbenzene	NE	NE	< 8	< 0.25	< 5	< 0.19	< 0.75	NA	NA	NA	< 0.15	NA	NA	< 0.15	NA	< 0.15	< 0.15
Styrene	10	100	< 16	< 0.5	< 10	< 0.26	< 0.5	NA	NA	NA	< 0.1	NA	NA	< 0.1	NA	< 0.1	< 0.1
tert-Butylbenzene	NE	NE	< 6.4	< 0.2	< 4	< 0.24	< 0.7	NA	NA	NA	< 0.14	NA	NA	< 0.14	NA	< 0.14	< 0.14
Tetrachloroethene	0.5	5	***1700***	***1500***	***1200***	***1100***	***1800***	NA	NA	NA	***660***	NA	NA	***760***	NA	***150***	***740***
Toluene	160	800	< 16	< 0.5	< 10	< 0.15	< 0.55	NA	NA	NA	< 0.11	NA	NA	< 0.11	NA	< 0.11	< 0.11
trans-1,2-Dichloroethene	20	100	< 16	6.6	< 10	5.9	7.7	NA	NA	NA	6.0	NA	NA	4.0	NA	1.1	4.2
Trichloroethene	0.5	5	***270***	***200***	***170***	***160***	***250***	NA	NA	NA	***140***	NA	NA	***130***	NA	***30***	***120***
Vinyl chloride	0.02	0.2	< 6.4	< 0.2	< 4	< 0.13	< 0.5	NA	NA	NA	< 0.1	NA	NA	< 0.1	NA	< 0.1	< 0.1
Xylenes, Total	400	2000	< 16	< 0.5	< 10	< 0.3	< 0.34	NA	NA	NA	< 0.068	NA	NA	< 0.068	NA	< 0.068	< 0.068
Total PCBs																	
Aroclor-1016	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	< 0.18	NA	NA	NA	NA	NA	NA
Aroclor-1232	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	< 0.096	NA	NA	NA	NA	NA	NA
Aroclor-1242	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	< 0.14	NA	NA	NA	NA	NA	NA
Aroclor-1248	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	< 0.11	NA	NA	NA	NA	NA	NA
Total Detected PCBs	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	ND	NA	NA	NA	NA	NA	NA
Dissolved PCBs																	
Aroclor-1016	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1232	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1242	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1248	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Detected PCBs	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Solids																	
Total Dissolved Solids	NE	NE	NA	NA	NA	NA	1700	2100	2400	2200	2000	480	4400	4200	5200	NA	NA
Total Suspended Solids (TSS)	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

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Table 18
Groundwater Analytical Results Summary
Madison-Kipp Corporation
Madison, Wisconsin

WELL ID SCREEN INTERVAL (feet bgs) SAMPLE DATE	PREVENTIVE ACTION LIMIT	ENFORCEMENT STANDARD	MW-3D 48 - 53 ft 07/16/2013	MW-3D 48 - 53 ft 10/10/2013	MW-3D 48 - 53 ft 04/18/2014	MW-3D 48 - 53 ft 10/16/2014	MW-3D 48 - 53 ft 04/14/2015	MW-3D 48 - 53 ft 10/21/2015	MW-3D 48 - 53 ft 01/25/2016	MW-3D 48 - 53 ft 04/22/2016	MW-3D[3] 48 - 53 ft 04/22/2016	MW-3D 48 - 53 ft 07/20/2016	MW-3D 48 - 53 ft 10/13/2016	MW-3D 48 - 53 ft 1/19/2017	MW-3D 48 - 53 ft 04/12/2017	MW-3D 48 - 53 ft 10/05/2017
VOCs																
1,1,1,2-Tetrachloroethane	7	70	< 0.5	< 0.25	< 0.50	< 0.50	< 0.25	< 0.46	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11
1,1,1-Trichloroethane	40	200	< 0.4	< 0.2	< 0.40	< 0.40	< 0.20	< 0.38	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.1
1,1,2-Trichloroethane	0.5	5	< 0.56	< 0.28	< 0.56	< 0.56	< 0.28	< 0.35	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.1
1,1-Dichloroethene	0.7	7	< 0.62	< 0.31	< 0.62	< 0.62	< 0.31	< 0.39	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14
1,2,4-Trimethylbenzene	96	480	< 0.28	< 0.14	< 0.28	< 0.28	< 0.14	< 0.36	< 0.060	< 0.060	< 0.060	< 0.060	< 0.060	< 0.060	< 0.060	< 0.06
1,2-Dibromoethane	0.005	0.05	< 0.72	< 0.36	< 0.72	< 0.72	< 0.36	< 0.39	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13
1,2-Dichlorobenzene	60	600	< 0.54	< 0.27	< 0.54	< 0.54	< 0.27	< 0.33	< 0.076	< 0.076	< 0.076	< 0.076	< 0.076	< 0.076	< 0.076	< 0.076
1,2-Dichloropropane	0.5	5	< 0.4	< 0.2	< 0.40	< 0.40	< 0.20	< 0.43	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.1
1,2,3-Trichlorobenzene	NE	NE	< 0.48	< 0.24	< 0.48	< 0.48	< 0.24	< 0.46	< 0.045	< 0.045	< 0.045	0.18 BJ	< 0.045	< 0.045	< 0.045	< 0.045
1,2,4-Trichlorobenzene	14	70	< 0.62	< 0.31	< 0.62	< 0.62	< 0.31	< 0.34	< 0.077	< 0.077	< 0.077	0.16 BJ	< 0.077	< 0.077	< 0.077	< 0.077
1,3,5-Trimethylbenzene	96	480	< 0.36	< 0.18	< 0.36	< 0.36	< 0.18	< 0.25	< 0.075	< 0.075	< 0.075	< 0.075	< 0.075	< 0.075	< 0.075	< 0.075
2-Butanone	800	4000	NA	NA	NA	NA	NA	NA	< 3.0	4.0 J	5.7 J	< 3.0	< 3.0	< 3.0	< 3.0	< 3
2-Hexanone	NE	NE	NA	NA	NA	NA	NA	NA	< 0.95	< 0.95	< 0.95	< 0.95	< 0.95	< 0.95	< 0.95	< 0.95
4-Methyl-2-pentanone	50	500	NA	NA	NA	NA	NA	NA	< 0.77	< 0.77	< 0.77	< 0.77	< 0.77	< 0.77	< 0.77	< 0.77
Acetone	1800	9000	NA	NA	NA	NA	NA	NA	< 3.4	14 J	15 J	< 3.4	12 J	33	18 BJ	40
Benzene	0.5	5	< 0.15	0.36 J	< 0.15	***0.55 J***	0.40 J	< 0.15	< 0.089	< 0.089	< 0.089	< 0.089	< 0.089	0.36 BJ	0.34 J	0.38 J
Bromodichloromethane	0.06	0.6	< 0.34	< 0.17	< 0.34	< 0.34	< 0.17	< 0.37	< 0.077	< 0.077	< 0.077	< 0.077	< 0.077	< 0.077	< 0.077	< 0.077
Bromoform	0.44	4.4	< 0.56	< 0.28	< 0.56	< 0.56	< 0.28	< 0.48	< 0.088	< 0.088	< 0.088	< 0.088	< 0.088	< 0.088	< 0.088	< 0.088
Bromomethane	1	10	< 0.62	< 0.31	< 0.62	< 0.62	< 0.31	< 0.80	< 0.59	< 0.59	< 0.59	< 0.59	< 0.59	< 0.59	< 0.59	< 0.59
Carbon disulfide	200	1000	NA	NA	NA	NA	NA	NA	< 0.053	< 0.053	0.18 J	0.44 J	0.38 J	0.39 J	0.14 J	< 0.053
Carbon tetrachloride	0.5	5	< 0.52	< 0.26	< 0.52	< 0.52	< 0.26	< 0.38	< 0.038	< 0.038	< 0.038	< 0.038	< 0.038	< 0.038	< 0.038	< 0.038
Chloroform	0.6	6	< 0.4	***0.85 J***	< 0.40	< 0.40	***0.88 J***	***0.90 J***	< 0.062	< 0.062	< 0.062	< 0.062	< 0.062	0.19 BJ	< 0.062	0.43 J
Chloromethane	3	30	< 0.36	< 0.18	< 0.36	< 0.36	< 0.18	< 0.32	< 0.16	< 0.16	< 0.16	< 0.16	0.31 BJ	0.30 BJ	0.18 J+	2.1
cis-1,2-Dichloroethene	7	70	***200***	***180***	***170***	***170***	***82***	***48***	0.87	0.77	0.69	***13***	3.6	***7.3***	***10***	1.7
Dichlorodifluoromethane	200	1000	< 0.4	< 0.2	< 0.40	< 0.40	< 0.20	< 0.54	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11
Ethylbenzene	140	700	< 0.26	< 0.13	< 0.26	< 0.26	< 0.13	< 0.18	< 0.054	< 0.054	< 0.054	< 0.054	< 0.054	< 0.054	< 0.054	< 0.054
Isopropylbenzene	NE	NE	< 0.28	< 0.14	< 0.28	< 0.28	< 0.14	< 0.39	< 0.081	< 0.081	< 0.081	< 0.081	< 0.081	< 0.081	< 0.081	0.11 J
m,p-Xylene	400	2000	NA	NA	NA	NA	NA	NA	< 0.057	< 0.057	< 0.057	< 0.057	< 0.057	< 0.057	< 0.057	< 0.057
Methyl tert-butyl ether	12	60	< 0.48	< 0.24	< 0.48	< 0.48	< 0.24	< 0.39	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14
Methylene chloride	0.5	5	< 1.4	< 0.68	< 1.4	< 1.4	< 0.68	< 1.6	0.33 J	< 0.14	< 0.14	< 0.14	0.31 J	0.45 BJ	< 0.14	< 0.14
Naphthalene	10	100	< 0.32	< 0.16	< 0.32	< 0.32	< 0.16	< 0.34	< 0.088	< 0.088	< 0.088	0.31 BJ	< 0.088	< 0.088	< 0.088	< 0.088
n-Butylbenzene	NE	NE	< 0.26	< 0.13	< 0.26	< 0.26	< 0.13	< 0.39	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14
n-Hexane	120	600	NA	NA	NA	NA	NA	NA	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	0.21 J	< 0.21
n-Propylbenzene	NE	NE	< 0.26	< 0.13	< 0.26	< 0.26	< 0.13	< 0.41	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.1
o-Xylene	400	2000	NA	NA	NA	NA	NA	NA	< 0.058	< 0.058	< 0.058	< 0.058	< 0.058	< 0.058	< 0.058	< 0.058
p-Isopropyltoluene	NE	NE	< 0.34	< 0.17	< 0.34	< 0.34	< 0.17	< 0.36	< 0.085	< 0.085	< 0.085	< 0.085	< 0.085	< 0.085	< 0.085	< 0.085
sec-Butylbenzene	NE	NE	< 0.3	< 0.15	< 0.30	< 0.30	< 0.15	< 0.40	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13
Styrene	10	100	< 0.2	< 0.1	< 0.20	< 0.20	< 0.10	< 0.39	< 0.065	< 0.065	< 0.065	0.15 J	< 0.065	< 0.065	< 0.065	< 0.065
tert-Butylbenzene	NE	NE	< 0.28	< 0.14	< 0.28	< 0.28	< 0.14	< 0.40	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12
Tetrachloroethene	0.5	5	***920***	***620***	***730***	***1100***	***850***	***140***	***3.5***	***2.3***	***1.8***	***4.1***	***13***	***5.4 B***	0.43 BJ	***13 B***
Toluene	160	800	< 0.22	< 0.11	< 0.22	< 0.22	< 0.11	< 0.15	0.12 J	< 0.053	< 0.053	0.11 J	< 0.053	0.44 BJ	0.10 J	< 0.053
trans-1,2-Dichloroethene	20	100	4.8	5.2	6.4	9.3	4.3	3.1	< 0.11	< 0.11	< 0.11	0.17 J	< 0.11	< 0.11	< 0.11	< 0.11
Trichloroethene	0.5	5	***130***	***100***	***130***	***170***	***92***	***51***	***0.86***	***0.63***	***0.5***	***2.2***	***3.9***	***11***	***4.4***	***2***
Vinyl chloride	0.02	0.2	< 0.2	< 0.1	< 0.20	< 0.20	< 0.10	< 0.20	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16
Xylenes, Total	400	2000	< 0.14	< 0.068	< 0.14	< 0.14	< 0.068	< 0.22	< 0.058	< 0.058	< 0.058	< 0.058	< 0.058	< 0.12	< 0.12	< 0.12
Total PCBs																
Aroclor-1016	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1232	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1242	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1248	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Detected PCBs	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dissolved PCBs																
Aroclor-1016	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1232	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1242	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1248	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Detected PCBs	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Solids																
Total Dissolved Solids	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Suspended Solids (TSS)	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

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Table 18
Groundwater Analytical Results Summary
Madison-Kipp Corporation
Madison, Wisconsin

WELL ID			MW-3D2	MW-3D2	MW-3D2	MW-3D2	MW-3D2	MW-3D2	MW-3D2[3]	MW-3D2	MW-3D2[3]	MW-3D2	MW-3D2	MW-3D2	MW-3D2[3]	MW-3D2	MW-3D2	MW-3D2	MW-3D2[1]	MW-3D2[1]	MW-3D2[3]	MW-3D2
SCREEN INTERVAL (feet bgs)	PREVENTIVE	ENFORCEMENT	76 - 81 ft	76 - 81 ft	76 - 81 ft	76 - 81 ft	76 - 81 ft	76 - 81 ft	76 - 81 ft	76 - 81 ft	76 - 81 ft	76 - 81 ft	76 - 81 ft	76 - 81 ft	76 - 81 ft	76 - 81 ft	76 - 81 ft	76 - 81 ft	76 - 81 ft	76 - 81 ft	76 - 81 ft	76 - 81 ft
SAMPLE DATE	ACTION LIMIT	STANDARD	12/31/2009	04/07/2010	07/01/2010	10/01/2010	03/30/2011	04/12/2012	04/12/2012	11/30/2012	11/30/2012	12/19/2012	12/28/2012	01/03/2013	01/16/2013	01/16/2013	01/31/2013	02/12/2013	02/12/2013	02/28/2013	03/13/2013	04/16/2013	04/16/2013	07/16/2013
VOCs																								
1,1,1,2-Tetrachloroethane	7	70	< 6.3	< 13	< 13	< 0.25	< 13	< 1.6	< 1.6	< 1.3	< 1.3	NA	NA	NA	< 0.5	< 0.5	NA	< 0.25	< 0.5	NA	< 0.25	< 0.25	< 0.5	< 0.25
1,1,1-Trichloroethane	40	200	< 13	< 25	< 25	< 0.5	< 25	< 1.3	< 1.3	< 1	< 1	NA	NA	NA	< 0.4	< 0.4	NA	< 0.2	< 0.4	NA	< 0.2	< 0.2	< 0.4	< 0.2
1,1,2-Trichloroethane	0.5	5	< 6.3	< 13	< 13	< 0.25	< 13	< 1.5	< 1.5	< 1.4	< 1.4	NA	NA	NA	< 0.56	< 0.56	NA	< 0.28	< 0.56	NA	< 0.28	< 0.28	< 0.56	< 0.28
1,1-Dichloroethene	0.7	7	< 13	< 25	< 25	< 0.5	< 25	< 1.5	< 1.5	< 1.6	< 1.6	NA	NA	NA	< 0.62	< 0.62	NA	< 0.31	< 0.62	NA	< 0.31	< 0.31	< 0.62	< 0.31
1,2,4-Trimethylbenzene	96	480	< 5	< 10	< 10	< 0.2	< 10	< 1.1	< 1.1	< 0.7	< 0.7	NA	NA	NA	< 0.28	< 0.28	NA	< 0.14	< 0.28	NA	< 0.14	< 0.14	< 0.28	< 0.14
1,2-Dibromoethane	0.005	0.05	< 5	< 10	< 10	< 0.2	< 10	< 2.3	< 2.3	< 1.8	< 1.8	NA	NA	NA	< 0.72	< 0.72	NA	< 0.36	< 0.72	NA	< 0.36	< 0.36	< 0.72	< 0.36
1,2-Dichlorobenzene	60	600	< 5	< 10	< 10	< 0.2	< 10	< 1.1	< 1.1	< 1.4	< 1.4	NA	NA	NA	< 0.54	< 0.54	NA	< 0.27	< 0.54	NA	< 0.27	< 0.27	< 0.54	< 0.27
1,2-Dichloropropane	0.5	5	< 13	< 25	< 25	< 0.5	< 25	< 1.8	< 1.8	< 1	< 1	NA	NA	NA	< 0.4	< 0.4	NA	< 0.2	< 0.4	NA	< 0.2	< 0.2	< 0.4	< 0.2
1,2,3-Trichlorobenzene	NE	NE	< 6.3	< 13	< 13	< 0.25	< 13	< 1.8	< 1.8	< 1.2	< 1.2	NA	NA	NA	< 0.48	< 0.48	NA	< 0.24	< 0.48	NA	< 0.24	< 0.24	< 0.48	< 0.24
1,2,4-Trichlorobenzene	14	70	< 6.3	< 13	< 13	< 0.25	< 13	< 1.1	< 1.1	< 1.6	< 1.6	NA	NA	NA	< 0.62	< 0.62	NA	< 0.31	< 0.62	NA	< 0.31	< 0.31	< 0.62	< 0.31
1,3,5-Trimethylbenzene	96	480	< 5	< 10	< 10	< 0.2	< 10	< 1.2	< 1.2	< 0.9	< 0.9	NA	NA	NA	< 0.36	< 0.36	NA	< 0.18	< 0.36	NA	< 0.18	< 0.18	< 0.36	< 0.18
2-Butanone	800	4000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Hexanone	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Methyl-2-pentanone	50	500	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Acetone	1800	9000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzene	0.5	5	< 5	< 10	< 10	< 0.2	< 10	< 0.6	< 0.6	< 0.37	< 0.37	NA	NA	NA	< 0.15	< 0.15	NA	< 0.074	< 0.15	NA	< 0.074	< 0.074	< 0.15	< 0.074
Bromodichloromethane	0.06	0.6	< 5	< 10	< 10	< 0.2	< 10	< 1.2	< 1.2	< 0.85	< 0.85	NA	NA	NA	< 0.34	< 0.34	NA	< 0.17	< 0.34	NA	< 0.17	< 0.17	< 0.34	< 0.17
Bromoform	0.44	4.4	< 5	< 10	< 10	< 0.2	< 10	< 2.3	< 2.3	< 1.4	< 1.4	NA	NA	NA	< 0.56	< 0.56	NA	< 0.28	< 0.56	NA	< 0.28	< 0.28	< 0.56	< 0.28
Bromomethane	1	10	< 13	< 25	< 25	< 0.5	< 25	< 2.5	< 2.5	< 1.6	< 1.6	NA	NA	NA	< 0.62	< 0.62	NA	< 0.31	< 0.62	NA	< 0.31	< 0.31	< 0.62	< 0.31
Carbon disulfide	200	1000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon tetrachloride	0.5	5	< 20	< 40	< 40	< 0.8	< 40	< 1.4	< 1.4	< 1.3	< 1.3	NA	NA	NA	< 0.52	< 0.52	NA	< 0.26	< 0.52	NA	< 0.26	< 0.26	< 0.52	< 0.26
Chloroform	0.6	6	< 5	< 10	< 10	0.37	< 10	< 1.3	< 1.3	< 1	< 1	NA	NA	NA	< 0.4	< 0.4	NA	< 0.2	< 0.4	NA	< 0.2	< 0.2	< 0.4	< 0.2
Chloromethane	3	30	< 7.5	< 15	< 15	< 0.3	< 15	< 1.2	< 1.2	< 0.9	< 0.9	NA	NA	NA	< 0.36	< 0.36	NA	< 0.18	< 0.36	NA	< 0.18	< 0.18	< 0.36	< 0.18
cis-1,2-Dichloroethene	7	70	***520***	***510***	***460***	***400***	***440***	***440***	***440***	***420***	***400***	NA	NA	NA	***320***	***300***	NA	***250***	***260***	NA	***100***	***45***	< 0.24	***10***
Dichlorodifluoromethane	200	1000	< 13	< 25	< 25	< 0.5	< 25	< 1.3	< 1.3	< 1	< 1	NA	NA	NA	< 0.4	< 0.4	NA	< 0.2	< 0.4	NA	< 0.2	< 0.2	< 0.4	< 0.2
Ethylbenzene	140	700	< 13	< 25	< 25	< 0.5	< 25	< 0.7	< 0.7	< 0.65	< 0.65	NA	NA	NA	< 0.26	< 0.26	NA	< 0.13	< 0.26	NA	< 0.13	< 0.13	< 0.26	< 0.13
Isopropylbenzene	NE	NE	< 5	< 10	< 10	< 0.2	< 10	< 1.1	< 1.1	< 0.7	< 0.7	NA	NA	NA	< 0.28	< 0.28	NA	< 0.14	< 0.28	NA	< 0.14	< 0.14	< 0.28	< 0.14
m,p-Xylene	400	2000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methyl tert-butyl ether	12	60	< 13	< 25	< 25	< 0.5	< 25	< 1.4	< 1.4	< 1.2	< 1.2	NA	NA	NA	< 0.48	< 0.48	NA	< 0.24	< 0.48	NA	< 0.24	< 0.24	< 0.48	< 0.24
Methylene chloride	0.5	5	< 25	< 50	< 50	< 1	< 50	< 3.2	< 3.2	< 3.4	< 3.4	NA	NA	NA	< 1.4	< 1.4	NA	***7.3***	< 1.4	NA	< 0.68	< 0.68	< 1.4	< 0.68
Naphthalene	10	100	< 6.3	< 13	***240***	< 0.25	***13***	< 1.2	< 1.2	< 0.8	< 0.8	NA	NA	NA	< 0.32	< 0.32	NA	< 0.16	< 0.32	NA	< 0.16	< 0.16	< 0.32	< 0.16
n-Butylbenzene	NE	NE	< 5	< 10	< 10	< 0.2	< 10	< 1.1	< 1.1	< 0.65	< 0.65	NA	NA	NA	< 0.26	< 0.26	NA	< 0.13	< 0.26	NA	< 0.13	< 0.13	< 0.26	< 0.13
n-Hexane	120	600	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
n-Propylbenzene	NE	NE	< 13	< 25	< 25	< 0.5	< 25	< 0.95	< 0.95	< 0.65	< 0.65	NA	NA	NA	< 0.26	< 0.26	NA	< 0.13	< 0.26	NA	< 0.13	< 0.13	< 0.26	< 0.13
o-Xylene	400	2000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
p-Isopropyltoluene	NE	NE	< 5	< 10	< 10	< 0.2	< 10	< 1.2	< 1.2	< 0.85	< 0.85	NA	NA	NA	< 0.34	< 0.34	NA	< 0.17	< 0.34	NA	< 0.17	< 0.17	< 0.34	< 0.17
sec-Butylbenzene	NE	NE	< 6.3	< 13	< 13	< 0.25	< 13	< 0.95	< 0.95	< 0.75	< 0.75	NA	NA	NA	< 0.3	< 0.3	NA	< 0.15	< 0.3	NA	< 0.15	< 0.15	< 0.3	< 0.15
Styrene	10	100	< 13	< 25	< 25	< 0.5	< 25	< 1.3	< 1.3	< 0.5	< 0.5	NA	NA	NA	< 0.2	< 0.2	NA	< 0.1	< 0.2	NA	< 0.1	< 0.1	< 0.2	< 0.1
tert-Butylbenzene	NE	NE	< 5	< 10	< 10	< 0.2	< 10	< 1.2	< 1.2	< 0.7	< 0.7	NA	NA	NA	< 0.28	< 0.28	NA	< 0.14	< 0.28	NA	< 0.14	< 0.14	< 0.28	< 0.14
Tetrachloroethene	0.5	5	***4900***	***4400***	***3900***	***3900***	***3800***	***2600***	***2600***	***2800***	***2800***	NA	NA	NA	***1200***	***1100***	NA	***1700***	***1700***	NA	***800***	***850***	***710***	***440***
Toluene	160	800	< 13	< 25	< 25	< 0.5	< 25	< 0.75	< 0.75	< 0.55	< 0.55	NA	NA	NA	< 0.22	< 0.22	NA	< 0.11	< 0.22	NA	< 0.11	< 0.11	< 0.22	< 0.11
trans-1,2-Dichloroethene	20	100	< 13	< 25	< 25	7.0	< 25	6.4	5.8	5.6	5.6	NA	NA	NA	4.9	4.5	NA	3.2	3.5	NA	0.62 J	< 0.25	< 0.5	< 0.25
Trichloroethene	0.5	5	***280***	***240***	***240***	***240***	***230***	***190***	***190***	***190***	***180***	NA	NA	NA	***110***	***120***	NA	***120***	***120***	NA	***50***	***24***	< 0.38	***8.7***
Vinyl chloride	0.02	0.2	< 5	< 10	< 10	***0.65***	< 10	< 0.65	< 0.65	< 0.5	< 0.5	NA	NA	NA	< 0.2	< 0.2	NA	***0.22 J***	< 0.2	NA	< 0.1	< 0.1	< 0.2	< 0.1
Xylenes, Total	400	2000	< 13	< 25	< 25	< 0.5	< 25	< 1.5	< 1.5	< 0.34	< 0.34	NA	NA	NA	< 0.14	< 0.14	NA	< 0.068	< 0.14	NA	< 0.068	< 0.068	< 0.14	< 0.068
Total PCBs																								
Aroclor-1016	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.17	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1232	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.093	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1242	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.13	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1248	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.11	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Detected PCBs	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dissolved PCBs																								
Aroclor-1016	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1232	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1242	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1248	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Detected PCBs	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Solids																								
Total Dissolved Solids	NE	NE	NA	NA	NA	NA	NA	NA	NA	730	730	1300	1800	1500	1000	NA	870	720	NA	1300	NA	NA	NA	NA
Total Suspended Solids (TSS)	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Notes on Page 55.

Table 18
Groundwater Analytical Results Summary
Madison-Kipp Corporation
Madison, Wisconsin

WELL ID			MW-3D2[3]	MW-3D2	MW-3D2[3]	MW-3D2	MW-3D2[3]	MW-3D2	MW-3D2[3]	MW-3D2	MW-3D2[3]	MW-3D2	MW-3D2[3]	MW-3D2	MW-3D2	MW-3D2[3]	MW-3D2	MW-3D2[3]	MW-3D2	MW-3D2	MW-3D2
SCREEN INTERVAL (feet bgs)	PREVENTIVE	ENFORCEMENT	76 - 81 ft	76 - 81 ft	76 - 81 ft	76 - 81 ft	76 - 81 ft	76 - 81 ft	76 - 81 ft	76 - 81 ft	76 - 81 ft	76 - 81 ft	76 - 81 ft	76 - 81 ft	76 - 81 ft	76 - 81 ft	76 - 81 ft	76 - 81 ft	76 - 81 ft	76 - 81 ft	76 - 81 ft
SAMPLE DATE	ACTION LIMIT	STANDARD	07/16/2013	10/10/2013	10/10/2013	04/16/2014	04/16/2014	10/23/2014	10/23/2014	04/14/2015	04/14/2015	10/22/2015	10/22/2015	01/25/2016	01/25/2016	04/22/2016	07/20/2016	07/20/2016	10/13/2016	10/13/2016	1/19/2017	04/12/2017	10/05/2017
VOCs																							
1,1,1,2-Tetrachloroethane	7	70	< 0.5	< 0.25	< 0.25	< 1.3	< 1.3	< 0.50	< 0.50	< 1.3	< 1.3	< 4.6	< 4.6	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11
1,1,1-Trichloroethane	40	200	< 0.4	< 0.2	< 0.2	< 1.0	< 1.0	< 0.40	< 0.40	< 1.0	< 1.0	< 3.8	< 3.8	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.1
1,1,2-Trichloroethane	0.5	5	< 0.56	< 0.28	< 0.28	< 1.4	< 1.4	< 0.56	< 0.56	< 1.4	< 1.4	< 3.5	< 3.5	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.1
1,1-Dichloroethene	0.7	7	< 0.62	< 0.31	< 0.31	< 1.6	< 1.6	< 0.62	< 0.62	< 1.6	< 1.6	< 3.9	< 3.9	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14
1,2,4-Trimethylbenzene	96	480	< 0.28	< 0.14	< 0.14	< 0.70	< 0.70	< 0.28	< 0.28	< 0.70	< 0.70	< 3.6	< 3.6	< 0.060	< 0.060	< 0.060	< 0.060	< 0.060	< 0.060	< 0.060	< 0.060	< 0.060	< 0.06
1,2-Dibromoethane	0.005	0.05	< 0.72	< 0.36	< 0.36	< 1.8	< 1.8	< 0.72	< 0.72	< 1.8	< 1.8	< 3.9	< 3.9	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13
1,2-Dichlorobenzene	60	600	< 0.54	< 0.27	< 0.27	< 1.4	< 1.4	< 0.54	< 0.54	< 1.4	< 1.4	< 3.3	< 3.3	< 0.076	< 0.076	< 0.076	< 0.076	< 0.076	< 0.076	< 0.076	< 0.076	< 0.076	< 0.076
1,2-Dichloropropane	0.5	5	< 0.4	< 0.2	< 0.2	< 1.0	< 1.0	< 0.40	< 0.40	< 1.0	< 1.0	< 4.3	< 4.3	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.1
1,2,3-Trichlorobenzene	NE	NE	< 0.48	< 0.24	< 0.24	< 1.2	< 1.2	< 0.48	< 0.48	< 1.2	< 1.2	< 4.6	< 4.6	< 0.045	< 0.045	< 0.045	< 0.045	< 0.045	< 0.045	< 0.045	< 0.045	< 0.045	< 0.045
1,2,4-Trichlorobenzene	14	70	< 0.62	< 0.31	< 0.31	< 1.6	< 1.6	< 0.62	< 0.62	< 1.6	< 1.6	< 3.4	< 3.4	< 0.077	< 0.077	< 0.077	< 0.077	< 0.077	< 0.077	< 0.077	< 0.077	< 0.077	< 0.077
1,3,5-Trimethylbenzene	96	480	< 0.36	< 0.18	< 0.18	< 0.90	< 0.90	< 0.36	< 0.36	< 0.90	< 0.90	< 2.5	< 2.5	< 0.075	< 0.075	< 0.075	< 0.075	< 0.075	< 0.075	< 0.075	< 0.075	< 0.075	< 0.075
2-Butanone	800	4000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 3.0	< 3.0	< 3.0	< 3.0	< 3.0	< 3.0	< 3.0	< 3.0	< 3.0	< 3
2-Hexanone	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.95	< 0.95	< 0.95	< 0.95	< 0.95	< 0.95	< 0.95	< 0.95	< 0.95	< 0.95
4-Methyl-2-pentanone	50	500	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.77	< 0.77	< 0.77	< 0.77	< 0.77	< 0.77	< 0.77	2.0 J	< 0.77	< 0.77
Acetone	1800	9000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 3.4	< 3.4	< 3.4	< 3.4	< 3.4	< 3.4	< 3.4	< 3.4	14 BJ	25
Benzene	0.5	5	< 0.15	< 0.074	< 0.074	< 0.37	< 0.37	< 0.15	< 0.15	< 0.37	< 0.37	< 1.5	< 1.5	< 0.089	< 0.089	< 0.089	< 0.089	< 0.089	< 0.089	< 0.089	< 0.089	< 0.089	< 0.089
Bromodichloromethane	0.06	0.6	< 0.34	< 0.17	< 0.17	< 0.85	< 0.85	< 0.34	< 0.34	< 0.85	< 0.85	< 3.7	< 3.7	< 0.077	< 0.077	< 0.077	< 0.077	< 0.077	< 0.077	< 0.077	< 0.077	< 0.077	< 0.077
Bromoform	0.44	4.4	< 0.56	< 0.28	< 0.28	< 1.4	< 1.4	< 0.56	< 0.56	< 1.4	< 1.4	< 4.8	< 4.8	< 0.088	< 0.088	< 0.088	< 0.088	< 0.088	< 0.088	< 0.088	< 0.088	< 0.088	< 0.088
Bromomethane	1	10	< 0.62	< 0.31	< 0.31	< 1.6	< 1.6	< 0.62	< 0.62	< 1.6	< 1.6	< 8.0	< 8.0	< 0.59	< 0.59	< 0.59	< 0.59	< 0.59	< 0.59	< 0.59	< 0.59	< 0.59	< 0.59
Carbon disulfide	200	1000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.053	< 0.053	< 0.053	< 0.053	0.14 J	0.35 J	< 0.053	0.22 J	< 0.053	< 0.053
Carbon tetrachloride	0.5	5	< 0.52	< 0.26	< 0.26	< 1.3	< 1.3	< 0.52	< 0.52	< 1.3	< 1.3	< 3.8	< 3.8	< 0.038	< 0.038	< 0.038	< 0.038	< 0.038	< 0.038	< 0.038	< 0.038	< 0.038	< 0.038
Chloroform	0.6	6	< 0.4	< 0.2	< 0.2	< 1.0	< 1.0	< 0.40	< 0.40	< 1.0	< 1.0	< 3.7	< 3.7	< 0.062	< 0.062	< 0.062	< 0.062	< 0.062	< 0.062	< 0.062	< 0.062	< 0.062	< 0.062
Chloromethane	3	30	< 0.36	< 0.18	< 0.18	< 0.90	< 0.90	< 0.36	< 0.36	< 0.90	< 0.90	< 3.2	< 3.2	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	0.75 BJ	0.63 J	0.52 BJ	< 0.16	***5.1***
cis-1,2-Dichloroethene	7	70	***11***	***21***	***20***	***210***	***220***	***230***	***240***	***270***	***230***	***230***	***220***	2.5	2.5	0.84	3.0	3.6	***15***	***17***	***30***	2.1	***34***
Dichlorodifluoromethane	200	1000	< 0.4	< 0.2	< 0.2	< 1.0	< 1.0	< 0.40	< 0.40	< 1.0	< 1.0	< 5.4	< 5.4	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11
Ethylbenzene	140	700	< 0.26	< 0.13	< 0.13	< 0.65	< 0.65	< 0.26	< 0.26	< 0.65	< 0.65	< 1.8	< 1.8	< 0.054	< 0.054	< 0.054	< 0.054	< 0.054	< 0.054	< 0.054	< 0.054	< 0.054	< 0.054
Isopropylbenzene	NE	NE	< 0.28	< 0.14	< 0.14	< 0.70	< 0.70	< 0.28	< 0.28	< 0.70	< 0.70	< 3.9	< 3.9	< 0.081	< 0.081	< 0.081	< 0.081	< 0.081	< 0.081	< 0.081	< 0.081	< 0.081	< 0.081
m,p-Xylene	400	2000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.057	< 0.057	< 0.057	< 0.057	< 0.057	< 0.057	< 0.057	< 0.057	< 0.057	< 0.057
Methyl tert-butyl ether	12	60	< 0.48	< 0.24	< 0.24	< 1.2	< 1.2	< 0.48	< 0.48	< 1.2	< 1.2	< 3.9	< 3.9	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14
Methylene chloride	0.5	5	< 1.4	< 0.68	< 0.68	< 3.4	< 3.4	< 1.4	< 1.4	< 3.4	< 3.4	< 16	< 16	0.31 J	0.19 J	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	***0.68 BJ***	< 0.14	< 0.14
Naphthalene	10	100	< 0.32	< 0.16	< 0.16	< 0.80	< 0.80	< 0.32	< 0.32	< 0.80	< 0.80	< 3.4	< 3.4	< 0.088	< 0.088	< 0.088	0.11 BJ	< 0.088	< 0.088	< 0.088	< 0.088	< 0.088	0.09 BJ
n-Butylbenzene	NE	NE	< 0.26	< 0.13	< 0.13	< 0.65	< 0.65	< 0.26	< 0.26	< 0.65	< 0.65	< 3.9	< 3.9	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14
n-Hexane	120	600	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21
n-Propylbenzene	NE	NE	< 0.26	< 0.13	< 0.13	< 0.65	< 0.65	< 0.26	< 0.26	< 0.65	< 0.65	< 4.1	< 4.1	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.1
o-Xylene	400	2000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.058	< 0.058	< 0.058	< 0.058	< 0.058	< 0.058	< 0.058	< 0.058	< 0.058	< 0.058
p-Isopropyltoluene	NE	NE	< 0.34	< 0.17	< 0.17	< 0.85	< 0.85	< 0.34	< 0.34	< 0.85	< 0.85	< 3.6	< 3.6	< 0.085	< 0.085	< 0.085	< 0.085	< 0.085	< 0.085	< 0.085	< 0.085	< 0.085	< 0.085
sec-Butylbenzene	NE	NE	< 0.3	< 0.15	< 0.15	< 0.75	< 0.75	< 0.30	< 0.30	< 0.75	< 0.75	< 4.0	< 4.0	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13
Styrene	10	100	< 0.2	< 0.1	< 0.1	< 0.50	< 0.50	< 0.20	< 0.20	< 0.50	< 0.50	< 3.9	< 3.9	< 0.065	< 0.065	< 0.065	< 0.065	< 0.065	< 0.065	< 0.065	< 0.065	< 0.065	< 0.065
tert-Butylbenzene	NE	NE	< 0.28	< 0.14	< 0.14	< 0.70	< 0.70	< 0.28	< 0.28	< 0.70	< 0.70	< 4.0	< 4.0	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12
Tetrachloroethene	0.5	5	***840***	***150***	***150***	***1800***	***1700***	***1700***	***1700***	***1800***	***1800***	***2200***	***2200***	***12***	***13***	***7.4***	***18***	***19***	***20***	***18***	***14***	***2.3 B***	***0.92 B***
Toluene	160	800	< 0.22	< 0.11	< 0.11	< 0.55	< 0.55	< 0.22	< 0.22	< 0.55	< 0.55	< 1.5	< 1.5	< 0.053	< 0.053	< 0.053	< 0.053	< 0.053	< 0.053	< 0.053	0.11 BJ	< 0.053	< 0.053
trans-1,2-Dichloroethene	20	100	< 0.5	0.52 J	< 0.25	3.1 J	3.9 J	3.0	3.3	4.6 J	< 1.3	< 3.5	< 3.5	< 0.11	0.11 J	< 0.11	0.13 J	0.13 J	0.22 J	0.17 J	0.22 J	< 0.11	0.28 J
Trichloroethene	0.5	5	***12***	***9.8***	***9.9***	***120***	***130***	***140***	***140***	***160***	***140***	***130***	***130***	***2.4***	***2.5***	***0.84***	***2.4***	***2.7***	***6.7***	***7.2***	***19***	***4.4***	***0.8***
Vinyl chloride	0.02	0.2	< 0.2	< 0.1	< 0.1	< 0.50	< 0.50	< 0.20	< 0.20	< 0.50	< 0.50	< 2.0	< 2.0	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	***0.17 J***	< 0.16	< 0.16	< 0.16
Xylenes, Total	400	2000	< 0.14	< 0.068	< 0.068	< 0.34	< 0.34	< 0.14	< 0.14	< 0.34	< 0.34	< 2.2	< 2.2	< 0.058	< 0.058	< 0.058	< 0.058	< 0.058	< 0.058	< 0.058	< 0.12	< 0.12	< 0.12
Total PCBs																							
Aroclor-1016	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1232	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1242	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1248	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Detected PCBs	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dissolved PCBs																							
Aroclor-1016	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1232	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1242	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1248	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Detected PCBs	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Solids																							
Total Dissolved Solids	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Suspended Solids (TSS)	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Notes on Page 55.

Table 18
Groundwater Analytical Results Summary
Madison-Kipp Corporation
Madison, Wisconsin

WELL ID			MW-3D3	MW-3D3[3]	MW-3D3	MW-3D3	MW-3D3	MW-3D3	MW-3D3	MW-3D3	MW-3D3	MW-3D3	MW-3D3	MW-3D3	MW-3D3	MW-3D3	MW-3D3	MW-3D3	MW-3D3	MW-3D3	MW-3D3
SCREEN INTERVAL (feet bgs)	PREVENTIVE	ENFORCEMENT	214 - 224 ft	214 - 224 ft	214 - 224 ft	214 - 224 ft	214 - 224 ft	214 - 224 ft	214 - 224 ft	214 - 224 ft	214 - 224 ft	214 - 224 ft	214 - 224 ft	214 - 224 ft	214 - 224 ft	214 - 224 ft	214 - 224 ft	214 - 224 ft	214 - 224 ft	214 - 224 ft	214 - 224 ft
SAMPLE DATE	ACTION LIMIT	STANDARD	07/24/2012	07/24/2012	11/27/2012	12/19/2012	12/31/2012	01/03/2013	01/18/2013	01/31/2013	02/15/2013	02/27/2013	03/13/2013	04/19/2013	07/16/2013	10/07/2013	04/16/2014	10/16/2014	04/13/2015	10/19/2015	10/13/2016	10/05/2017
VOCs																					
1,1,1,2-Tetrachloroethane	7	70	< 0.25	< 0.25	< 0.25	NA	NA	NA	< 0.25	NA	< 0.25	NA	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.46	< 0.11	< 0.11
1,1,1-Trichloroethane	40	200	< 0.2	< 0.2	< 0.2	NA	NA	NA	< 0.2	NA	< 0.2	NA	< 0.2	< 0.2	< 0.2	< 0.2	< 0.20	< 0.20	< 0.20	< 0.38	< 0.10	< 0.1
1,1,2-Trichloroethane	0.5	5	< 0.28	< 0.28	< 0.28	NA	NA	NA	< 0.28	NA	< 0.28	NA	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.35	< 0.10	< 0.1
1,1-Dichloroethene	0.7	7	< 0.31	< 0.31	< 0.31	NA	NA	NA	< 0.31	NA	< 0.31	NA	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.39	< 0.14	< 0.14
1,2,4-Trimethylbenzene	96	480	< 0.14	< 0.14	< 0.14	NA	NA	NA	< 0.14	NA	< 0.14	NA	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.36	< 0.060	< 0.06
1,2-Dibromoethane	0.005	0.05	< 0.36	< 0.36	< 0.36	NA	NA	NA	< 0.36	NA	< 0.36	NA	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36	< 0.39	< 0.13	< 0.13
1,2-Dichlorobenzene	60	600	< 0.27	< 0.27	< 0.27	NA	NA	NA	< 0.27	NA	< 0.27	NA	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.33	< 0.076	< 0.076
1,2-Dichloropropane	0.5	5	< 0.2	< 0.2	< 0.2	NA	NA	NA	< 0.2	NA	< 0.2	NA	< 0.2	< 0.2	< 0.2	< 0.2	< 0.20	< 0.20	< 0.20	< 0.43	< 0.10	< 0.1
1,2,3-Trichlorobenzene	NE	NE	< 0.24	< 0.24	< 0.24	NA	NA	NA	< 0.24	NA	< 0.24	NA	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.46	< 0.045	< 0.045
1,2,4-Trichlorobenzene	14	70	< 0.31	< 0.31	< 0.31	NA	NA	NA	< 0.31	NA	< 0.31	NA	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.34	< 0.077	< 0.077
1,3,5-Trimethylbenzene	96	480	< 0.18	< 0.18	< 0.18	NA	NA	NA	< 0.18	NA	< 0.18	NA	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.25	< 0.075	< 0.075
2-Butanone	800	4000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 3.0	< 3
2-Hexanone	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.95	< 0.95
4-Methyl-2-pentanone	50	500	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.77	< 0.77
Acetone	1800	9000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 3.4	< 3.4
Benzene	0.5	5	< 0.074	< 0.074	< 0.074	NA	NA	NA	0.30 J	NA	< 0.074	NA	< 0.074	< 0.074	< 0.074	< 0.074	< 0.074	< 0.074	< 0.074	< 0.15	< 0.089	< 0.089
Bromodichloromethane	0.06	0.6	< 0.17	< 0.17	< 0.17	NA	NA	NA	< 0.17	NA	< 0.17	NA	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.37	< 0.077	< 0.077
Bromoform	0.44	4.4	< 0.28	< 0.28	< 0.28	NA	NA	NA	< 0.28	NA	< 0.28	NA	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.48	< 0.088	< 0.088
Bromomethane	1	10	< 0.31	< 0.31	< 0.31	NA	NA	NA	< 0.31	NA	< 0.31 *	NA	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.80	< 0.59	< 0.59
Carbon disulfide	200	1000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.053	< 0.053
Carbon tetrachloride	0.5	5	< 0.26	< 0.26	< 0.26	NA	NA	NA	< 0.26	NA	< 0.26	NA	< 0.26	< 0.26	< 0.26	< 0.26	< 0.26	< 0.26	< 0.26	< 0.38	< 0.038	< 0.038
Chloroform	0.6	6	< 0.2	< 0.2	< 0.2	NA	NA	NA	< 0.2	NA	< 0.2	NA	< 0.2	< 0.2	< 0.2	< 0.2	< 0.20	< 0.20	< 0.20	< 0.37	< 0.062	< 0.062
Chloromethane	3	30	< 0.18	< 0.18	< 0.18	NA	NA	NA	< 0.18	NA	< 0.18	NA	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.32	0.79 BJ	0.58 J
cis-1,2-Dichloroethene	7	70	2.2	2.2	6.8	NA	NA	NA	***15***	NA	***7.7***	NA	6.2	4.0	1.2	< 0.12	< 0.12	< 0.12	< 0.12	< 0.41	< 0.11	< 0.11
Dichlorodifluoromethane	200	1000	< 0.2	< 0.2	< 0.2	NA	NA	NA	< 0.2	NA	< 0.2	NA	< 0.2	< 0.2	< 0.2	< 0.2	< 0.20	< 0.20	< 0.20	< 0.54	< 0.11	< 0.11
Ethylbenzene	140	700	< 0.13	< 0.13	< 0.13	NA	NA	NA	< 0.13	NA	< 0.13	NA	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.18	< 0.054	< 0.054
Isopropylbenzene	NE	NE	< 0.14	< 0.14	< 0.14	NA	NA	NA	< 0.14	NA	< 0.14	NA	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.39	< 0.081	< 0.081
m,p-Xylene	400	2000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.057	< 0.057
Methyl tert-butyl ether	12	60	< 0.24	< 0.24	< 0.24	NA	NA	NA	< 0.24	NA	< 0.24	NA	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.39	< 0.14	< 0.14
Methylene chloride	0.5	5	< 0.68	< 0.68	< 0.68	NA	NA	NA	< 0.68	NA	< 0.68	NA	< 0.68	< 0.68	< 0.68	< 0.68	< 0.68	< 0.68	< 0.68	< 1.6	< 0.14	< 0.14
Naphthalene	10	100	< 0.16	< 0.16	< 0.16	NA	NA	NA	< 0.16	NA	< 0.16	NA	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.34	< 0.088	0.1 BJ
n-Butylbenzene	NE	NE	< 0.13	< 0.13	< 0.13	NA	NA	NA	< 0.13	NA	< 0.13	NA	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.39	< 0.14	< 0.14
n-Hexane	120	600	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.21	< 0.21
n-Propylbenzene	NE	NE	< 0.13	< 0.13	< 0.13	NA	NA	NA	< 0.13	NA	< 0.13	NA	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.41	< 0.10	< 0.1
o-Xylene	400	2000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.058	< 0.058
p-Isopropyltoluene	NE	NE	< 0.17	< 0.17	< 0.17	NA	NA	NA	< 0.17	NA	< 0.17	NA	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.36	< 0.085	< 0.085
sec-Butylbenzene	NE	NE	< 0.15	< 0.15	< 0.15	NA	NA	NA	< 0.15	NA	< 0.15	NA	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.40	< 0.13	< 0.13
Styrene	10	100	< 0.1	< 0.1	< 0.1	NA	NA	NA	< 0.1	NA	< 0.1	NA	< 0.1	< 0.1	< 0.1	< 0.1	< 0.10	< 0.10	< 0.10	< 0.39	< 0.065	< 0.065
tert-Butylbenzene	NE	NE	< 0.14	< 0.14	< 0.14	NA	NA	NA	< 0.14	NA	< 0.14	NA	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.40	< 0.12	< 0.12
Tetrachloroethene	0.5	5	***6.6***	***6.6***	***1.7***	NA	NA	NA	***1.3***	NA	***0.72 J***	NA	***0.95 J***	***0.63 J***	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.37	0.49 J	0.15 BJ
Toluene	160	800	< 0.11	< 0.11	< 0.11	NA	NA	NA	0.21 J	NA	< 0.11	NA	< 0.11	0.53	2.8	< 0.11	< 0.11	< 0.11	< 0.11	< 0.15	0.10 J	0.07 J
trans-1,2-Dichloroethene	20	100	< 0.25	< 0.25	< 0.25	NA	NA	NA	< 0.25	NA	< 0.25	NA	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.35	< 0.11	< 0.11
Trichloroethene	0.5	5	***1.1***	***1.2***	***1.1***	NA	NA	NA	0.40 J	NA	< 0.19	NA	< 0.19	< 0.19	0.31 J	***0.5***	< 0.19	< 0.19	< 0.19	< 0.16	< 0.062	< 0.062
Vinyl chloride	0.02	0.2	< 0.1	< 0.1	< 0.1	NA	NA	NA	< 0.1	NA	< 0.1	NA	< 0.1	< 0.1	< 0.1	< 0.1	< 0.10	< 0.10	< 0.10	< 0.20	< 0.16	< 0.16
Xylenes, Total	400	2000	< 0.068	< 0.068	< 0.068	NA	NA	NA	< 0.068	NA	< 0.068	NA	< 0.068	< 0.068	< 0.068	< 0.068	< 0.068	< 0.068	< 0.068	< 0.22	< 0.058	< 0.12
Total PCBs																						
Aroclor-1016	0.003	0.03	NA	NA	NA	NA	NA	NA	< 0.18	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1232	0.003	0.03	NA	NA	NA	NA	NA	NA	< 0.096	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1242	0.003	0.03	NA	NA	NA	NA	NA	NA	< 0.14	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1248	0.003	0.03	NA	NA	NA	NA	NA	NA	< 0.11	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Detected PCBs	0.003	0.03	NA	NA	NA	NA	NA	NA	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dissolved PCBs																						
Aroclor-1016	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1232	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1242	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1248	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Detected PCBs	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Solids																						
Total Dissolved Solids	NE	NE	NA	NA	410	350	360	320	300	340	380	670	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Suspended Solids (TSS)	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

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Table 18
Groundwater Analytical Results Summary
Madison-Kipp Corporation
Madison, Wisconsin

WELL ID SCREEN INTERVAL (feet bgs) SAMPLE DATE	PREVENTIVE ACTION LIMIT	ENFORCEMENT STANDARD	MW-4S 35 - 50 ft 04/08/2010	MW-4S[3] 35 - 50 ft 04/08/2010	MW-4S 35 - 50 ft 03/30/2011	MW-4S 35 - 50 ft 04/10/2012	MW-4S 35 - 50 ft 01/15/2013	MW-4S 35 - 50 ft 04/18/2013	MW-4S 35 - 50 ft 07/18/2013	MW-4S 35 - 50 ft 10/08/2013	MW-4S 35 - 50 ft 04/17/2014	MW-4S 35 - 50 ft 10/17/2014	MW-4S 35 - 50 ft 10/05/2017
VOCs													
1,1,1,2-Tetrachloroethane	7	70	< 0.25	< 0.25	< 0.25	< 0.31	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	NA
1,1,1-Trichloroethane	40	200	< 0.5	< 0.5	< 0.5	< 0.26	< 0.2	< 0.2	< 0.2	< 0.2	< 0.20	< 0.20	NA
1,1,2-Trichloroethane	0.5	5	< 0.25	< 0.25	< 0.25	< 0.3	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	NA
1,1-Dichloroethene	0.7	7	< 0.5	< 0.5	< 0.5	< 0.29	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	NA
1,2,4-Trimethylbenzene	96	480	< 0.2	< 0.2	< 0.2	< 0.22	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	NA
1,2-Dibromoethane	0.005	0.05	< 0.2	< 0.2	< 0.2	< 0.45	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36	NA
1,2-Dichlorobenzene	60	600	< 0.2	< 0.2	< 0.2	< 0.21	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	NA
1,2-Dichloropropane	0.5	5	< 0.5	< 0.5	< 0.5	< 0.36	< 0.2	< 0.2	< 0.2	< 0.2	< 0.20	< 0.20	NA
1,2,3-Trichlorobenzene	NE	NE	< 0.25	< 0.25	< 0.25	< 0.36	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	NA
1,2,4-Trichlorobenzene	14	70	< 0.25	< 0.25	< 0.25	< 0.22	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	NA
1,3,5-Trimethylbenzene	96	480	< 0.2	< 0.2	< 0.2	< 0.23	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	NA
2-Butanone	800	4000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Hexanone	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Methyl-2-pentanone	50	500	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Acetone	1800	9000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzene	0.5	5	< 0.2	< 0.2	< 0.2	< 0.12	< 0.074	< 0.074	< 0.074	< 0.074	< 0.074	< 0.074	NA
Bromodichloromethane	0.06	0.6	< 0.2	< 0.2	< 0.2	< 0.23	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	NA
Bromoform	0.44	4.4	< 0.2	< 0.2	< 0.2	< 0.45	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	NA
Bromomethane	1	10	< 0.5	< 0.5	< 0.5	< 0.49	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31 *	NA
Carbon disulfide	200	1000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon tetrachloride	0.5	5	< 0.8	< 0.8	< 0.8	< 0.28	< 0.26	< 0.26	< 0.26	< 0.26	< 0.26	< 0.26	NA
Chloroform	0.6	6	< 0.2	< 0.2	< 0.2	< 0.25	< 0.2	< 0.2	< 0.2	< 0.2	< 0.20	< 0.20	NA
Chloromethane	3	30	< 0.3	< 0.3	< 0.3	< 0.24	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	NA
cis-1,2-Dichloroethene	7	70	< 0.5	< 0.5	< 0.5	< 0.22	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	NA
Dichlorodifluoromethane	200	1000	< 0.5	< 0.5	< 0.5	< 0.26	< 0.2	< 0.2	< 0.2	< 0.2	< 0.20	< 0.20	NA
Ethylbenzene	140	700	< 0.5	< 0.5	< 0.5	< 0.14	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	NA
Isopropylbenzene	NE	NE	< 0.2	< 0.2	< 0.2	< 0.21	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	NA
m,p-Xylene	400	2000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methyl tert-butyl ether	12	60	< 0.5	< 0.5	< 0.5	< 0.28	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24 *	NA
Methylene chloride	0.5	5	< 1	< 1	< 1	< 0.63	< 0.68	< 0.68	< 0.68	< 0.68	< 0.68	< 0.68	NA
Naphthalene	10	100	1.4	1.4	< 0.25	< 0.24	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	NA
n-Butylbenzene	NE	NE	< 0.2	< 0.2	< 0.2	< 0.21	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	NA
n-Hexane	120	600	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
n-Propylbenzene	NE	NE	< 0.5	< 0.5	< 0.5	< 0.19	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	NA
o-Xylene	400	2000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
p-Isopropyltoluene	NE	NE	< 0.2	< 0.2	< 0.2	< 0.24	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	NA
sec-Butylbenzene	NE	NE	< 0.25	< 0.25	< 0.25	< 0.19	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	NA
Styrene	10	100	< 0.5	< 0.5	< 0.5	< 0.26	< 0.1	< 0.1	< 0.1	< 0.1	< 0.10	< 0.10	NA
tert-Butylbenzene	NE	NE	< 0.2	< 0.2	< 0.2	< 0.24	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	NA
Tetrachloroethene	0.5	5	***1.5***	***1.7***	***1.6***	***0.96 J***	***1.4***	***1.8***	***0.90 J***	***1.2***	***1.9***	***1.4***	NA
Toluene	160	800	< 0.5	< 0.5	< 0.5	0.20 J	< 0.11	< 0.11	0.26 J	< 0.11	< 0.11	< 0.11	NA
trans-1,2-Dichloroethene	20	100	< 0.5	< 0.5	< 0.5	< 0.27	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	NA
Trichloroethene	0.5	5	< 0.2	< 0.2	< 0.2	< 0.18	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	NA
Vinyl chloride	0.02	0.2	< 0.2	< 0.2	< 0.2	< 0.13	< 0.1	< 0.1	< 0.1	< 0.1	< 0.10	< 0.10	NA
Xylenes, Total	400	2000	< 0.5	< 0.5	< 0.5	< 0.3	< 0.068	< 0.068	0.28 J	< 0.068	< 0.068	< 0.068	NA
Total PCBs													
Aroclor-1016	0.003	0.03	NA	NA	NA	NA	< 0.17	NA	NA	NA	NA	NA	< 0.035
Aroclor-1232	0.003	0.03	NA	NA	NA	NA	< 0.091	NA	NA	NA	NA	NA	< 0.037
Aroclor-1242	0.003	0.03	NA	NA	NA	NA	< 0.13	NA	NA	NA	NA	NA	< 0.038
Aroclor-1248	0.003	0.03	NA	NA	NA	NA	< 0.11	NA	NA	NA	NA	NA	< 0.02
Total Detected PCBs	0.003	0.03	NA	NA	NA	NA	ND	NA	NA	NA	NA	NA	ND
Dissolved PCBs													
Aroclor-1016	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1232	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1242	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1248	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Detected PCBs	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Solids													
Total Dissolved Solids	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	3750
Total Suspended Solids (TSS)	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.95

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Table 18
Groundwater Analytical Results Summary
Madison-Kipp Corporation
Madison, Wisconsin

WELL ID SCREEN INTERVAL (feet bgs) SAMPLE DATE	PREVENTIVE ACTION LIMIT	ENFORCEMENT STANDARD	MW-4D 65 - 70 ft 04/08/2010	MW-4D 65 - 70 ft 03/30/2011	MW-4D 65 - 70 ft 04/10/2012	MW-4D 65 - 70 ft 01/16/2013	MW-4D 65 - 70 ft 04/18/2013	MW-4D 65 - 70 ft 07/17/2013	MW-4D 65 - 70 ft 10/08/2013	MW-4D 65 - 70 ft 04/17/2014	MW-4D 65 - 70 ft 10/17/2014	MW-4D 65 - 70 ft 10/12/2017
VOCs												
1,1,1,2-Tetrachloroethane	7	70	< 0.25	< 0.25	< 0.31	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	NA
1,1,1-Trichloroethane	40	200	< 0.5	< 0.5	< 0.26	< 0.2	< 0.2	< 0.2	< 0.2	< 0.20	< 0.20	NA
1,1,2-Trichloroethane	0.5	5	< 0.25	< 0.25	< 0.3	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	NA
1,1-Dichloroethene	0.7	7	< 0.5	< 0.5	< 0.29	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	NA
1,2,4-Trimethylbenzene	96	480	< 0.2	< 0.2	< 0.22	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	NA
1,2-Dibromoethane	0.005	0.05	< 0.2	< 0.2	< 0.45	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36	NA
1,2-Dichlorobenzene	60	600	< 0.2	< 0.2	< 0.21	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	NA
1,2-Dichloropropane	0.5	5	< 0.5	< 0.5	< 0.36	< 0.2	< 0.2	< 0.2	< 0.2	< 0.20	< 0.20	NA
1,2,3-Trichlorobenzene	NE	NE	< 0.25	< 0.25	< 0.36	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	NA
1,2,4-Trichlorobenzene	14	70	< 0.25	< 0.25	< 0.22	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	NA
1,3,5-Trimethylbenzene	96	480	< 0.2	< 0.2	< 0.23	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	NA
2-Butanone	800	4000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Hexanone	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Methyl-2-pentanone	50	500	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Acetone	1800	9000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzene	0.5	5	< 0.2	< 0.2	< 0.12	< 0.074	< 0.074	< 0.074	< 0.074	< 0.074	< 0.074	NA
Bromodichloromethane	0.06	0.6	< 0.2	< 0.2	< 0.23	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	NA
Bromoform	0.44	4.4	< 0.2	< 0.2	< 0.45	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	NA
Bromomethane	1	10	< 0.5	< 0.5	< 0.49	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31 *	NA
Carbon disulfide	200	1000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon tetrachloride	0.5	5	< 0.8	< 0.8	< 0.28	< 0.26	< 0.26	< 0.26	< 0.26	< 0.26	< 0.26	NA
Chloroform	0.6	6	< 0.2	< 0.2	< 0.25	< 0.2	< 0.2	< 0.2	< 0.2	< 0.20	< 0.20	NA
Chloromethane	3	30	< 0.3	< 0.3	< 0.24	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	NA
cis-1,2-Dichloroethene	7	70	< 0.5	< 0.5	< 0.22	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	NA
Dichlorodifluoromethane	200	1000	< 0.5	< 0.5	< 0.26	< 0.2	< 0.2	< 0.2	< 0.2	< 0.20	< 0.20	NA
Ethylbenzene	140	700	< 0.5	< 0.5	< 0.14	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	NA
Isopropylbenzene	NE	NE	< 0.2	< 0.2	< 0.21	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	NA
m,p-Xylene	400	2000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methyl tert-butyl ether	12	60	< 0.5	< 0.5	< 0.28	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24 *	NA
Methylene chloride	0.5	5	< 1	< 1	< 0.63	< 0.68	< 0.68	< 0.68	< 0.68	< 0.68	< 0.68	NA
Naphthalene	10	100	< 0.25	< 0.25	< 0.24	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	NA
n-Butylbenzene	NE	NE	< 0.2	< 0.2	< 0.21	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	NA
n-Hexane	120	600	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
n-Propylbenzene	NE	NE	< 0.5	< 0.5	< 0.19	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	NA
o-Xylene	400	2000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
p-Isopropyltoluene	NE	NE	< 0.2	< 0.2	< 0.24	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	NA
sec-Butylbenzene	NE	NE	< 0.25	< 0.25	< 0.19	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	NA
Styrene	10	100	< 0.5	< 0.5	< 0.26	< 0.1	< 0.1	< 0.1	< 0.1	< 0.10	< 0.10	NA
tert-Butylbenzene	NE	NE	< 0.2	< 0.2	< 0.24	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	NA
Tetrachloroethene	0.5	5	***0.9***	***0.7***	< 0.22	< 0.17	***0.51 J***	< 0.17	< 0.17	***0.58 J***	< 0.17	NA
Toluene	160	800	< 0.5	< 0.5	< 0.15	< 0.11	< 0.11	0.36 J	< 0.11	< 0.11	< 0.11	NA
trans-1,2-Dichloroethene	20	100	< 0.5	< 0.5	< 0.27	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	NA
Trichloroethene	0.5	5	< 0.2	< 0.2	< 0.18	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	NA
Vinyl chloride	0.02	0.2	< 0.2	< 0.2	< 0.13	< 0.1	< 0.1	< 0.1	< 0.1	< 0.10	< 0.10	NA
Xylenes, Total	400	2000	< 0.5	< 0.5	< 0.3	< 0.068	< 0.068	< 0.068	< 0.068	< 0.068	< 0.068	NA
Total PCBs												
Aroclor-1016	0.003	0.03	NA	NA	NA	< 0.17	NA	NA	NA	NA	NA	< 0.035
Aroclor-1232	0.003	0.03	NA	NA	NA	< 0.093	NA	NA	NA	NA	NA	< 0.037
Aroclor-1242	0.003	0.03	NA	NA	NA	< 0.13	NA	NA	NA	NA	NA	< 0.038
Aroclor-1248	0.003	0.03	NA	NA	NA	< 0.11	NA	NA	NA	NA	NA	< 0.02
Total Detected PCBs	0.003	0.03	NA	NA	NA	ND	NA	NA	NA	NA	NA	ND
Dissolved PCBs												
Aroclor-1016	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1232	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1242	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1248	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Detected PCBs	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Solids												
Total Dissolved Solids	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	672
Total Suspended Solids (TSS)	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	5.6

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Table 18
Groundwater Analytical Results Summary
Madison-Kipp Corporation
Madison, Wisconsin

WELL ID SCREEN INTERVAL (feet bgs) SAMPLE DATE	PREVENTIVE ACTION LIMIT	ENFORCEMENT STANDARD	MW-4D2 91 - 96 ft 03/30/2011	MW-4D2 91 - 96 ft 04/10/2012	MW-4D2 91 - 96 ft 01/16/2013	MW-4D2 91 - 96 ft 04/18/2013	MW-4D2 91 - 96 ft 07/18/2013	MW-4D2 91 - 96 ft 10/07/2013	MW-4D2 91 - 96 ft 04/17/2014	MW-4D2 91 - 96 ft 10/17/2014	MW-4D2 91 - 96 ft 10/21/2015	MW-4D2 91 - 96 ft 01/22/2016	MW-4D2 91 - 96 ft 04/20/2016	MW-4D2 91 - 96 ft 07/19/2016	MW-4D2[3] 91 - 96 ft 07/19/2016	MW-4D2 91 - 96 ft 10/12/2016	MW-4D2 91 - 96 ft 1/19/2017	MW-4D2 91 - 96 ft 04/11/2017	MW-4D2 91 - 96 ft 10/05/2017
VOCs																			
1,1,1,2-Tetrachloroethane	7	70	< 0.25	< 0.31	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.46	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11
1,1,1-Trichloroethane	40	200	< 0.5	< 0.26	< 0.2	< 0.2	< 0.2	< 0.2	< 0.20	< 0.20	< 0.38	< 0.10	0.13 J	0.17 J	0.18 J	0.27 J	0.24 J	0.30 J	< 0.1
1,1,2-Trichloroethane	0.5	5	< 0.25	< 0.3	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.35	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.1
1,1-Dichloroethene	0.7	7	< 0.5	< 0.29	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.39	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14
1,2,4-Trimethylbenzene	96	480	< 0.2	< 0.22	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.36	< 0.060	< 0.060	< 0.060	< 0.060	< 0.060	< 0.060	< 0.060	< 0.06
1,2-Dibromoethane	0.005	0.05	< 0.2	< 0.45	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36	< 0.39	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13
1,2-Dichlorobenzene	60	600	< 0.2	< 0.21	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.33	< 0.076	< 0.076	< 0.076	< 0.076	< 0.076	< 0.076	< 0.076	< 0.076
1,2-Dichloropropane	0.5	5	< 0.5	< 0.36	< 0.2	< 0.2	< 0.2	< 0.2	< 0.20	< 0.20	< 0.43	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.1
1,2,3-Trichlorobenzene	NE	NE	< 0.25	< 0.36	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.46	< 0.045	< 0.045	< 0.045	< 0.045	< 0.045	< 0.045	< 0.045	< 0.045
1,2,4-Trichlorobenzene	14	70	< 0.25	< 0.22	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.34	< 0.077	< 0.077	< 0.077	< 0.077	< 0.077	< 0.077	< 0.077	< 0.077
1,3,5-Trimethylbenzene	96	480	< 0.2	< 0.23	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.25	< 0.075	< 0.075	< 0.075	< 0.075	< 0.075	< 0.075	< 0.075	< 0.075
2-Butanone	800	4000	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 3.0	< 3.0	< 3.0	< 3.0	< 3.0	< 3.0	< 3.0	< 3
2-Hexanone	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.95	< 0.95	< 0.95	< 0.95	< 0.95	< 0.95	< 0.95	< 0.95
4-Methyl-2-pentanone	50	500	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.77	< 0.77	< 0.77	< 0.77	< 0.77	< 0.77	< 0.77	< 0.77
Acetone	1800	9000	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 3.4	< 3.4	< 3.4	< 3.4	< 3.4	< 3.4	< 3.4	< 3.4
Benzene	0.5	5	< 0.2	< 0.12	< 0.074	< 0.074	< 0.074	< 0.074	< 0.074	< 0.074	< 0.15	< 0.089	< 0.089	< 0.089	< 0.089	0.34 J	< 0.089	< 0.089	< 0.089
Bromodichloromethane	0.06	0.6	< 0.2	< 0.23	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.37	< 0.077	< 0.077	< 0.077	< 0.077	< 0.077	< 0.077	< 0.077	< 0.077
Bromoform	0.44	4.4	< 0.2	< 0.45	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.48	< 0.088	< 0.088	< 0.088	< 0.088	< 0.088	< 0.088	< 0.088	< 0.088
Bromomethane	1	10	< 0.5	< 0.49	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31 *	< 0.80	< 0.59	< 0.59	< 0.59	< 0.59	< 0.59	< 0.59	< 0.59	< 0.59
Carbon disulfide	200	1000	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.053	< 0.053	< 0.053	< 0.053	< 0.053	< 0.053	< 0.053	< 0.053
Carbon tetrachloride	0.5	5	< 0.8	< 0.28	< 0.26	< 0.26	< 0.26	< 0.26	< 0.26	< 0.26	< 0.38	< 0.038	< 0.038	< 0.038	< 0.038	< 0.038	< 0.038	< 0.038	< 0.038
Chloroform	0.6	6	< 0.2	< 0.25	< 0.2	< 0.2	< 0.2	< 0.2	< 0.20	< 0.20	< 0.37	< 0.062	< 0.062	< 0.062	< 0.062	< 0.062	< 0.062	< 0.062	< 0.062
Chloromethane	3	30	< 0.3	< 0.24	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.32	< 0.16	< 0.16	0.20 J	0.18 J	0.52 BJ	0.26 BJ	< 0.16	0.93 J
cis-1,2-Dichloroethene	7	70	< 0.5	< 0.22	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	< 0.41	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11
Dichlorodifluoromethane	200	1000	< 0.5	< 0.26	< 0.2	< 0.2	< 0.2	< 0.2	< 0.20	< 0.20	< 0.54	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11
Ethylbenzene	140	700	< 0.5	< 0.14	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	0.40 J	< 0.054	< 0.054	< 0.054	< 0.054	< 0.054	< 0.054	< 0.054	< 0.054
Isopropylbenzene	NE	NE	< 0.2	< 0.21	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.39	< 0.081	< 0.081	< 0.081	< 0.081	< 0.081	< 0.081	< 0.081	< 0.081
m,p-Xylene	400	2000	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.057	< 0.057	< 0.057	< 0.057	< 0.057	< 0.057	< 0.057	< 0.057
Methyl tert-butyl ether	12	60	< 0.5	< 0.28	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24 *	< 0.39	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14
Methylene chloride	0.5	5	< 1	< 0.63	< 0.68	< 0.68	< 0.68	< 0.68	< 0.68	< 0.68	< 1.6	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14
Naphthalene	10	100	< 0.25	< 0.24	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.34	< 0.088	< 0.088	< 0.088	< 0.088	< 0.088	< 0.088	< 0.088	0.13 BJ
n-Butylbenzene	NE	NE	< 0.2	< 0.21	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.39	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14
n-Hexane	120	600	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21
n-Propylbenzene	NE	NE	< 0.5	< 0.19	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.41	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.1
o-Xylene	400	2000	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.058	< 0.058	< 0.058	< 0.058	< 0.058	< 0.058	< 0.058	< 0.058
p-Isopropyltoluene	NE	NE	< 0.2	< 0.24	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.36	< 0.085	< 0.085	< 0.085	< 0.085	< 0.085	< 0.085	< 0.085	< 0.085
sec-Butylbenzene	NE	NE	< 0.25	< 0.19	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.40	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13
Styrene	10	100	< 0.5	< 0.26	< 0.1	< 0.1	< 0.1	< 0.1	< 0.10	< 0.10	< 0.39	< 0.065	< 0.065	< 0.065	< 0.065	< 0.065	< 0.065	< 0.065	< 0.065
tert-Butylbenzene	NE	NE	< 0.2	< 0.24	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.40	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12
Tetrachloroethene	0.5	5	***1.9***	***0.73 J***	***1.2***	***0.92 J***	***1.2***	***0.84 J***	***1.5***	***1***	0.48 J	***0.8***	***0.76***	0.45 J	***0.55***	***0.65***	0.38 BJ	0.46 BJ	***0.61 B***
Toluene	160	800	< 0.5	0.40 J	< 0.11	0.45 J	0.39 J	< 0.11	< 0.11	< 0.11	< 0.15	< 0.053	< 0.053	< 0.053	< 0.053	0.13 J	0.11 BJ	< 0.053	< 0.053
trans-1,2-Dichloroethene	20	100	< 0.5	< 0.27	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.35	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11
Trichloroethene	0.5	5	< 0.2	< 0.18	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.16	< 0.062	< 0.062	< 0.062	< 0.062	< 0.062	< 0.062	< 0.062	< 0.062
Vinyl chloride	0.02	0.2	< 0.2	< 0.13	< 0.1	< 0.1	< 0.1	< 0.1	< 0.10	< 0.10	< 0.20	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16
Xylenes, Total	400	2000	< 0.5	< 0.3	< 0.068	< 0.068	< 0.068	< 0.068	< 0.068	< 0.068	1.8	< 0.058	< 0.058	< 0.058	< 0.058	< 0.058	< 0.12	< 0.12	< 0.12
Total PCBs																			
Aroclor-1016	0.003	0.03	NA	NA	< 0.16	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1232	0.003	0.03	NA	NA	< 0.087	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1242	0.003	0.03	NA	NA	< 0.12	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1248	0.003	0.03	NA	NA	< 0.1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Detected PCBs	0.003	0.03	NA	NA	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dissolved PCBs																			
Aroclor-1016	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1232	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1242	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1248	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Detected PCBs	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Solids																			
Total Dissolved Solids	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Suspended Solids (TSS)	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Notes on Page 55.

Table 18
Groundwater Analytical Results Summary
Madison-Kipp Corporation
Madison, Wisconsin

WELL ID			MW-5S	MW-5S	MW-5S	MW-5S[3]	MW-5S	MW-5S	MW-5S	MW-5S	MW-5S	MW-5S	MW-5S	MW-5S	MW-5S	MW-5S	MW-5S
SCREEN INTERVAL (feet bgs)	PREVENTIVE	ENFORCEMENT	34 - 44 ft	34 - 44 ft	34 - 44 ft	34 - 44 ft	34 - 44 ft	34 - 44 ft	34 - 44 ft	34 - 44 ft	34 - 44 ft	34 - 44 ft	34 - 44 ft	34 - 44 ft	34 - 44 ft	34 - 44 ft	34 - 44 ft
SAMPLE DATE	ACTION LIMIT	STANDARD	04/07/2010	10/01/2010	04/12/2012	04/12/2012	11/28/2012	01/17/2013	02/13/2013	04/19/2013	07/18/2013	10/04/2013	04/15/2014	10/21/2014	04/13/2015	10/21/2015	10/12/2016	10/04/2017
VOCs																		
1,1,1,2-Tetrachloroethane	7	70	< 0.25	< 0.25	< 0.31	< 0.31	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.46	< 0.22	< 0.11
1,1,1-Trichloroethane	40	200	< 0.5	< 0.5	< 0.26	< 0.26	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.20	< 0.20	< 0.20	< 0.38	< 0.20	< 0.1
1,1,2-Trichloroethane	0.5	5	< 0.25	< 0.25	< 0.3	< 0.3	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.35	< 0.20	< 0.1
1,1-Dichloroethene	0.7	7	< 0.5	< 0.5	< 0.29	< 0.29	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.39	< 0.28	< 0.14
1,2,4-Trimethylbenzene	96	480	< 0.2	< 0.2	< 0.22	< 0.22	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.36	< 0.12	< 0.06
1,2-Dibromoethane	0.005	0.05	< 0.2	< 0.2	< 0.45	< 0.45	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36	< 0.39	< 0.26	< 0.13
1,2-Dichlorobenzene	60	600	< 0.2	< 0.2	< 0.21	< 0.21	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.33	< 0.15	< 0.076
1,2-Dichloropropane	0.5	5	< 0.5	< 0.5	< 0.36	< 0.36	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.20	< 0.20	< 0.20	< 0.43	< 0.20	< 0.1
1,2,3-Trichlorobenzene	NE	NE	< 0.25	< 0.25	< 0.36	< 0.36	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.46	< 0.090	< 0.045
1,2,4-Trichlorobenzene	14	70	< 0.25	< 0.25	< 0.22	< 0.22	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.34	< 0.15	< 0.077
1,3,5-Trimethylbenzene	96	480	< 0.2	< 0.2	< 0.23	< 0.23	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.25	< 0.15	< 0.075
2-Butanone	800	4000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 6.0	< 3
2-Hexanone	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 1.9	< 0.95
4-Methyl-2-pentanone	50	500	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 1.5	< 0.77
Acetone	1800	9000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 6.8	3.5 J
Benzene	0.5	5	< 0.2	< 0.2	< 0.12	0.40 J	< 0.074	< 0.074	< 0.074	< 0.074	< 0.074	< 0.074	< 0.074	< 0.074	< 0.074	< 0.15	< 0.18	< 0.089
Bromodichloromethane	0.06	0.6	< 0.2	< 0.2	< 0.23	< 0.23	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.37	< 0.15	< 0.077
Bromoform	0.44	4.4	< 0.2	< 0.2	< 0.45	< 0.45	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.48	< 0.18	< 0.088
Bromomethane	1	10	< 0.5	< 0.5	< 0.49	< 0.49	< 0.31	0.73 J	< 0.31 *	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.80	< 1.2	< 0.59
Carbon disulfide	200	1000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.11	< 0.053
Carbon tetrachloride	0.5	5	< 0.8	< 0.8	***1.2***	< 0.28	***1.1***	< 0.26	***1.4***	***1.1***	***1.3***	***1.3***	< 0.26	***0.79 J***	< 0.26	***1***	< 0.076	***0.81***
Chloroform	0.6	6	< 0.2	0.55	***0.84 J***	***0.88 J***	***0.79 J***	***0.79 J***	< 0.2	< 0.2	< 0.2	***0.61 J***	< 0.20	< 0.20	< 0.20	< 0.37	< 0.12	< 0.062
Chloromethane	3	30	< 0.3	< 0.3	< 0.24	< 0.24	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.32	1.2 BJ	1.3 J
cis-1,2-Dichloroethene	7	70	1.4	***10***	***13***	***14***	4.2	3.8	2.7	2.0	2.9	2.9	< 0.12	< 0.12	< 0.12	< 0.41	< 0.22	< 0.11
Dichlorodifluoromethane	200	1000	< 0.5	< 0.5	< 0.26	< 0.26	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.20	< 0.20	< 0.20	< 0.54	< 0.22	< 0.11
Ethylbenzene	140	700	< 0.5	< 0.5	< 0.14	< 0.14	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.18	< 0.11	< 0.054
Isopropylbenzene	NE	NE	< 0.2	< 0.2	< 0.21	< 0.21	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.39	< 0.16	< 0.081
m,p-Xylene	400	2000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.11	0.06 BJ
Methyl tert-butyl ether	12	60	< 0.5	< 0.5	< 0.28	< 0.28	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.39	< 0.28	< 0.14
Methylene chloride	0.5	5	< 1	< 1	< 0.63	< 0.63	< 0.68	< 0.68	< 0.68	< 0.68	< 0.68	< 0.68	< 0.68	< 0.68	< 0.68	< 1.6	< 0.28	< 0.14
Naphthalene	10	100	1.4	< 0.25	< 0.24	< 0.24	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.34	< 0.18	< 0.088
n-Butylbenzene	NE	NE	< 0.2	< 0.2	< 0.21	< 0.21	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.39	< 0.28	< 0.14
n-Hexane	120	600	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.42	< 0.21
n-Propylbenzene	NE	NE	< 0.5	< 0.5	< 0.19	< 0.19	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.41	< 0.20	< 0.1
o-Xylene	400	2000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.12	< 0.058
p-Isopropyltoluene	NE	NE	< 0.2	< 0.2	< 0.24	< 0.24	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.36	< 0.17	< 0.085
sec-Butylbenzene	NE	NE	< 0.25	< 0.25	< 0.19	< 0.19	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.40	< 0.26	< 0.13
Styrene	10	100	< 0.5	< 0.5	< 0.26	< 0.26	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.10	< 0.10	< 0.10	< 0.39	< 0.13	< 0.065
tert-Butylbenzene	NE	NE	< 0.2	< 0.2	< 0.24	< 0.24	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.40	< 0.24	< 0.12
Tetrachloroethene	0.5	5	***41***	***670***	***360***	***370***	***240***	***260***	***210***	***130***	***190***	***170***	***47***	***75***	***100***	***110***	***58***	***46***
Toluene	160	800	< 0.5	< 0.5	< 0.15	< 0.15	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.15	0.22 J	< 0.053
trans-1,2-Dichloroethene	20	100	< 0.5	0.50	< 0.27	< 0.27	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.35	< 0.22	< 0.11
Trichloroethene	0.5	5	***1***	***13***	***9.8***	***10***	***4.7***	***4.4***	***3.8***	***2.8***	***3***	***2.9***	< 0.19	***1.2***	***0.99***	***0.79***	< 0.12	0.15 J
Vinyl chloride	0.02	0.2	< 0.2	< 0.2	< 0.13	< 0.13	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.10	< 0.10	< 0.10	< 0.20	< 0.32	< 0.16
Xylenes, Total	400	2000	< 0.5	< 0.5	< 0.3	< 0.3	< 0.068	< 0.068	< 0.068	< 0.068	< 0.068	< 0.068	< 0.068	< 0.068	< 0.068	< 0.22	< 0.12	< 0.12
Total PCBs																		
Aroclor-1016	0.003	0.03	NA	NA	NA	NA	NA	< 0.17	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1232	0.003	0.03	NA	NA	NA	NA	NA	< 0.091	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1242	0.003	0.03	NA	NA	NA	NA	NA	< 0.13	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1248	0.003	0.03	NA	NA	NA	NA	NA	< 0.11	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Detected PCBs	0.003	0.03	NA	NA	NA	NA	NA	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dissolved PCBs																		
Aroclor-1016	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1232	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1242	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1248	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Detected PCBs	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Solids																		
Total Dissolved Solids	NE	NE	NA	NA	NA	NA	960	930	970	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Suspended Solids (TSS)	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

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Table 18
Groundwater Analytical Results Summary
Madison-Kipp Corporation
Madison, Wisconsin

WELL ID			MW-5D	MW-5D[3]	MW-5D	MW-5D	MW-5D	MW-5D	MW-5D	MW-5D	MW-5D	MW-5D	MW-5D	MW-5D	MW-5D	MW-5D	MW-5D[3]	MW-5D	MW-5D	MW-5D[3]	MW-5D	MW-5D	MW-5D
SCREEN INTERVAL (feet bgs)	PREVENTIVE	ENFORCEMENT	75 - 80 ft	75 - 80 ft	75 - 80 ft	75 - 80 ft	75 - 80 ft	75 - 80 ft	75 - 80 ft	75 - 80 ft	75 - 80 ft	75 - 80 ft	75 - 80 ft	75 - 80 ft	75 - 80 ft	75 - 80 ft	75 - 80 ft	75 - 80 ft	75 - 80 ft	75 - 80 ft	75 - 80 ft	75 - 80 ft	75 - 80 ft
SAMPLE DATE	ACTION LIMIT	STANDARD	04/07/2010	04/07/2010	04/12/2012	11/28/2012	01/17/2013	02/13/2013	04/19/2013	07/18/2013	10/04/2013	04/15/2014	10/21/2014	04/13/2015	10/19/2015	01/21/2016	04/21/2016	04/21/2016	07/18/2016	10/12/2016	10/12/2016	1/18/2017	04/12/2017	10/04/2017
VOCs																								
1,1,1,2-Tetrachloroethane	7	70	< 5	< 5	< 0.31	< 1.3	< 0.5	< 0.5	< 0.5	< 1.3	< 1.3	< 0.25	< 0.25	< 0.25	< 0.46	< 0.11	< 0.11	< 0.11	< 0.11	0.51	< 11	< 11	< 0.55	< 0.22
1,1,1-Trichloroethane	40	200	< 10	< 10	< 0.26	< 1	< 0.4	< 0.4	< 0.4	< 1	< 1	< 0.20	< 0.20	< 0.20	< 0.38	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 10	< 10	< 0.50	< 0.2
1,1,2-Trichloroethane	0.5	5	< 5	< 5	< 0.3	< 1.4	< 0.56	< 0.56	< 0.56	< 1.4	< 1.4	< 0.28	< 0.28	< 0.28	< 0.35	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 10	< 10	< 0.50	< 0.2
1,1-Dichloroethene	0.7	7	< 10	< 10	< 0.29	< 1.6	< 0.62	< 0.62	< 0.62	< 1.6	< 1.6	< 0.31	< 0.31	< 0.31	< 0.39	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 14	< 14	< 0.70	< 0.28
1,2,4-Trimethylbenzene	96	480	< 4	< 4	< 0.22	< 0.7	< 0.28	< 0.28	< 0.28	< 0.7	< 0.7	< 0.14	< 0.14	< 0.14	< 0.36	< 0.060	< 0.060	< 0.060	< 0.060	< 0.060	< 6.0	< 6.0	< 0.30	< 0.12
1,2-Dibromoethane	0.005	0.05	< 4	< 4	< 0.45	< 1.8	< 0.72	< 0.72	< 0.72	< 1.8	< 1.8	< 0.36	< 0.36	< 0.36	< 0.39	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 13	< 13	< 0.65	< 0.26
1,2-Dichlorobenzene	60	600	< 4	< 4	< 0.21	< 1.4	< 0.54	< 0.54	< 0.54	< 1.4	< 1.4	< 0.27	< 0.27	< 0.27	< 0.33	< 0.076	< 0.076	< 0.076	< 0.076	< 0.076	< 7.6	< 7.6	< 0.38	< 0.15
1,2-Dichloropropane	0.5	5	< 10	< 10	< 0.36	< 1	< 0.4	< 0.4	< 0.4	< 1	< 1	< 0.20	< 0.20	< 0.20	< 0.43	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 10	< 10	< 0.50	< 0.2
1,2,3-Trichlorobenzene	NE	NE	< 5	< 5	< 0.36	< 1.2	< 0.48	< 0.48	< 0.48	< 1.2	< 1.2	< 0.24	< 0.24	< 0.24	< 0.46	< 0.045	< 0.045	< 0.045	0.23 BJ	< 0.045	< 4.5	< 4.5	< 0.23	< 0.09
1,2,4-Trichlorobenzene	14	70	< 5	< 5	< 0.22	< 1.6	< 0.62	< 0.62	< 0.62	< 1.6	< 1.6	< 0.31	< 0.31	< 0.31	< 0.34	< 0.077	< 0.077	< 0.077	0.13 BJ	< 0.077	< 7.7	< 7.7	< 0.39	< 0.15
1,3,5-Trimethylbenzene	96	480	< 4	< 4	< 0.23	< 0.9	< 0.36	< 0.36	< 0.36	< 0.9	< 0.9	< 0.18	< 0.18	< 0.18	< 0.25	< 0.075	< 0.075	< 0.075	< 0.075	< 0.075	< 7.5	< 7.5	< 0.38	< 0.15
2-Butanone	800	4000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 3.0	< 3.0	< 3.0	< 3.0	< 3.0	< 300	< 300	< 15	< 6
2-Hexanone	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.95	< 0.95	< 0.95	< 0.95	< 0.95	< 95	< 95	< 4.8	< 1.9
4-Methyl-2-pentanone	50	500	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.77	< 0.77	< 0.77	< 0.77	< 0.77	< 77	< 77	< 3.9	< 1.5
Acetone	1800	9000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 3.4	< 3.4	< 3.4	< 3.4	< 3.4	< 340	< 340	< 17	< 6.8
Benzene	0.5	5	< 4	< 4	0.29 J	***1.1 J***	***1.2***	***1***	***0.88 J***	***1.5 J***	***2.8***	0.30 J	0.22 J	< 0.074	< 0.15	< 0.089	< 0.089	< 0.089	< 0.089	***5.7***	< 8.9	***9.0 J***	< 0.45	< 0.18
Bromodichloromethane	0.06	0.6	< 4	< 4	< 0.23	< 0.85	< 0.34	< 0.34	< 0.34	< 0.85	< 0.85	< 0.17	< 0.17	< 0.17	< 0.37	< 0.077	< 0.077	< 0.077	< 0.077	< 0.077	< 7.7	< 7.7	< 0.39	< 0.15
Bromoform	0.44	4.4	< 4	< 4	< 0.45	< 1.4	< 0.56	< 0.56	< 0.56	< 1.4	< 1.4	< 0.28	< 0.28	< 0.28	< 0.48	< 0.088	< 0.088	< 0.088	< 0.088	< 0.088	< 8.8	< 8.8	< 0.44	< 0.18
Bromomethane	1	10	< 10	< 10	< 0.49	< 1.6	< 0.62	< 0.62 *	< 0.62	< 1.6	< 1.6	< 0.31	< 0.31	< 0.31	< 0.80	< 0.59	< 0.59	< 0.59	< 0.59	< 0.59	< 59	< 59	< 3.0	< 1.2
Carbon disulfide	200	1000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.053	< 0.053	0.11 J	< 0.053	< 0.053	< 5.3	15 J	0.70 J	< 0.11
Carbon tetrachloride	0.5	5	< 16	< 16	< 0.28	< 1.3	< 0.52	< 0.52	< 0.52	< 1.3	< 1.3	< 0.26	< 0.26	< 0.26	< 0.38	< 0.038	< 0.038	< 0.038	< 0.038	< 0.038	< 3.8	< 3.8	< 0.19	< 0.076
Chloroform	0.6	6	< 4	< 4	< 0.25	< 1	***1.0 J***	< 0.4	< 0.4	< 1	< 1	< 0.20	< 0.20	< 0.20	< 0.37	< 0.062	< 0.062	< 0.062	< 0.062	***1***	< 6.2	***11 BJ***	< 0.31	< 0.12
Chloromethane	3	30	< 6	< 6	< 0.24	< 0.9	< 0.36	< 0.36	< 0.36	< 0.9	< 0.9	< 0.18	< 0.18	< 0.18	< 0.32	< 0.16	< 0.16	< 0.16	< 0.16	0.57 BJ	***100 J***	< 16	< 0.80	1.4 J
cis-1,2-Dichloroethene	7	70	***48***	***48***	***26***	***93***	***110***	***94***	***100***	***120***	***140***	***77***	***100***	***190***	***10***	0.94	***11***	***13***	3.0	***210***	***270***	***230***	***13***	4
Dichlorodifluoromethane	200	1000	< 10	< 10	< 0.26	< 1	< 0.4	< 0.4	< 0.4	< 1	< 1	< 0.20	< 0.20	< 0.20	< 0.54	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 11	< 11	< 0.55	< 0.22
Ethylbenzene	140	700	< 10	< 10	< 0.14	< 0.65	< 0.26	< 0.26	< 0.26	< 0.65	< 0.65	< 0.13	< 0.13	< 0.13	< 0.18	< 0.054	< 0.054	< 0.054	< 0.054	< 0.054	< 5.4	< 5.4	< 0.27	< 0.11
Isopropylbenzene	NE	NE	< 4	< 4	< 0.21	< 0.7	< 0.28	< 0.28	< 0.28	< 0.7	< 0.7	< 0.14	< 0.14	< 0.14	< 0.39	< 0.081	< 0.081	< 0.081	< 0.081	< 0.081	< 8.1	< 8.1	< 0.41	< 0.16
m,p-Xylene	400	2000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.057	< 0.057	< 0.057	< 0.057	< 0.057	< 5.7	8.0 BJ	< 0.29	< 0.11
Methyl tert-butyl ether	12	60	< 10	< 10	< 0.28	< 1.2	< 0.48	< 0.48	< 0.48	< 1.2	< 1.2	< 0.24	< 0.24	< 0.24	< 0.39	< 0.14	< 0.14	< 0.14	< 0.14	0.75	< 14	< 14	< 0.70	< 0.28
Methylene chloride	0.5	5	< 20	< 20	< 0.63	< 3.4	< 1.4	< 1.4	< 1.4	< 3.4	< 3.4	< 0.68	< 0.68	< 0.68	< 1.6	0.18 J	< 0.14	< 0.14	< 0.14	< 0.14	< 14	***18 BJ***	***1.3 J***	< 0.28
Naphthalene	10	100	< 5	< 5	< 0.24	< 0.8	< 0.32	< 0.32	< 0.32	< 0.8	< 0.8	< 0.16	< 0.16	< 0.16	< 0.34	< 0.088	< 0.088	< 0.088	0.22 BJ	< 0.088	< 8.8	< 8.8	< 0.44	< 0.18
n-Butylbenzene	NE	NE	< 4	< 4	< 0.21	< 0.65	< 0.26	< 0.26	< 0.26	< 0.65	< 0.65	< 0.13	< 0.13	< 0.13	< 0.39	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 14	< 14	< 0.70	< 0.28
n-Hexane	120	600	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 21	< 21	< 1.1	< 0.42
n-Propylbenzene	NE	NE	< 10	< 10	< 0.19	< 0.65	< 0.26	< 0.26	< 0.26	< 0.65	< 0.65	< 0.13	< 0.13	< 0.13	< 0.41	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 10	< 10	< 0.50	< 0.2
o-Xylene	400	2000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.058	< 0.058	< 0.058	< 0.058	< 0.058	< 5.8	< 5.8	< 0.29	< 0.12
p-Isopropyltoluene	NE	NE	< 4	< 4	< 0.24	< 0.85	< 0.34	< 0.34	< 0.34	< 0.85	< 0.85	< 0.17	< 0.17	< 0.17	< 0.36	< 0.085	< 0.085	< 0.085	< 0.085	< 0.085	< 8.5	< 8.5	< 0.43	< 0.17
sec-Butylbenzene	NE	NE	< 5	< 5	< 0.19	< 0.75	< 0.3	< 0.3	< 0.3	< 0.75	< 0.75	< 0.15	< 0.15	< 0.15	< 0.40	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 13	< 13	< 0.65	< 0.26
Styrene	10	100	< 10	< 10	< 0.26	< 0.5	< 0.2	< 0.2	< 0.2	< 0.5	< 0.5	< 0.10	< 0.10	< 0.10	< 0.39	< 0.065	< 0.065	< 0.065	0.24 J	< 0.065	< 6.5	< 6.5	< 0.33	< 0.13
tert-Butylbenzene	NE	NE	< 4	< 4	< 0.24	< 0.7	< 0.28	< 0.28	< 0.28	< 0.7	< 0.7	< 0.14	< 0.14	< 0.14	< 0.40	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	< 12	< 12	< 0.60	< 0.24
Tetrachloroethene	0.5	5	***1100***	***890***	***400***	***2000***	***1800***	***1700***	***1200***	***2000***	***2000***	< 0.17	***8.4***	***66***	***110***	***10***	***7.5***	***7.1***	***8.2***	***3600***	***4100***	***3500***	***190***	***68***
Toluene	160	800	< 10	< 10	0.30 J	< 0.55	< 0.22	< 0.22	< 0.22	< 0.55	< 0.55	< 0.11	< 0.11	< 0.11	< 0.15	< 0.053	< 0.053	< 0.053	< 0.053	0.10 J	11 J	16 BJ	< 0.27	< 0.11
trans-1,2-Dichloroethene	20	100	< 10	< 10	1.3	3.9 J	3.9	3.1	3.4	3.8 J	2.9 J	< 0.25	< 0.25	< 0.25	< 0.35	< 0.11	< 0.11	0.11 J	< 0.11	3.6	< 11	< 11	< 0.55	< 0.22
Trichloroethene	0.5	5	***100***	***97***	***48***	***190***	***180***	***180***	***170***	***160***	***110***	< 0.19	***2.5***	***31***	***6.4***	***0.64***	***3***	***3***	***0.7***	***150***	***180***	***120 B***	***9.1***	***3.7***
Vinyl chloride	0.02	0.2	< 4	< 4	< 0.13	< 0.5	< 0.2	< 0.2	< 0.2	< 0.5	< 0.5	< 0.10	< 0.10	< 0.10	< 0.20	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 16	< 16	< 0.80	< 0.32
Xylenes, Total	400	2000	< 10	< 10	< 0.3	< 0.34	< 0.14	< 0.14	< 0.14	< 0.34	< 0.34	< 0.068	< 0.068	< 0.068	< 0.22	< 0.058	< 0.058	< 0.058	< 0.058	< 0.058	< 5.8	< 12	< 0.58	< 0.23
Total PCBs																								
Aroclor-1016	0.003	0.03	NA	NA	NA	NA	< 0.17	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1232	0.003	0.03	NA	NA	NA	NA	< 0.094	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1242	0.003	0.03	NA	NA	NA	NA	< 0.13	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1248	0.003	0.03	NA	NA	NA	NA	< 0.11	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Detected PCBs	0.003	0.03	NA	NA	NA	NA	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dissolved PCBs																								
Aroclor-1016	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1232	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1242	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1248	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Detected PCBs	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Solids																								
Total Dissolved Solids	NE	NE	NA	NA	NA	980	930	960	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Suspended Solids (TSS)	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

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Table 18
Groundwater Analytical Results Summary
Madison-Kipp Corporation
Madison, Wisconsin

WELL ID			MW-5D2	MW-5D2	MW-5D2	MW-5D2	MW-5D2	MW-5D2	MW-5D2	MW-5D2	MW-5D2	MW-5D2	MW-5D2	MW-5D2[3]	MW-5D2	MW-5D2	MW-5D2	MW-5D2	MW-5D2	MW-5D2
SCREEN INTERVAL (feet bgs)	PREVENTIVE	ENFORCEMENT	165.8 - 170.8 ft	165.8 - 170.8 ft	165.8 - 170.8 ft	165.8 - 170.8 ft	165.8 - 170.8 ft	165.8 - 170.8 ft	165.8 - 170.8 ft	165.8 - 170.8 ft	165.8 - 170.8 ft	165.8 - 170.8 ft	165.8 - 170.8 ft	165.8 - 170.8 ft	165.8 - 170.8 ft	165.8 - 170.8 ft	165.8 - 170.8 ft	165.8 - 170.8 ft	165.8 - 170.8 ft	165.8 - 170.8 ft
SAMPLE DATE	ACTION LIMIT	STANDARD	11/30/2012	01/17/2013	02/13/2013	04/19/2013	07/18/2013	10/09/2013	04/15/2014	10/21/2014	04/15/2015	10/22/2015	01/21/2016	01/21/2016	04/21/2016	07/18/2016	10/12/2016	1/20/2017	04/12/2017	10/04/2017
VOCs																				
1,1,1,2-Tetrachloroethane	7	70	NA	< 0.25	< 0.25	< 0.25	< 0.5	< 0.25	< 0.50	< 0.25	< 0.50	< 0.92	< 1.1	< 1.1	< 4.4	< 1.1	< 2.2	< 2.2	< 2.2	< 2.2
1,1,1-Trichloroethane	40	200	NA	< 0.2	< 0.2	< 0.2	< 0.4	< 0.2	< 0.40	< 0.20	< 0.40	< 0.76	< 1.0	< 1.0	< 4.0	< 1.0	< 2.0	< 2.0	< 2.0	< 2
1,1,2-Trichloroethane	0.5	5	NA	< 0.28	< 0.28	< 0.28	< 0.56	< 0.28	< 0.56	< 0.28	< 0.56	< 0.70	< 1.0	< 1.0	< 4.0	< 1.0	< 2.0	< 2.0	< 2.0	< 2
1,1-Dichloroethene	0.7	7	NA	< 0.31	< 0.31	< 0.31	< 0.62	< 0.31	< 0.62	< 0.31	< 0.62	< 0.78	< 1.4	< 1.4	< 5.6	< 1.4	< 2.8	< 2.8	< 2.8	< 2.8
1,2,4-Trimethylbenzene	96	480	NA	< 0.14	< 0.14	< 0.14	< 0.28	< 0.14	< 0.28	< 0.14	< 0.28	< 0.72	< 0.60	< 0.60	< 2.4	< 0.60	< 1.2	< 1.2	< 1.2	< 1.2
1,2-Dibromoethane	0.005	0.05	NA	< 0.36	< 0.36	< 0.36	< 0.72	< 0.36	< 0.72	< 0.36	< 0.72	< 0.77	< 1.3	< 1.3	< 5.2	< 1.3	< 2.6	< 2.6	< 2.6	< 2.6
1,2-Dichlorobenzene	60	600	NA	< 0.27	< 0.27	< 0.27	< 0.54	< 0.27	< 0.54	< 0.27	< 0.54	< 0.67	< 0.76	< 0.76	< 3.0	< 0.76	< 1.5	< 1.5	< 1.5	< 1.5
1,2-Dichloropropane	0.5	5	NA	< 0.2	< 0.2	< 0.2	< 0.4	< 0.2	< 0.40	< 0.20	< 0.40	< 0.86	< 1.0	< 1.0	< 4.0	< 1.0	< 2.0	< 2.0	< 2.0	< 2
1,2,3-Trichlorobenzene	NE	NE	NA	< 0.24	< 0.24	< 0.24	< 0.48	< 0.24	< 0.48	< 0.24	< 0.48	< 0.92	< 0.45	< 0.45	7.2 BJ	< 0.45	< 0.90	< 0.90	< 0.90	< 0.9
1,2,4-Trichlorobenzene	14	70	NA	< 0.31	< 0.31	< 0.31	< 0.62	< 0.31	< 0.62	< 0.31	< 0.62	< 0.68	< 0.77	< 0.77	5.2 J	< 0.77	< 1.5	< 1.5	< 1.5	< 1.5
1,3,5-Trimethylbenzene	96	480	NA	< 0.18	< 0.18	< 0.18	< 0.36	< 0.18	< 0.36	< 0.18	< 0.36	< 0.51	< 0.75	< 0.75	< 3.0	< 0.75	< 1.5	< 1.5	< 1.5	< 1.5
2-Butanone	800	4000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 30	< 30	< 120	< 30	< 60	< 60	< 60	< 60
2-Hexanone	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 9.5	< 9.5	< 38	< 9.5	< 19	< 19	< 19	< 19
4-Methyl-2-pentanone	50	500	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 7.7	< 7.7	< 31	< 7.7	< 15	< 15	< 15	< 15
Acetone	1800	9000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 34	< 34	< 140	< 34	< 68	< 68	< 68	< 68
Benzene	0.5	5	NA	< 0.074	< 0.074	< 0.074	< 0.15	< 0.074	< 0.15	< 0.074	< 0.15	< 0.29	< 0.89	< 0.89	< 3.6	< 0.89	< 1.8	< 1.8	< 1.8	< 1.8
Bromodichloromethane	0.06	0.6	NA	< 0.17	< 0.17	< 0.17	< 0.34	< 0.17	< 0.34	< 0.17	< 0.34	< 0.74	< 0.77	< 0.77	< 3.1	< 0.77	< 1.5	< 1.5	< 1.5	< 1.5
Bromoform	0.44	4.4	NA	< 0.28	< 0.28	< 0.28	< 0.56	< 0.28	< 0.56	< 0.28	< 0.56	< 0.97	< 0.88	< 0.88	< 3.5	< 0.88	< 1.8	< 1.8	< 1.8	< 1.8
Bromomethane	1	10	NA	< 0.31	< 0.31 *	< 0.31	< 0.62	< 0.31	< 0.62	< 0.31	< 0.62	< 1.6	< 5.9	< 5.9	< 24	< 5.9	< 12	< 12	< 12	< 12
Carbon disulfide	200	1000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.53	< 0.53	< 2.1	< 0.53	< 1.1	< 1.1	< 1.1	< 1.1
Carbon tetrachloride	0.5	5	NA	< 0.26	< 0.26	< 0.26	< 0.52	< 0.26	< 0.52	< 0.26	< 0.52	< 0.77	< 0.38	< 0.38	< 1.5	< 0.38	< 0.76	< 0.76	< 0.76	< 0.76
Chloroform	0.6	6	NA	< 0.2	< 0.2	< 0.2	< 0.4	< 0.2	< 0.40	< 0.20	< 0.40	< 0.74	< 0.62	< 0.62	< 2.5	< 0.62	< 1.2	< 1.2	***2.2 J***	< 1.2
Chloromethane	3	30	NA	< 0.18	< 0.18	< 0.18	< 0.36	< 0.18	< 0.36	< 0.18	< 0.36	< 0.64	< 1.6	< 1.6	< 6.4	< 1.6	***11 BJ***	***5.8 BJ***	< 3.2	***4.2 J+***
cis-1,2-Dichloroethene	7	70	NA	6.6	***9.2***	4.7	3.6	1.5	< 0.24	0.79 J	2.1	2.9	1.4 J	1.6 J	< 4.4	6.1	< 2.2	< 2.2	2.2 J	4.8 J
Dichlorodifluoromethane	200	1000	NA	< 0.2	< 0.2	< 0.2	< 0.4	< 0.2	< 0.40	< 0.20	< 0.40	< 1.1	< 1.1	< 1.1	< 4.4	< 1.1	< 2.2	< 2.2	< 2.2	< 2.2
Ethylbenzene	140	700	NA	< 0.13	< 0.13	< 0.13	< 0.26	< 0.13	< 0.26	< 0.13	< 0.26	< 0.37	< 0.54	< 0.54	< 2.2	< 0.54	< 1.1	< 1.1	< 1.1	< 1.1
Isopropylbenzene	NE	NE	NA	< 0.14	< 0.14	< 0.14	< 0.28	< 0.14	< 0.28	< 0.14	< 0.28	< 0.77	< 0.81	< 0.81	< 3.2	< 0.81	< 1.6	< 1.6	< 1.6	< 1.6
m,p-Xylene	400	2000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.57	< 0.57	< 2.3	< 0.57	< 1.1	1.6 BJ	< 1.1	1.2 BJ
Methyl tert-butyl ether	12	60	NA	< 0.24	< 0.24	< 0.24	< 0.48	< 0.24	< 0.48	< 0.24	< 0.48	< 0.79	< 1.4	< 1.4	< 5.6	< 1.4	< 2.8	< 2.8	< 2.8	< 2.8
Methylene chloride	0.5	5	NA	< 0.68	< 0.68	< 0.68	< 1.4	***5.7***	< 1.4	< 0.68	< 1.4	< 3.3	< 1.4	< 1.4	< 5.6	< 1.4	< 2.8	***3.4 BJ***	< 2.8	< 2.8
Naphthalene	10	100	NA	< 0.16	< 0.16	< 0.16	< 0.32	< 0.16	< 0.32	< 0.16	< 0.32	< 0.67	< 0.88	< 0.88	***12 BJ***	< 0.88	< 1.8	< 1.8	< 1.8	< 1.8
n-Butylbenzene	NE	NE	NA	< 0.13	< 0.13	< 0.13	< 0.26	< 0.13	< 0.26	< 0.13	< 0.26	< 0.78	< 1.4	< 1.4	< 5.6	< 1.4	< 2.8	< 2.8	< 2.8	< 2.8
n-Hexane	120	600	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 2.1	< 2.1	< 8.4	< 2.1	< 4.2	< 4.2	< 4.2	< 4.2
n-Propylbenzene	NE	NE	NA	< 0.13	< 0.13	< 0.13	< 0.26	< 0.13	< 0.26	< 0.13	< 0.26	< 0.83	< 1.0	< 1.0	< 4.0	< 1.0	< 2.0	< 2.0	< 2.0	< 2
o-Xylene	400	2000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.58	< 0.58	< 2.3	< 0.58	< 1.2	1.4 BJ	< 1.2	< 1.2
p-Isopropyltoluene	NE	NE	NA	< 0.17	< 0.17	< 0.17	< 0.34	< 0.17	< 0.34	< 0.17	< 0.34	< 0.72	< 0.85	< 0.85	< 3.4	< 0.85	< 1.7	< 1.7	< 1.7	< 1.7
sec-Butylbenzene	NE	NE	NA	< 0.15	< 0.15	< 0.15	< 0.3	< 0.15	< 0.30	< 0.15	< 0.30	< 0.80	< 1.3	< 1.3	< 5.2	< 1.3	< 2.6	< 2.6	< 2.6	< 2.6
Styrene	10	100	NA	< 0.1	< 0.1	< 0.1	< 0.2	< 0.1	< 0.20	< 0.10	< 0.20	< 0.77	< 0.65	< 0.65	< 2.6	< 0.65	< 1.3	< 1.3	< 1.3	1.4 BJ
tert-Butylbenzene	NE	NE	NA	< 0.14	< 0.14	< 0.14	< 0.28	< 0.14	< 0.28	< 0.14	< 0.28	< 0.80	< 1.2	< 1.2	< 4.8	< 1.2	< 2.4	< 2.4	< 2.4	< 2.4
Tetrachloroethene	0.5	5	NA	***650***	***650***	***640***	***710***	***110***	***520***	***47***	***700***	***640***	***380***	***380***	***160***	***970***	***550***	***570***	***670***	***940***
Toluene	160	800	NA	0.70	0.22 J	0.35 J	2.4	0.43 J	< 0.22	< 0.11	< 0.22	< 0.30	< 0.53	< 0.53	< 2.1	< 0.53	< 1.1	3.2 BJ	< 1.1	1.2 BJ
trans-1,2-Dichloroethene	20	100	NA	< 0.25	< 0.25	< 0.25	< 0.5	< 0.25	< 0.50	< 0.25	< 0.50	< 0.70	< 1.1	< 1.1	< 4.4	< 1.1	< 2.2	< 2.2	< 2.2	< 2.2
Trichloroethene	0.5	5	NA	***9.5***	***8.4***	***7.4***	***8.1***	***6.1***	***7.1***	***2.2***	***8.2***	***9.1***	***4.7 J***	***5.5***	< 2.5	***13***	***8.4 J***	***6.6 BJ***	***7.8 J***	***12***
Vinyl chloride	0.02	0.2	NA	< 0.1	< 0.1	< 0.1	< 0.2	< 0.1	< 0.20	< 0.10	< 0.20	< 0.41	< 1.6	< 1.6	< 6.4	< 1.6	< 3.2	< 3.2	< 3.2	< 3.2
Xylenes, Total	400	2000	NA	< 0.068	< 0.068	< 0.068	< 0.14	< 0.068	< 0.14	< 0.068	< 0.14	< 0.44	< 0.58	< 0.58	< 2.3	< 0.58	< 1.2	3.0 BJ	< 2.3	< 2.3
Total PCBs																				
Aroclor-1016	0.003	0.03	NA	< 0.19	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1232	0.003	0.03	NA	< 0.1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1242	0.003	0.03	NA	< 0.14	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1248	0.003	0.03	NA	< 0.12	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Detected PCBs	0.003	0.03	NA	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dissolved PCBs																				
Aroclor-1016	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1232	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1242	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1248	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Detected PCBs	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Solids																				
Total Dissolved Solids	NE	NE	720	590	610	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Suspended Solids (TSS)	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Notes on Page 55.

Table 18
Groundwater Analytical Results Summary
Madison-Kipp Corporation
Madison, Wisconsin

WELL ID			MW-5D3	MW-5D3	MW-5D3	MW-5D3	MW-5D3	MW-5D3	MW-5D3	MW-5D3	MW-5D3	MW-5D3	MW-5D3	MW-5D3	MW-5D3	MW-5D3	MW-5D3	MW-5D3
SCREEN INTERVAL (feet bgs)	PREVENTIVE	ENFORCEMENT	225 - 235 ft	225 - 235 ft	225 - 235 ft	225 - 235 ft	225 - 235 ft	225 - 235 ft	225 - 235 ft	225 - 235 ft	225 - 235 ft	225 - 235 ft	225 - 235 ft	225 - 235 ft	225 - 235 ft	225 - 235 ft	225 - 235 ft	225 - 235 ft
SAMPLE DATE	ACTION LIMIT	STANDARD	11/28/2012	01/18/2013	02/13/2013	04/21/2013	07/17/2013	10/07/2013	04/16/2014	10/20/2014	04/13/2015	10/21/2015	01/21/2016	04/21/2016	07/20/2016	10/12/2016	1/19/2017	04/12/2017	10/04/2017
VOCs																			
1,1,1,2-Tetrachloroethane	7	70	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.46	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11
1,1,1-Trichloroethane	40	200	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.20	< 0.20	< 0.20	< 0.38	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.1
1,1,2-Trichloroethane	0.5	5	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.35	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.1
1,1-Dichloroethene	0.7	7	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.39	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14
1,2,4-Trimethylbenzene	96	480	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.36	< 0.060	< 0.060	< 0.060	< 0.060	< 0.060	< 0.060	< 0.06
1,2-Dibromoethane	0.005	0.05	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36	< 0.39	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13
1,2-Dichlorobenzene	60	600	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.33	< 0.076	< 0.076	< 0.076	< 0.076	< 0.076	< 0.076	< 0.076
1,2-Dichloropropane	0.5	5	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.20	< 0.20	< 0.20	< 0.43	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.1
1,2,3-Trichlorobenzene	NE	NE	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.46	0.18 J	< 0.045	< 0.045	< 0.045	< 0.045	< 0.045	< 0.045
1,2,4-Trichlorobenzene	14	70	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.34	0.13 J	< 0.077	< 0.077	< 0.077	< 0.077	< 0.077	< 0.077
1,3,5-Trimethylbenzene	96	480	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.25	< 0.075	< 0.075	< 0.075	< 0.075	< 0.075	< 0.075	< 0.075
2-Butanone	800	4000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 3.0	< 3.0	< 3.0	< 3.0	< 3.0	< 3.0	< 3
2-Hexanone	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.95	< 0.95	< 0.95	< 0.95	< 0.95	< 0.95	< 0.95
4-Methyl-2-pentanone	50	500	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.77	< 0.77	< 0.77	< 0.77	< 0.77	< 0.77	< 0.77
Acetone	1800	9000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 3.4	< 3.4	< 3.4	< 3.4	9.6 J+	15 BJ	< 3.4
Benzene	0.5	5	< 0.074	0.28 J	< 0.074	< 0.074	< 0.074	< 0.074	< 0.074	< 0.074	< 0.074	< 0.15	< 0.089	< 0.089	< 0.089	0.19 J	0.15 BJ	< 0.089	< 0.089
Bromodichloromethane	0.06	0.6	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.37	< 0.077	< 0.077	< 0.077	< 0.077	< 0.077	< 0.077	< 0.077
Bromoform	0.44	4.4	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.48	< 0.088	< 0.088	< 0.088	< 0.088	< 0.088	< 0.088	< 0.088
Bromomethane	1	10	< 0.31	< 0.31	< 0.31 *	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31 *	< 0.31	< 0.80	< 0.59	< 0.59	< 0.59	< 0.59	< 0.59	< 0.59	< 0.59
Carbon disulfide	200	1000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.053	< 0.053	0.10 J	< 0.053	< 0.053	< 0.053	< 0.053
Carbon tetrachloride	0.5	5	< 0.26	< 0.26	< 0.26	< 0.26	< 0.26	< 0.26	< 0.26	< 0.26	< 0.26	< 0.38	< 0.038	< 0.038	< 0.038	< 0.038	< 0.038	< 0.038	< 0.038
Chloroform	0.6	6	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.20	< 0.20	< 0.20	< 0.37	< 0.062	< 0.062	< 0.062	< 0.062	< 0.062	< 0.062	< 0.062
Chloromethane	3	30	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.32	< 0.16	< 0.16	< 0.16	0.67 BJ	0.37 BJ	< 0.16	0.22 J+
cis-1,2-Dichloroethene	7	70	3.1	***12***	***12***	1.6	2.1	4.5	< 0.12	< 0.12	< 0.12	< 0.41	0.19 J	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11
Dichlorodifluoromethane	200	1000	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.20	< 0.20	< 0.20	< 0.54	< 0.11	< 0.11	0.11 J	< 0.11	< 0.11	< 0.11	< 0.11
Ethylbenzene	140	700	< 0.13	< 0.13	< 0.13	< 0.13	0.32 J	< 0.13	< 0.13	< 0.13	< 0.13	< 0.18	< 0.054	< 0.054	0.18 J	< 0.054	< 0.054	< 0.054	< 0.054
Isopropylbenzene	NE	NE	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.39	< 0.081	< 0.081	< 0.081	< 0.081	< 0.081	< 0.081	< 0.081
m,p-Xylene	400	2000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.057	< 0.057	0.49 J	< 0.057	< 0.057	< 0.057	0.06 BJ
Methyl tert-butyl ether	12	60	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.39	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14
Methylene chloride	0.5	5	< 0.68	< 0.68	< 0.68	< 0.68	< 0.68	< 0.68	< 0.68	< 0.68	< 0.68	< 1.6	0.16 J	< 0.14	< 0.14	< 0.14	0.17 BJ	< 0.14	< 0.14
Naphthalene	10	100	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.34	< 0.088	< 0.088	< 0.088	< 0.088	< 0.088	0.36 BJ	< 0.088
n-Butylbenzene	NE	NE	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.39	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14
n-Hexane	120	600	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21
n-Propylbenzene	NE	NE	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.41	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.1
o-Xylene	400	2000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.058	< 0.058	0.24 J	< 0.058	< 0.058	< 0.058	< 0.058
p-Isopropyltoluene	NE	NE	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.36	< 0.085	< 0.085	< 0.085	< 0.085	< 0.085	< 0.085	< 0.085
sec-Butylbenzene	NE	NE	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.40	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13
Styrene	10	100	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.10	< 0.10	< 0.10	< 0.39	< 0.065	< 0.065	< 0.065	< 0.065	< 0.065	< 0.065	< 0.065
tert-Butylbenzene	NE	NE	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.40	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12
Tetrachloroethene	0.5	5	***19***	***0.59 J***	***0.83 J***	***1.8***	***0.78 J***	***1.5***	< 0.17	< 0.17	< 0.17	< 0.37	0.14 J	< 0.081	0.10 J	0.22 J	< 0.081	0.25 BJ	< 0.081
Toluene	160	800	< 0.11	< 0.11	< 0.11	0.29 J	0.53	0.20 J	< 0.11	< 0.11	< 0.11	< 0.15	0.080 J	< 0.053	< 0.053	0.15 J	0.17 BJ	< 0.053	0.08 BJ
trans-1,2-Dichloroethene	20	100	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.35	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11
Trichloroethene	0.5	5	***2.6***	< 0.19	< 0.19	< 0.19	< 0.19	0.29 J	< 0.19	< 0.19	< 0.19	< 0.16	< 0.062	< 0.062	< 0.062	< 0.062	0.16 BJ	0.18 J	< 0.062
Vinyl chloride	0.02	0.2	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.10	< 0.10	< 0.10	< 0.20	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16
Xylenes, Total	400	2000	< 0.068	< 0.068	< 0.068	< 0.068	0.68 J	< 0.068	< 0.068	< 0.068	< 0.068	0.25 J	< 0.058	< 0.058	0.73	< 0.058	< 0.12	< 0.12	< 0.12
Total PCBs																			
Aroclor-1016	0.003	0.03	NA	< 0.16	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1232	0.003	0.03	NA	< 0.09	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1242	0.003	0.03	NA	< 0.13	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1248	0.003	0.03	NA	< 0.11	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Detected PCBs	0.003	0.03	NA	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dissolved PCBs																			
Aroclor-1016	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1232	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1242	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1248	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Detected PCBs	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Solids																			
Total Dissolved Solids	NE	NE	360	290	300	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Suspended Solids (TSS)	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

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Table 18
Groundwater Analytical Results Summary
Madison-Kipp Corporation
Madison, Wisconsin

WELL ID			MW-6S	MW-6S	MW-6S	MW-6S	MW-6S	MW-6S	MW-6S	MW-6S	MW-6S	MW-6S	MW-6S	MW-6S	MW-6S	MW-6S	MW-6S	MW-6S	MW-6S[3]
SCREEN INTERVAL (feet bgs)	PREVENTIVE	ENFORCEMENT	31.4 - 41.4 ft	31.4 - 41.4 ft	31.4 - 41.4 ft	31.4 - 41.4 ft	31.4 - 41.4 ft	31.4 - 41.4 ft	31.4 - 41.4 ft	31.4 - 41.4 ft	31.4 - 41.4 ft	31.4 - 41.4 ft	31.4 - 41.4 ft	31.4 - 41.4 ft	31.4 - 41.4 ft	31.4 - 41.4 ft	31.4 - 41.4 ft	31.4 - 41.4 ft	31.4 - 41.4 ft
SAMPLE DATE	ACTION LIMIT	STANDARD	12/31/2009	04/07/2010	07/01/2010	10/01/2010	12/28/2010	04/11/2012	01/17/2013	04/20/2013	07/18/2013	10/07/2013	04/17/2014	10/16/2014	04/14/2015	10/22/2015	10/12/2016	10/09/2017	10/09/2017
VOCs																			
1,1,1,2-Tetrachloroethane	7	70	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.31	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.46	< 0.11	< 0.11	< 0.11
1,1,1-Trichloroethane	40	200	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.26	< 0.2	< 0.2	< 0.2	< 0.2	< 0.20	< 0.20	< 0.20	< 0.38	< 0.10	< 0.1	< 0.1
1,1,2-Trichloroethane	0.5	5	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.3	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.35	< 0.10	< 0.1	< 0.1
1,1-Dichloroethene	0.7	7	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.29	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.39	< 0.14	< 0.14	< 0.14
1,2,4-Trimethylbenzene	96	480	4.3	3.3	1.3	2.2	3.2	4.8	12	0.92 J	< 0.14	1.4	2.0	0.96 J	1.4	1.3	0.83	0.37 J	0.3 J
1,2-Dibromoethane	0.005	0.05	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.45	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36	< 0.39	< 0.13	< 0.13	< 0.13
1,2-Dichlorobenzene	60	600	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.21	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.33	< 0.076	< 0.076	< 0.076
1,2-Dichloropropane	0.5	5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.36	< 0.2	< 0.2	< 0.2	< 0.2	< 0.20	< 0.20	< 0.20	< 0.43	< 0.10	< 0.1	< 0.1
1,2,3-Trichlorobenzene	NE	NE	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.36	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.46	< 0.045	0.07 BJ	< 0.045
1,2,4-Trichlorobenzene	14	70	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.22	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.34	< 0.077	< 0.077	< 0.077
1,3,5-Trimethylbenzene	96	480	0.92	7.3	0.27	4.6	0.39	1.5	3.4	< 0.18	< 0.18	< 0.18	0.73 J	< 0.18	1.1	1.7	0.45 J	0.17 J	0.15 J
2-Butanone	800	4000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 3.0	< 3	< 3
2-Hexanone	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.95	< 0.95	< 0.95
4-Methyl-2-pentanone	50	500	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.77	< 0.77	< 0.77
Acetone	1800	9000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 3.4	< 3.4	< 3.4
Benzene	0.5	5	***7.6***	***7.9***	***5***	***5.3***	***5***	***4.1***	***9.3***	***1.9***	0.34 J	***2.6***	***2.8***	***2.1***	***3.3***	***3.8***	***2.9***	***0.71***	***0.65***
Bromodichloromethane	0.06	0.6	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.23	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	***1.2***	< 0.077	< 0.077	< 0.077
Bromoform	0.44	4.4	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.45	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.48	< 0.088	< 0.088	< 0.088
Bromomethane	1	10	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.49	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.80	< 0.59	< 0.59	< 0.59
Carbon disulfide	200	1000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.053	< 0.053	< 0.053
Carbon tetrachloride	0.5	5	< 0.8	< 0.8	< 0.8	< 0.8	< 0.8	< 0.28	< 0.26	< 0.26	< 0.26	< 0.26	< 0.26	< 0.26	< 0.26	< 0.38	< 0.038	< 0.038	< 0.038
Chloroform	0.6	6	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.25	< 0.2	< 0.2	< 0.2	< 0.2	< 0.20	< 0.20	< 0.20	< 0.37	< 0.062	< 0.062	< 0.062
Chloromethane	3	30	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.24	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.32	0.62 BJ	2.2	***3.6***
cis-1,2-Dichloroethene	7	70	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.22	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	< 0.41	< 0.11	< 0.11	< 0.11
Dichlorodifluoromethane	200	1000	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.26	< 0.2	< 0.2	< 0.2	< 0.2	< 0.20	< 0.20	< 0.20	< 0.54	< 0.11	< 0.11	< 0.11
Ethylbenzene	140	700	23	14	6.0	13	15	9.8	40	0.18 J	< 0.13	8.0	7.5	3.5	6.4	7.1	2.0	0.79	0.75
Isopropylbenzene	NE	NE	12	9.4	5.3	7.5	6.4	4.1	12	< 0.14	< 0.14	3.2	2.6	2.1	2.9	3.7	1.4	0.53	0.52
m,p-Xylene	400	2000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.78 J	0.37 J	0.35 J
Methyl tert-butyl ether	12	60	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.28	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.39	< 0.14	< 0.14	< 0.14
Methylene chloride	0.5	5	< 1	< 1	< 1	< 1	< 1	***8.3***	< 0.68	< 0.68	< 0.68	< 0.68	< 0.68	< 0.68	< 0.68	***9.4 cn***	< 0.14	< 0.14	< 0.14
Naphthalene	10	100	***26***	***14***	6.4	***10***	***16***	***19***	***43***	< 0.16	< 0.16	3.8	4.2	1.9	6.6	9.8	2.0 J	0.69 BJ	0.29 BJ
n-Butylbenzene	NE	NE	1.6	1.6	0.92	1.2	0.86	< 0.21	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.39	< 0.14	< 0.14	< 0.14
n-Hexane	120	600	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.21	< 0.21	< 0.21
n-Propylbenzene	NE	NE	4.9	3.7	1.9	3.3	3.0	1.8	6.8	< 0.13	< 0.13	1.3	1.5	< 0.13	1.2	1.5	0.46 J	0.19 J	< 0.1
o-Xylene	400	2000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.17 J	0.11 J	0.1 J
p-Isopropyltoluene	NE	NE	1.7	1.6	0.72	1.1	0.83	< 0.24	2.4	< 0.17	< 0.17	< 0.17	0.56 J	< 0.17	< 0.17	0.95 J	0.35 J	0.16 J	0.14 J
sec-Butylbenzene	NE	NE	1.9	1.8	1.5	1.5	1.0	0.56 J	1.8	< 0.15	< 0.15	< 0.15	0.82 J	< 0.15	< 0.15	0.86 J	0.38 J	0.13 J	< 0.13
Styrene	10	100	0.53	0.51	< 0.5	< 0.5	1.1	< 0.26	0.64 J	< 0.1	< 0.1	< 0.1	< 0.10	< 0.10	< 0.10	< 0.39	< 0.065	0.1 BJ	0.07 J
tert-Butylbenzene	NE	NE	0.27	0.31	0.22	0.24	< 0.2	< 0.24	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.40	< 0.12	< 0.12	< 0.12
Tetrachloroethene	0.5	5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.22	< 0.17	***0.53 J***	< 0.17	< 0.17	***0.66 J***	< 0.17	< 0.17	< 0.37	***0.6***	< 0.081	< 0.081
Toluene	160	800	3.3	3.3	1.2	1.8	2.0	2.5	6.3	0.82	< 0.11	1.1	1.1	< 0.11	1.9	2.4	0.75	0.32 BJ	0.32 J
trans-1,2-Dichloroethene	20	100	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.27	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.35	< 0.11	< 0.11	< 0.11
Trichloroethene	0.5	5	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.18	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.16	< 0.062	< 0.062	< 0.062
Vinyl chloride	0.02	0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.13	< 0.1	< 0.1	< 0.1	< 0.1	< 0.10	< 0.10	< 0.10	< 0.20	< 0.16	< 0.16	< 0.16
Xylenes, Total	400	2000	9.6	8.2	2.6	4.5	6.4	7.8	25	1.8	< 0.068	3.3	2.8	1.9	3.3	3.7	0.95	0.48 J	0.45 J
Total PCBs																			
Aroclor-1016	0.003	0.03	NA	NA	NA	NA	NA	NA	< 0.17	NA	NA	NA	NA	NA	NA	NA	NA	< 0.035	< 0.035
Aroclor-1232	0.003	0.03	NA	NA	NA	NA	NA	NA	< 0.094	NA	NA	NA	NA	NA	NA	NA	NA	< 0.037	< 0.037
Aroclor-1242	0.003	0.03	NA	NA	NA	NA	NA	NA	< 0.13	NA	NA	NA	NA	NA	NA	NA	NA	< 0.038	< 0.038
Aroclor-1248	0.003	0.03	NA	NA	NA	NA	NA	NA	< 0.11	NA	NA	NA	NA	NA	NA	NA	NA	< 0.02	< 0.02
Total Detected PCBs	0.003	0.03	NA	NA	NA	NA	NA	NA	ND	NA	NA	NA	NA	NA	NA	NA	NA	ND	ND
Dissolved PCBs																			
Aroclor-1016	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1232	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1242	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1248	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Detected PCBs	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Solids																			
Total Dissolved Solids	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	3970	3910
Total Suspended Solids (TSS)	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1.2 J	1.2 J

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Table 18
Groundwater Analytical Results Summary
Madison-Kipp Corporation
Madison, Wisconsin

WELL ID			MW-6D	MW-6D	MW-6D	MW-6D	MW-6D	MW-6D	MW-6D	MW-6D	MW-6D[3]	MW-6D	MW-6D[3]	MW-6D	MW-6D	MW-6D[3]	MW-6D
SCREEN INTERVAL (feet bgs)	PREVENTIVE	ENFORCEMENT	65.5 - 70.5 ft	65.5 - 70.5 ft	65.5 - 70.5 ft	65.5 - 70.5 ft	65.5 - 70.5 ft	65.5 - 70.5 ft	65.5 - 70.5 ft	65.5 - 70.5 ft	65.5 - 70.5 ft	65.5 - 70.5 ft	65.5 - 70.5 ft	65.5 - 70.5 ft	65.5 - 70.5 ft	65.5 - 70.5 ft	65.5 - 70.5 ft
SAMPLE DATE	ACTION LIMIT	STANDARD	12/31/2009	04/07/2010	07/01/2010	10/01/2010	12/28/2010	03/31/2011	04/12/2012	01/16/2013	01/16/2013	04/20/2013	04/20/2013	07/18/2013	07/18/2013	10/07/2013	10/07/2013	04/17/2014
VOCs																		
1,1,1,2-Tetrachloroethane	7	70	< 13	< 20	< 13	< 0.25	< 2.5	< 10	< 0.62	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.25	< 0.25	< 0.50
1,1,1-Trichloroethane	40	200	< 25	< 40	< 25	< 0.5	< 5	< 20	< 0.52	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.2	< 0.2	< 0.40
1,1,2-Trichloroethane	0.5	5	< 13	< 20	< 13	< 0.25	< 2.5	< 10	< 0.6	< 0.56	< 0.56	< 0.56	< 0.56	< 0.56	< 0.56	< 0.28	< 0.28	< 0.56
1,1-Dichloroethene	0.7	7	< 25	< 40	< 25	< 0.5	< 5	< 20	< 0.58	< 0.62	< 0.62	< 0.62	< 0.62	< 0.62	< 0.62	< 0.31	< 0.31	< 0.62
1,2,4-Trimethylbenzene	96	480	***330***	***130***	***130***	***160***	***180***	74	19	23	25	11	6.1	16	17	41	38	9.7
1,2-Dibromoethane	0.005	0.05	***15***	< 16	< 10	***11***	***9.7***	< 8	< 0.9	< 0.72	< 0.72	< 0.72	< 0.72	< 0.72	< 0.72	< 0.36	< 0.36	< 0.72
1,2-Dichlorobenzene	60	600	< 10	< 16	< 10	< 0.2	< 2	< 8	< 0.42	< 0.54	< 0.54	< 0.54	< 0.54	< 0.54	< 0.54	< 0.27	< 0.27	< 0.54
1,2-Dichloropropane	0.5	5	< 25	< 40	< 25	***7.2***	***6***	< 20	< 0.72	< 0.4	< 0.4	***1.9 J***	***1.7 J***	< 0.4	< 0.4	< 0.2	< 0.2	< 0.40
1,2,3-Trichlorobenzene	NE	NE	< 13	< 20	< 13	< 0.25	< 2.5	< 10	< 0.72	< 0.48	< 0.48	< 0.48	< 0.48	< 0.48	< 0.48	< 0.24	< 0.24	< 0.48
1,2,4-Trichlorobenzene	14	70	< 13	< 20	< 13	< 0.25	< 2.5	< 10	< 0.44	< 0.62	< 0.62	< 0.62	< 0.62	< 0.62	< 0.62	< 0.31	< 0.31	< 0.62
1,3,5-Trimethylbenzene	96	480	23	< 16	< 10	13	13	< 8	< 0.46	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36	0.71 J	< 0.18	< 0.36
2-Butanone	800	4000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Hexanone	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Methyl-2-pentanone	50	500	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Acetone	1800	9000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzene	0.5	5	***3900***	***3200***	***2900***	< 0.2	***2900***	***2100***	***1500***	***1300***	***1400***	***600***	***500***	***810***	***800***	***1000***	***840***	***650***
Bromodichloromethane	0.06	0.6	< 10	< 16	< 10	< 0.2	< 2	< 8	< 0.46	< 0.34	< 0.34	< 0.34	< 0.34	< 0.34	< 0.34	< 0.17	< 0.17	< 0.34
Bromoform	0.44	4.4	< 10	< 16	< 10	< 0.2	< 2	< 8	< 0.9	< 0.56	< 0.56	< 0.56	< 0.56	< 0.56	< 0.56	< 0.28	< 0.28	< 0.56
Bromomethane	1	10	< 25	< 40	< 25	< 0.5	< 5	< 20	< 0.98	< 0.62	< 0.62	< 0.62	< 0.62	< 0.62	< 0.62	< 0.31	< 0.31	< 0.62
Carbon disulfide	200	1000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon tetrachloride	0.5	5	< 40	< 64	< 40	< 0.8	< 8	< 32	< 0.56	< 0.52	< 0.52	< 0.52	< 0.52	< 0.52	< 0.52	< 0.26	< 0.26	< 0.52
Chloroform	0.6	6	< 10	< 16	< 10	< 0.2	< 2	< 8	***3.6***	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.2	< 0.2	< 0.40
Chloromethane	3	30	< 15	< 24	< 15	< 0.3	< 3	< 12	< 0.48	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36	< 0.18	< 0.18	< 0.36
cis-1,2-Dichloroethene	7	70	< 25	< 40	< 25	1.4	< 5	< 20	< 0.44	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	0.89 J	< 0.12	2.8
Dichlorodifluoromethane	200	1000	< 25	< 40	< 25	< 0.5	< 5	< 20	< 0.52	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.2	< 0.2	< 0.40
Ethylbenzene	140	700	47	< 40	26	39	35	< 20	8.7	7.5	7.9	3.5	2.8	7.1	7.9	8.1	7.5	6.7
Isopropylbenzene	NE	NE	54	43	32	45	40	35	23	30	32	16	12	27	30	29	27	22
m,p-Xylene	400	2000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methyl tert-butyl ether	12	60	< 25	< 40	< 25	< 0.5	< 5	< 20	< 0.56	< 0.48	< 0.48	< 0.48	< 0.48	< 0.48	< 0.48	< 0.24	< 0.24	< 0.48
Methylene chloride	0.5	5	< 50	< 80	< 50	< 1	< 10	< 40	< 1.3	< 1.4	< 1.4	< 1.4	< 1.4	< 1.4	< 1.4	< 0.68	< 0.68	< 1.4
Naphthalene	10	100	***380***	***280***	***370***	***370***	***360***	***190***	***110***	***54***	***58***	3.9	2.8	***50***	***64***	***72***	***71***	***12***
n-Butylbenzene	NE	NE	12	< 16	< 10	10	7.9	< 8	< 0.42	< 0.26	< 0.26	< 0.26	< 0.26	5.0	6.3	< 0.13	4.3	< 0.26
n-Hexane	120	600	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
n-Propylbenzene	NE	NE	49	< 40	27	36	31	21	11	13	14	5.4	3.6	12	13	14	13	9.2
o-Xylene	400	2000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
p-Isopropyltoluene	NE	NE	< 10	< 16	< 10	6.5	5.1	< 8	2.6	3.8	3.9	1.7 J	1.2 J	3.2	3.6	3.4	< 0.17	2.7
sec-Butylbenzene	NE	NE	< 13	< 20	< 13	4.7	4.2	< 10	2.2	3.4	3.8	2.0	1.3 J	3.2	3.6	3.2	3.0	3.0
Styrene	10	100	< 25	< 40	< 25	3.5	***12***	< 20	< 0.52	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	1.0	< 0.1	< 0.20
tert-Butylbenzene	NE	NE	< 10	< 16	< 10	< 0.2	< 2	< 8	< 0.48	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.14	< 0.14	< 0.28
Tetrachloroethene	0.5	5	***36***	***45***	***27***	***30***	***26***	***28***	***20***	***25***	***26***	***22***	***17***	***23***	***25***	***17***	***16***	***10***
Toluene	160	800	130	100	88	120	120	58	36	30	31	9.4	7.8	24	27	38	35	25
trans-1,2-Dichloroethene	20	100	< 25	< 40	< 25	< 0.5	< 5	< 20	< 0.54	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.25	< 0.25	< 0.50
Trichloroethene	0.5	5	< 10	< 16	< 10	***4.5***	***4.5***	< 8	***3.9***	***11***	***11***	***13***	***11***	***12***	< 0.38	***18***	***17***	***24***
Vinyl chloride	0.02	0.2	< 10	< 16	< 10	< 0.2	< 2	< 8	< 0.26	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.1	< 0.1	< 0.20
Xylenes, Total	400	2000	***630***	320	250	***450***	***400***	130	40	40	41	12	8.3	34	39	63	58	16
Total PCBs																		
Aroclor-1016	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	< 0.17	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1232	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	< 0.094	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1242	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	< 0.13	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1248	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	< 0.11	NA	NA	NA	NA	NA	NA	NA	NA
Total Detected PCBs	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	ND	NA	NA	NA	NA	NA	NA	NA	NA
Dissolved PCBs																		
Aroclor-1016	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1232	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1242	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1248	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Detected PCBs	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Solids																		
Total Dissolved Solids	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Suspended Solids (TSS)	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

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Table 18
Groundwater Analytical Results Summary
Madison-Kipp Corporation
Madison, Wisconsin

WELL ID			MW-6D[3]	MW-6D	MW-6D[3]	MW-6D	MW-6D[3]	MW-6D	MW-6D[3]	MW-6D	MW-6D	MW-6D	MW-6D[3]	MW-6D	MW-6D	MW-6D[3]	MW-6D	MW-6D[3]	MW-6D
SCREEN INTERVAL (feet bgs)	PREVENTIVE	ENFORCEMENT	65.5 - 70.5 ft	65.5 - 70.5 ft	65.5 - 70.5 ft	65.5 - 70.5 ft	65.5 - 70.5 ft	65.5 - 70.5 ft	65.5 - 70.5 ft	65.5 - 70.5 ft	65.5 - 70.5 ft	65.5 - 70.5 ft	65.5 - 70.5 ft	65.5 - 70.5 ft	65.5 - 70.5 ft	65.5 - 70.5 ft	65.5 - 70.5 ft	65.5 - 70.5 ft	65.5 - 70.5 ft
SAMPLE DATE	ACTION LIMIT	STANDARD	04/17/2014	10/16/2014	10/16/2014	04/14/2015	04/14/2015	10/22/2015	10/22/2015	01/22/2016	04/20/2016	07/19/2016	10/12/2016	10/12/2016	1/20/2017	1/20/2017	04/11/2017	04/11/2017	10/09/2017
VOCs																			
1,1,1,2-Tetrachloroethane	7	70	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.46	< 0.92	< 2.2	< 5.5	< 1.1	< 5.5	< 5.5	< 11	< 5.5	< 11	< 1.1	< 5.5
1,1,1-Trichloroethane	40	200	< 0.40	< 0.40	< 0.40	< 0.40	< 0.40	< 0.38	< 0.76	< 2.0	< 5.0	< 1.0	< 5.0	< 5.0	< 10	< 5.0	< 10	< 1.0	< 5
1,1,2-Trichloroethane	0.5	5	< 0.56	< 0.56	< 0.56	< 0.56	< 0.56	< 0.35	< 0.70	< 2.0	< 5.0	< 1.0	< 5.0	< 5.0	< 10	< 5.0	< 10	< 1.0	< 5
1,1-Dichloroethene	0.7	7	< 0.62	< 0.62	< 0.62	< 0.62	< 0.62	< 0.39	< 0.78	< 2.8	< 7.0	< 1.4	< 7.0	< 7.0	< 14	< 7.0	< 14	< 1.4	< 7
1,2,4-Trimethylbenzene	96	480	8.9	13	13	4.0	4.2	6.9	6.6	9.0 J	15 J	57	***100***	***110***	***110 B***	***110***	***96***	***110***	***170***
1,2-Dibromoethane	0.005	0.05	< 0.72	< 0.72	< 0.72	< 0.72	< 0.72	< 0.39	< 0.77	< 2.6	< 6.5	< 1.3	< 6.5	< 6.5	< 13	< 6.5	< 13	< 1.3	< 6.5
1,2-Dichlorobenzene	60	600	< 0.54	< 0.54	< 0.54	< 0.54	< 0.54	< 0.33	< 0.67	< 1.5	< 3.8	< 0.76	< 3.8	< 3.8	< 7.6	< 3.8	< 7.6	< 0.76	< 3.8
1,2-Dichloropropane	0.5	5	***2.3***	***2.4***	< 0.40	***2.2***	< 0.40	< 0.43	< 0.86	< 2.0	< 5.0	< 1.0	< 5.0	< 5.0	< 10	< 5.0	< 10	< 1.0	< 5
1,2,3-Trichlorobenzene	NE	NE	< 0.48	< 0.48	< 0.48	< 0.48	< 0.48	< 0.46	< 0.92	< 0.90	< 2.3	< 0.45	< 2.3	< 2.3	< 4.5	< 2.3	< 4.5	< 0.45	< 2.3
1,2,4-Trichlorobenzene	14	70	< 0.62	< 0.62	< 0.62	< 0.62	< 0.62	< 0.34	< 0.68	< 1.5	< 3.9	< 0.77	< 3.9	< 3.9	< 7.7	< 3.9	< 7.7	< 0.77	< 3.9
1,3,5-Trimethylbenzene	96	480	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36	< 0.25	< 0.51	< 1.5	< 3.8	< 0.75	< 3.8	< 3.8	< 7.5	< 3.8	< 7.5	< 0.75	< 3.8
2-Butanone	800	4000	NA	NA	NA	NA	NA	NA	NA	< 60	< 150	< 30	< 150	< 150	< 300	< 150	< 300	< 30	< 150
2-Hexanone	NE	NE	NA	NA	NA	NA	NA	NA	NA	< 19	< 48	< 9.5	< 48	< 48	< 95	< 48	< 95	< 9.5	< 48
4-Methyl-2-pentanone	50	500	NA	NA	NA	NA	NA	NA	NA	< 15	< 39	< 7.7	< 39	< 39	< 77	< 39	< 77	< 7.7	< 39
Acetone	1800	9000	NA	NA	NA	NA	NA	NA	NA	< 68	< 170	< 34	< 170	< 170	< 340	< 170	< 340	< 34	< 170
Benzene	0.5	5	***710***	***990***	***980***	***790***	***700***	***660***	***560***	***610***	***810***	***1400***	***1600***	***1700***	***2100***	***2200***	***1700***	***1700***	***2000***
Bromodichloromethane	0.06	0.6	< 0.34	< 0.34	< 0.34	< 0.34	< 0.34	< 0.37	< 0.74	< 1.5	< 3.9	< 0.77	< 3.9	< 3.9	< 7.7	< 3.9	< 7.7	< 0.77	< 3.9
Bromoform	0.44	4.4	< 0.56	< 0.56	< 0.56	< 0.56	< 0.56	< 0.48	< 0.97	< 1.8	< 4.4	< 0.88	< 4.4	< 4.4	< 8.8	< 4.4	< 8.8	< 0.88	< 4.4
Bromomethane	1	10	< 0.62	< 0.62	< 0.62	< 0.62	< 0.62	< 0.80	< 1.6	< 12	< 30	< 5.9	< 30	< 30	< 59	< 30	< 59	< 5.9	< 30
Carbon disulfide	200	1000	NA	NA	NA	NA	NA	NA	NA	< 1.1	< 2.7	< 0.53	8.5 J	< 2.7	< 5.3	< 2.7	< 5.3	< 0.53	< 2.7
Carbon tetrachloride	0.5	5	< 0.52	< 0.52	< 0.52	< 0.52	< 0.52	< 0.38	< 0.77	< 0.76	< 1.9	< 0.38	< 1.9	< 1.9	< 3.8	< 1.9	< 3.8	< 0.38	< 1.9
Chloroform	0.6	6	< 0.40	< 0.40	< 0.40	< 0.40	< 0.40	< 0.37	< 0.74	< 1.2	***5.5 BJ***	< 0.62	< 3.1	< 3.1	< 6.2	< 3.1	< 6.2	< 0.62	< 3.1
Chloromethane	3	30	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36	< 0.32	< 0.64	< 3.2	< 8.0	< 1.6	***45 BJ***	***47 J***	***28 BJ***	***9.5 BJ***	< 16	< 1.6	***19 J***
cis-1,2-Dichloroethene	7	70	2.5	2.4	2.2	2.9	3.4	3.1	3.2	3.6 J	< 5.5	3.8 J	< 5.5	< 5.5	< 11	< 5.5	< 11 J	***7.3 J***	< 5.5
Dichlorodifluoromethane	200	1000	< 0.40	< 0.40	< 0.40	< 0.40	< 0.40	< 0.54	< 1.1	< 2.2	< 5.5	< 1.1	< 5.5	< 5.5	< 11	< 5.5	< 11	< 1.1	< 5.5
Ethylbenzene	140	700	6.3	8.0	7.2	3.3	3.5	4.7	4.5	4.0 J	6.0 J	11	18 J	20 J	21 J	20 J	23 J	22	36
Isopropylbenzene	NE	NE	21	24	20	13	13	17	16	5.8 J	22 J	31	31	28	29 BJ	31	33 J	34	33
m,p-Xylene	400	2000	NA	NA	NA	NA	NA	NA	NA	8.2 J	22 J	98	140	130	110 B	110 B	73 J	80	140
Methyl tert-butyl ether	12	60	< 0.48	< 0.48	< 0.48	< 0.48	< 0.48	< 0.39	< 0.79	< 2.8	< 7.0	< 1.4	< 7.0	< 7.0	< 14	< 7.0	< 14	< 1.4	< 7
Methylene chloride	0.5	5	< 1.4	***76***	***61***	< 1.4	< 1.4	< 1.6	< 3.3	< 2.8	< 7.0	***51***	< 7.0	< 7.0	< 14	< 7.0	< 14	< 1.4	< 7
Naphthalene	10	100	***10***	***18***	***15***	< 0.32	< 0.32	2.9	2.6	< 1.8	7.0 BJ	***67***	***110 J***	***110 J***	***140 BJ***	***140 J***	***81 J***	***110 J***	***140 BJ***
n-Butylbenzene	NE	NE	< 0.26	< 0.26	< 0.26	< 0.26	< 0.26	< 0.39	< 0.78	< 2.8	< 7.0	5.5	< 7.0	< 7.0	< 14	< 7.0	< 14 J	6.3 J	< 7
n-Hexane	120	600	NA	NA	NA	NA	NA	NA	NA	< 4.2	< 11	< 2.1	< 11	< 11	< 21	< 11	< 21	< 2.1	< 11
n-Propylbenzene	NE	NE	8.6	7.9	7.5	3.8	4.0	5.5	5.5	2.6 J	10 J	17	20 J	19 J	23 J	21 J	24 J	24	28
o-Xylene	400	2000	NA	NA	NA	NA	NA	NA	NA	2.6 J	< 2.9	5.3	8.0 J	6.5 J	13 BJ	11 BJ	9.0 J	8.7	9.5 J
p-Isopropyltoluene	NE	NE	2.5	2.5	2.2	< 0.34	< 0.34	< 0.36	< 0.72	< 1.7	< 4.3	3.6 J	< 4.3	< 4.3	< 8.5	< 4.3	< 8.5	< 0.85	< 4.3
sec-Butylbenzene	NE	NE	2.8	2.8	2.3	< 0.30	< 0.30	2.3	2.3	< 2.6	< 6.5	3.4 J	< 6.5	< 6.5	< 13	< 6.5	< 13	< 1.3	< 6.5
Styrene	10	100	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.39	< 0.77	< 1.3	< 3.3	1.7 J	< 3.3	< 3.3	< 6.5	< 3.3	< 6.5	< 0.65	6 J
tert-Butylbenzene	NE	NE	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.40	< 0.80	< 2.4	< 6.0	< 1.2	< 6.0	< 6.0	< 12	< 6.0	< 12	< 1.2	< 6
Tetrachloroethene	0.5	5	***8.9***	***4***	***3.1***	< 0.34	< 0.34	***0.97 J***	***1.6 J***	***1.8 J***	< 4.1	***2.7 J***	***7.0 J***	***9.0 J***	< 8.1	< 4.1	< 8.1	***0.90 J***	***9 BJ***
Toluene	160	800	24	26	27	17	17	22	22	13	23 J	65	90	95	120 B	110 B	100	110	140
trans-1,2-Dichloroethene	20	100	< 0.50	< 0.50	< 0.50	< 0.50	< 0.50	< 0.35	< 0.70	< 2.2	< 5.5	< 1.1	< 5.5	< 5.5	< 11	< 5.5	< 11 J	1.8 J	< 5.5
Trichloroethene	0.5	5	***23***	***31***	***28***	***21***	***22***	***19***	***18***	***8.4 J***	***24 J***	***25***	***24 J***	***22 J***	***23 BJ***	***20 BJ***	***23 J***	***26***	***20 J***
Vinyl chloride	0.02	0.2	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.41	< 3.2	< 8.0	< 1.6	< 8.0	< 8.0	< 16	< 8.0	< 16	< 1.6	< 8
Xylenes, Total	400	2000	15	25	24	8.6	9.1	16	16	10.8	22	103.3	148	136.5	120 BJ	120 B	82 J	89	150
Total PCBs																			
Aroclor-1016	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1232	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1242	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1248	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Detected PCBs	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dissolved PCBs																			
Aroclor-1016	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1232	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1242	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1248	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Detected PCBs	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Solids																			
Total Dissolved Solids	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Suspended Solids (TSS)	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

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Table 18
Groundwater Analytical Results Summary
Madison-Kipp Corporation
Madison, Wisconsin

WELL ID SCREEN INTERVAL (feet bgs) SAMPLE DATE	PREVENTIVE ACTION LIMIT	ENFORCEMENT STANDARD	MW-7 24 - 35 ft 08/26/2011	MW-7 24 - 35 ft 04/10/2012	MW-7 24 - 35 ft 01/14/2013	MW-7 24 - 35 ft 04/16/2013	MW-7 24 - 35 ft 07/17/2013	MW-7 24 - 35 ft 10/03/2013	MW-8 24 - 34 ft 08/26/2011	MW-8 24 - 34 ft 04/10/2012	MW-8 24 - 34 ft 01/15/2013	MW-8 24 - 34 ft 04/16/2013	MW-8 24 - 34 ft 07/17/2013	MW-8 24 - 34 ft 10/03/2013
VOCs														
1,1,1,2-Tetrachloroethane	7	70	< 0.25	< 0.31	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.31	< 0.25	< 0.25	< 0.25	< 0.25
1,1,1-Trichloroethane	40	200	< 0.5	< 0.26	< 0.2	< 0.2	< 0.2	< 0.2	< 0.5	< 0.26	< 0.2	< 0.2	< 0.2	< 0.2
1,1,2-Trichloroethane	0.5	5	< 0.25	< 0.3	< 0.28	< 0.28	< 0.28	< 0.28	< 0.25	< 0.3	< 0.28	< 0.28	< 0.28	< 0.28
1,1-Dichloroethene	0.7	7	< 0.5	< 0.29	< 0.31	< 0.31	< 0.31	< 0.31	< 0.5	< 0.29	< 0.31	< 0.31	< 0.31	< 0.31
1,2,4-Trimethylbenzene	96	480	< 0.2	< 0.22	< 0.14	< 0.14	< 0.14	< 0.14	< 0.2	< 0.22	< 0.14	< 0.14	< 0.14	< 0.14
1,2-Dibromoethane	0.005	0.05	< 0.2	< 0.45	< 0.36	< 0.36	< 0.36	< 0.36	< 0.2	< 0.45	< 0.36	< 0.36	< 0.36	< 0.36
1,2-Dichlorobenzene	60	600	< 0.2	< 0.21	< 0.27	< 0.27	< 0.27	< 0.27	< 0.2	< 0.21	< 0.27	< 0.27	< 0.27	< 0.27
1,2-Dichloropropane	0.5	5	< 0.5	< 0.36	< 0.2	< 0.2	< 0.2	< 0.2	< 0.5	< 0.36	< 0.2	< 0.2	< 0.2	< 0.2
1,2,3-Trichlorobenzene	NE	NE	< 0.25	< 0.36	< 0.24	< 0.24	< 0.24	< 0.24	< 0.25	< 0.36	< 0.24	< 0.24	< 0.24	< 0.24
1,2,4-Trichlorobenzene	14	70	< 0.25	< 0.22	< 0.31	< 0.31	< 0.31	< 0.31	< 0.25	< 0.22	< 0.31	< 0.31	< 0.31	< 0.31
1,3,5-Trimethylbenzene	96	480	< 0.2	< 0.23	< 0.18	< 0.18	< 0.18	< 0.18	< 0.2	< 0.23	< 0.18	< 0.18	< 0.18	< 0.18
2-Butanone	800	4000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Hexanone	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Methyl-2-pentanone	50	500	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Acetone	1800	9000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzene	0.5	5	< 0.2	< 0.12	< 0.074	< 0.074	< 0.074	< 0.074	< 0.2	< 0.12	< 0.074	< 0.074	< 0.074	< 0.074
Bromodichloromethane	0.06	0.6	< 0.2	< 0.23	< 0.17	< 0.17	< 0.17	< 0.17	< 0.2	< 0.23	< 0.17	< 0.17	< 0.17	< 0.17
Bromoform	0.44	4.4	< 0.2	< 0.45	< 0.28	< 0.28	< 0.28	< 0.28	< 0.2	< 0.45	< 0.28	< 0.28	< 0.28	< 0.28
Bromomethane	1	10	< 0.5	< 0.49	< 0.31	< 0.31	< 0.31	< 0.31	< 0.5	< 0.49	< 0.31	< 0.31	< 0.31	< 0.31
Carbon disulfide	200	1000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon tetrachloride	0.5	5	< 0.8	< 0.28	< 0.26	< 0.26	< 0.26	< 0.26	< 0.8	< 0.28	< 0.26	< 0.26	< 0.26	< 0.26
Chloroform	0.6	6	< 0.2	< 0.25	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.25	< 0.2	< 0.2	< 0.2	< 0.2
Chloromethane	3	30	< 0.3	< 0.24	< 0.18	< 0.18	< 0.18	< 0.18	< 0.3	< 0.24	< 0.18	< 0.18	< 0.18	< 0.18
cis-1,2-Dichloroethene	7	70	< 0.5	< 0.22	< 0.12	< 0.12	< 0.12	< 0.12	< 0.5	< 0.22	< 0.12	< 0.12	< 0.12	< 0.12
Dichlorodifluoromethane	200	1000	< 0.5	< 0.26	< 0.2	< 0.2	< 0.2	< 0.2	< 0.5	< 0.26	< 0.2	< 0.2	< 0.2	< 0.2
Ethylbenzene	140	700	< 0.5	< 0.14	< 0.13	< 0.13	< 0.13	< 0.13	< 0.5	< 0.14	< 0.13	< 0.13	< 0.13	< 0.13
Isopropylbenzene	NE	NE	< 0.2	< 0.21	< 0.14	< 0.14	< 0.14	< 0.14	< 0.2	< 0.21	< 0.14	< 0.14	< 0.14	< 0.14
m,p-Xylene	400	2000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methyl tert-butyl ether	12	60	< 0.5	< 0.28	< 0.24	< 0.24	< 0.24	< 0.24	< 0.5	< 0.28	< 0.24	< 0.24	< 0.24	< 0.24
Methylene chloride	0.5	5	< 1	< 0.63	< 0.68	< 0.68	< 0.68	< 0.68	< 1	< 0.63	< 0.68	< 0.68	< 0.68	< 0.68
Naphthalene	10	100	< 0.25	< 0.24	< 0.16	< 0.16	< 0.16	< 0.16	< 0.25	< 0.24	< 0.16	< 0.16	< 0.16	< 0.16
n-Butylbenzene	NE	NE	< 0.2	< 0.21	< 0.13	< 0.13	< 0.13	< 0.13	< 0.2	< 0.21	< 0.13	< 0.13	< 0.13	< 0.13
n-Hexane	120	600	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
n-Propylbenzene	NE	NE	< 0.5	< 0.19	< 0.13	< 0.13	< 0.13	< 0.13	< 0.5	< 0.19	< 0.13	< 0.13	< 0.13	< 0.13
o-Xylene	400	2000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
p-Isopropyltoluene	NE	NE	< 0.2	< 0.24	< 0.17	< 0.17	< 0.17	< 0.17	< 0.2	< 0.24	< 0.17	< 0.17	< 0.17	< 0.17
sec-Butylbenzene	NE	NE	< 0.25	< 0.19	< 0.15	< 0.15	< 0.15	< 0.15	< 0.25	< 0.19	< 0.15	< 0.15	< 0.15	< 0.15
Styrene	10	100	< 0.5	< 0.26	< 0.1	< 0.1	< 0.1	< 0.1	< 0.5	< 0.26	< 0.1	< 0.1	< 0.1	< 0.1
tert-Butylbenzene	NE	NE	< 0.2	< 0.24	< 0.14	< 0.14	< 0.14	< 0.14	< 0.2	< 0.24	< 0.14	< 0.14	< 0.14	< 0.14
Tetrachloroethene	0.5	5	< 0.5	< 0.22	< 0.17	< 0.17	< 0.17	< 0.17	< 0.5	< 0.22	< 0.17	< 0.17	< 0.17	< 0.17
Toluene	160	800	< 0.5	< 0.15	< 0.11	< 0.11	< 0.11	< 0.11	< 0.5	< 0.15	< 0.11	< 0.11	< 0.11	< 0.11
trans-1,2-Dichloroethene	20	100	< 0.5	< 0.27	< 0.25	< 0.25	< 0.25	< 0.25	< 0.5	< 0.27	< 0.25	< 0.25	< 0.25	< 0.25
Trichloroethene	0.5	5	< 0.2	< 0.18	< 0.19	< 0.19	< 0.19	< 0.19	< 0.2	< 0.18	< 0.19	< 0.19	< 0.19	< 0.19
Vinyl chloride	0.02	0.2	< 0.2	< 0.13	< 0.1	< 0.1	< 0.1	< 0.1	< 0.2	< 0.13	< 0.1	< 0.1	< 0.1	< 0.1
Xylenes, Total	400	2000	< 0.5	< 0.3	< 0.068	< 0.068	< 0.068	< 0.068	< 0.5	< 0.3	< 0.068	< 0.068	< 0.068	< 0.068
Total PCBs														
Aroclor-1016	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1232	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1242	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1248	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Detected PCBs	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dissolved PCBs														
Aroclor-1016	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1232	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1242	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1248	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Detected PCBs	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Solids														
Total Dissolved Solids	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Suspended Solids (TSS)	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

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Table 18
Groundwater Analytical Results Summary
Madison-Kipp Corporation
Madison, Wisconsin

WELL ID			MW-9D	MW-9D	MW-9D[3]	MW-9D	MW-9D	MW-9D	MW-9D	MW-9D	MW-9D	MW-9D	MW-9D	MW-9D	MW-9D
SCREEN INTERVAL (feet bgs)	PREVENTIVE	ENFORCEMENT	44 - 49 ft	44 - 49 ft	44 - 49 ft	44 - 49 ft	44 - 49 ft	44 - 49 ft	44 - 49 ft	44 - 49 ft	44 - 49 ft	44 - 49 ft	44 - 49 ft	44 - 49 ft	44 - 49 ft
SAMPLE DATE	ACTION LIMIT	STANDARD	09/09/2011	04/11/2012	04/11/2012	01/15/2013	04/18/2013	07/18/2013	10/04/2013	04/16/2014	10/14/2014	04/09/2015	10/20/2015	10/13/2016	10/04/2017
VOCs															
1,1,1,2-Tetrachloroethane	7	70	< 0.25	< 0.31	< 0.31	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.46	< 0.11	< 0.11
1,1,1-Trichloroethane	40	200	< 0.5	< 0.26	< 0.26	< 0.2	< 0.2	< 0.2	< 0.2	< 0.20	< 0.20	< 0.20	< 0.38	< 0.10	< 0.1
1,1,2-Trichloroethane	0.5	5	< 0.25	< 0.3	< 0.3	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.35	< 0.10	< 0.1
1,1-Dichloroethene	0.7	7	< 0.5	< 0.29	< 0.29	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.39	< 0.14	< 0.14
1,2,4-Trimethylbenzene	96	480	< 0.2	< 0.22	< 0.22	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.36	< 0.060	< 0.06
1,2-Dibromoethane	0.005	0.05	< 0.2	< 0.45	< 0.45	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36	< 0.39	< 0.13	< 0.13
1,2-Dichlorobenzene	60	600	< 0.2	< 0.21	< 0.21	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.33	< 0.076	< 0.076
1,2-Dichloropropane	0.5	5	< 0.5	< 0.36	< 0.36	< 0.2	< 0.2	< 0.2	< 0.2	< 0.20	< 0.20	< 0.20	< 0.43	< 0.10	< 0.1
1,2,3-Trichlorobenzene	NE	NE	< 0.25	< 0.36	< 0.36	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.46	< 0.045	< 0.045
1,2,4-Trichlorobenzene	14	70	< 0.25	< 0.22	< 0.22	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.34	< 0.077	< 0.077
1,3,5-Trimethylbenzene	96	480	< 0.2	< 0.23	< 0.23	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.25	< 0.075	< 0.075
2-Butanone	800	4000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 3.0	< 3
2-Hexanone	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.95	< 0.95
4-Methyl-2-pentanone	50	500	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.77	< 0.77
Acetone	1800	9000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 3.4	17 BJ
Benzene	0.5	5	< 0.2	< 0.12	< 0.12	< 0.074	< 0.074	< 0.074	< 0.074	< 0.074	< 0.074	< 0.074	< 0.15	< 0.089	< 0.089
Bromodichloromethane	0.06	0.6	< 0.2	< 0.23	< 0.23	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.37	< 0.077	< 0.077
Bromoform	0.44	4.4	< 0.2	< 0.45	< 0.45	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.48	< 0.088	< 0.088
Bromomethane	1	10	< 0.5	< 0.49	< 0.49	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31 *	< 0.31	< 0.80	< 0.59	< 0.59
Carbon disulfide	200	1000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.16 J	< 0.053
Carbon tetrachloride	0.5	5	< 0.8	< 0.28	< 0.28	< 0.26	< 0.26	< 0.26	< 0.26	< 0.26	< 0.26	< 0.26	< 0.38	< 0.038	0.09 J
Chloroform	0.6	6	< 0.2	< 0.25	< 0.25	< 0.2	< 0.2	< 0.2	< 0.2	< 0.20	< 0.20	< 0.20	< 0.37	< 0.062	< 0.062
Chloromethane	3	30	< 0.3	< 0.24	< 0.24	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.32	0.63 BJ	***4.7***
cis-1,2-Dichloroethene	7	70	< 0.5	< 0.22	< 0.22	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	< 0.41	< 0.11	< 0.11
Dichlorodifluoromethane	200	1000	< 0.5	< 0.26	< 0.26	< 0.2	< 0.2	< 0.2	< 0.2	< 0.20	< 0.20	< 0.20	< 0.54	< 0.11	< 0.11
Ethylbenzene	140	700	< 0.5	< 0.14	< 0.14	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.18	< 0.054	< 0.054
Isopropylbenzene	NE	NE	< 0.2	< 0.21	< 0.21	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.39	< 0.081	< 0.081
m,p-Xylene	400	2000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.057	< 0.057
Methyl tert-butyl ether	12	60	< 0.5	< 0.28	< 0.28	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.39	< 0.14	< 0.14
Methylene chloride	0.5	5	< 1	***9***	< 0.63	< 0.68	< 0.68	< 0.68	< 0.68	< 0.68	< 0.68	< 0.68	< 1.6	< 0.14	< 0.14
Naphthalene	10	100	< 0.25	< 0.24	< 0.24	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.34	< 0.088	< 0.088
n-Butylbenzene	NE	NE	< 0.2	< 0.21	< 0.21	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.39	< 0.14	< 0.14
n-Hexane	120	600	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.21	< 0.21
n-Propylbenzene	NE	NE	< 0.5	< 0.19	< 0.19	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.41	< 0.10	< 0.1
o-Xylene	400	2000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.058	< 0.058
p-Isopropyltoluene	NE	NE	< 0.2	< 0.24	< 0.24	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.36	< 0.085	< 0.085
sec-Butylbenzene	NE	NE	< 0.25	< 0.19	< 0.19	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.40	< 0.13	< 0.13
Styrene	10	100	< 0.5	< 0.26	< 0.26	< 0.1	< 0.1	< 0.1	< 0.1	< 0.10	< 0.10	< 0.10	< 0.39	< 0.065	0.08 BJ
tert-Butylbenzene	NE	NE	< 0.2	< 0.24	< 0.24	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.40	< 0.12	< 0.12
Tetrachloroethene	0.5	5	< 0.5	< 0.22	< 0.22	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.37	0.20 J	< 0.081
Toluene	160	800	< 0.5	< 0.15	< 0.15	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.15	< 0.053	< 0.053
trans-1,2-Dichloroethene	20	100	< 0.5	< 0.27	< 0.27	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.35	< 0.11	< 0.11
Trichloroethene	0.5	5	< 0.2	< 0.18	< 0.18	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.16	< 0.062	< 0.062
Vinyl chloride	0.02	0.2	< 0.2	< 0.13	< 0.13	< 0.1	< 0.1	< 0.1	< 0.1	< 0.10	< 0.10	< 0.10	< 0.20	< 0.16	< 0.16
Xylenes, Total	400	2000	< 0.5	< 0.3	< 0.3	< 0.068	< 0.068	< 0.068	< 0.068	< 0.068	< 0.068	< 0.068	< 0.22	< 0.058	< 0.12
Total PCBs															
Aroclor-1016	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1232	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1242	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1248	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Detected PCBs	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dissolved PCBs															
Aroclor-1016	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1232	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1242	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1248	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Detected PCBs	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Solids															
Total Dissolved Solids	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Suspended Solids (TSS)	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

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Table 18
Groundwater Analytical Results Summary
Madison-Kipp Corporation
Madison, Wisconsin

WELL ID			MW-9D2	MW-9D2	MW-9D2	MW-9D2	MW-9D2	MW-9D2	MW-9D2	MW-9D2	MW-9D2	MW-9D2	MW-9D2	MW-9D2	MW-9D2	MW-9D2	MW-9D2	MW-9D2	MW-9D2
SCREEN INTERVAL (feet bgs)	PREVENTIVE	ENFORCEMENT	64 - 69 ft	64 - 69 ft	64 - 69 ft	64 - 69 ft	64 - 69 ft	64 - 69 ft	64 - 69 ft	64 - 69 ft	64 - 69 ft	64 - 69 ft	64 - 69 ft	64 - 69 ft	64 - 69 ft	64 - 69 ft	64 - 69 ft	64 - 69 ft	64 - 69 ft
SAMPLE DATE	ACTION LIMIT	STANDARD	09/09/2011	04/11/2012	01/15/2013	04/18/2013	07/18/2013	10/04/2013	04/16/2014	10/14/2014	04/10/2015	10/20/2015	01/21/2016	04/20/2016	07/19/2016	10/13/2016	1/19/2017	04/12/2017	10/04/2017
VOCs																			
1,1,1,2-Tetrachloroethane	7	70	< 0.25	< 0.31	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.46	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11
1,1,1-Trichloroethane	40	200	< 0.5	< 0.26	< 0.2	< 0.2	< 0.2	< 0.2	< 0.20	< 0.20	< 0.20	< 0.38	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.1
1,1,2-Trichloroethane	0.5	5	< 0.25	< 0.3	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.35	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.1
1,1-Dichloroethene	0.7	7	< 0.5	< 0.29	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.39	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14
1,2,4-Trimethylbenzene	96	480	< 0.2	< 0.22	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.36	< 0.060	< 0.060	< 0.060	< 0.060	< 0.060	< 0.060	< 0.06
1,2-Dibromoethane	0.005	0.05	< 0.2	< 0.45	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36	< 0.39	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13
1,2-Dichlorobenzene	60	600	< 0.2	< 0.21	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.33	< 0.076	< 0.076	< 0.076	< 0.076	< 0.076	< 0.076	< 0.076
1,2-Dichloropropane	0.5	5	< 0.5	< 0.36	< 0.2	< 0.2	< 0.2	< 0.2	< 0.20	< 0.20	< 0.20	< 0.43	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.1
1,2,3-Trichlorobenzene	NE	NE	< 0.25	< 0.36	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.46	< 0.045	< 0.045	< 0.045	< 0.045	< 0.045	< 0.045	< 0.045
1,2,4-Trichlorobenzene	14	70	< 0.25	< 0.22	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.34	< 0.077	< 0.077	< 0.077	< 0.077	< 0.077	< 0.077	< 0.077
1,3,5-Trimethylbenzene	96	480	< 0.2	< 0.23	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.25	< 0.075	< 0.075	< 0.075	< 0.075	< 0.075	< 0.075	< 0.075
2-Butanone	800	4000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 3.0	< 3.0	< 3.0	< 3.0	< 3.0	< 3.0	< 3
2-Hexanone	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.95	< 0.95	< 0.95	< 0.95	< 0.95	< 0.95	< 0.95
4-Methyl-2-pentanone	50	500	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.77	< 0.77	< 0.77	< 0.77	< 0.77	< 0.77	< 0.77
Acetone	1800	9000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 3.4	< 3.4	< 3.4	< 3.4	< 3.4	< 3.4	6.4 BJ
Benzene	0.5	5	< 0.2	< 0.12	< 0.074	< 0.074	< 0.074	< 0.074	< 0.074	< 0.074	< 0.074	< 0.15	0.11 J	< 0.089	< 0.089	< 0.089	< 0.089	< 0.089	0.09 J
Bromodichloromethane	0.06	0.6	< 0.2	< 0.23	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.37	< 0.077	< 0.077	< 0.077	< 0.077	< 0.077	< 0.077	< 0.077
Bromoform	0.44	4.4	< 0.2	< 0.45	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.48	< 0.088	< 0.088	< 0.088	< 0.088	< 0.088	< 0.088	< 0.088
Bromomethane	1	10	< 0.5	< 0.49	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31 *	< 0.31	< 0.80	< 0.59	< 0.59	< 0.59	< 0.59	< 0.59	< 0.59	< 0.59
Carbon disulfide	200	1000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.053	< 0.053	< 0.053	< 0.053	< 0.053	< 0.053	< 0.053
Carbon tetrachloride	0.5	5	< 0.8	< 0.28	< 0.26	< 0.26	< 0.26	< 0.26	< 0.26	< 0.26	< 0.26	< 0.38	< 0.038	< 0.038	< 0.038	< 0.038	< 0.038	< 0.038	< 0.038
Chloroform	0.6	6	< 0.2	< 0.25	< 0.2	< 0.2	< 0.2	< 0.2	< 0.20	< 0.20	< 0.20	< 0.37	< 0.062	< 0.062	< 0.062	< 0.062	< 0.062	< 0.062	< 0.062
Chloromethane	3	30	< 0.3	< 0.24	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.32	0.29 J	< 0.16	0.40 J	0.55 BJ	0.49 BJ	< 0.16	1.4 J+
cis-1,2-Dichloroethene	7	70	***12***	***11***	***14***	***16***	***16***	***18***	***19***	***24***	***26***	***32***	3.9	***34***	***31***	***35***	1.0 B	1.5	***32***
Dichlorodifluoromethane	200	1000	< 0.5	< 0.26	< 0.2	< 0.2	< 0.2	< 0.2	< 0.20	< 0.20	< 0.20	< 0.54	< 0.11	0.36 J	0.48 J	0.46 J	< 0.11	< 0.11	0.63
Ethylbenzene	140	700	< 0.5	< 0.14	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.18	< 0.054	< 0.054	< 0.054	< 0.054	< 0.054	< 0.054	< 0.054
Isopropylbenzene	NE	NE	< 0.2	< 0.21	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.39	< 0.081	< 0.081	< 0.081	< 0.081	< 0.081	< 0.081	< 0.081
m,p-Xylene	400	2000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.057	< 0.057	< 0.057	< 0.057	< 0.057	< 0.057	< 0.057
Methyl tert-butyl ether	12	60	7.4	9.3	***20***	10	***12***	***15***	9.6	***12***	***17***	***24***	***18***	***21***	***28***	***29***	2.9 J+	2.4	***38***
Methylene chloride	0.5	5	< 1	***8.8***	< 0.68	< 0.68	< 0.68	< 0.68	< 0.68	< 0.68	< 0.68	< 1.6	0.17 J	< 0.14	< 0.14	< 0.14	***1.4 BJ***	< 0.14	< 0.14
Naphthalene	10	100	< 0.25	< 0.24	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.34	< 0.088	< 0.088	< 0.088	< 0.088	< 0.088	< 0.088	< 0.088
n-Butylbenzene	NE	NE	< 0.2	< 0.21	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.39	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14
n-Hexane	120	600	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21
n-Propylbenzene	NE	NE	< 0.5	< 0.19	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.41	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.1
o-Xylene	400	2000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.058	< 0.058	< 0.058	< 0.058	< 0.058	< 0.058	< 0.058
p-Isopropyltoluene	NE	NE	< 0.2	< 0.24	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.36	< 0.085	< 0.085	< 0.085	< 0.085	< 0.085	< 0.085	< 0.085
sec-Butylbenzene	NE	NE	< 0.25	< 0.19	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.40	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13
Styrene	10	100	< 0.5	< 0.26	< 0.1	< 0.1	< 0.1	< 0.1	< 0.10	< 0.10	< 0.10	< 0.39	< 0.065	< 0.065	< 0.065	< 0.065	< 0.065	< 0.065	0.08 BJ
tert-Butylbenzene	NE	NE	< 0.2	< 0.24	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.40	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12
Tetrachloroethene	0.5	5	***29***	***10***	***26***	***28***	***30***	***34***	***26***	***41***	***37***	***41***	***11***	***58***	***44***	***61***	***2.6 B***	***5.5***	***49***
Toluene	160	800	< 0.5	< 0.15	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.15	< 0.053	< 0.053	< 0.053	< 0.053	0.15 BJ	< 0.053	< 0.053
trans-1,2-Dichloroethene	20	100	< 0.5	< 0.27	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.35	< 0.11	0.61	0.58	0.64	< 0.11	< 0.11	0.65
Trichloroethene	0.5	5	***5***	***3.8***	***5.5***	***6***	***6.3***	***7.4***	***6.5***	***9.6***	***9.5***	***11***	***2.8***	***13***	***13***	***16***	***0.95 B***	***1.7***	***14***
Vinyl chloride	0.02	0.2	< 0.2	< 0.13	< 0.1	< 0.1	< 0.1	< 0.1	< 0.10	< 0.10	< 0.10	< 0.20	< 0.16	< 0.16	***0.17 J***	< 0.16	< 0.16	< 0.16	***0.59***
Xylenes, Total	400	2000	< 0.5	< 0.3	< 0.068	< 0.068	< 0.068	< 0.068	< 0.068	< 0.068	< 0.068	< 0.22	< 0.058	< 0.058	< 0.058	< 0.058	< 0.12	< 0.12	< 0.12
Total PCBs																			
Aroclor-1016	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1232	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1242	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1248	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Detected PCBs	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dissolved PCBs																			
Aroclor-1016	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1232	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1242	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1248	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Detected PCBs	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Solids																			
Total Dissolved Solids	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Suspended Solids (TSS)	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Notes on Page 55.

Table 18
Groundwater Analytical Results Summary
Madison-Kipp Corporation
Madison, Wisconsin

WELL ID			MW-10S	MW-10S	MW-10S	MW-10S	MW-10S	MW-10S	MW-11S	MW-11S	MW-11S	MW-11S	MW-11S	MW-11S	MW-11S	MW-12S	MW-12S	MW-12S	MW-12S	MW-12S	MW-12S
SCREEN INTERVAL (feet bgs)	PREVENTIVE	ENFORCEMENT	11 - 21 ft	11 - 21 ft	11 - 21 ft	11 - 21 ft	11 - 21 ft	11 - 21 ft	24 - 34 ft	24 - 34 ft	24 - 34 ft	24 - 34 ft	24 - 34 ft	24 - 34 ft	24 - 34 ft	3 - 13 ft	3 - 13 ft	3 - 13 ft	3 - 13 ft	3 - 13 ft	3 - 13 ft
SAMPLE DATE	ACTION LIMIT	STANDARD	04/10/2012	05/09/2012	01/15/2013	04/17/2013	07/17/2013	10/09/2013	04/12/2012	05/09/2012	01/15/2013	04/17/2013	07/18/2013	10/04/2013	10/09/2017	04/12/2012	05/09/2012	01/16/2013	04/17/2013	07/18/2013	10/04/2013
VOCs																					
1,1,1,2-Tetrachloroethane	7	70	< 0.31	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.31	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	NA	< 0.31	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25
1,1,1-Trichloroethane	40	200	< 0.26	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.26	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	NA	< 0.26	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
1,1,2-Trichloroethane	0.5	5	< 0.3	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.3	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	NA	< 0.3	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28
1,1-Dichloroethene	0.7	7	< 0.29	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.29	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	NA	< 0.29	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31
1,2,4-Trimethylbenzene	96	480	0.76 J	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	0.55 J	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	NA	1.2	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14
1,2-Dibromoethane	0.005	0.05	< 0.45	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36	< 0.45	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36	NA	< 0.45	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36
1,2-Dichlorobenzene	60	600	< 0.21	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.21	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	NA	< 0.21	< 0.27	0.79 J	< 0.27	< 0.27	< 0.27
1,2-Dichloropropane	0.5	5	< 0.36	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.36	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	NA	< 0.36	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
1,2,3-Trichlorobenzene	NE	NE	< 0.36	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.36	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	NA	< 0.36	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24
1,2,4-Trichlorobenzene	14	70	< 0.22	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.22	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	NA	< 0.22	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31
1,3,5-Trimethylbenzene	96	480	< 0.23	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.23	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	NA	< 0.23	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18
2-Butanone	800	4000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Hexanone	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Methyl-2-pentanone	50	500	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Acetone	1800	9000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzene	0.5	5	< 0.12	< 0.074	< 0.074	< 0.074	< 0.074	< 0.074	< 0.12	< 0.074	< 0.074	< 0.074	< 0.074	< 0.074	NA	< 0.12	< 0.074	< 0.074	< 0.074	< 0.074	< 0.074
Bromodichloromethane	0.06	0.6	< 0.23	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.23	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	NA	< 0.23	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17
Bromoform	0.44	4.4	< 0.45	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.45	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	NA	< 0.45	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28
Bromomethane	1	10	< 0.49	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.49	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	NA	< 0.49	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31
Carbon disulfide	200	1000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon tetrachloride	0.5	5	< 0.28	< 0.26	< 0.26	< 0.26	< 0.26	< 0.26	< 0.28	< 0.26	< 0.26	< 0.26	< 0.26	< 0.26	NA	< 0.28	< 0.26	< 0.26	< 0.26	< 0.26	< 0.26
Chloroform	0.6	6	< 0.25	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.25	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	NA	< 0.25	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
Chloromethane	3	30	< 0.24	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.24	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	NA	< 0.24	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18
cis-1,2-Dichloroethene	7	70	< 0.22	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	< 0.22	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	NA	< 0.22	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12
Dichlorodifluoromethane	200	1000	< 0.26	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.26	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	NA	< 0.26	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2
Ethylbenzene	140	700	0.20 J	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.14	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	NA	< 0.14	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13
Isopropylbenzene	NE	NE	< 0.21	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.21	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	NA	< 0.21	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14
m,p-Xylene	400	2000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methyl tert-butyl ether	12	60	< 0.28	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.28	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	NA	< 0.28	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24
Methylene chloride	0.5	5	< 0.63	< 0.68	< 0.68	< 0.68	< 0.68	< 0.68	< 0.63	< 0.68	< 0.68	< 0.68	< 0.68	< 0.68	NA	< 0.63	< 0.68	< 0.68	< 0.68	< 0.68	< 0.68
Naphthalene	10	100	< 0.24	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.24	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	NA	< 0.24	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16
n-Butylbenzene	NE	NE	< 0.21	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.21	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	NA	< 0.21	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13
n-Hexane	120	600	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
n-Propylbenzene	NE	NE	< 0.19	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.19	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	NA	< 0.19	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13
o-Xylene	400	2000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
p-Isopropyltoluene	NE	NE	< 0.24	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.24	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	NA	< 0.24	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17
sec-Butylbenzene	NE	NE	< 0.19	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.19	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	NA	< 0.19	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15
Styrene	10	100	< 0.26	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.26	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	NA	< 0.26	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
tert-Butylbenzene	NE	NE	< 0.24	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.24	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	NA	< 0.24	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14
Tetrachloroethene	0.5	5	< 0.22	< 0.17	***0.85 J***	< 0.17	< 0.17	< 0.17	< 0.22	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	NA	***0.78 J***	***1.7***	***0.93 J***	< 0.17	***1.3***	***1.5***
Toluene	160	800	0.54	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	0.73	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	NA	0.64	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11
trans-1,2-Dichloroethene	20	100	< 0.27	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.27	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	NA	< 0.27	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25
Trichloroethene	0.5	5	< 0.18	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.18	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	NA	< 0.18	0.26 J	< 0.19	< 0.19	< 0.19	< 0.19
Vinyl chloride	0.02	0.2	< 0.13	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.13	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	NA	< 0.13	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
Xylenes, Total	400	2000	0.83 J	< 0.068	< 0.068	< 0.068	< 0.068	< 0.068	0.86 J	< 0.068	< 0.068	< 0.068	< 0.068	< 0.068	NA	1.6	< 0.068	< 0.068	< 0.068	< 0.068	< 0.068
Total PCBs																					
Aroclor-1016	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.035	NA	NA	NA	NA	NA	NA
Aroclor-1232	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.037	NA	NA	NA	NA	NA	NA
Aroclor-1242	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.038	NA	NA	NA	NA	NA	NA
Aroclor-1248	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.02	NA	NA	NA	NA	NA	NA
Total Detected PCBs	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	ND	NA	NA	NA	NA	NA	NA
Dissolved PCBs																					
Aroclor-1016	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1232	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1242	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1248	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Detected PCBs	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Solids																					
Total Dissolved Solids	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1960	NA	NA	NA	NA	NA	NA
Total Suspended Solids (TSS)	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.95	NA	NA	NA	NA	NA	NA

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Table 18
Groundwater Analytical Results Summary
Madison-Kipp Corporation
Madison, Wisconsin

WELL ID SCREEN INTERVAL (feet bgs) SAMPLE DATE	PREVENTIVE ACTION LIMIT	ENFORCEMENT STANDARD	MP-13 44 - 48 ft 12/06/2012	MP-13 44 - 48 ft 01/19/2013	MP-13 44 - 48 ft 02/21/2013	MP-13 44 - 48 ft 04/17/2013	MP-13 44 - 48 ft 07/22/2013	MP-13 44 - 48 ft 10/07/2013	MP-13 44 - 48 ft 04/16/2014	MP-13 44 - 48 ft 10/14/2014	MP-13 44 - 48 ft 04/14/2015	MP-13 44 - 48 ft 10/16/2015	MP-13 44 - 48 ft 10/10/2016	MP-13 44 - 48 ft 10/03/2017
VOCs														
1,1,1,2-Tetrachloroethane	7	70	< 0.25	< 0.25	< 0.25	< 0.5	< 0.25	< 0.25	< 0.50	< 0.50	< 0.50	< 0.46	< 1.1	< 0.44
1,1,1-Trichloroethane	40	200	< 0.2	< 0.2	< 0.2	< 0.4	< 0.2	< 0.2	< 0.40	< 0.40	< 0.40	< 0.38	< 1.0	< 0.4
1,1,2-Trichloroethane	0.5	5	< 0.28	< 0.28	< 0.28	< 0.56	< 0.28	< 0.28	< 0.56	< 0.56	< 0.56	< 0.35	< 1.0	< 0.4
1,1-Dichloroethene	0.7	7	***0.92 J***	***1.1***	***0.88 J***	< 0.62	***0.85 J***	***1.1***	***1.3 J***	< 0.62	***1.4 J***	***0.73 J***	< 1.4	< 0.56
1,2,4-Trimethylbenzene	96	480	< 0.14	< 0.14	< 0.14	< 0.28	< 0.14	< 0.14	< 0.28	< 0.28	< 0.28	< 0.36	< 0.60	< 0.24
1,2-Dibromoethane	0.005	0.05	< 0.36	< 0.36	< 0.36	< 0.72	< 0.36	< 0.36	< 0.72	< 0.72	< 0.72	< 0.39	< 1.3	< 0.52
1,2-Dichlorobenzene	60	600	< 0.27	< 0.27	< 0.27	< 0.54	< 0.27	< 0.27	< 0.54	< 0.54	< 0.54	< 0.33	< 0.76	< 0.3
1,2-Dichloropropane	0.5	5	< 0.2	< 0.2	< 0.2	< 0.4	< 0.2	< 0.2	< 0.40	< 0.40	< 0.40	< 0.43	< 1.0	< 0.4
1,2,3-Trichlorobenzene	NE	NE	< 0.24	< 0.24	< 0.24	< 0.48	< 0.24	< 0.24	< 0.48	< 0.48	< 0.48	< 0.46	< 0.45	< 0.18
1,2,4-Trichlorobenzene	14	70	< 0.31	< 0.31	< 0.31	< 0.62	< 0.31	< 0.31	< 0.62	< 0.62	< 0.62	< 0.34	< 0.77	< 0.31
1,3,5-Trimethylbenzene	96	480	< 0.18	< 0.18	< 0.18	< 0.36	< 0.18	< 0.18	< 0.36	< 0.36	< 0.36	< 0.25	< 0.75	< 0.3
2-Butanone	800	4000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 30	< 12
2-Hexanone	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 9.5	< 3.8
4-Methyl-2-pentanone	50	500	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 7.7	< 3.1
Acetone	1800	9000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 34	< 14
Benzene	0.5	5	0.34 J	0.38 J	0.32 J	0.38 J	0.34 J	0.46 J	< 0.15	< 0.15	< 0.15	< 0.15	< 0.89	< 0.36
Bromodichloromethane	0.06	0.6	< 0.17	< 0.17	< 0.17	< 0.34	< 0.17	< 0.17	< 0.34	< 0.34	< 0.34	< 0.37	< 0.77	< 0.31
Bromoform	0.44	4.4	< 0.28	< 0.28	< 0.28	< 0.56	< 0.28	< 0.28	< 0.56	< 0.56	< 0.56	< 0.48	< 0.88	< 0.35
Bromomethane	1	10	< 0.31	< 0.31	< 0.31	< 0.62	< 0.31	< 0.31	< 0.62	< 0.62 *	< 0.62	< 0.80	< 5.9	< 2.4
Carbon disulfide	200	1000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.53	< 0.21
Carbon tetrachloride	0.5	5	< 0.26	< 0.26	< 0.26	< 0.52	< 0.26	< 0.26	< 0.52	< 0.52	< 0.52	< 0.38	< 0.38	< 0.15
Chloroform	0.6	6	< 0.2	< 0.2	< 0.2	< 0.4	< 0.2	< 0.2	< 0.40	< 0.40	< 0.40	< 0.37	< 0.62	< 0.25
Chloromethane	3	30	< 0.18	< 0.18	< 0.18	< 0.36	< 0.18	< 0.18	< 0.36	< 0.36	< 0.36	< 0.32	***4.3 BJ***	< 0.64
cis-1,2-Dichloroethene	7	70	***540***	***450***	***460***	***460***	***430***	***480***	***450***	***440***	***360***	***220***	***97***	***50***
Dichlorodifluoromethane	200	1000	< 0.2	< 0.2	< 0.2	< 0.4	< 0.2	< 0.2	< 0.40	< 0.40	< 0.40	< 0.54	< 1.1	< 0.44
Ethylbenzene	140	700	< 0.13	< 0.13	< 0.13	< 0.26	< 0.13	< 0.13	< 0.26	< 0.26	< 0.26	< 0.18	< 0.54	< 0.22
Isopropylbenzene	NE	NE	< 0.14	< 0.14	< 0.14	< 0.28	< 0.14	< 0.14	< 0.28	< 0.28	< 0.28	< 0.39	< 0.81	< 0.32
m,p-Xylene	400	2000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.57	< 0.23
Methyl tert-butyl ether	12	60	< 0.24	< 0.24	< 0.24	< 0.48	< 0.24	< 0.24	< 0.48	< 0.48	< 0.48	< 0.39	< 1.4	< 0.56
Methylene chloride	0.5	5	< 0.68	< 0.68	< 0.68	< 1.4	< 0.68	< 0.68	< 1.4	< 1.4	< 1.4	< 1.6	< 1.4	< 0.56
Naphthalene	10	100	< 0.16	< 0.16	< 0.16	< 0.32	< 0.16	< 0.16	< 0.32	< 0.32	< 0.32	< 0.34	< 0.88	< 0.35
n-Butylbenzene	NE	NE	< 0.13	< 0.13	< 0.13	< 0.26	< 0.13	< 0.13	< 0.26	< 0.26	< 0.26	< 0.39	< 1.4	< 0.56
n-Hexane	120	600	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 2.1	< 0.84
n-Propylbenzene	NE	NE	< 0.13	< 0.13	< 0.13	< 0.26	< 0.13	< 0.13	< 0.26	< 0.26	< 0.26	< 0.41	< 1.0	< 0.4
o-Xylene	400	2000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.58	< 0.23
p-Isopropyltoluene	NE	NE	< 0.17	< 0.17	< 0.17	< 0.34	< 0.17	< 0.17	< 0.34	< 0.34	< 0.34	< 0.36	< 0.85	< 0.34
sec-Butylbenzene	NE	NE	< 0.15	< 0.15	< 0.15	< 0.3	< 0.15	< 0.15	< 0.30	< 0.30	< 0.30	< 0.40	< 1.3	< 0.52
Styrene	10	100	< 0.1	< 0.1	< 0.1	< 0.2	< 0.1	< 0.1	< 0.20	< 0.20	< 0.20	< 0.39	< 0.65	< 0.26
tert-Butylbenzene	NE	NE	< 0.14	< 0.14	< 0.14	< 0.28	< 0.14	< 0.14	< 0.28	< 0.28	< 0.28	< 0.40	< 1.2	< 0.48
Tetrachloroethene	0.5	5	***640***	***760***	***630***	***680***	***720***	***800***	***750***	***750***	***580***	***360***	***240***	***160***
Toluene	160	800	< 0.11	< 0.11	< 0.11	< 0.22	< 0.11	< 0.11	< 0.22	< 0.22	< 0.22	< 0.15	< 0.53	< 0.21
trans-1,2-Dichloroethene	20	100	7.3	6.7	6.1	6.9	6.9	8.4	8.5	7.7	8.4	4.0	< 1.1	0.68 J
Trichloroethene	0.5	5	***230***	***200***	***220***	***230***	***220***	***290***	***300***	***260***	***320***	***170***	***93***	***59***
Vinyl chloride	0.02	0.2	***15***	***17***	***17***	***13***	***13***	***17***	***14***	***16***	***16***	***8.6***	***3.7 J***	***1.5 J***
Xylenes, Total	400	2000	< 0.068	< 0.068	< 0.068	< 0.14	< 0.068	< 0.068	< 0.14	< 0.14	< 0.14	< 0.22	< 0.58	< 0.46
Total PCBs														
Aroclor-1016	0.003	0.03	< 0.16	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1232	0.003	0.03	< 0.085	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1242	0.003	0.03	< 0.12	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1248	0.003	0.03	< 0.1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Detected PCBs	0.003	0.03	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dissolved PCBs														
Aroclor-1016	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1232	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1242	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1248	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Detected PCBs	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Solids														
Total Dissolved Solids	NE	NE	1400	1400	1400	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Suspended Solids (TSS)	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

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Table 18
Groundwater Analytical Results Summary
Madison-Kipp Corporation
Madison, Wisconsin

WELL ID SCREEN INTERVAL (feet bgs) SAMPLE DATE	PREVENTIVE ACTION LIMIT	ENFORCEMENT STANDARD	MP-13 67 - 71 ft 12/06/2012	MP-13 67 - 71 ft 01/19/2013	MP-13 67 - 71 ft 02/21/2013	MP-13 67 - 71 ft 04/17/2013	MP-13 67 - 71 ft 07/22/2013	MP-13 67 - 71 ft 10/07/2013	MP-13 67 - 71 ft 04/16/2014	MP-13 67 - 71 ft 10/14/2014	MP-13 67 - 71 ft 04/14/2015	MP-13 67 - 71 ft 10/16/2015	MP-13 67 - 71 ft 10/10/2016	MP-13 67 - 71 ft 10/03/2017
VOCs														
1,1,1,2-Tetrachloroethane	7	70	< 1.3	< 1.3	< 1.3	< 2.5	< 1.3	< 1.3	< 1.3	< 1.3	< 1.3	< 0.92	< 1.1	< 0.22
1,1,1-Trichloroethane	40	200	< 1	< 1	< 1	< 2	< 1	< 1	< 1.0	< 1.0	< 1.0	< 0.76	< 1.0	< 0.2
1,1,2-Trichloroethane	0.5	5	< 1.4	< 1.4	< 1.4	< 2.8	< 1.4	< 1.4	< 1.4	< 1.4	< 1.4	< 0.70	< 1.0	< 0.2
1,1-Dichloroethene	0.7	7	***2.8 J***	***3.1 J***	< 1.6	< 3.1	< 1.6	< 1.6	< 1.6	< 1.6	< 1.6	< 0.78	< 1.4	< 0.28
1,2,4-Trimethylbenzene	96	480	< 0.7	< 0.7	< 0.7	< 1.4	< 0.7	< 0.7	< 0.70	< 0.70	< 0.70	< 0.72	< 0.60	< 0.12
1,2-Dibromoethane	0.005	0.05	< 1.8	< 1.8	< 1.8	< 3.6	< 1.8	< 1.8	< 1.8	< 1.8	< 1.8	< 0.77	< 1.3	< 0.26
1,2-Dichlorobenzene	60	600	< 1.4	< 1.4	< 1.4	< 2.7	< 1.4	< 1.4	< 1.4	< 1.4	< 1.4	< 0.67	< 0.76	< 0.15
1,2-Dichloropropane	0.5	5	< 1	< 1	< 1	< 2	< 1	< 1	< 1.0	< 1.0	< 1.0	< 0.86	< 1.0	< 0.2
1,2,3-Trichlorobenzene	NE	NE	< 1.2	< 1.2	< 1.2	< 2.4	< 1.2	< 1.2	< 1.2	< 1.2	< 1.2	< 0.92	< 0.45	< 0.09
1,2,4-Trichlorobenzene	14	70	< 1.6	< 1.6	< 1.6	< 3.1	< 1.6	< 1.6	< 1.6	< 1.6	< 1.6	< 0.68	< 0.77	< 0.15
1,3,5-Trimethylbenzene	96	480	< 0.9	< 0.9	< 0.9	< 1.8	< 0.9	< 0.9	< 0.90	< 0.90	< 0.90	< 0.51	< 0.75	< 0.15
2-Butanone	800	4000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 30	< 6
2-Hexanone	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 9.5	< 1.9
4-Methyl-2-pentanone	50	500	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 7.7	< 1.5
Acetone	1800	9000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 34	< 6.8
Benzene	0.5	5	< 0.37	***1.1 J***	< 0.37	< 0.74	< 0.37	< 0.37	< 0.37	< 0.37	< 0.37	< 0.29	< 0.89	< 0.18
Bromodichloromethane	0.06	0.6	< 0.85	< 0.85	< 0.85	< 1.7	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85	< 0.74	< 0.77	< 0.15
Bromoform	0.44	4.4	< 1.4	< 1.4	< 1.4	< 2.8	< 1.4	< 1.4	< 1.4	< 1.4	< 1.4	< 0.97	< 0.88	< 0.18
Bromomethane	1	10	< 1.6	< 1.6	< 1.6	< 3.1	< 1.6	< 1.6	< 1.6	< 1.6 *	< 1.6	< 1.6	< 5.9	< 1.2
Carbon disulfide	200	1000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.53	< 0.11
Carbon tetrachloride	0.5	5	< 1.3	< 1.3	< 1.3	< 2.6	< 1.3	< 1.3	< 1.3	< 1.3	< 1.3	< 0.77	< 0.38	< 0.076
Chloroform	0.6	6	< 1	< 1	< 1	< 2	< 1	< 1	< 1.0	< 1.0	< 1.0	< 0.74	< 0.62	0.18 J
Chloromethane	3	30	< 0.9	< 0.9	< 0.9	< 1.8	< 0.9	< 0.9	< 0.90	< 0.90	< 0.90	< 0.64	***4.7 BJ***	< 0.32
cis-1,2-Dichloroethene	7	70	***3500***	***3100***	***2900***	***3200***	***2300***	***1500***	***1300***	***810***	***710***	***470***	***89***	***24***
Dichlorodifluoromethane	200	1000	< 1	< 1	< 1	< 2	< 1	< 1	< 1.0	< 1.0	< 1.0	< 1.1	< 1.1	< 0.22
Ethylbenzene	140	700	< 0.65	< 0.65	< 0.65	< 1.3	< 0.65	< 0.65	< 0.65	< 0.65	< 0.65	< 0.37	< 0.54	< 0.11
Isopropylbenzene	NE	NE	< 0.7	< 0.7	< 0.7	< 1.4	< 0.7	< 0.7	< 0.70	< 0.70	< 0.70	< 0.77	< 0.81	< 0.16
m,p-Xylene	400	2000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.57	< 0.11
Methyl tert-butyl ether	12	60	< 1.2	< 1.2	< 1.2	< 2.4	< 1.2	< 1.2	< 1.2	< 1.2	< 1.2	< 0.79	< 1.4	< 0.28
Methylene chloride	0.5	5	< 3.4	< 3.4	< 3.4	< 6.8	< 3.4	< 3.4	< 3.4	< 3.4	< 3.4	< 3.3	< 1.4	< 0.28
Naphthalene	10	100	< 0.8	< 0.8	< 0.8	< 1.6	< 0.8	< 0.8	< 0.80	< 0.80	< 0.80	< 0.67	< 0.88	< 0.18
n-Butylbenzene	NE	NE	< 0.65	< 0.65	< 0.65	< 1.3	< 0.65	< 0.65	< 0.65	< 0.65	< 0.65	< 0.78	< 1.4	< 0.28
n-Hexane	120	600	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 2.1	< 0.42
n-Propylbenzene	NE	NE	< 0.65	< 0.65	< 0.65	< 1.3	< 0.65	< 0.65	< 0.65	< 0.65	< 0.65	< 0.83	< 1.0	< 0.2
o-Xylene	400	2000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.58	< 0.12
p-Isopropyltoluene	NE	NE	< 0.85	< 0.85	< 0.85	< 1.7	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85	< 0.72	< 0.85	< 0.17
sec-Butylbenzene	NE	NE	< 0.75	< 0.75	< 0.75	< 1.5	< 0.75	< 0.75	< 0.75	< 0.75	< 0.75	< 0.80	< 1.3	< 0.26
Styrene	10	100	< 0.5	< 0.5	< 0.5	< 1	< 0.5	< 0.5	< 0.50	< 0.50	< 0.50	< 0.77	< 0.65	< 0.13
tert-Butylbenzene	NE	NE	< 0.7	< 0.7	< 0.7	< 1.4	< 0.7	< 0.7	< 0.70	< 0.70	< 0.70	< 0.80	< 1.2	< 0.24
Tetrachloroethene	0.5	5	***3800***	***4300***	***2900***	***3800***	***2800***	***2000***	***1600***	***1600***	***1200***	***970***	***270***	***84***
Toluene	160	800	< 0.55	< 0.55	< 0.55	< 1.1	< 0.55	< 0.55	< 0.55	< 0.55	< 0.55	< 0.30	< 0.53	< 0.11
trans-1,2-Dichloroethene	20	100	***60***	***56***	***48***	***52***	***37***	***27***	***23***	12	11	< 0.70	< 1.1	0.48 J
Trichloroethene	0.5	5	***1100***	***1000***	***800***	***940***	***630***	***510***	***440***	***260***	***270***	***180***	***55***	***18***
Vinyl chloride	0.02	0.2	***150***	***180***	***140***	***130***	***110***	***92***	***83***	***45***	***50***	< 0.41	***3.2 J***	***0.6 J***
Xylenes, Total	400	2000	< 0.34	< 0.34	< 0.34	< 0.68	< 0.34	< 0.34	< 0.34	< 0.34	< 0.34	< 0.44	< 0.58	< 0.23
Total PCBs														
Aroclor-1016	0.003	0.03	< 0.16	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1232	0.003	0.03	< 0.085	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1242	0.003	0.03	< 0.12	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1248	0.003	0.03	< 0.1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Detected PCBs	0.003	0.03	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dissolved PCBs														
Aroclor-1016	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1232	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1242	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1248	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Detected PCBs	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Solids														
Total Dissolved Solids	NE	NE	1100	1100	1000	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Suspended Solids (TSS)	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

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Table 18
Groundwater Analytical Results Summary
Madison-Kipp Corporation
Madison, Wisconsin

WELL ID			MP-13	MP-13	MP-13	MP-13[3]	MP-13	MP-13[3]	MP-13	MP-13[3]	MP-13	MP-13[3]	MP-13	MP-13[3]	MP-13	MP-13[3]	MP-13	MP-13	MP-13[3]	MP-13	MP-13
SCREEN INTERVAL (feet bgs)	PREVENTIVE	ENFORCEMENT	81 - 85 ft	81 - 85 ft	81 - 85 ft	81 - 85 ft	81 - 85 ft	81 - 85 ft	81 - 85 ft	81 - 85 ft	81 - 85 ft	81 - 85 ft	81 - 85 ft	81 - 85 ft	81 - 85 ft	81 - 85 ft	81 - 85 ft	81 - 85 ft	81 - 85 ft	81 - 85 ft	81 - 85 ft
SAMPLE DATE	ACTION LIMIT	STANDARD	12/06/2012	12/12/2012	01/19/2013	01/19/2013	02/21/2013	02/21/2013	04/17/2013	04/17/2013	07/22/2013	07/22/2013	10/07/2013	10/07/2013	04/16/2014	04/16/2014	10/14/2014	04/14/2015	04/14/2015	10/16/2015	10/16/2015	10/10/2016	10/03/2017
VOCs																							
1,1,1,2-Tetrachloroethane	7	70	< 2.5	NA	4.8 J	4.1 J	4.5 J	4.8 J	< 5	< 2.5	< 2.5	< 2.5	< 1.3	< 1.3	< 2.5	< 5.0	< 2.5	< 2.5	< 2.5	< 9.2	< 9.2	< 22	< 11
1,1,1-Trichloroethane	40	200	< 2	NA	< 2	< 2	< 1	< 1	< 4	< 2	< 2	< 2	< 1	< 1	< 2.0	< 4.0	< 2.0	< 2.0	< 2.0	< 7.6	< 7.6	< 20	< 10
1,1,2-Trichloroethane	0.5	5	< 2.8	NA	< 2.8	< 2.8	< 1.4	< 1.4	< 5.6	< 2.8	< 2.8	< 2.8	< 1.4	< 1.4	< 2.8	< 5.6	< 2.8	< 2.8	< 2.8	< 7.0	< 7.0	< 20	< 10
1,1-Dichloroethene	0.7	7	< 3.1	NA	< 3.1	***4.2 J***	***4.2 J***	***3.5 J***	< 6.2	< 3.1	< 3.1	< 3.1	< 1.6	< 1.6	< 3.1	< 6.2	< 3.1	< 3.1	< 3.1	< 7.8	< 7.8	< 28	< 14
1,2,4-Trimethylbenzene	96	480	< 1.4	NA	< 1.4	< 1.4	< 0.7	< 0.7	< 2.8	< 1.4	< 1.4	< 1.4	< 0.7	< 0.7	< 1.4	< 2.8	< 1.4	< 1.4	< 1.4	< 7.2	< 7.2	< 12	< 6
1,2-Dibromoethane	0.005	0.05	< 3.6	NA	< 3.6	< 3.6	< 1.8	< 1.8	< 7.2	< 3.6	< 3.6	< 3.6	< 1.8	< 1.8	< 3.6	< 7.2	< 3.6	< 3.6	< 3.6	< 7.7	< 7.7	< 26	< 13
1,2-Dichlorobenzene	60	600	< 2.7	NA	< 2.7	< 2.7	< 1.4	< 1.4	< 5.4	< 2.7	< 2.7	< 2.7	< 1.4	< 1.4	< 2.7	< 5.4	< 2.7	< 2.7	< 2.7	< 6.7	< 6.7	< 15	< 7.6
1,2-Dichloropropane	0.5	5	< 2	NA	< 2	< 2	< 1	< 1	< 4	< 2	< 2	< 2	< 1	< 1	< 2.0	< 4.0	< 2.0	< 2.0	< 2.0	< 8.6	< 8.6	< 20	< 10
1,2,3-Trichlorobenzene	NE	NE	< 2.4	NA	< 2.4	< 2.4	< 1.2	< 1.2	< 4.8	< 2.4	< 2.4	< 2.4	< 1.2	< 1.2	< 2.4	< 4.8	< 2.4	< 2.4	< 2.4	< 9.2	< 9.2	< 9.0	< 4.5
1,2,4-Trichlorobenzene	14	70	< 3.1	NA	< 3.1	< 3.1	< 1.6	< 1.6	< 6.2	< 3.1	< 3.1	< 3.1	< 1.6	< 1.6	< 3.1	< 6.2	< 3.1	< 3.1	< 3.1	< 6.8	< 6.8	< 15	< 7.7
1,3,5-Trimethylbenzene	96	480	< 1.8	NA	< 1.8	< 1.8	< 0.9	< 0.9	< 3.6	< 1.8	< 1.8	< 1.8	< 0.9	< 0.9	< 1.8	< 3.6	< 1.8	< 1.8	< 1.8	< 5.1	< 5.1	< 15	< 7.5
2-Butanone	800	4000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 600	< 300
2-Hexanone	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 190	< 95
4-Methyl-2-pentanone	50	500	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 150	< 77
Acetone	1800	9000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 680	500 J
Benzene	0.5	5	< 0.74	NA	< 0.74	< 0.74	< 0.37	< 0.37	< 1.5	< 0.74	< 0.74	< 0.74	< 0.37	< 0.37	< 0.74	< 1.5	< 0.74	< 0.74	< 0.74	< 2.9	< 2.9	< 18	< 8.9
Bromodichloromethane	0.06	0.6	< 1.7	NA	< 1.7	< 1.7	< 0.85	< 0.85	< 3.4	< 1.7	< 1.7	< 1.7	< 0.85	< 0.85	< 1.7	< 3.4	< 1.7	< 1.7	< 1.7	< 7.4	< 7.4	< 15	< 7.7
Bromoform	0.44	4.4	< 2.8	NA	< 2.8	< 2.8	< 1.4	< 1.4	< 5.6	< 2.8	< 2.8	< 2.8	< 1.4	< 1.4	< 2.8	< 5.6	< 2.8	< 2.8	< 2.8	< 9.7	< 9.7	< 18	< 8.8
Bromomethane	1	10	< 3.1	NA	< 3.1	< 3.1	< 1.6	< 1.6	< 6.2	< 3.1	< 3.1	< 3.1	< 1.6	< 1.6	< 3.1	< 6.2	< 3.1 *	< 3.1	< 3.1	< 16	< 16	< 120	< 59
Carbon disulfide	200	1000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 11	< 5.3
Carbon tetrachloride	0.5	5	< 2.6	NA	< 2.6	< 2.6	< 1.3	< 1.3	< 5.2	< 2.6	< 2.6	< 2.6	< 1.3	< 1.3	< 2.6	< 5.2	< 2.6	< 2.6	< 2.6	< 7.7	< 7.7	< 7.6	< 3.8
Chloroform	0.6	6	< 2	NA	< 2	< 2	< 1	< 1	< 4	< 2	< 2	< 2	< 1	< 1	< 2.0	< 4.0	< 2.0	< 2.0	< 2.0	< 7.4	< 7.4	< 12	< 6.2
Chloromethane	3	30	< 1.8	NA	< 1.8	< 1.8	< 0.9	< 0.9	< 3.6	< 1.8	< 1.8	< 1.8	< 0.9	< 0.9	< 1.8	< 3.6	< 1.8	< 1.8	< 1.8	< 6.4	< 6.4	< 32	< 16
cis-1,2-Dichloroethene	7	70	***1900***	NA	***1800***	***1800***	***2100***	***2300***	***2700***	***2400***	***1700***	***1800***	***1200***	***1200***	***2200***	***2400***	***1700***	***1600***	***2000***	***1900***	***1800***	***930***	***670***
Dichlorodifluoromethane	200	1000	< 2	NA	< 2	< 2	< 1	< 1	< 4	< 2	< 2	< 2	< 1	< 1	< 2.0	< 4.0	< 2.0	< 2.0	< 2.0	< 11	< 11	< 22	< 11
Ethylbenzene	140	700	< 1.3	NA	< 1.3	< 1.3	< 0.65	< 0.65	< 2.6	< 1.3	< 1.3	< 1.3	< 0.65	< 0.65	< 1.3	< 2.6	< 1.3	< 1.3	< 1.3	< 3.7	< 3.7	< 11	< 5.4
Isopropylbenzene	NE	NE	< 1.4	NA	< 1.4	< 1.4	< 0.7	< 0.7	< 2.8	< 1.4	< 1.4	< 1.4	< 0.7	< 0.7	< 1.4	< 2.8	< 1.4	< 1.4	< 1.4	< 7.7	< 7.7	< 16	< 8.1
m,p-Xylene	400	2000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 11	6 BJ
Methyl tert-butyl ether	12	60	< 2.4	NA	< 2.4	< 2.4	< 1.2	< 1.2	< 4.8	< 2.4	< 2.4	< 2.4	< 1.2	< 1.2	< 2.4	< 4.8	< 2.4	< 2.4	< 2.4	< 7.9	< 7.9	< 28	< 14
Methylene chloride	0.5	5	< 6.8	NA	< 6.8	< 6.8	< 3.4	< 3.4	< 14	< 6.8	< 6.8	< 6.8	< 3.4	< 3.4	< 6.8	< 14	< 6.8	< 6.8	< 6.8	< 33	< 33	< 28	< 14
Naphthalene	10	100	< 1.6	NA	< 1.6	< 1.6	< 0.8	< 0.8	< 3.2	< 1.6	< 1.6	< 1.6	< 0.8	< 0.8	< 1.6	< 3.2	< 1.6	< 1.6	< 1.6	< 6.7	< 6.7	< 18	< 8.8
n-Butylbenzene	NE	NE	< 1.3	NA	< 1.3	< 1.3	< 0.65	< 0.65	< 2.6	< 1.3	< 1.3	< 1.3	< 0.65	< 0.65	< 1.3	< 2.6	< 1.3	< 1.3	< 1.3	< 7.8	< 7.8	< 28	< 14
n-Hexane	120	600	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 42	< 21
n-Propylbenzene	NE	NE	< 1.3	NA	< 1.3	< 1.3	< 0.65	< 0.65	< 2.6	< 1.3	< 1.3	< 1.3	< 0.65	< 0.65	< 1.3	< 2.6	< 1.3	< 1.3	< 1.3	< 8.3	< 8.3	< 20	< 10
o-Xylene	400	2000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 12	< 5.8
p-Isopropyltoluene	NE	NE	< 1.7	NA	< 1.7	< 1.7	< 0.85	< 0.85	< 3.4	< 1.7	< 1.7	< 1.7	< 0.85	< 0.85	< 1.7	< 3.4	< 1.7	< 1.7	< 1.7	< 7.2	< 7.2	< 17	< 8.5
sec-Butylbenzene	NE	NE	< 1.5	NA	< 1.5	< 1.5	< 0.75	< 0.75	< 3	< 1.5	< 1.5	< 1.5	< 0.75	< 0.75	< 1.5	< 3.0	< 1.5	< 1.5	< 1.5	< 8.0	< 8.0	< 26	< 13
Styrene	10	100	< 1	NA	< 1	< 1	< 0.5	< 0.5	< 2	< 1	< 1	< 1	< 0.5	< 0.5	< 1.0	< 2.0	< 1.0	< 1.0	< 1.0	< 7.7	< 7.7	< 13	< 6.5
tert-Butylbenzene	NE	NE	< 1.4	NA	< 1.4	< 1.4	< 0.7	< 0.7	< 2.8	< 1.4	< 1.4	< 1.4	< 0.7	< 0.7	< 1.4	< 2.8	< 1.4	< 1.4	< 1.4	< 8.0	< 8.0	< 24	< 12
Tetrachloroethene	0.5	5	***5600***	NA	***6800***	***7400***	***7000***	***7100***	***7900***	***7000***	***6800***	***6300***	***5400***	***5200***	***7900***	***7800***	***8000***	***6700***	***11000***	***9700***	***9200***	***4800***	***3200***
Toluene	160	800	< 1.1	NA	< 1.1	< 1.1	< 0.55	< 0.55	< 2.2	< 1.1	< 1.1	< 1.1	< 0.55	< 0.55	< 1.1	< 2.2	< 1.1	< 1.1	< 1.1	< 3.0	< 3.0	< 11	< 5.3
trans-1,2-Dichloroethene	20	100	***29***	NA	***38***	***37***	***38***	***40***	***48***	***35***	***29***	***31***	19	19	***39***	***41***	***25***	***27***	***34***	< 7.0	< 7.0	< 22	12 J
Trichloroethene	0.5	5	***940***	NA	***1100***	***1000***	***1100***	***1000***	***1200***	***940***	***900***	***900***	***660***	***640***	***1100***	***1100***	***730***	***780***	***980***	***960***	***870***	***500***	***390***
Vinyl chloride	0.02	0.2	***64***	NA	***120***	***110***	***110***	***110***	***99***	***71***	***75***	***75***	***48***	***48***	***87***	***95***	***55***	***72***	***89***	***110***	***92***	***52 J***	***54***
Xylenes, Total	400	2000	< 0.68	NA	< 0.68	< 0.68	< 0.34	< 0.34	< 1.4	< 0.68	< 0.68	< 0.68	< 0.34	< 0.34	< 0.68	< 1.4	< 0.68	< 0.68	< 0.68	< 4.4	< 4.4	< 12	< 12
Total PCBs																							
Aroclor-1016	0.003	0.03	< 0.15	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1232	0.003	0.03	< 0.083	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1242	0.003	0.03	< 0.12	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1248	0.003	0.03	< 0.099	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Detected PCBs	0.003	0.03	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dissolved PCBs																							
Aroclor-1016	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1232	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1242	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1248	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Detected PCBs	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Solids																							
Total Dissolved Solids	NE	NE	990	950	910	NA	980	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Suspended Solids (TSS)	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

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Table 18
Groundwater Analytical Results Summary
Madison-Kipp Corporation
Madison, Wisconsin

WELL ID SCREEN INTERVAL (feet bgs) SAMPLE DATE	PREVENTIVE ACTION LIMIT	ENFORCEMENT STANDARD	MP-13 102 - 106 ft 12/04/2012	MP-13 102 - 106 ft 01/18/2013	MP-13 102 - 106 ft 02/21/2013	MP-13 102 - 106 ft 04/17/2013	MP-13 102 - 106 ft 07/22/2013	MP-13 102 - 106 ft 10/07/2013	MP-13 102 - 106 ft 04/16/2014	MP-13 102 - 106 ft 10/14/2014	MP-13 102 - 106 ft 04/14/2015	MP-13 102 - 106 ft 10/16/2015	MP-13 102 - 106 ft 10/10/2016	MP-13 102 - 106 ft 10/03/2017
VOCs														
1,1,1,2-Tetrachloroethane	7	70	< 1.3	< 0.5	< 0.5	< 1.3	< 1.3	< 1.3	< 1.3	< 1.3	< 1.3	< 4.6	< 2.2	< 2.8
1,1,1-Trichloroethane	40	200	< 1	< 0.4	< 0.4	< 1	< 1	< 1	< 1.0	< 1.0	< 1.0	< 3.8	< 2.0	< 2.5
1,1,2-Trichloroethane	0.5	5	< 1.4	< 0.56	< 0.56	< 1.4	< 1.4	< 1.4	< 1.4	< 1.4	< 1.4	< 3.5	< 2.0	< 2.5
1,1-Dichloroethene	0.7	7	< 1.6	< 0.62	< 0.62	< 1.6	< 1.6	< 1.6	< 1.6	< 1.6	< 1.6	< 3.9	< 2.8	< 3.5
1,2,4-Trimethylbenzene	96	480	< 0.7	< 0.28	< 0.28	< 0.7	< 0.7	< 0.7	< 0.70	< 0.70	< 0.70	< 3.6	< 1.2	< 1.5
1,2-Dibromoethane	0.005	0.05	< 1.8	< 0.72	< 0.72	< 1.8	< 1.8	< 1.8	< 1.8	< 1.8	< 1.8	< 3.9	< 2.6	< 3.3
1,2-Dichlorobenzene	60	600	< 1.4	< 0.54	< 0.54	< 1.4	< 1.4	< 1.4	< 1.4	< 1.4	< 1.4	< 3.3	< 1.5	< 1.9
1,2-Dichloropropane	0.5	5	< 1	< 0.4	< 0.4	< 1	< 1	< 1	< 1.0	< 1.0	< 1.0	< 4.3	< 2.0	< 2.5
1,2,3-Trichlorobenzene	NE	NE	< 1.2	< 0.48	< 0.48	< 1.2	< 1.2	< 1.2	< 1.2	< 1.2	< 1.2	< 4.6	< 0.90	< 1.1
1,2,4-Trichlorobenzene	14	70	< 1.6	< 0.62	< 0.62	< 1.6	< 1.6	< 1.6	< 1.6	< 1.6	< 1.6	< 3.4	< 1.5	< 1.9
1,3,5-Trimethylbenzene	96	480	< 0.9	< 0.36	< 0.36	< 0.9	< 0.9	< 0.9	< 0.90	< 0.90	< 0.90	< 2.5	< 1.5	< 1.9
2-Butanone	800	4000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 60	< 75
2-Hexanone	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 19	< 24
4-Methyl-2-pentanone	50	500	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 15	< 19
Acetone	1800	9000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 68	< 85
Benzene	0.5	5	< 0.37	< 0.15	< 0.15	< 0.37	< 0.37	< 0.37	< 0.37	< 0.37	< 0.37	< 1.5	< 1.8	< 2.2
Bromodichloromethane	0.06	0.6	< 0.85	< 0.34	< 0.34	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85	< 3.7	< 1.5	< 1.9
Bromoform	0.44	4.4	< 1.4	< 0.56	< 0.56	< 1.4	< 1.4	< 1.4	< 1.4	< 1.4	< 1.4	< 4.8	< 1.8	< 2.2
Bromomethane	1	10	< 1.6	< 0.62	< 0.62	< 1.6	< 1.6	< 1.6	< 1.6	< 1.6 *	< 1.6	< 8.0	< 12	< 15
Carbon disulfide	200	1000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 1.1	< 1.3
Carbon tetrachloride	0.5	5	< 1.3	< 0.52	< 0.52	< 1.3	< 1.3	< 1.3	< 1.3	< 1.3	< 1.3	< 3.8	< 0.76	< 0.95
Chloroform	0.6	6	< 1	< 0.4	< 0.4	< 1	< 1	< 1	< 1.0	< 1.0	< 1.0	< 3.7	< 1.2	< 1.6
Chloromethane	3	30	< 0.9	< 0.36	< 0.36	< 0.9	< 0.9	< 0.9	< 0.90	< 0.90	< 0.90	< 3.2	***9.8 BJ***	< 4
cis-1,2-Dichloroethene	7	70	***1100***	***690***	***520***	***720***	***660***	***600***	***770***	***730***	***980***	***1100***	***200***	***350***
Dichlorodifluoromethane	200	1000	< 1	< 0.4	< 0.4	< 1	< 1	< 1	< 1.0	< 1.0	< 1.0	< 5.4	< 2.2	< 2.8
Ethylbenzene	140	700	< 0.65	< 0.26	< 0.26	< 0.65	< 0.65	< 0.65	< 0.65	< 0.65	< 0.65	< 1.8	< 1.1	< 1.4
Isopropylbenzene	NE	NE	< 0.7	< 0.28	< 0.28	< 0.7	< 0.7	< 0.7	< 0.70	< 0.70	< 0.70	< 3.9	< 1.6	< 2
m,p-Xylene	400	2000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 1.1	< 1.4
Methyl tert-butyl ether	12	60	< 1.2	< 0.48	< 0.48	< 1.2	< 1.2	< 1.2	< 1.2	< 1.2	< 1.2	< 3.9	< 2.8	< 3.5
Methylene chloride	0.5	5	< 3.4	< 1.4	< 1.4	< 3.4	< 3.4	< 3.4	< 3.4	< 3.4	< 3.4	< 16	< 2.8	< 3.5
Naphthalene	10	100	< 0.8	< 0.32	< 0.32	< 0.8	< 0.8	< 0.8	< 0.80	< 0.80	< 0.80	< 3.4	< 1.8	< 2.2
n-Butylbenzene	NE	NE	< 0.65	< 0.26	< 0.26	< 0.65	< 0.65	< 0.65	< 0.65	< 0.65	< 0.65	< 3.9	< 2.8	< 3.5
n-Hexane	120	600	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 4.2	< 5.3
n-Propylbenzene	NE	NE	< 0.65	< 0.26	< 0.26	< 0.65	< 0.65	< 0.65	< 0.65	< 0.65	< 0.65	< 4.1	< 2.0	< 2.5
o-Xylene	400	2000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 1.2	< 1.5
p-Isopropyltoluene	NE	NE	< 0.85	< 0.34	< 0.34	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85	< 3.6	< 1.7	< 2.1
sec-Butylbenzene	NE	NE	< 0.75	< 0.3	< 0.3	< 0.75	< 0.75	< 0.75	< 0.75	< 0.75	< 0.75	< 4.0	< 2.6	< 3.3
Styrene	10	100	< 0.5	< 0.2	< 0.2	< 0.5	< 0.5	< 0.5	< 0.50	< 0.50	< 0.50	< 3.9	< 1.3	1.8 BJ
tert-Butylbenzene	NE	NE	< 0.7	< 0.28	< 0.28	< 0.7	< 0.7	< 0.7	< 0.70	< 0.70	< 0.70	< 4.0	< 2.4	< 3
Tetrachloroethene	0.5	5	***1800***	***1100***	***670***	***1400***	***1500***	***1900***	***1600***	***2000***	***2100***	***4600***	***870***	***970***
Toluene	160	800	< 0.55	< 0.22	< 0.22	< 0.55	< 0.55	< 0.55	< 0.55	< 0.55	< 0.55	< 1.5	< 1.1	< 1.3
trans-1,2-Dichloroethene	20	100	15	9.5	4.8	6.6	6.0	7.0	9.8	8.1	13	< 3.5	3.2 J	7.3 J
Trichloroethene	0.5	5	***440***	***330***	***270***	***500***	***450***	***490***	***580***	***530***	***680***	***930***	***230***	***230***
Vinyl chloride	0.02	0.2	***33***	***23***	***13***	***20***	***19***	***20***	***23***	***22***	***41***	***44***	< 3.2	< 4
Xylenes, Total	400	2000	< 0.34	< 0.14	< 0.14	< 0.34	< 0.34	< 0.34	< 0.34	< 0.34	< 0.34	< 2.2	< 1.2	< 2.9
Total PCBs														
Aroclor-1016	0.003	0.03	< 0.15	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1232	0.003	0.03	< 0.083	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1242	0.003	0.03	< 0.12	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1248	0.003	0.03	< 0.099	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Detected PCBs	0.003	0.03	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dissolved PCBs														
Aroclor-1016	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1232	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1242	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1248	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Detected PCBs	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Solids														
Total Dissolved Solids	NE	NE	1100	970	960	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Suspended Solids (TSS)	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

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Table 18
Groundwater Analytical Results Summary
Madison-Kipp Corporation
Madison, Wisconsin

WELL ID SCREEN INTERVAL (feet bgs) SAMPLE DATE	PREVENTIVE ACTION LIMIT	ENFORCEMENT STANDARD	MP-13 121 - 125 ft 12/04/2012	MP-13[3] 121 - 125 ft 12/04/2012	MP-13 121 - 125 ft 01/18/2013	MP-13 121 - 125 ft 02/20/2013	MP-13 121 - 125 ft 04/17/2013	MP-13 121 - 125 ft 07/22/2013	MP-13 121 - 125 ft 10/07/2013	MP-13 121 - 125 ft 04/16/2014	MP-13 121 - 125 ft 10/14/2014	MP-13 121 - 125 ft 04/14/2015	MP-13 121 - 125 ft 10/16/2015	MP-13 121 - 125 ft 10/10/2016	MP-13 121 - 125 ft 10/03/2017
VOCs															
1,1,1,2-Tetrachloroethane	7	70	< 0.5	< 1.3	< 1.3	NA	< 5	< 2.5	1.1	< 5.0	< 2.5	< 2.5	< 9.2	< 11	< 5.5
1,1,1-Trichloroethane	40	200	< 0.4	< 1	< 1	NA	< 4	< 2	< 0.2	< 4.0	< 2.0	< 2.0	< 7.6	< 10	< 5
1,1,2-Trichloroethane	0.5	5	< 0.56	< 1.4	< 1.4	NA	< 5.6	< 2.8	< 0.28	< 5.6	< 2.8	< 2.8	< 7.0	< 10	< 5
1,1-Dichloroethene	0.7	7	< 0.62	< 1.6	< 1.6	NA	< 6.2	< 3.1	< 0.31	< 6.2	< 3.1	< 3.1	< 7.8	< 14	< 7
1,2,4-Trimethylbenzene	96	480	< 0.28	< 0.7	< 0.7	NA	< 2.8	< 1.4	< 0.14	< 2.8	< 1.4	< 1.4	< 7.2	< 6.0	< 3
1,2-Dibromoethane	0.005	0.05	< 0.72	< 1.8	< 1.8	NA	< 7.2	< 3.6	< 0.36	< 7.2	< 3.6	< 3.6	< 7.7	< 13	< 6.5
1,2-Dichlorobenzene	60	600	< 0.54	< 1.4	< 1.4	NA	< 5.4	< 2.7	< 0.27	< 5.4	< 2.7	< 2.7	< 6.7	< 7.6	< 3.8
1,2-Dichloropropane	0.5	5	< 0.4	< 1	< 1	NA	< 4	< 2	< 0.2	< 4.0	< 2.0	< 2.0	< 8.6	< 10	< 5
1,2,3-Trichlorobenzene	NE	NE	< 0.48	< 1.2	< 1.2	NA	< 4.8	< 2.4	< 0.24	< 4.8	< 2.4	< 2.4	< 9.2	< 4.5	< 2.3
1,2,4-Trichlorobenzene	14	70	< 0.62	< 1.6	< 1.6	NA	< 6.2	< 3.1	< 0.31	< 6.2	< 3.1	< 3.1	< 6.8	< 7.7	< 3.9
1,3,5-Trimethylbenzene	96	480	< 0.36	< 0.9	< 0.9	NA	< 3.6	< 1.8	< 0.18	< 3.6	< 1.8	< 1.8	< 5.1	< 7.5	< 3.8
2-Butanone	800	4000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 300	< 150
2-Hexanone	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 95	< 48
4-Methyl-2-pentanone	50	500	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 77	< 39
Acetone	1800	9000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 340	280 BJ
Benzene	0.5	5	< 0.15	< 0.37	< 0.37	NA	< 1.5	< 0.74	0.29 J	< 1.5	< 0.74	< 0.74	< 2.9	< 8.9	< 4.5
Bromodichloromethane	0.06	0.6	< 0.34	< 0.85	< 0.85	NA	< 3.4	< 1.7	< 0.17	< 3.4	< 1.7	< 1.7	< 7.4	< 7.7	< 3.9
Bromoform	0.44	4.4	< 0.56	< 1.4	< 1.4	NA	< 5.6	< 2.8	< 0.28	< 5.6	< 2.8	< 2.8	< 9.7	< 8.8	< 4.4
Bromomethane	1	10	< 0.62	< 1.6	< 1.6	NA	< 6.2	< 3.1	< 0.31	< 6.2	< 3.1 *	< 3.1	< 16	< 59	< 30
Carbon disulfide	200	1000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 5.3	< 2.7
Carbon tetrachloride	0.5	5	< 0.52	< 1.3	< 1.3	NA	< 5.2	< 2.6	< 0.26	< 5.2	< 2.6	< 2.6	< 7.7	< 3.8	< 1.9
Chloroform	0.6	6	< 0.4	< 1	< 1	NA	< 4	< 2	< 0.2	< 4.0	< 2.0	< 2.0	< 7.4	< 6.2	< 3.1
Chloromethane	3	30	< 0.36	< 0.9	< 0.9	NA	< 3.6	< 1.8	< 0.18	< 3.6	< 1.8	< 1.8	< 6.4	***49 BJ***	***9.5 J+***
cis-1,2-Dichloroethene	7	70	***910***	***970***	***1000***	NA	***930***	***760***	***650***	***720***	***630***	***690***	***820***	***200***	***240***
Dichlorodifluoromethane	200	1000	< 0.4	< 1	< 1	NA	< 4	< 2	< 0.2	< 4.0	< 2.0	< 2.0	< 11	< 11	< 5.5
Ethylbenzene	140	700	< 0.26	< 0.65	< 0.65	NA	< 2.6	< 1.3	< 0.13	< 2.6	< 1.3	< 1.3	< 3.7	< 5.4	< 2.7
Isopropylbenzene	NE	NE	< 0.28	< 0.7	< 0.7	NA	< 2.8	< 1.4	< 0.14	< 2.8	< 1.4	< 1.4	< 7.7	< 8.1	< 4.1
m,p-Xylene	400	2000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 5.7	3 BJ
Methyl tert-butyl ether	12	60	< 0.48	< 1.2	< 1.2	NA	< 4.8	< 2.4	< 0.24	< 4.8	< 2.4	< 2.4	< 7.9	< 14	< 7
Methylene chloride	0.5	5	< 1.4	< 3.4	< 3.4	NA	< 14	< 6.8	< 0.68	< 14	< 6.8	< 6.8	< 33	< 14	< 7
Naphthalene	10	100	< 0.32	< 0.8	< 0.8	NA	< 3.2	< 1.6	< 0.16	< 3.2	< 1.6	< 1.6	< 6.7	< 8.8	< 4.4
n-Butylbenzene	NE	NE	< 0.26	< 0.65	< 0.65	NA	< 2.6	< 1.3	< 0.13	< 2.6	< 1.3	< 1.3	< 7.8	< 14	< 7
n-Hexane	120	600	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 21	< 11
n-Propylbenzene	NE	NE	< 0.26	< 0.65	< 0.65	NA	< 2.6	< 1.3	< 0.13	< 2.6	< 1.3	< 1.3	< 8.3	< 10	< 5
o-Xylene	400	2000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 5.8	< 2.9
p-Isopropyltoluene	NE	NE	< 0.34	< 0.85	< 0.85	NA	< 3.4	< 1.7	< 0.17	< 3.4	< 1.7	< 1.7	< 7.2	< 8.5	< 4.3
sec-Butylbenzene	NE	NE	< 0.3	< 0.75	< 0.75	NA	< 3	< 1.5	< 0.15	< 3.0	< 1.5	< 1.5	< 8.0	< 13	< 6.5
Styrene	10	100	< 0.2	< 0.5	< 0.5	NA	< 2	< 1	< 0.1	< 2.0	< 1.0	< 1.0	< 7.7	< 6.5	3.5 BJ
tert-Butylbenzene	NE	NE	< 0.28	< 0.7	< 0.7	NA	< 2.8	< 1.4	< 0.14	< 2.8	< 1.4	< 1.4	< 8.0	< 12	< 6
Tetrachloroethene	0.5	5	***1500***	***1500***	***2600***	NA	***7000***	***6300***	***6500***	***6700***	***4800***	***4300***	***12000***	***3100***	***3000***
Toluene	160	800	< 0.22	< 0.55	< 0.55	NA	< 2.2	< 1.1	< 0.11	< 2.2	< 1.1	< 1.1	< 3.0	9.0 J	< 2.7
trans-1,2-Dichloroethene	20	100	12	15	17	NA	12 J	12	9.7	10 J	6.7 J	< 2.5	< 7.0	< 11	6 J
Trichloroethene	0.5	5	***340***	***370***	***460***	NA	***600***	***510***	***550***	***710***	***520***	***640***	***1100***	***450***	***460***
Vinyl chloride	0.02	0.2	***36***	***37***	***54***	NA	***13***	***9.3***	***8.1***	***6.2 J***	< 1.0	***11***	< 4.1	< 16	< 8
Xylenes, Total	400	2000	< 0.14	< 0.34	< 0.34	NA	< 1.4	< 0.68	< 0.068	< 1.4	< 0.68	< 0.68	< 4.4	< 5.8	< 5.8
Total PCBs															
Aroclor-1016	0.003	0.03	< 0.15	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1232	0.003	0.03	< 0.084	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1242	0.003	0.03	< 0.12	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1248	0.003	0.03	< 0.1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Detected PCBs	0.003	0.03	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dissolved PCBs															
Aroclor-1016	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1232	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1242	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1248	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Detected PCBs	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Solids															
Total Dissolved Solids	NE	NE	1100	NA	1000	920	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Suspended Solids (TSS)	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

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Table 18
Groundwater Analytical Results Summary
Madison-Kipp Corporation
Madison, Wisconsin

WELL ID			MP-13	MP-13	MP-13	MP-13	MP-13	MP-13	MP-13	MP-13	MP-13	MP-13	MP-13	MP-13	MP-13	MP-13	MP-13	MP-13	MP-13	MP-13	MP-13	MP-13	MP-13	MP-13	MP-13
SCREEN INTERVAL (feet bgs)	PREVENTIVE	ENFORCEMENT	135 - 139 ft	135 - 139 ft	135 - 139 ft	135 - 139 ft	135 - 139 ft	135 - 139 ft	135 - 139 ft	135 - 139 ft	135 - 139 ft	135 - 139 ft	135 - 139 ft	135 - 139 ft	163 - 167 ft	163 - 167 ft	163 - 167 ft	163 - 167 ft	163 - 167 ft	163 - 167 ft	163 - 167 ft	163 - 167 ft	163 - 167 ft	163 - 167 ft	163 - 167 ft	163 - 167 ft
SAMPLE DATE	ACTION LIMIT	STANDARD	12/04/2012	01/17/2013	02/20/2013	04/17/2013	07/22/2013	10/07/2013	04/16/2014	10/14/2014	04/14/2015	10/16/2015	10/10/2016	10/03/2017	12/04/2012	01/16/2013	02/20/2013	04/17/2013	07/22/2013	10/07/2013	04/16/2014	10/14/2014	04/14/2015	10/16/2015	10/10/2016	10/03/2017
VOCs																									
1,1,1,2-Tetrachloroethane	7	70	< 0.5	< 1.3	NA	< 2.5	< 2.5	< 1.3	< 2.5	< 2.5	< 2.5	< 4.6	< 11	< 5.5	< 1.3	< 0.25	NA	< 0.5	< 0.25	< 0.25	< 0.50	< 0.50	< 0.25	< 0.46	< 0.22	< 0.11
1,1,1-Trichloroethane	40	200	< 0.4	< 1	NA	< 2	< 2	< 1	< 2.0	< 2.0	< 2.0	< 3.8	< 10	< 5	< 1	< 0.2	NA	< 0.4	< 0.2	< 0.2	< 0.40	< 0.40	< 0.20	< 0.38	< 0.20	< 0.1
1,1,2-Trichloroethane	0.5	5	< 0.56	< 1.4	NA	< 2.8	< 2.8	< 1.4	< 2.8	< 2.8	< 2.8	< 3.5	< 10	< 5	< 1.4	< 0.28	NA	< 0.56	< 0.28	< 0.28	< 0.56	< 0.56	< 0.28	< 0.35	< 0.20	< 0.1
1,1-Dichloroethene	0.7	7	***1.5 J***	< 1.6	NA	< 3.1	< 3.1	< 1.6	< 3.1	< 3.1	< 3.1	< 3.9	< 14	< 7	< 1.6	***0.97 J***	NA	< 0.62	< 0.31	< 0.31	< 0.62	< 0.62	< 0.31	< 0.39	< 0.28	< 0.14
1,2,4-Trimethylbenzene	96	480	< 0.28	< 0.7	NA	< 1.4	< 1.4	< 0.7	< 1.4	< 1.4	< 1.4	< 3.6	< 6.0	< 3	< 0.7	< 0.14	NA	< 0.28	< 0.14	< 0.14	< 0.28	< 0.28	< 0.14	< 0.36	< 0.12	< 0.06
1,2-Dibromoethane	0.005	0.05	< 0.72	< 1.8	NA	< 3.6	< 3.6	< 1.8	< 3.6	< 3.6	< 3.6	< 3.9	< 13	< 6.5	< 1.8	< 0.36	NA	< 0.72	< 0.36	< 0.36	< 0.72	< 0.72	< 0.36	< 0.39	< 0.26	< 0.13
1,2-Dichlorobenzene	60	600	< 0.54	< 1.4	NA	< 2.7	< 2.7	< 1.4	< 2.7	< 2.7	< 2.7	< 3.3	< 7.6	< 3.8	< 1.4	< 0.27	NA	< 0.54	< 0.27	< 0.27	< 0.54	< 0.54	< 0.27	< 0.33	< 0.15	< 0.076
1,2-Dichloropropane	0.5	5	< 0.4	< 1	NA	< 2	< 2	< 1	< 2.0	< 2.0	< 2.0	< 4.3	< 10	< 5	< 1	< 0.2	NA	< 0.4	< 0.2	< 0.2	< 0.40	< 0.40	< 0.20	< 0.43	< 0.20	< 0.1
1,2,3-Trichlorobenzene	NE	NE	< 0.48	< 1.2	NA	< 2.4	< 2.4	< 1.2	< 2.4	< 2.4	< 2.4	< 4.6	< 4.5	< 2.3	< 1.2	< 0.24	NA	< 0.48	< 0.24	< 0.24	< 0.48	< 0.48	< 0.24	< 0.46	< 0.090	< 0.045
1,2,4-Trichlorobenzene	14	70	< 0.62	< 1.6	NA	< 3.1	< 3.1	< 1.6	< 3.1	< 3.1	< 3.1	< 3.4	< 7.7	< 3.9	< 1.6	< 0.31	NA	< 0.62	< 0.31	< 0.31	< 0.62	< 0.62	< 0.31	< 0.34	< 0.15	< 0.077
1,3,5-Trimethylbenzene	96	480	< 0.36	< 0.9	NA	< 1.8	< 1.8	< 0.9	< 1.8	< 1.8	< 1.8	< 2.5	< 7.5	< 3.8	< 0.9	< 0.18	NA	< 0.36	< 0.18	< 0.18	< 0.36	< 0.36	< 0.18	< 0.25	< 0.15	< 0.075
2-Butanone	800	4000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 300	< 150	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 6.0	< 3
2-Hexanone	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 95	< 48	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 1.9	< 0.95
4-Methyl-2-pentanone	50	500	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 77	< 39	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 1.5	< 0.77
Acetone	1800	9000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 340	260 J	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 6.8	5.2 BJ
Benzene	0.5	5	0.41 J	***1.1 J***	NA	< 0.74	< 0.74	< 0.37	< 0.74	< 0.74	< 0.74	< 1.5	< 8.9	< 4.5	< 0.37	< 0.074	NA	< 0.15	< 0.074	< 0.074	< 0.15	< 0.15	< 0.074	< 0.15	< 0.18	< 0.089
Bromodichloromethane	0.06	0.6	< 0.34	< 0.85	NA	< 1.7	< 1.7	< 0.85	< 1.7	< 1.7	< 1.7	< 3.7	< 7.7	< 3.9	< 0.85	< 0.17	NA	< 0.34	< 0.17	< 0.17	< 0.34	< 0.34	< 0.17	< 0.37	< 0.15	< 0.077
Bromoform	0.44	4.4	< 0.56	< 1.4	NA	< 2.8	< 2.8	< 1.4	< 2.8	< 2.8	< 2.8	< 4.8	< 8.8	< 4.4	< 1.4	< 0.28	NA	< 0.56	< 0.28	< 0.28	< 0.56	< 0.56	< 0.28	< 0.48	< 0.18	< 0.088
Bromomethane	1	10	< 0.62	< 1.6	NA	< 3.1	< 3.1	< 1.6	< 3.1	< 3.1 *	< 3.1	< 8.0	< 59	< 30	< 1.6	< 0.31	NA	< 0.62	< 0.31	< 0.31	< 0.62	< 0.62 *	< 0.31	< 0.80	< 1.2	< 0.59
Carbon disulfide	200	1000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 5.3	< 2.7	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.11	< 0.053	
Carbon tetrachloride	0.5	5	< 0.52	< 1.3	NA	< 2.6	< 2.6	< 1.3	< 2.6	< 2.6	< 2.6	< 3.8	< 3.8	< 1.9	< 1.3	< 0.26	NA	< 0.52	< 0.26	< 0.26	< 0.52	< 0.52	< 0.26	< 0.38	< 0.076	< 0.038
Chloroform	0.6	6	< 0.4	< 1	NA	< 2	< 2	< 1	< 2.0	< 2.0	< 2.0	< 3.7	< 6.2	< 3.1	< 1	< 0.2	NA	< 0.4	< 0.2	< 0.2	< 0.40	< 0.40	< 0.20	< 0.37	< 0.12	< 0.062
Chloromethane	3	30	< 0.36	< 0.9	NA	< 1.8	< 1.8	< 0.9	< 1.8	< 1.8	< 1.8	< 3.2	***46 BJ***	***11 J+***	< 0.9	< 0.18	NA	< 0.36	< 0.18	< 0.18	< 0.36	< 0.36	< 0.18	< 0.32	0.76 BJ	0.46 J+
cis-1,2-Dichloroethene	7	70	***1100***	***910***	NA	***540***	***420***	***380***	***370***	***330***	***410***	***170***	***87***	***190***	***970***	***730***	NA	***460***	***200***	***170***	***180***	***160***	***150***	***33***	3.8	3.6
Dichlorodifluoromethane	200	1000	< 0.4	< 1	NA	< 2	< 2	< 1	< 2.0	< 2.0	< 2.0	< 5.4	< 11	< 5.5	< 1	< 0.2	NA	< 0.4	< 0.2	< 0.2	< 0.40	< 0.40	< 0.20	< 0.54	< 0.22	< 0.11
Ethylbenzene	140	700	< 0.26	< 0.65	NA	< 1.3	< 1.3	< 0.65	< 1.3	< 1.3	< 1.3	< 1.8	< 5.4	< 2.7	< 0.65	< 0.13	NA	< 0.26	< 0.13	< 0.13	< 0.26	< 0.26	< 0.13	< 0.18	< 0.11	< 0.054
Isopropylbenzene	NE	NE	< 0.28	< 0.7	NA	< 1.4	< 1.4	< 0.7	< 1.4	< 1.4	< 1.4	< 3.9	< 8.1	< 4.1	< 0.7	< 0.14	NA	< 0.28	< 0.14	< 0.14	< 0.28	< 0.28	< 0.14	< 0.39	< 0.16	< 0.081
m,p-Xylene	400	2000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 5.7	< 2.9	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.11	< 0.057
Methyl tert-butyl ether	12	60	< 0.48	< 1.2	NA	< 2.4	< 2.4	< 1.2	< 2.4	< 2.4	< 2.4	< 3.9	< 14	< 7	< 1.2	< 0.24	NA	< 0.48	< 0.24	< 0.24	< 0.48	< 0.48	< 0.24	< 0.39	< 0.28	< 0.14
Methylene chloride	0.5	5	< 1.4	< 3.4	NA	< 6.8	< 6.8	< 3.4	< 6.8	< 6.8	< 6.8	< 16	< 14	< 7	< 3.4	< 0.68	NA	< 1.4	< 0.68	< 0.68	< 1.4	< 1.4	< 0.68	< 1.6	< 0.28	< 0.14
Naphthalene	10	100	< 0.32	< 0.8	NA	< 1.6	< 1.6	< 0.8	< 1.6	< 1.6	< 1.6	< 3.4	< 8.8	< 4.4	< 0.8	< 0.16	NA	< 0.32	< 0.16	< 0.16	< 0.32	< 0.32	< 0.16	< 0.34	< 0.18	< 0.088
n-Butylbenzene	NE	NE	< 0.26	< 0.65	NA	< 1.3	< 1.3	< 0.65	< 1.3	< 1.3	< 1.3	< 3.9	< 14	< 7	< 0.65	< 0.13	NA	< 0.26	< 0.13	< 0.13	< 0.26	< 0.26	< 0.13	< 0.39	< 0.28	< 0.14
n-Hexane	120	600	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 21	< 11	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.42	< 0.21
n-Propylbenzene	NE	NE	< 0.26	< 0.65	NA	< 1.3	< 1.3	< 0.65	< 1.3	< 1.3	< 1.3	< 4.1	< 10	< 5	< 0.65	< 0.13	NA	< 0.26	< 0.13	< 0.13	< 0.26	< 0.26	< 0.13	< 0.41	< 0.20	< 0.1
o-Xylene	400	2000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 5.8	< 2.9	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.12	< 0.058
p-Isopropyltoluene	NE	NE	< 0.34	< 0.85	NA	< 1.7	< 1.7	< 0.85	< 1.7	< 1.7	< 1.7	< 3.6	< 8.5	< 4.3	< 0.85	< 0.17	NA	< 0.34	< 0.17	< 0.17	< 0.34	< 0.34	< 0.17	< 0.36	< 0.17	< 0.085
sec-Butylbenzene	NE	NE	< 0.3	< 0.75	NA	< 1.5	< 1.5	< 0.75	< 1.5	< 1.5	< 1.5	< 4.0	< 13	< 6.5	< 0.75	< 0.15	NA	< 0.3	< 0.15	< 0.15	< 0.30	< 0.30	< 0.15	< 0.40	< 0.26	< 0.13
Styrene	10	100	< 0.2	< 0.5	NA	< 1	< 1	< 0.5	< 1.0	< 1.0	< 1.0	< 3.9	< 6.5	3.5 BJ	< 0.5	< 0.1	NA	< 0.2	< 0.1	< 0.1	< 0.20	< 0.20	< 0.10	< 0.39	< 0.13	< 0.065
tert-Butylbenzene	NE	NE	< 0.28	< 0.7	NA	< 1.4	< 1.4	< 0.7	< 1.4	< 1.4	< 1.4	< 4.0	< 12	< 6	< 0.7	< 0.14	NA	< 0.28	< 0.14	< 0.14	< 0.28	< 0.28	< 0.14	< 0.40	< 0.24	< 0.12
Tetrachloroethene	0.5	5	***1900***	***2300***	NA	***3800***	***4200***	***6500***	***5200***	***6300***	***5700***	***5500***	***2000***	***4100***	***1400***	***930***	NA	***840***	***510***	***680***	***870***	***930***	***910***	***350***	***43***	***45***
Toluene	160	800	< 0.22	< 0.55	NA	< 1.1	< 1.1	< 0.55	< 1.1	< 1.1	< 1.1	< 1.5	8.0 J	< 2.7	< 0.55	< 0.11	NA	< 0.22	< 0.11	< 0.11	< 0.22	< 0.22	< 0.11	< 0.15	< 0.11	0.08 BJ
trans-1,2-Dichloroethene	20	100	17	15	NA	8.5 J	5.4 J	< 1.3	< 2.5	< 2.5	< 2.5	< 3.5	< 11	< 5.5	15	13	NA	7.5	3.3	2.6	3.3	1.9 J	1.9	< 0.35	< 0.22	< 0.11
Trichloroethene	0.5	5	***450***	***430***	NA	***310***	***260***	***310***	***320***	***270***	***370***	***210***	***100***	***250***	***370***	***250***	NA	***200***	***92***	***96***	***110***	***100***	***99***	***33***	***4.8***	***4.4***
Vinyl chloride	0.02	0.2	***50***	***42***	NA	***11***	***8.1***	***5.8***	***4.0 J***	***3.7 J***	***4.4 J***	< 2.0	< 16	< 8	***41***	***27***	NA	***6.8***	***0.74***	***0.72***	***0.56 J***	< 0.20	***1.1***	< 0.20	< 0.32	< 0.16
Xylenes, Total	400	2000	< 0.14	< 0.34	NA	< 0.68	< 0.68	< 0.34	< 0.68	< 0.68	< 0.68	< 2.2	< 5.8	< 5.8	< 0.34	< 0.068	NA	< 0.14	< 0.068	< 0.068	< 0.14	< 0.14	< 0.068	< 0.22	< 0.12	< 0.12
Total PCBs																									
Aroclor-1016	0.003	0.03	< 0.15	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.15	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1232	0.003	0.03	< 0.083	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.083	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1242	0.003	0.03	< 0.12	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.12	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1248	0.003	0.03	< 0.099	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.098	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Detected PCBs	0.003	0.03	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dissolved PCBs																									
Aroclor-1016	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1232	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1242	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1248	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Detected PCBs	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Solids																									
Total Dissolved Solids	NE	NE	1100	960	890	NA	NA	NA	NA	NA	NA	NA	NA	NA	1100	850	890	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Suspended Solids (TSS)	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Notes on Page 55.

Table 18
Groundwater Analytical Results Summary
Madison-Kipp Corporation
Madison, Wisconsin

WELL ID			MP-14	MP-14	MP-14	MP-14	MP-14	MP-14	MP-14	MP-14	MP-14	MP-14	MP-14	MP-14	MP-14	MP-14	MP-14	MP-14	MP-14	MP-14
SCREEN INTERVAL (feet bgs)	PREVENTIVE	ENFORCEMENT	70 - 75 ft	70 - 75 ft	70 - 75 ft	70 - 75 ft	70 - 75 ft	70 - 75 ft	70 - 75 ft	100 - 105 ft	100 - 105 ft	100 - 105 ft	100 - 105 ft	100 - 105 ft	100 - 105 ft	100 - 105 ft	100 - 105 ft	100 - 105 ft	100 - 105 ft	100 - 105 ft
SAMPLE DATE	ACTION LIMIT	STANDARD	01/21/2013	04/16/2013	07/16/2013	07/22/2013	10/08/2013	04/14/2014	10/17/2014	01/21/2013	04/16/2013	07/16/2013	07/22/2013	10/08/2013	04/14/2014	10/17/2014	04/13/2015	10/15/2015	10/11/2016	10/02/2017
VOCs																				
1,1,1,2-Tetrachloroethane	7	70	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.46	< 0.11	< 0.11
1,1,1-Trichloroethane	40	200	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.20	< 0.20	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.20	< 0.20	< 0.20	< 0.38	< 0.10	< 0.1
1,1,2-Trichloroethane	0.5	5	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.35	< 0.10	< 0.1
1,1-Dichloroethene	0.7	7	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.39	< 0.14	< 0.14
1,2,4-Trimethylbenzene	96	480	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.36	< 0.060	< 0.06
1,2-Dibromoethane	0.005	0.05	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36	< 0.39	< 0.13	< 0.13
1,2-Dichlorobenzene	60	600	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.33	< 0.076	< 0.076
1,2-Dichloropropane	0.5	5	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.20	< 0.20	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.20	< 0.20	< 0.20	< 0.43	< 0.10	< 0.1
1,2,3-Trichlorobenzene	NE	NE	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.46	< 0.045	< 0.045
1,2,4-Trichlorobenzene	14	70	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.34	< 0.077	< 0.077
1,3,5-Trimethylbenzene	96	480	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.25	< 0.075	< 0.075
2-Butanone	800	4000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 3.0	< 3
2-Hexanone	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.95	< 0.95
4-Methyl-2-pentanone	50	500	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.77	< 0.77
Acetone	1800	9000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 3.4	8.4 BJ
Benzene	0.5	5	< 0.074	< 0.074	< 0.074	< 0.074	< 0.074	< 0.074	< 0.074	< 0.074	< 0.074	< 0.074	< 0.074	< 0.074	< 0.074	< 0.074	< 0.074	< 0.15	< 0.089	< 0.089
Bromodichloromethane	0.06	0.6	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.37	< 0.077	< 0.077
Bromoform	0.44	4.4	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.48	< 0.088	< 0.088
Bromomethane	1	10	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31 *	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.80	< 0.59	< 0.59
Carbon disulfide	200	1000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.053	< 0.053
Carbon tetrachloride	0.5	5	< 0.26	< 0.26	< 0.26	< 0.26	< 0.26	< 0.26	< 0.26	< 0.26	< 0.26	< 0.26	< 0.26	< 0.26	< 0.26	< 0.26	< 0.26	< 0.38	< 0.038	< 0.038
Chloroform	0.6	6	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.20	< 0.20	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.20	< 0.20	< 0.20	< 0.37	< 0.062	< 0.062
Chloromethane	3	30	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.32	< 0.16	1.3 J
cis-1,2-Dichloroethene	7	70	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	< 0.41	< 0.11	< 0.11
Dichlorodifluoromethane	200	1000	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.20	< 0.20	< 0.2	< 0.2	< 0.2	0.72 J	< 0.2	< 0.20	< 0.20	< 0.20	< 0.54	< 0.11	< 0.11
Ethylbenzene	140	700	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.18	< 0.054	< 0.054
Isopropylbenzene	NE	NE	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.39	< 0.081	< 0.081
m,p-Xylene	400	2000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.057	< 0.057
Methyl tert-butyl ether	12	60	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24 *	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24 *	< 0.24	< 0.39	< 0.14	< 0.14
Methylene chloride	0.5	5	< 0.68	< 0.68	< 0.68	< 0.68	< 0.68	< 0.68	< 0.68	< 0.68	< 0.68	< 0.68	< 0.68	< 0.68	< 0.68	< 0.68	< 0.68	< 1.6	< 0.14	< 0.14
Naphthalene	10	100	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.34	< 0.088	< 0.088
n-Butylbenzene	NE	NE	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.39	< 0.14	< 0.14
n-Hexane	120	600	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.21	< 0.21
n-Propylbenzene	NE	NE	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.41	< 0.10	< 0.1
o-Xylene	400	2000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.058	< 0.058
p-Isopropyltoluene	NE	NE	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.36	< 0.085	< 0.085
sec-Butylbenzene	NE	NE	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.40	< 0.13	< 0.13
Styrene	10	100	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.10	< 0.10	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.10	< 0.10	< 0.10	< 0.39	< 0.065	0.07 BJ
tert-Butylbenzene	NE	NE	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.40	< 0.12	< 0.12
Tetrachloroethene	0.5	5	***0.71 J***	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	***1.5***	< 0.17	< 0.17	< 0.17	***1.7***	< 0.17	***1***	< 0.17	< 0.37	***0.54***	0.45 J-
Toluene	160	800	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.15	0.10 J	< 0.053
trans-1,2-Dichloroethene	20	100	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.35	< 0.11	< 0.11
Trichloroethene	0.5	5	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.16	< 0.062	< 0.062
Vinyl chloride	0.02	0.2	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.10	< 0.10	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.10	< 0.10	< 0.10	< 0.20	< 0.16	< 0.16
Xylenes, Total	400	2000	< 0.068	< 0.068	< 0.068	< 0.068	< 0.068	< 0.068	< 0.068	< 0.068	< 0.068	< 0.068	< 0.068	< 0.068	< 0.068	< 0.068	< 0.068	< 0.22	< 0.058	< 0.12
Total PCBs																				
Aroclor-1016	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1232	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1242	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1248	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Detected PCBs	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dissolved PCBs																				
Aroclor-1016	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1232	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1242	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1248	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Detected PCBs	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Solids																				
Total Dissolved Solids	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Suspended Solids (TSS)	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

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Table 18
Groundwater Analytical Results Summary
Madison-Kipp Corporation
Madison, Wisconsin

WELL ID SCREEN INTERVAL (feet bgs) SAMPLE DATE	PREVENTIVE ACTION LIMIT	ENFORCEMENT STANDARD	MP-14 135 - 140 ft 01/21/2013	MP-14 135 - 140 ft 04/16/2013	MP-14 135 - 140 ft 07/16/2013	MP-14 135 - 140 ft 07/22/2013	MP-14 135 - 140 ft 10/08/2013	MP-14 135 - 140 ft 04/14/2014	MP-14 135 - 140 ft 10/17/2014	MP-14 135 - 140 ft 04/13/2015	MP-14 135 - 140 ft 10/15/2015	MP-14 135 - 140 ft 01/20/2016	MP-14 135 - 140 ft 04/19/2016	MP-14 135 - 140 ft 07/18/2016	MP-14 135 - 140 ft 10/11/2016	MP-14 135 - 140 ft 1/18/2017	MP-14 135 - 140 ft 04/10/2017	MP-14 135 - 140 ft 10/02/2017
VOCs																		
1,1,1,2-Tetrachloroethane	7	70	< 0.25	< 0.25	< 0.5	< 0.25	< 0.5	< 0.25	< 0.25	< 0.25	< 0.46	< 1.1	< 2.2	< 0.11	< 1.1	< 1.1	< 0.11	< 1.1
1,1,1-Trichloroethane	40	200	< 0.2	< 0.2	< 0.4	< 0.2	< 0.4	< 0.20	< 0.20	< 0.20	< 0.38	< 1.0	< 2.0	< 0.10	< 1.0	< 1.0	< 0.10	< 1
1,1,2-Trichloroethane	0.5	5	< 0.28	< 0.28	< 0.56	< 0.28	< 0.56	< 0.28	< 0.28	< 0.28	< 0.35	< 1.0	< 2.0	< 0.10	< 1.0	< 1.0	< 0.10	< 1
1,1-Dichloroethene	0.7	7	< 0.31	< 0.31	< 0.62	< 0.31	< 0.62	< 0.31	< 0.31	< 0.31	< 0.39	< 1.4	< 2.8	< 0.14	< 1.4	< 1.4	< 0.14	< 1.4
1,2,4-Trimethylbenzene	96	480	< 0.14	< 0.14	< 0.28	< 0.14	< 0.28	< 0.14	< 0.14	< 0.14	< 0.36	< 0.60	< 1.2	< 0.060	< 0.60	< 0.60	< 0.060	< 0.6
1,2-Dibromoethane	0.005	0.05	< 0.36	< 0.36	< 0.72	< 0.36	< 0.72	< 0.36	< 0.36	< 0.36	< 0.39	< 1.3	< 2.6	< 0.13	< 1.3	< 1.3	< 0.13	< 1.3
1,2-Dichlorobenzene	60	600	< 0.27	< 0.27	< 0.54	< 0.27	< 0.54	< 0.27	< 0.27	< 0.27	< 0.33	< 0.76	< 1.5	< 0.076	< 0.76	< 0.76	< 0.076	< 0.76
1,2-Dichloropropane	0.5	5	< 0.2	< 0.2	< 0.4	< 0.2	< 0.4	< 0.20	< 0.20	< 0.20	< 0.43	< 1.0	< 2.0	< 0.10	< 1.0	< 1.0	< 0.10	< 1
1,2,3-Trichlorobenzene	NE	NE	< 0.24	< 0.24	< 0.48	< 0.24	< 0.48	< 0.24	< 0.24	< 0.24	< 0.46	< 0.45	3.4 BJ	< 0.045	< 0.45	< 0.45	< 0.045	< 0.45
1,2,4-Trichlorobenzene	14	70	< 0.31	< 0.31	< 0.62	< 0.31	< 0.62	< 0.31	< 0.31	< 0.31	< 0.34	< 0.77	2.4 J	< 0.077	< 0.77	< 0.77	< 0.077	< 0.77
1,3,5-Trimethylbenzene	96	480	< 0.18	< 0.18	< 0.36	< 0.18	< 0.36	< 0.18	< 0.18	< 0.18	< 0.25	< 0.75	< 1.5	< 0.075	< 0.75	< 0.75	< 0.075	< 0.75
2-Butanone	800	4000	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 30	< 60	< 3.0	< 30	< 30	< 3.0	< 30
2-Hexanone	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 9.5	< 19	< 0.95	< 9.5	< 9.5	< 0.95	< 9.5
4-Methyl-2-pentanone	50	500	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 7.7	< 15	< 0.77	< 7.7	< 7.7	< 0.77	< 7.7
Acetone	1800	9000	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 34	< 68	< 3.4	< 34	< 34	< 3.4	< 34
Benzene	0.5	5	< 0.074	< 0.074	< 0.15	< 0.074	< 0.15	< 0.074	< 0.074	< 0.074	< 0.15	< 0.89	< 1.8	< 0.089	< 0.89	< 0.89	< 0.089	< 0.89
Bromodichloromethane	0.06	0.6	< 0.17	< 0.17	< 0.34	< 0.17	< 0.34	< 0.17	< 0.17	< 0.17	< 0.37	< 0.77	< 1.5	< 0.077	< 0.77	***0.80 BJ***	< 0.077	< 0.77
Bromoform	0.44	4.4	< 0.28	< 0.28	< 0.56	< 0.28	< 0.56	< 0.28	< 0.28	< 0.28	< 0.48	< 0.88	< 1.8	< 0.088	< 0.88	< 0.88	< 0.088	< 0.88
Bromomethane	1	10	< 0.31	< 0.31	< 0.62	< 0.31	< 0.62	< 0.31	< 0.31 *	< 0.31	< 0.80	< 5.9	< 12	< 0.59	< 5.9	< 5.9	< 0.59	< 5.9
Carbon disulfide	200	1000	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.53	< 1.1	< 0.053	3.3 J	< 0.53	< 0.053	< 0.53
Carbon tetrachloride	0.5	5	< 0.26	< 0.26	< 0.52	< 0.26	< 0.52	< 0.26	< 0.26	< 0.26	< 0.38	< 0.38	< 0.76	< 0.038	< 0.38	< 0.38	< 0.038	< 0.38
Chloroform	0.6	6	< 0.2	< 0.2	< 0.4	< 0.2	< 0.4	< 0.20	< 0.20	< 0.20	< 0.37	< 0.62	< 1.2	< 0.062	< 0.62	< 0.62	< 0.062	< 0.62
Chloromethane	3	30	< 0.18	< 0.18	< 0.36	< 0.18	< 0.36	< 0.18	< 0.18	< 0.18	< 0.32	< 1.6	< 3.2	0.16 J	***12 BJ***	< 1.6	< 0.16	***3.4 J+***
cis-1,2-Dichloroethene	7	70	< 0.12	***17***	***27***	***29***	***27***	***12***	***8.1***	4.3	***13***	***12***	***16***	***13***	***13***	***12 B***	***12***	***11***
Dichlorodifluoromethane	200	1000	< 0.2	< 0.2	< 0.4	< 0.2	< 0.4	< 0.20	< 0.20	< 0.20	< 0.54	< 1.1	< 2.2	0.11 J	< 1.1	< 1.1	< 0.11	< 1.1
Ethylbenzene	140	700	< 0.13	< 0.13	< 0.26	< 0.13	< 0.26	< 0.13	< 0.13	< 0.13	< 0.18	< 0.54	< 1.1	< 0.054	< 0.54	< 0.54	< 0.054	< 0.54
Isopropylbenzene	NE	NE	< 0.14	< 0.14	< 0.28	< 0.14	< 0.28	< 0.14	< 0.14	< 0.14	< 0.39	< 0.81	< 1.6	< 0.081	< 0.81	< 0.81	< 0.081	< 0.81
m,p-Xylene	400	2000	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.57	< 1.1	< 0.057	< 0.57	< 0.57	< 0.057	< 0.57
Methyl tert-butyl ether	12	60	< 0.24	< 0.24	< 0.48	< 0.24	< 0.48	< 0.24	< 0.24 *	< 0.24	< 0.39	< 1.4	< 2.8	< 0.14	< 1.4	< 1.4	< 0.14	< 1.4
Methylene chloride	0.5	5	< 0.68	< 0.68	< 1.4	< 0.68	< 1.4	< 0.68	< 0.68	< 0.68	< 1.6	< 1.4	< 2.8	< 0.14	< 1.4	< 1.4	< 0.14	< 1.4
Naphthalene	10	100	< 0.16	< 0.16	< 0.32	< 0.16	< 0.32	< 0.16	< 0.16	< 0.16	< 0.34	< 0.88	6.8 BJ	< 0.088	< 0.88	< 0.88	< 0.088	< 0.88
n-Butylbenzene	NE	NE	< 0.13	< 0.13	< 0.26	< 0.13	< 0.26	< 0.13	< 0.13	< 0.13	< 0.39	< 1.4	< 2.8	< 0.14	< 1.4	< 1.4	< 0.14	< 1.4
n-Hexane	120	600	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 2.1	< 4.2	< 0.21	< 2.1	< 2.1	< 0.21	< 2.1
n-Propylbenzene	NE	NE	< 0.13	< 0.13	< 0.26	< 0.13	< 0.26	< 0.13	< 0.13	< 0.13	< 0.41	< 1.0	< 2.0	< 0.10	< 1.0	< 1.0	< 0.10	< 1
o-Xylene	400	2000	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.58	< 1.2	< 0.058	< 0.58	< 0.58	< 0.058	< 0.58
p-Isopropyltoluene	NE	NE	< 0.17	< 0.17	< 0.34	< 0.17	< 0.34	< 0.17	< 0.17	< 0.17	< 0.36	< 0.85	< 1.7	< 0.085	< 0.85	< 0.85	< 0.085	< 0.85
sec-Butylbenzene	NE	NE	< 0.15	< 0.15	< 0.3	< 0.15	< 0.3	< 0.15	< 0.15	< 0.15	< 0.40	< 1.3	< 2.6	< 0.13	< 1.3	< 1.3	< 0.13	< 1.3
Styrene	10	100	< 0.1	< 0.1	< 0.2	< 0.1	< 0.2	< 0.10	< 0.10	< 0.10	< 0.39	< 0.65	< 1.3	< 0.065	< 0.65	< 0.65	< 0.065	< 0.65
tert-Butylbenzene	NE	NE	< 0.14	< 0.14	< 0.28	< 0.14	< 0.28	< 0.14	< 0.14	< 0.14	< 0.40	< 1.2	< 2.4	< 0.12	< 1.2	< 1.2	< 0.12	< 1.2
Tetrachloroethene	0.5	5	***1.7***	***430***	***820***	***920***	***970***	***350***	***190***	***110***	***320***	***290***	***310***	***230***	***250***	***230***	***270***	***250***
Toluene	160	800	< 0.11	< 0.11	< 0.22	< 0.11	< 0.22	< 0.11	< 0.11	< 0.11	< 0.15	< 0.53	< 1.1	< 0.053	1.4 J	1.5 BJ	< 0.053	< 0.53
trans-1,2-Dichloroethene	20	100	< 0.25	< 0.25	< 0.5	< 0.25	< 0.5	< 0.25	< 0.25	< 0.25	< 0.35	< 1.1	< 2.2	0.24 J	< 1.1	< 1.1	0.18 J	< 1.1
Trichloroethene	0.5	5	0.24 J	***31***	***53***	***51***	***53***	***23***	***16***	***7.9***	***25***	***24***	***28***	***24***	***25***	***21***	***25***	***20***
Vinyl chloride	0.02	0.2	< 0.1	< 0.1	< 0.2	< 0.1	***0.53 J***	< 0.10	< 0.10	< 0.10	< 0.20	< 1.6	< 3.2	< 0.16	< 1.6	< 1.6	< 0.16	< 1.6
Xylenes, Total	400	2000	< 0.068	< 0.068	< 0.14	< 0.068	< 0.14	< 0.068	< 0.068	< 0.068	< 0.22	< 0.58	< 1.2	< 0.058	< 0.58	< 1.2	< 0.12	< 1.2
Total PCBs																		
Aroclor-1016	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1232	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1242	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1248	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Detected PCBs	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dissolved PCBs																		
Aroclor-1016	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1232	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1242	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1248	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Detected PCBs	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Solids																		
Total Dissolved Solids	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Suspended Solids (TSS)	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Notes on Page 55.

Table 18
Groundwater Analytical Results Summary
Madison-Kipp Corporation
Madison, Wisconsin

WELL ID			MP-14	MP-14	MP-14	MP-14	MP-14	MP-14	MP-14	MP-14	MP-14	MP-14	MP-14	MP-15	MP-15	MP-15	MP-15	MP-15	MP-15	MP-15	MP-15	MP-15	MP-15
SCREEN INTERVAL (feet bgs)	PREVENTIVE	ENFORCEMENT	170 - 178 ft	170 - 178 ft	170 - 178 ft	170 - 178 ft	170 - 178 ft	170 - 178 ft	170 - 178 ft	170 - 178 ft	170 - 178 ft	170 - 178 ft	170 - 178 ft	88 - 92 ft	88 - 92 ft	88 - 92 ft	88 - 92 ft	88 - 92 ft	88 - 92 ft	88 - 92 ft	88 - 92 ft	88 - 92 ft	88 - 92 ft
SAMPLE DATE	ACTION LIMIT	STANDARD	01/21/2013	04/16/2013	07/16/2013	07/22/2013	10/08/2013	04/14/2014	10/17/2014	04/13/2015	10/15/2015	10/11/2016	10/02/2017	01/22/2013	04/15/2013	07/22/2013	10/08/2013	04/15/2014	10/16/2014	04/14/2015	10/15/2015	10/10/2016	10/03/2017
VOCs																							
1,1,1,2-Tetrachloroethane	7	70	< 0.25	< 0.25	< 0.5	< 0.25	< 0.5	< 0.50	< 0.50	< 0.25	< 0.46	< 0.22	< 2.2	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.46	< 1.1	< 0.55
1,1,1-Trichloroethane	40	200	< 0.2	< 0.2	< 0.4	< 0.2	< 0.4	< 0.40	< 0.40	< 0.20	< 0.38	< 0.20	< 2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.20	< 0.20	< 0.20	< 0.38	< 1.0	< 0.5
1,1,2-Trichloroethane	0.5	5	< 0.28	< 0.28	< 0.56	< 0.28	< 0.56	< 0.56	< 0.56	< 0.28	< 0.35	< 0.20	< 2	< 0.28	***2.2***	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.35	< 1.0	< 0.5
1,1-Dichloroethene	0.7	7	< 0.31	< 0.31	< 0.62	< 0.31	< 0.62	< 0.62	< 0.62	< 0.31	< 0.39	< 0.28	< 2.8	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.39	< 1.4	< 0.7
1,2,4-Trimethylbenzene	96	480	< 0.14	< 0.14	< 0.28	< 0.14	< 0.28	< 0.28	< 0.28	< 0.14	< 0.36	< 0.12	< 1.2	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.36	< 0.60	< 0.3
1,2-Dibromoethane	0.005	0.05	< 0.36	< 0.36	< 0.72	< 0.36	< 0.72	< 0.72	< 0.72	< 0.36	< 0.39	< 0.26	< 2.6	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36	< 0.39	< 1.3	< 0.65
1,2-Dichlorobenzene	60	600	< 0.27	< 0.27	< 0.54	< 0.27	< 0.54	< 0.54	< 0.54	< 0.27	< 0.33	< 0.15	< 1.5	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.33	< 0.76	< 0.38
1,2-Dichloropropane	0.5	5	< 0.2	< 0.2	< 0.4	< 0.2	< 0.4	< 0.40	< 0.40	< 0.20	< 0.43	< 0.20	< 2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.20	< 0.20	< 0.20	< 0.43	< 1.0	< 0.5
1,2,3-Trichlorobenzene	NE	NE	< 0.24	< 0.24	< 0.48	< 0.24	< 0.48	< 0.48	< 0.48	< 0.24	< 0.46	< 0.090	< 0.9	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.46	< 0.45	< 0.23
1,2,4-Trichlorobenzene	14	70	< 0.31	< 0.31	< 0.62	< 0.31	< 0.62	< 0.62	< 0.62	< 0.31	< 0.34	< 0.15	< 1.5	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.34	< 0.77	< 0.39
1,3,5-Trimethylbenzene	96	480	< 0.18	< 0.18	< 0.36	< 0.18	< 0.36	< 0.36	< 0.36	< 0.18	< 0.25	< 0.15	< 1.5	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.25	< 0.75	< 0.38
2-Butanone	800	4000	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 6.0	< 60	NA	NA	NA	NA	NA	NA	NA	NA	< 30	< 15
2-Hexanone	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 1.9	< 19	NA	NA	NA	NA	NA	NA	NA	NA	< 9.5	< 4.8
4-Methyl-2-pentanone	50	500	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 1.5	< 15	NA	NA	NA	NA	NA	NA	NA	NA	< 7.7	< 3.9
Acetone	1800	9000	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 6.8	< 68	NA	NA	NA	NA	NA	NA	NA	NA	< 34	26 BJ
Benzene	0.5	5	< 0.074	< 0.074	< 0.15	< 0.074	< 0.15	< 0.15	< 0.15	< 0.074	< 0.15	< 0.18	< 1.8	< 0.074	< 0.074	< 0.074	< 0.074	< 0.074	< 0.074	< 0.074	< 0.15	< 0.89	< 0.45
Bromodichloromethane	0.06	0.6	< 0.17	< 0.17	< 0.34	< 0.17	< 0.34	< 0.34	< 0.34	< 0.17	< 0.37	< 0.15	< 1.5	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.37	< 0.77	< 0.39
Bromoform	0.44	4.4	< 0.28	< 0.28	< 0.56	< 0.28	< 0.56	< 0.56	< 0.56	< 0.28	< 0.48	< 0.18	< 1.8	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.48	< 0.88	< 0.44
Bromomethane	1	10	< 0.31	< 0.31	< 0.62	< 0.31	< 0.62	< 0.62	< 0.62 *	< 0.31	< 0.80	< 1.2	< 12	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.80	< 5.9	< 3
Carbon disulfide	200	1000	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.11	< 1.1	NA	NA	NA	NA	NA	NA	NA	NA	3.1 J	< 0.27
Carbon tetrachloride	0.5	5	< 0.26	< 0.26	< 0.52	< 0.26	< 0.52	< 0.52	< 0.52	< 0.26	< 0.38	< 0.076	< 0.76	< 0.26	< 0.26	< 0.26	< 0.26	< 0.26	< 0.26	< 0.26	< 0.38	< 0.38	< 0.19
Chloroform	0.6	6	< 0.2	< 0.2	< 0.4	< 0.2	< 0.4	< 0.40	< 0.40	< 0.20	< 0.37	< 0.12	***1.2 J***	< 0.2	< 0.2	< 0.2	< 0.2	< 0.20	< 0.20	< 0.20	< 0.37	< 0.62	< 0.31
Chloromethane	3	30	< 0.18	< 0.18	< 0.36	< 0.18	< 0.36	< 0.36	< 0.36	< 0.18	< 0.32	0.92 BJ	***5.2 J+***	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.32	***11 BJ***	1.3 J+
cis-1,2-Dichloroethene	7	70	< 0.12	< 0.12	***22***	***21***	***22***	***19***	***24***	***22***	***30***	***30***	***32***	***7.5***	***23***	***14***	***20***	***23***	***12***	***17***	***15***	***25***	***17***
Dichlorodifluoromethane	200	1000	< 0.2	< 0.2	< 0.4	< 0.2	< 0.4	< 0.40	< 0.40	< 0.20	< 0.54	< 0.22	< 2.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.20	< 0.20	< 0.20	< 0.54	< 1.1	< 0.55
Ethylbenzene	140	700	< 0.13	< 0.13	< 0.26	< 0.13	< 0.26	< 0.26	< 0.26	< 0.13	< 0.18	< 0.11	< 1.1	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.18	< 0.54	< 0.27
Isopropylbenzene	NE	NE	< 0.14	< 0.14	< 0.28	< 0.14	< 0.28	< 0.28	< 0.28	< 0.14	< 0.39	< 0.16	< 1.6	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.39	< 0.81	< 0.41
m,p-Xylene	400	2000	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.11	1.2 BJ	NA	NA	NA	NA	NA	NA	NA	NA	< 0.57	0.3 BJ
Methyl tert-butyl ether	12	60	< 0.24	< 0.24	< 0.48	< 0.24	< 0.48	< 0.48	< 0.48 *	< 0.24	< 0.39	< 0.28	< 2.8	2.3	0.84 J	< 0.24	3.3	3.5	< 0.24	< 0.24	2.5	4.0 J	< 0.7
Methylene chloride	0.5	5	< 0.68	< 0.68	< 1.4	< 0.68	< 1.4	< 1.4	< 1.4	< 0.68	< 1.6	< 0.28	< 2.8	< 0.68	< 0.68	< 0.68	< 0.68	< 0.68	< 0.68	< 0.68	< 1.6	< 1.4	< 0.7
Naphthalene	10	100	< 0.16	< 0.16	< 0.32	< 0.16	< 0.32	< 0.32	< 0.32	< 0.16	< 0.34	< 0.18	< 1.8	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.34	< 0.88	< 0.44
n-Butylbenzene	NE	NE	< 0.13	< 0.13	< 0.26	< 0.13	< 0.26	< 0.26	< 0.26	< 0.13	< 0.39	< 0.28	< 2.8	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.39	< 1.4	< 0.7
n-Hexane	120	600	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.42	< 4.2	NA	NA	NA	NA	NA	NA	NA	NA	4.0 J	< 1.1
n-Propylbenzene	NE	NE	< 0.13	< 0.13	< 0.26	< 0.13	< 0.26	< 0.26	< 0.26	< 0.13	< 0.41	< 0.20	< 2	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.41	< 1.0	< 0.5
o-Xylene	400	2000	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.12	< 1.2	NA	NA	NA	NA	NA	NA	NA	NA	< 0.58	< 0.29
p-Isopropyltoluene	NE	NE	< 0.17	< 0.17	< 0.34	< 0.17	< 0.34	< 0.34	< 0.34	< 0.17	< 0.36	< 0.17	< 1.7	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.36	< 0.85	< 0.43
sec-Butylbenzene	NE	NE	< 0.15	< 0.15	< 0.3	< 0.15	< 0.3	< 0.30	< 0.30	< 0.15	< 0.40	< 0.26	< 2.6	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.40	< 1.3	< 0.65
Styrene	10	100	< 0.1	< 0.1	< 0.2	< 0.1	< 0.2	< 0.20	< 0.20	< 0.10	< 0.39	< 0.13	1.6 BJ	< 0.1	< 0.1	< 0.1	< 0.1	< 0.10	< 0.10	< 0.10	< 0.39	< 0.65	0.35 BJ
tert-Butylbenzene	NE	NE	< 0.14	< 0.14	< 0.28	< 0.14	< 0.28	< 0.28	< 0.28	< 0.14	< 0.40	< 0.24	< 2.4	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.40	< 1.2	< 0.6
Tetrachloroethene	0.5	5	***1.2***	***9.2***	***520***	***520***	***640***	***630***	***890***	***640 E***	***690***	***730***	***840***	***130***	***160***	***130***	***220***	***300***	***100***	***160***	***150***	***160***	***160***
Toluene	160	800	< 0.11	< 0.11	< 0.22	< 0.11	< 0.22	< 0.22	< 0.22	< 0.11	< 0.15	< 0.11	< 1.1	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.15	1.5 J	< 0.27
trans-1,2-Dichloroethene	20	100	< 0.25	< 0.25	< 0.5	< 0.25	< 0.5	< 0.50	< 0.50	< 0.25	< 0.35	0.40 J	< 2.2	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.35	< 1.1	< 0.55
Trichloroethene	0.5	5	< 0.19	***0.78***	***42***	***37***	***37***	***33***	***46***	***40***	***57***	***58***	***60***	***11***	***15***	***12***	***19***	***24***	***12***	***16***	***14***	***19***	***14***
Vinyl chloride	0.02	0.2	< 0.1	< 0.1	< 0.2	< 0.1	< 0.2	< 0.20	< 0.20	< 0.10	< 0.20	< 0.32	< 3.2	< 0.1	< 0.1	< 0.1	< 0.1	< 0.10	< 0.10	< 0.10	< 0.20	< 1.6	< 0.8
Xylenes, Total	400	2000	< 0.068	< 0.068	< 0.14	< 0.068	< 0.14	< 0.14	< 0.14	< 0.068	< 0.22	< 0.12	< 2.3	< 0.068	< 0.068	< 0.068	< 0.068	< 0.068	< 0.068	< 0.068	< 0.22	< 0.58	< 0.58
Total PCBs																							
Aroclor-1016	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1232	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1242	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1248	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Detected PCBs	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dissolved PCBs																							
Aroclor-1016	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1232	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1242	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1248	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Detected PCBs	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Solids																							
Total Dissolved Solids	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Suspended Solids (TSS)	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Notes on Page 55.

Table 18
Groundwater Analytical Results Summary
Madison-Kipp Corporation
Madison, Wisconsin

WELL ID			MP-15	MP-15	MP-15	MP-15	MP-15	MP-15	MP-15	MP-15	MP-15	MP-15	MP-15	MP-15	MP-15	MP-15	MP-15	MP-15	MP-15	MP-15	MP-15	MP-15
SCREEN INTERVAL (feet bgs)	PREVENTIVE	ENFORCEMENT	100 - 105 ft	100 - 105 ft	100 - 105 ft	100 - 105 ft	100 - 105 ft	100 - 105 ft	100 - 105 ft	100 - 105 ft	100 - 105 ft	100 - 105 ft	120 - 125 ft	120 - 125 ft	120 - 125 ft	120 - 125 ft	120 - 125 ft	120 - 125 ft	120 - 125 ft	120 - 125 ft	120 - 125 ft	120 - 125 ft
SAMPLE DATE	ACTION LIMIT	STANDARD	01/22/2013	04/15/2013	07/22/2013	10/08/2013	04/15/2014	10/16/2014	04/14/2015	10/15/2015	10/10/2016	10/03/2017	01/22/2013	04/15/2013	07/22/2013	10/08/2013	04/15/2014	10/16/2014	04/14/2015	10/15/2015	10/10/2016	10/03/2017
VOCs																						
1,1,1,2-Tetrachloroethane	7	70	< 0.25	< 0.25	< 0.25	< 0.5	< 0.50	< 0.50	< 0.25	< 0.46	< 2.2	< 2.2	< 0.5	< 0.5	< 1.3	< 1.3	< 1.3	< 1.3	< 1.3	< 0.92	< 11	< 5.5
1,1,1-Trichloroethane	40	200	< 0.2	< 0.2	< 0.2	< 0.4	< 0.40	< 0.40	< 0.20	< 0.38	< 2.0	< 2	< 0.4	< 0.4	< 1	< 1	< 1.0	< 1.0	< 1.0	< 0.76	< 10	< 5
1,1,2-Trichloroethane	0.5	5	< 0.28	< 0.28	< 0.28	< 0.56	< 0.56	< 0.56	< 0.28	< 0.35	< 2.0	< 2	< 0.56	< 0.56	< 1.4	< 1.4	< 1.4	< 1.4	< 1.4	< 0.70	< 10	< 5
1,1-Dichloroethene	0.7	7	< 0.31	< 0.31	< 0.31	< 0.62	< 0.62	< 0.62	< 0.31	< 0.39	< 2.8	< 2.8	< 0.62	< 0.62	< 1.6	< 1.6	< 1.6	< 1.6	< 1.6	< 0.78	< 14	< 7
1,2,4-Trimethylbenzene	96	480	< 0.14	< 0.14	< 0.14	< 0.28	< 0.28	< 0.28	< 0.14	< 0.36	< 1.2	< 1.2	< 0.28	< 0.28	< 0.7	< 0.7	< 0.70	< 0.70	< 0.70	< 0.72	< 6.0	< 3
1,2-Dibromoethane	0.005	0.05	< 0.36	< 0.36	< 0.36	< 0.72	< 0.72	< 0.72	< 0.36	< 0.39	< 2.6	< 2.6	< 0.72	< 0.72	< 1.8	< 1.8	< 1.8	< 1.8	< 1.8	< 0.77	< 13	< 6.5
1,2-Dichlorobenzene	60	600	< 0.27	< 0.27	< 0.27	< 0.54	< 0.54	< 0.54	< 0.27	< 0.33	< 1.5	< 1.5	< 0.54	< 0.54	< 1.4	< 1.4	< 1.4	< 1.4	< 1.4	< 0.67	< 7.6	< 3.8
1,2-Dichloropropane	0.5	5	< 0.2	< 0.2	< 0.2	< 0.4	< 0.40	< 0.40	< 0.20	< 0.43	< 2.0	< 2	< 0.4	< 0.4	< 1	< 1	< 1.0	< 1.0	< 1.0	< 0.86	< 10	< 5
1,2,3-Trichlorobenzene	NE	NE	< 0.24	< 0.24	< 0.24	< 0.48	< 0.48	< 0.48	< 0.24	< 0.46	< 0.90	< 0.9	< 0.48	< 0.48	< 1.2	< 1.2	< 1.2	< 1.2	< 1.2	< 0.92	< 4.5	< 2.3
1,2,4-Trichlorobenzene	14	70	< 0.31	< 0.31	< 0.31	< 0.62	< 0.62	< 0.62	< 0.31	< 0.34	< 1.5	< 1.5	< 0.62	< 0.62	< 1.6	< 1.6	< 1.6	< 1.6	< 1.6	< 0.68	< 7.7	< 3.9
1,3,5-Trimethylbenzene	96	480	< 0.18	< 0.18	< 0.18	< 0.36	< 0.36	< 0.36	< 0.18	< 0.25	< 1.5	< 1.5	< 0.36	< 0.36	< 0.9	< 0.9	< 0.90	< 0.90	< 0.90	< 0.51	< 7.5	< 3.8
2-Butanone	800	4000	NA	NA	NA	NA	NA	NA	NA	NA	< 60	< 60	NA	NA	NA	NA	NA	NA	NA	NA	< 300	< 150
2-Hexanone	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	< 19	< 19	NA	NA	NA	NA	NA	NA	NA	NA	< 95	< 48
4-Methyl-2-pentanone	50	500	NA	NA	NA	NA	NA	NA	NA	NA	< 15	< 15	NA	NA	NA	NA	NA	NA	NA	NA	< 77	< 39
Acetone	1800	9000	NA	NA	NA	NA	NA	NA	NA	NA	< 68	< 68	NA	NA	NA	NA	NA	NA	NA	NA	< 340	< 170
Benzene	0.5	5	< 0.074	< 0.074	< 0.074	< 0.15	< 0.15	< 0.15	< 0.074	< 0.15	< 1.8	< 1.8	< 0.15	< 0.15	< 0.37	< 0.37	< 0.37	< 0.37	< 0.37	< 0.29	< 8.9	< 4.5
Bromodichloromethane	0.06	0.6	< 0.17	< 0.17	< 0.17	< 0.34	< 0.34	< 0.34	< 0.17	< 0.37	< 1.5	< 1.5	< 0.34	< 0.34	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85	< 0.74	< 7.7	< 3.9
Bromoform	0.44	4.4	< 0.28	< 0.28	< 0.28	< 0.56	< 0.56	< 0.56	< 0.28	< 0.48	< 1.8	< 1.8	< 0.56	< 0.56	< 1.4	< 1.4	< 1.4	< 1.4	< 1.4	< 0.97	< 8.8	< 4.4
Bromomethane	1	10	< 0.31	< 0.31	< 0.31	< 0.62	< 0.62	< 0.62	< 0.31	< 0.80	< 12	< 12	< 0.62	< 0.62	< 1.6	< 1.6	< 1.6	< 1.6	< 1.6	< 1.6	< 59	< 30
Carbon disulfide	200	1000	NA	NA	NA	NA	NA	NA	NA	NA	5.6 J	< 1.1	NA	NA	NA	NA	NA	NA	NA	NA	29 J	< 2.7
Carbon tetrachloride	0.5	5	< 0.26	< 0.26	< 0.26	< 0.52	< 0.52	< 0.52	< 0.26	< 0.38	< 0.76	< 0.76	< 0.52	< 0.52	< 1.3	< 1.3	< 1.3	< 1.3	< 1.3	< 0.77	< 3.8	< 1.9
Chloroform	0.6	6	< 0.2	< 0.2	< 0.2	< 0.4	< 0.40	< 0.40	< 0.20	< 0.37	< 1.2	< 1.2	< 0.4	< 0.4	< 1	< 1	< 1.0	< 1.0	< 1.0	< 0.74	< 6.2	< 3.1
Chloromethane	3	30	< 0.18	< 0.18	< 0.18	< 0.36	< 0.36	< 0.36	< 0.18	< 0.32	***21 BJ***	< 3.2	< 0.36	< 0.36	< 0.9	< 0.9	< 0.90	< 0.90	< 0.90	< 0.64	***96 BJ***	< 8
cis-1,2-Dichloroethene	7	70	***9.3***	***37***	***68***	***76***	***96***	***83***	***66***	***77***	***61***	***79***	***200***	***230***	***250***	***220***	***230***	***260***	***200***	***230***	***220***	***140***
Dichlorodifluoromethane	200	1000	< 0.2	< 0.2	< 0.2	< 0.4	< 0.40	< 0.40	< 0.20	< 0.54	< 2.2	< 2.2	< 0.4	< 0.4	< 1	< 1	< 1.0	< 1.0	< 1.0	< 1.1	< 11	< 5.5
Ethylbenzene	140	700	< 0.13	< 0.13	< 0.13	< 0.26	< 0.26	< 0.26	< 0.13	< 0.18	< 1.1	< 1.1	< 0.26	< 0.26	< 0.65	< 0.65	< 0.65	< 0.65	< 0.65	< 0.37	< 5.4	< 2.7
Isopropylbenzene	NE	NE	< 0.14	< 0.14	< 0.14	< 0.28	< 0.28	< 0.28	< 0.14	< 0.39	< 1.6	< 1.6	< 0.28	< 0.28	< 0.7	< 0.7	< 0.70	< 0.70	< 0.70	< 0.77	< 8.1	< 4.1
m,p-Xylene	400	2000	NA	NA	NA	NA	NA	NA	NA	NA	< 1.1	< 1.1	NA	NA	NA	NA	NA	NA	NA	NA	< 5.7	< 2.9
Methyl tert-butyl ether	12	60	2.2	1.3	< 0.24	< 0.48	< 0.48	< 0.48	< 0.24	< 0.39	< 2.8	< 2.8	< 0.48	< 0.48	< 1.2	< 1.2	< 1.2	< 1.2	< 1.2	< 0.79	< 14	< 7
Methylene chloride	0.5	5	< 0.68	< 0.68	< 0.68	< 1.4	< 1.4	< 1.4	< 0.68	< 1.6	< 2.8	< 2.8	< 1.4	< 1.4	< 3.4	< 3.4	< 3.4	< 3.4	< 3.4	< 3.3	< 14	< 7
Naphthalene	10	100	< 0.16	< 0.16	< 0.16	< 0.32	< 0.32	< 0.32	< 0.16	< 0.34	< 1.8	< 1.8	< 0.32	< 0.32	< 0.8	< 0.8	< 0.80	< 0.80	< 0.80	< 0.67	< 8.8	< 4.4
n-Butylbenzene	NE	NE	< 0.13	< 0.13	< 0.13	< 0.26	< 0.26	< 0.26	< 0.13	< 0.39	< 2.8	< 2.8	< 0.26	< 0.26	< 0.65	< 0.65	< 0.65	< 0.65	< 0.65	< 0.78	< 14	< 7
n-Hexane	120	600	NA	NA	NA	NA	NA	NA	NA	NA	6.2 J	< 4.2	NA	NA	NA	NA	NA	NA	NA	NA	< 21	< 11
n-Propylbenzene	NE	NE	< 0.13	< 0.13	< 0.13	< 0.26	< 0.26	< 0.26	< 0.13	< 0.41	< 2.0	< 2	< 0.26	< 0.26	< 0.65	< 0.65	< 0.65	< 0.65	< 0.65	< 0.83	< 10	< 5
o-Xylene	400	2000	NA	NA	NA	NA	NA	NA	NA	NA	< 1.2	< 1.2	NA	NA	NA	NA	NA	NA	NA	NA	< 5.8	< 2.9
p-Isopropyltoluene	NE	NE	< 0.17	< 0.17	< 0.17	< 0.34	< 0.34	< 0.34	< 0.17	< 0.36	< 1.7	< 1.7	< 0.34	< 0.34	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85	< 0.72	< 8.5	< 4.3
sec-Butylbenzene	NE	NE	< 0.15	< 0.15	< 0.15	< 0.3	< 0.30	< 0.30	< 0.15	< 0.40	< 2.6	< 2.6	< 0.3	< 0.3	< 0.75	< 0.75	< 0.75	< 0.75	< 0.75	< 0.80	< 13	< 6.5
Styrene	10	100	< 0.1	< 0.1	< 0.1	< 0.2	< 0.20	< 0.20	< 0.10	< 0.39	< 1.3	1.6 BJ	< 0.2	< 0.2	< 0.5	< 0.5	< 0.50	< 0.50	< 0.50	< 0.77	< 6.5	4 BJ
tert-Butylbenzene	NE	NE	< 0.14	< 0.14	< 0.14	< 0.28	< 0.28	< 0.28	< 0.14	< 0.40	< 2.4	< 2.4	< 0.28	< 0.28	< 0.7	< 0.7	< 0.70	< 0.70	< 0.70	< 0.80	< 12	< 6
Tetrachloroethene	0.5	5	***230***	***440***	***660***	***690***	***890***	***930***	***790***	***850***	***910***	***820***	***1100***	***1900***	***2100***	***1800***	***2000***	***2300***	***1700***	***2200***	***2900***	***2300***
Toluene	160	800	< 0.11	< 0.11	< 0.11	< 0.22	< 0.22	< 0.22	< 0.11	< 0.15	2.8 J	< 1.1	< 0.22	< 0.22	< 0.55	< 0.55	< 0.55	< 0.55	< 0.55	< 0.30	12 J	< 2.7
trans-1,2-Dichloroethene	20	100	< 0.25	< 0.25	0.51 J	< 0.5	1.2 J	< 0.50	< 0.25	0.54 J	< 2.2	< 2.2	1.3 J	1.7 J	< 1.3	< 1.3	< 1.3	< 1.3	< 1.3	1.6 J	< 11	< 5.5
Trichloroethene	0.5	5	***16***	***41***	***65***	***72***	***92***	***93***	***74***	***83***	***81***	***85***	***160***	***210***	***220***	***190***	***210***	***280***	***190***	***220***	***250***	***190***
Vinyl chloride	0.02	0.2	< 0.1	< 0.1	< 0.1	< 0.2	< 0.20	***0.46 J***	< 0.10	< 0.20	< 3.2	< 3.2	< 0.2	***1***	***1.9 J***	< 0.5	< 0.50	***1.6 J***	< 0.50	< 0.41	< 16	< 8
Xylenes, Total	400	2000	< 0.068	< 0.068	< 0.068	< 0.14	< 0.14	< 0.14	< 0.068	< 0.22	< 1.2	< 2.3	< 0.14	< 0.14	< 0.34	< 0.34	< 0.34	< 0.34	< 0.34	< 0.44	< 5.8	< 5.8
Total PCBs																						
Aroclor-1016	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1232	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1242	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1248	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Detected PCBs	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dissolved PCBs																						
Aroclor-1016	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1232	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1242	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1248	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Detected PCBs	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Solids																						
Total Dissolved Solids	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Suspended Solids (TSS)	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Notes on Page 55.

Table 18
Groundwater Analytical Results Summary
Madison-Kipp Corporation
Madison, Wisconsin

WELL ID			MP-15	MP-15	MP-15	MP-15	MP-15	MP-15	MP-15	MP-15	MP-15	MP-15	MP-15	MP-15	MP-15	MP-15	MP-15	MP-15	MP-15	MP-15	MP-15	MP-15
SCREEN INTERVAL (feet bgs)	PREVENTIVE	ENFORCEMENT	142 - 146 ft	142 - 146 ft	142 - 146 ft	142 - 146 ft	142 - 146 ft	142 - 146 ft	142 - 146 ft	142 - 146 ft	142 - 146 ft	142 - 146 ft	177 - 187 ft	177 - 187 ft	177 - 187 ft	177 - 187 ft	177 - 187 ft	177 - 187 ft	177 - 187 ft	177 - 187 ft	177 - 187 ft	177 - 187 ft
SAMPLE DATE	ACTION LIMIT	STANDARD	01/22/2013	04/15/2013	07/22/2013	10/08/2013	04/15/2014	10/16/2014	04/14/2015	10/15/2015	10/10/2016	10/03/2017	01/22/2013	04/15/2013	07/22/2013	10/08/2013	04/15/2014	10/16/2014	04/14/2015	10/15/2015	10/10/2016	10/03/2017
VOCs																						
1,1,1,2-Tetrachloroethane	7	70	< 0.25	< 0.25	< 0.25	< 0.5	< 0.50	< 0.50	< 0.50	< 0.92	< 4.4	< 5.5	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.46	< 0.11	< 0.11
1,1,1-Trichloroethane	40	200	< 0.2	< 0.2	< 0.2	< 0.4	< 0.40	< 0.40	< 0.40	< 0.76	< 4.0	< 5	< 0.2	< 0.2	< 0.2	< 0.2	< 0.20	< 0.20	< 0.20	< 0.38	< 0.10	< 0.1
1,1,2-Trichloroethane	0.5	5	< 0.28	< 0.28	< 0.28	< 0.56	< 0.56	< 0.56	< 0.56	< 0.70	< 4.0	< 5	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.35	< 0.10	< 0.1
1,1-Dichloroethene	0.7	7	< 0.31	< 0.31	< 0.31	< 0.62	< 0.62	< 0.62	< 0.62	< 0.78	< 5.6	< 7	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.39	< 0.14	< 0.14
1,2,4-Trimethylbenzene	96	480	< 0.14	< 0.14	< 0.14	< 0.28	< 0.28	< 0.28	< 0.28	< 0.72	< 2.4	< 3	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.36	< 0.060	< 0.06
1,2-Dibromoethane	0.005	0.05	< 0.36	< 0.36	< 0.36	< 0.72	< 0.72	< 0.72	< 0.72	< 0.77	< 5.2	< 6.5	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36	< 0.39	< 0.13	< 0.13
1,2-Dichlorobenzene	60	600	< 0.27	< 0.27	< 0.27	< 0.54	< 0.54	< 0.54	< 0.54	< 0.67	< 3.0	< 3.8	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.33	< 0.076	< 0.076
1,2-Dichloropropane	0.5	5	< 0.2	< 0.2	< 0.2	< 0.4	< 0.40	< 0.40	< 0.40	< 0.86	< 4.0	< 5	< 0.2	< 0.2	< 0.2	< 0.2	< 0.20	< 0.20	< 0.20	< 0.43	< 0.10	< 0.1
1,2,3-Trichlorobenzene	NE	NE	< 0.24	< 0.24	< 0.24	< 0.48	< 0.48	< 0.48	< 0.48	< 0.92	< 1.8	< 2.3	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.46	< 0.045	< 0.045
1,2,4-Trichlorobenzene	14	70	< 0.31	< 0.31	< 0.31	< 0.62	< 0.62	< 0.62	< 0.62	< 0.68	< 3.1	< 3.9	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.34	< 0.077	< 0.077
1,3,5-Trimethylbenzene	96	480	< 0.18	< 0.18	< 0.18	< 0.36	< 0.36	< 0.36	< 0.36	< 0.51	< 3.0	< 3.8	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.25	< 0.075	< 0.075
2-Butanone	800	4000	NA	NA	NA	NA	NA	NA	NA	NA	< 120	< 150	NA	NA	NA	NA	NA	NA	NA	NA	< 3.0	< 3
2-Hexanone	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	< 38	< 48	NA	NA	NA	NA	NA	NA	NA	NA	< 0.95	< 0.95
4-Methyl-2-pentanone	50	500	NA	NA	NA	NA	NA	NA	NA	NA	< 31	< 39	NA	NA	NA	NA	NA	NA	NA	NA	< 0.77	< 0.77
Acetone	1800	9000	NA	NA	NA	NA	NA	NA	NA	NA	< 140	230 J	NA	NA	NA	NA	NA	NA	NA	NA	< 3.4	< 3.4
Benzene	0.5	5	< 0.074	< 0.074	< 0.074	< 0.15	< 0.15	0.37 J	< 0.15	< 0.29	< 3.6	< 4.5	< 0.074	< 0.074	< 0.074	< 0.074	< 0.074	0.23 J	< 0.074	< 0.15	< 0.089	< 0.089
Bromodichloromethane	0.06	0.6	< 0.17	< 0.17	< 0.17	< 0.34	< 0.34	< 0.34	< 0.34	< 0.74	< 3.1	< 3.9	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.37	< 0.077	< 0.077
Bromoform	0.44	4.4	< 0.28	< 0.28	< 0.28	< 0.56	< 0.56	< 0.56	< 0.56	< 0.97	< 3.5	< 4.4	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.48	< 0.088	< 0.088
Bromomethane	1	10	< 0.31	< 0.31	< 0.31	< 0.62	< 0.62	< 0.62	< 0.62	< 1.6	< 24	< 30	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.80	< 0.59	< 0.59
Carbon disulfide	200	1000	NA	NA	NA	NA	NA	NA	NA	NA	10 J	< 2.7	NA	NA	NA	NA	NA	NA	NA	NA	< 0.053	< 0.053
Carbon tetrachloride	0.5	5	< 0.26	< 0.26	< 0.26	< 0.52	< 0.52	< 0.52	< 0.52	< 0.77	< 1.5	< 1.9	< 0.26	< 0.26	< 0.26	< 0.26	< 0.26	< 0.26	< 0.26	< 0.38	< 0.038	< 0.038
Chloroform	0.6	6	< 0.2	< 0.2	< 0.2	< 0.4	< 0.40	< 0.40	< 0.40	< 0.74	< 2.5	< 3.1	< 0.2	< 0.2	< 0.2	< 0.2	< 0.20	< 0.20	< 0.20	< 0.37	< 0.062	< 0.062
Chloromethane	3	30	< 0.18	< 0.18	< 0.18	< 0.36	< 0.36	< 0.36	< 0.36	< 0.64	***35 BJ***	***9.5 J+***	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.32	< 0.16	0.37 J+
cis-1,2-Dichloroethene	7	70	***9.7***	***75***	***110***	***140***	***140***	***150***	***140***	***190***	***180***	***180***	***9.5***	6.7	6.0	***16***	***17***	***31***	***33***	5.2	0.60	0.48 J
Dichlorodifluoromethane	200	1000	< 0.2	< 0.2	< 0.2	< 0.4	< 0.40	< 0.40	< 0.40	< 1.1	< 4.4	< 5.5	< 0.2	< 0.2	< 0.2	< 0.2	< 0.20	< 0.20	< 0.20	< 0.54	< 0.11	< 0.11
Ethylbenzene	140	700	< 0.13	< 0.13	< 0.13	< 0.26	< 0.26	< 0.26	< 0.26	< 0.37	< 2.2	< 2.7	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.18	< 0.054	< 0.054
Isopropylbenzene	NE	NE	< 0.14	< 0.14	< 0.14	< 0.28	< 0.28	< 0.28	< 0.28	< 0.77	< 3.2	< 4.1	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.39	< 0.081	< 0.081
m,p-Xylene	400	2000	NA	NA	NA	NA	NA	NA	NA	NA	< 2.3	3 BJ	NA	NA	NA	NA	NA	NA	NA	NA	< 0.057	< 0.057
Methyl tert-butyl ether	12	60	2.0	< 0.24	< 0.24	< 0.48	< 0.48	< 0.48	< 0.48	< 0.79	< 5.6	< 7	2.5	1.6	0.86 J	0.90 J	< 0.24	< 0.24	< 0.24	< 0.39	< 0.14	< 0.14
Methylene chloride	0.5	5	< 0.68	< 0.68	< 0.68	< 1.4	< 1.4	< 1.4	< 1.4	< 3.3	< 5.6	< 7	< 0.68	< 0.68	< 0.68	< 0.68	< 0.68	< 0.68	< 0.68	< 1.6	< 0.14	< 0.14
Naphthalene	10	100	< 0.16	< 0.16	< 0.16	< 0.32	< 0.32	< 0.32	< 0.32	< 0.67	< 3.5	< 4.4	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.34	< 0.088	< 0.088
n-Butylbenzene	NE	NE	< 0.13	< 0.13	< 0.13	< 0.26	< 0.26	< 0.26	< 0.26	< 0.78	< 5.6	< 7	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.39	< 0.14	< 0.14
n-Hexane	120	600	NA	NA	NA	NA	NA	NA	NA	NA	15 J	< 11	NA	NA	NA	NA	NA	NA	NA	NA	< 0.21	< 0.21
n-Propylbenzene	NE	NE	< 0.13	< 0.13	< 0.13	< 0.26	< 0.26	< 0.26	< 0.26	< 0.83	< 4.0	< 5	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.41	< 0.10	< 0.1
o-Xylene	400	2000	NA	NA	NA	NA	NA	NA	NA	NA	< 2.3	< 2.9	NA	NA	NA	NA	NA	NA	NA	NA	< 0.058	< 0.058
p-Isopropyltoluene	NE	NE	< 0.17	< 0.17	< 0.17	< 0.34	< 0.34	< 0.34	< 0.34	< 0.72	< 3.4	< 4.3	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.36	< 0.085	< 0.085
sec-Butylbenzene	NE	NE	< 0.15	< 0.15	< 0.15	< 0.3	< 0.30	< 0.30	< 0.30	< 0.80	< 5.2	< 6.5	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.40	< 0.13	< 0.13
Styrene	10	100	< 0.1	< 0.1	< 0.1	< 0.2	< 0.20	< 0.20	< 0.20	< 0.77	< 2.6	3.5 BJ	< 0.1	< 0.1	< 0.1	< 0.1	< 0.10	< 0.10	< 0.10	< 0.39	< 0.065	0.07 BJ
tert-Butylbenzene	NE	NE	< 0.14	< 0.14	< 0.14	< 0.28	< 0.28	< 0.28	< 0.28	< 0.80	< 4.8	< 6	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.40	< 0.12	< 0.12
Tetrachloroethene	0.5	5	***170***	***580***	***640***	***840***	***970***	***1000***	***970***	***1100***	***1300***	***1800***	***240***	***140***	***110***	***100***	***73***	***86***	***130***	***38***	***10***	***8.9***
Toluene	160	800	< 0.11	< 0.11	< 0.11	< 0.22	< 0.22	< 0.22	< 0.22	< 0.30	4.8 J	3 J	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.15	0.11 J	< 0.053
trans-1,2-Dichloroethene	20	100	< 0.25	0.86 J	0.97 J	1.4 J	1.5 J	1.3 J	< 0.50	1.4 J	< 4.4	< 5.5	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.35	< 0.11	< 0.11
Trichloroethene	0.5	5	***14***	***78***	***100***	***130***	***130***	***140***	***130***	***170***	***170***	***180***	***17***	***12***	***7.7***	***12***	***12***	***21***	***26***	***5.8***	***1.4***	***0.95***
Vinyl chloride	0.02	0.2	< 0.1	***0.39 J***	***0.58***	***0.76 J***	< 0.20	***0.72 J***	< 0.20	< 0.41	< 6.4	< 8	< 0.1	< 0.1	< 0.1	***0.34 J***	< 0.10	***0.39 J***	< 0.10	< 0.20	< 0.16	< 0.16
Xylenes, Total	400	2000	< 0.068	< 0.068	< 0.068	< 0.14	< 0.14	< 0.14	< 0.14	< 0.44	< 2.3	< 5.8	< 0.068	< 0.068	< 0.068	< 0.068	< 0.068	< 0.068	< 0.068	< 0.22	< 0.058	< 0.12
Total PCBs																						
Aroclor-1016	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1232	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1242	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1248	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Detected PCBs	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dissolved PCBs																						
Aroclor-1016	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1232	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1242	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1248	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Detected PCBs	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Solids																						
Total Dissolved Solids	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Suspended Solids (TSS)	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

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Table 18
Groundwater Analytical Results Summary
Madison-Kipp Corporation
Madison, Wisconsin

WELL ID SCREEN INTERVAL (feet bgs) SAMPLE DATE	PREVENTIVE ACTION LIMIT	ENFORCEMENT STANDARD	MP-16 80 - 84 ft 01/22/2013	MP-16 80 - 84 ft 04/16/2013	MP-16 80 - 84 ft 07/23/2013	MP-16 80 - 84 ft 10/09/2013	MP-16 80 - 84 ft 04/15/2014	MP-16 80 - 84 ft 10/16/2014	MP-16 106 - 116 ft 01/22/2013	MP-16 106 - 116 ft 04/16/2013	MP-16 106 - 116 ft 07/23/2013	MP-16 106 - 116 ft 10/09/2013	MP-16 106 - 116 ft 04/15/2014	MP-16 106 - 116 ft 10/16/2014	MP-16 106 - 116 ft 04/13/2015	MP-16 106 - 116 ft 10/15/2015	MP-16 106 - 116 ft 10/11/2016	MP-16 106 - 116 ft 10/02/2017
VOCs																		
1,1,1,2-Tetrachloroethane	7	70	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.46	< 0.22	< 0.11
1,1,1-Trichloroethane	40	200	< 0.2	< 0.2	< 0.2	< 0.2	< 0.20	< 0.20	< 0.2	< 0.2	< 0.2	< 0.2	< 0.20	< 0.20	< 0.20	< 0.38	< 0.20	< 0.1
1,1,2-Trichloroethane	0.5	5	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.35	< 0.20	< 0.1
1,1-Dichloroethene	0.7	7	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.39	< 0.28	< 0.14
1,2,4-Trimethylbenzene	96	480	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.36	< 0.12	< 0.06
1,2-Dibromoethane	0.005	0.05	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36	< 0.39	< 0.26	< 0.13
1,2-Dichlorobenzene	60	600	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.33	< 0.15	< 0.076
1,2-Dichloropropane	0.5	5	< 0.2	< 0.2	< 0.2	< 0.2	< 0.20	< 0.20	< 0.2	< 0.2	< 0.2	< 0.2	< 0.20	< 0.20	< 0.20	< 0.43	< 0.20	< 0.1
1,2,3-Trichlorobenzene	NE	NE	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.46	< 0.090	< 0.045
1,2,4-Trichlorobenzene	14	70	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.34	< 0.15	< 0.077
1,3,5-Trimethylbenzene	96	480	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.25	< 0.15	< 0.075
2-Butanone	800	4000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 6.0	< 3
2-Hexanone	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 1.9	< 0.95
4-Methyl-2-pentanone	50	500	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 1.5	< 0.77
Acetone	1800	9000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 6.8	6.2 J
Benzene	0.5	5	< 0.074	< 0.074	< 0.074	< 0.074	< 0.074	< 0.074	< 0.074	< 0.074	< 0.074	< 0.074	< 0.074	< 0.074	< 0.074	< 0.15	< 0.18	< 0.089
Bromodichloromethane	0.06	0.6	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.37	< 0.15	< 0.077
Bromoform	0.44	4.4	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.48	< 0.18	< 0.088
Bromomethane	1	10	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.80	< 1.2	< 0.59
Carbon disulfide	200	1000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.11	< 0.053
Carbon tetrachloride	0.5	5	< 0.26	< 0.26	< 0.26	< 0.26	< 0.26	< 0.26	< 0.26	< 0.26	< 0.26	< 0.26	< 0.26	< 0.26	< 0.26	< 0.38	< 0.076	< 0.038
Chloroform	0.6	6	< 0.2	< 0.2	< 0.2	< 0.2	< 0.20	< 0.20	< 0.2	< 0.2	< 0.2	< 0.2	< 0.20	< 0.20	< 0.20	< 0.37	< 0.12	< 0.062
Chloromethane	3	30	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.32	0.74 BJ	1.6 J
cis-1,2-Dichloroethene	7	70	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	2.6	5.8	***9.5***	***10***	5.4	***10***	6.4	***7***	6.4	4.5
Dichlorodifluoromethane	200	1000	< 0.2	< 0.2	< 0.2 *	< 0.2	< 0.20	< 0.20	< 0.2	< 0.2	< 0.2 *	< 0.2	< 0.20	< 0.20	< 0.20	< 0.54	< 0.22	< 0.11
Ethylbenzene	140	700	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.18	< 0.11	< 0.054
Isopropylbenzene	NE	NE	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.39	< 0.16	< 0.081
m,p-Xylene	400	2000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.11	0.06 BJ
Methyl tert-butyl ether	12	60	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.39	< 0.28	< 0.14
Methylene chloride	0.5	5	< 0.68	< 0.68	< 0.68	< 0.68	< 0.68	< 0.68	< 0.68	< 0.68	< 0.68	< 0.68	< 0.68	< 0.68	< 0.68	< 1.6	< 0.28	< 0.14
Naphthalene	10	100	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.34	< 0.18	< 0.088
n-Butylbenzene	NE	NE	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.39	< 0.28	< 0.14
n-Hexane	120	600	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.42	< 0.21
n-Propylbenzene	NE	NE	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.41	< 0.20	< 0.1
o-Xylene	400	2000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.12	< 0.058
p-Isopropyltoluene	NE	NE	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.36	< 0.17	< 0.085
sec-Butylbenzene	NE	NE	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.40	< 0.26	< 0.13
Styrene	10	100	< 0.1	< 0.1	< 0.1	< 0.1	< 0.10	< 0.10	< 0.1	< 0.1	< 0.1	< 0.1	< 0.10	< 0.10	< 0.10	< 0.39	< 0.13	< 0.065
tert-Butylbenzene	NE	NE	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.40	< 0.24	< 0.12
Tetrachloroethene	0.5	5	***0.76 J***	< 0.17	< 0.17	***0.76 J***	***0.56 J***	< 0.17	***23***	***330***	***90***	***94***	***330***	***110***	***120***	***89***	***68***	***45***
Toluene	160	800	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.15	0.16 J	< 0.053
trans-1,2-Dichloroethene	20	100	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.35	< 0.22	< 0.11
Trichloroethene	0.5	5	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	***3.8***	***44***	***12***	***13***	***30***	***16***	***12***	***10***	***9.2***	***7.1***
Vinyl chloride	0.02	0.2	< 0.1	< 0.1	< 0.1	< 0.1	< 0.10	< 0.10	< 0.1	< 0.1	< 0.1	< 0.1	< 0.10	< 0.10	< 0.10	< 0.20	< 0.32	< 0.16
Xylenes, Total	400	2000	< 0.068	< 0.068	< 0.068	< 0.068	< 0.068	< 0.068	< 0.068	< 0.068	< 0.068	< 0.068	< 0.068	< 0.068	< 0.068	< 0.22	< 0.12	< 0.12
Total PCBs																		
Aroclor-1016	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1232	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1242	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1248	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Detected PCBs	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dissolved PCBs																		
Aroclor-1016	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1232	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1242	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1248	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Detected PCBs	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Solids																		
Total Dissolved Solids	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Suspended Solids (TSS)	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

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Table 18
Groundwater Analytical Results Summary
Madison-Kipp Corporation
Madison, Wisconsin

WELL ID			MP-16	MP-16	MP-16	MP-16	MP-16	MP-16	MP-16	MP-16	MP-16	MP-16	MP-16	MP-16	MP-16	MP-16	MP-16
SCREEN INTERVAL (feet bgs)	PREVENTIVE	ENFORCEMENT	140 - 144 ft	140 - 144 ft	140 - 144 ft	140 - 144 ft	140 - 144 ft	140 - 144 ft	140 - 144 ft	140 - 144 ft	140 - 144 ft	140 - 144 ft	140 - 144 ft	140 - 144 ft	140 - 144 ft	140 - 144 ft	140 - 144 ft
SAMPLE DATE	ACTION LIMIT	STANDARD	01/22/2013	04/16/2013	07/23/2013	10/09/2013	04/15/2014	10/16/2014	04/13/2015	10/15/2015	01/20/2016	04/19/2016	07/18/2016	10/11/2016	1/18/2017	04/10/2017	10/02/2017
VOCs																	
1,1,1,2-Tetrachloroethane	7	70	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.46	< 0.11	< 0.22	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11
1,1,1-Trichloroethane	40	200	< 0.2	< 0.2	< 0.2	< 0.2	< 0.20	< 0.20	< 0.20	< 0.38	< 0.10	< 0.20	< 0.10	< 0.10	< 0.10	< 0.10	< 0.1
1,1,2-Trichloroethane	0.5	5	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.35	< 0.10	< 0.20	< 0.10	< 0.10	< 0.10	< 0.10	< 0.1
1,1-Dichloroethene	0.7	7	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.39	< 0.14	< 0.28	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14
1,2,4-Trimethylbenzene	96	480	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.36	< 0.060	< 0.12	< 0.060	< 0.060	< 0.060	< 0.060	< 0.06
1,2-Dibromoethane	0.005	0.05	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36	< 0.39	< 0.13	< 0.26	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13
1,2-Dichlorobenzene	60	600	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.33	< 0.076	< 0.15	< 0.076	< 0.076	< 0.076	< 0.076	< 0.076
1,2-Dichloropropane	0.5	5	< 0.2	< 0.2	< 0.2	< 0.2	< 0.20	< 0.20	< 0.20	< 0.43	< 0.10	< 0.20	< 0.10	< 0.10	< 0.10	< 0.10	< 0.1
1,2,3-Trichlorobenzene	NE	NE	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.46	< 0.045	< 0.090	< 0.045	< 0.045	< 0.045	< 0.045	< 0.045
1,2,4-Trichlorobenzene	14	70	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.34	< 0.077	< 0.15	< 0.077	< 0.077	< 0.077	< 0.077	< 0.077
1,3,5-Trimethylbenzene	96	480	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.25	< 0.075	< 0.15	< 0.075	< 0.075	< 0.075	< 0.075	< 0.075
2-Butanone	800	4000	NA	NA	NA	NA	NA	NA	NA	NA	< 3.0	< 6.0	< 3.0	< 3.0	< 3.0	< 3.0	< 3
2-Hexanone	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	2.2 J	< 1.9	< 0.95	< 0.95	< 0.95	< 0.95	< 0.95
4-Methyl-2-pentanone	50	500	NA	NA	NA	NA	NA	NA	NA	NA	< 0.77	< 1.5	< 0.77	< 0.77	< 0.77	< 0.77	< 0.77
Acetone	1800	9000	NA	NA	NA	NA	NA	NA	NA	NA	< 3.4	< 6.8	< 3.4	< 3.4	< 3.4	< 3.4	< 3.4
Benzene	0.5	5	< 0.074	< 0.074	< 0.074	< 0.074	< 0.074	< 0.074	< 0.074	< 0.15	< 0.089	< 0.18	< 0.089	< 0.089	< 0.089	< 0.089	< 0.089
Bromodichloromethane	0.06	0.6	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.37	< 0.077	< 0.15	< 0.077	< 0.077	< 0.077	< 0.077	< 0.077
Bromoform	0.44	4.4	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.48	< 0.088	< 0.18	< 0.088	< 0.088	< 0.088	< 0.088	< 0.088
Bromomethane	1	10	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.80	< 0.59	< 1.2	< 0.59	< 0.59	< 0.59	< 0.59	< 0.59
Carbon disulfide	200	1000	NA	NA	NA	NA	NA	NA	NA	NA	< 0.053	< 0.11	< 0.053	< 0.053	< 0.053	< 0.053	< 0.053
Carbon tetrachloride	0.5	5	< 0.26	< 0.26	< 0.26	< 0.26	< 0.26	< 0.26	< 0.26	< 0.38	< 0.038	< 0.076	< 0.038	< 0.038	< 0.038	< 0.038	< 0.038
Chloroform	0.6	6	< 0.2	< 0.2	< 0.2	< 0.2	< 0.20	< 0.20	< 0.20	< 0.37	< 0.062	< 0.12	< 0.062	< 0.062	< 0.062	< 0.062	< 0.062
Chloromethane	3	30	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.32	< 0.16	< 0.32	< 0.16	0.60 BJ	0.55 BJ	< 0.16	0.4 J
cis-1,2-Dichloroethene	7	70	1.9	1.2	< 0.12	< 0.12	1.4	1.4	1.2	1.2	1.2	1.4	1.4	1.7	1.5 B	1.5	1.8
Dichlorodifluoromethane	200	1000	< 0.2	< 0.2	< 0.2 *	< 0.2	< 0.20	< 0.20	< 0.20	< 0.54	< 0.11	< 0.22	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11
Ethylbenzene	140	700	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.18	< 0.054	< 0.11	< 0.054	< 0.054	< 0.054	< 0.054	< 0.054
Isopropylbenzene	NE	NE	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.39	< 0.081	< 0.16	< 0.081	< 0.081	< 0.081	< 0.081	< 0.081
m,p-Xylene	400	2000	NA	NA	NA	NA	NA	NA	NA	NA	< 0.057	< 0.11	< 0.057	< 0.057	< 0.057	< 0.057	< 0.057
Methyl tert-butyl ether	12	60	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.39	< 0.14	< 0.28	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14
Methylene chloride	0.5	5	< 0.68	< 0.68	< 0.68	< 0.68	< 0.68	< 0.68	< 0.68	< 1.6	0.35 J	< 0.28	< 0.14	< 0.14	0.27 BJ	< 0.14	< 0.14
Naphthalene	10	100	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.34	< 0.088	< 0.18	< 0.088	< 0.088	< 0.088	< 0.088	< 0.088
n-Butylbenzene	NE	NE	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.39	< 0.14	< 0.28	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14
n-Hexane	120	600	NA	NA	NA	NA	NA	NA	NA	NA	< 0.21	< 0.42	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21
n-Propylbenzene	NE	NE	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.41	< 0.10	< 0.20	< 0.10	< 0.10	< 0.10	< 0.10	< 0.1
o-Xylene	400	2000	NA	NA	NA	NA	NA	NA	NA	NA	< 0.058	< 0.12	< 0.058	< 0.058	< 0.058	< 0.058	< 0.058
p-Isopropyltoluene	NE	NE	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.36	< 0.085	< 0.17	< 0.085	< 0.085	< 0.085	< 0.085	< 0.085
sec-Butylbenzene	NE	NE	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.40	< 0.13	< 0.26	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13
Styrene	10	100	< 0.1	< 0.1	< 0.1	< 0.1	< 0.10	< 0.10	< 0.10	< 0.39	< 0.065	< 0.13	< 0.065	< 0.065	< 0.065	< 0.065	< 0.065
tert-Butylbenzene	NE	NE	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.40	< 0.12	< 0.24	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12
Tetrachloroethene	0.5	5	***14***	***11***	***23***	***37***	***38***	***35***	***27***	***33***	***30***	***28***	***35***	***29***	***26***	***37***	***30***
Toluene	160	800	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.15	< 0.053	< 0.11	< 0.053	< 0.053	0.14 BJ	< 0.053	< 0.053
trans-1,2-Dichloroethene	20	100	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.35	< 0.11	< 0.22	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11
Trichloroethene	0.5	5	***2.1***	***2***	***3***	***6.1***	***6.1***	***6.9***	***5.3***	***5.7***	***5.1***	***5***	***5.9***	***6.1***	***5.2***	***6.4***	***6.3***
Vinyl chloride	0.02	0.2	< 0.1	< 0.1	< 0.1	< 0.1	< 0.10	< 0.10	< 0.10	< 0.20	< 0.16	< 0.32	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16
Xylenes, Total	400	2000	< 0.068	< 0.068	< 0.068	< 0.068	< 0.068	< 0.068	< 0.068	< 0.22	< 0.058	< 0.12	< 0.058	< 0.058	< 0.12	< 0.12	< 0.12
Total PCBs																	
Aroclor-1016	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1232	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1242	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1248	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Detected PCBs	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dissolved PCBs																	
Aroclor-1016	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1232	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1242	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1248	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Detected PCBs	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Solids																	
Total Dissolved Solids	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Suspended Solids (TSS)	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

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Table 18
Groundwater Analytical Results Summary
Madison-Kipp Corporation
Madison, Wisconsin

WELL ID SCREEN INTERVAL (feet bgs) SAMPLE DATE	PREVENTIVE ACTION LIMIT	ENFORCEMENT STANDARD	MP-16 175 - 179 ft 01/22/2013	MP-16 175 - 179 ft 04/16/2013	MP-16 175 - 179 ft 07/23/2013	MP-16 175 - 179 ft 10/09/2013	MP-16 175 - 179 ft 04/15/2014	MP-16 175 - 179 ft 10/16/2014	MP-16 175 - 179 ft 04/13/2015	MP-16 175 - 179 ft 10/15/2015	MP-16 175 - 179 ft 10/11/2016	MP-16 175 - 179 ft 10/02/2017
VOCs												
1,1,1,2-Tetrachloroethane	7	70	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.46	< 0.11	< 0.11
1,1,1-Trichloroethane	40	200	< 0.2	< 0.2	< 0.2	< 0.2	< 0.20	< 0.20	< 0.20	< 0.38	< 0.10	< 0.1
1,1,2-Trichloroethane	0.5	5	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.35	< 0.10	< 0.1
1,1-Dichloroethene	0.7	7	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.39	< 0.14	< 0.14
1,2,4-Trimethylbenzene	96	480	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.36	< 0.060	< 0.06
1,2-Dibromoethane	0.005	0.05	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36	< 0.39	< 0.13	< 0.13
1,2-Dichlorobenzene	60	600	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.33	< 0.076	< 0.076
1,2-Dichloropropane	0.5	5	< 0.2	< 0.2	< 0.2	< 0.2	< 0.20	< 0.20	< 0.20	< 0.43	< 0.10	< 0.1
1,2,3-Trichlorobenzene	NE	NE	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.46	< 0.045	< 0.045
1,2,4-Trichlorobenzene	14	70	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.34	< 0.077	< 0.077
1,3,5-Trimethylbenzene	96	480	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.25	< 0.075	< 0.075
2-Butanone	800	4000	NA	NA	NA	NA	NA	NA	NA	NA	< 3.0	< 3
2-Hexanone	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	< 0.95	< 0.95
4-Methyl-2-pentanone	50	500	NA	NA	NA	NA	NA	NA	NA	NA	< 0.77	< 0.77
Acetone	1800	9000	NA	NA	NA	NA	NA	NA	NA	NA	< 3.4	< 3.4
Benzene	0.5	5	< 0.074	< 0.074	< 0.074	< 0.074	< 0.074	< 0.074	< 0.074	< 0.15	< 0.089	< 0.089
Bromodichloromethane	0.06	0.6	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.37	< 0.077	< 0.077
Bromoform	0.44	4.4	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.48	< 0.088	< 0.088
Bromomethane	1	10	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.80	< 0.59	< 0.59
Carbon disulfide	200	1000	NA	NA	NA	NA	NA	NA	NA	NA	< 0.053	< 0.053
Carbon tetrachloride	0.5	5	< 0.26	< 0.26	< 0.26	< 0.26	< 0.26	< 0.26	< 0.26	< 0.38	< 0.038	< 0.038
Chloroform	0.6	6	< 0.2	< 0.2	< 0.2	< 0.2	< 0.20	< 0.20	< 0.20	< 0.37	< 0.062	< 0.062
Chloromethane	3	30	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.32	< 0.16	0.81 J
cis-1,2-Dichloroethene	7	70	1.9	0.99 J	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	< 0.41	< 0.11	< 0.11
Dichlorodifluoromethane	200	1000	< 0.2	< 0.2	< 0.2 *	< 0.2	< 0.20	< 0.20	< 0.20	< 0.54	< 0.11	< 0.11
Ethylbenzene	140	700	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.18	< 0.054	< 0.054
Isopropylbenzene	NE	NE	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.39	< 0.081	< 0.081
m,p-Xylene	400	2000	NA	NA	NA	NA	NA	NA	NA	NA	< 0.057	< 0.057
Methyl tert-butyl ether	12	60	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.39	< 0.14	< 0.14
Methylene chloride	0.5	5	< 0.68	< 0.68	< 0.68	< 0.68	< 0.68	< 0.68	< 0.68	< 1.6	< 0.14	0.16 J
Naphthalene	10	100	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.34	< 0.088	< 0.088
n-Butylbenzene	NE	NE	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.39	< 0.14	< 0.14
n-Hexane	120	600	NA	NA	NA	NA	NA	NA	NA	NA	< 0.21	< 0.21
n-Propylbenzene	NE	NE	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.41	< 0.10	< 0.1
o-Xylene	400	2000	NA	NA	NA	NA	NA	NA	NA	NA	< 0.058	< 0.058
p-Isopropyltoluene	NE	NE	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.36	< 0.085	< 0.085
sec-Butylbenzene	NE	NE	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.40	< 0.13	< 0.13
Styrene	10	100	< 0.1	< 0.1	< 0.1	< 0.1	< 0.10	< 0.10	< 0.10	< 0.39	< 0.065	0.07 BJ
tert-Butylbenzene	NE	NE	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.40	< 0.12	< 0.12
Tetrachloroethene	0.5	5	***13***	***6.7***	***2.2***	***3.7***	***3.8***	***4.8***	***4.2***	***2.7***	***3.1***	***4.2***
Toluene	160	800	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.15	0.080 J	< 0.053
trans-1,2-Dichloroethene	20	100	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.35	< 0.11	< 0.11
Trichloroethene	0.5	5	***2.2***	***1.2***	0.42 J	***0.98***	***0.87***	***0.98***	***0.69***	0.42 J	***0.54***	***0.64***
Vinyl chloride	0.02	0.2	< 0.1	< 0.1	< 0.1	< 0.1	< 0.10	< 0.10	< 0.10	< 0.20	< 0.16	< 0.16
Xylenes, Total	400	2000	< 0.068	< 0.068	< 0.068	< 0.068	< 0.068	< 0.068	< 0.068	< 0.22	< 0.058	< 0.12
Total PCBs												
Aroclor-1016	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1232	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1242	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1248	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Detected PCBs	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dissolved PCBs												
Aroclor-1016	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1232	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1242	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1248	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Detected PCBs	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Solids												
Total Dissolved Solids	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Suspended Solids (TSS)	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

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Table 18
Groundwater Analytical Results Summary
Madison-Kipp Corporation
Madison, Wisconsin

WELL ID			MW-17	MW-17	MW-17	MW-17	MW-17	MW-17	MW-17	MW-17	MW-17	MW-17	MW-17	MW-17	MW-17	MW-17	MW-17
SCREEN INTERVAL (feet bgs)	PREVENTIVE	ENFORCEMENT	160 - 170 ft	160 - 170 ft	160 - 170 ft	160 - 170 ft	160 - 170 ft	160 - 170 ft	160 - 170 ft	160 - 170 ft	160 - 170 ft	160 - 170 ft	160 - 170 ft	160 - 170 ft	160 - 170 ft	160 - 170 ft	160 - 170 ft
SAMPLE DATE	ACTION LIMIT	STANDARD	01/17/2013	04/20/2013	07/18/2013	10/08/2013	04/22/2014	10/22/2014	04/15/2015	10/22/2015	01/22/2016	04/20/2016	07/19/2016	10/12/2016	1/20/2017	04/12/2017	10/09/2017
VOCs																	
1,1,1,2-Tetrachloroethane	7	70	< 0.5	< 0.5	< 0.25	< 0.5	< 0.50	< 0.50	< 1.3	< 0.92	< 5.5	< 11	< 2.8	< 2.2	< 5.5	< 5.5	< 2.8
1,1,1-Trichloroethane	40	200	< 0.4	< 0.4	< 0.2	< 0.4	< 0.40	< 0.40	< 1.0	< 0.76	< 5.0	< 10	< 2.5	< 2.0	< 5.0	< 5.0	< 2.5
1,1,2-Trichloroethane	0.5	5	< 0.56	***11***	< 0.28	< 0.56	< 0.56	< 0.56	< 1.4	< 0.70	< 5.0	< 10	< 2.5	< 2.0	< 5.0	< 5.0	< 2.5
1,1-Dichloroethene	0.7	7	< 0.62	< 0.62	< 0.31	< 0.62	< 0.62	< 0.62	< 1.6	< 0.78	< 7.0	< 14	< 3.5	< 2.8	< 7.0	< 7.0	< 3.5
1,2,4-Trimethylbenzene	96	480	< 0.28	< 0.28	< 0.14	< 0.28	< 0.28	< 0.28	< 0.70	< 0.72	< 3.0	< 6.0	< 1.5	< 1.2	< 3.0	< 3.0	< 1.5
1,2-Dibromoethane	0.005	0.05	< 0.72	< 0.72	< 0.36	< 0.72	< 0.72	< 0.72	< 1.8	< 0.77	< 6.5	< 13	< 3.3	< 2.6	< 6.5	< 6.5	< 3.3
1,2-Dichlorobenzene	60	600	< 0.54	< 0.54	< 0.27	< 0.54	< 0.54	< 0.54	< 1.4	< 0.67	< 3.8	< 7.6	< 1.9	< 1.5	< 3.8	< 3.8	< 1.9
1,2-Dichloropropane	0.5	5	< 0.4	< 0.4	< 0.2	< 0.4	< 0.40	< 0.40	< 1.0	< 0.86	< 5.0	< 10	< 2.5	< 2.0	< 5.0	< 5.0	< 2.5
1,2,3-Trichlorobenzene	NE	NE	< 0.48	< 0.48	< 0.24	< 0.48	< 0.48	< 0.48	< 1.2	< 0.92	< 2.3	< 4.5	< 1.1	< 0.90	< 2.3	< 2.3	< 1.1
1,2,4-Trichlorobenzene	14	70	< 0.62	< 0.62	< 0.31	< 0.62	< 0.62	< 0.62	< 1.6	< 0.68	< 3.9	< 7.7	< 1.9	< 1.5	< 3.9	< 3.9	< 1.9
1,3,5-Trimethylbenzene	96	480	< 0.36	< 0.36	< 0.18	< 0.36	< 0.36	< 0.36	< 0.90	< 0.51	< 3.8	< 7.5	< 1.9	< 1.5	< 3.8	< 3.8	< 1.9
2-Butanone	800	4000	NA	NA	NA	NA	NA	NA	NA	NA	< 150	< 300	< 75	< 60	< 150	< 150	< 75
2-Hexanone	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	< 48	< 95	< 24	< 19	< 48	< 48	< 24
4-Methyl-2-pentanone	50	500	NA	NA	NA	NA	NA	NA	NA	NA	< 39	< 77	< 19	< 15	< 39	< 39	< 19
Acetone	1800	9000	NA	NA	NA	NA	NA	NA	NA	NA	< 170	< 340	< 85	< 68	< 170	< 170	< 85
Benzene	0.5	5	***20***	***1.2***	< 0.074	< 0.15	< 0.15	< 0.15	< 0.37	< 0.29	< 4.5	< 8.9	< 2.2	< 1.8	< 4.5	< 4.5	< 2.2
Bromodichloromethane	0.06	0.6	< 0.34	< 0.34	< 0.17	< 0.34	< 0.34	< 0.34	< 0.85	< 0.74	< 3.9	< 7.7	< 1.9	< 1.5	< 3.9	< 3.9	< 1.9
Bromoform	0.44	4.4	< 0.56	< 0.56	< 0.28	< 0.56	< 0.56	< 0.56	< 1.4	< 0.97	< 4.4	< 8.8	< 2.2	< 1.8	< 4.4	< 4.4	< 2.2
Bromomethane	1	10	< 0.62	< 0.62	< 0.31	< 0.62	< 0.62	< 0.62	< 1.6	< 1.6	< 30	< 59	< 15	< 12	< 30	< 30	< 15
Carbon disulfide	200	1000	NA	NA	NA	NA	NA	NA	NA	NA	< 2.7	< 5.3	< 1.3	< 1.1	< 2.7	18 J	< 1.3
Carbon tetrachloride	0.5	5	***1.2 J***	< 0.52	< 0.26	< 0.52	< 0.52	< 0.52	< 1.3	< 0.77	< 1.9	< 3.8	< 0.95	< 0.76	< 1.9	< 1.9	< 0.95
Chloroform	0.6	6	***1.8 J***	< 0.4	***0.86 J***	< 0.4	***1.1 J***	***1.5 J***	< 1.0	***2.8***	***3.5 J***	***14 BJ***	***3.5 J***	***4.2 J***	***6.5 BJ***	***13 J***	***4.5 J***
Chloromethane	3	30	< 0.36	< 0.36	< 0.18	< 0.36	< 0.36	< 0.36	< 0.90	< 0.64	< 8.0	< 16	< 4.0	***15 BJ***	< 8.0	***22 J+***	***9.3 J***
cis-1,2-Dichloroethene	7	70	3.5	1.7 J	1.6	< 0.24	2.7	3.4	5.3	5.9	***7.5 J***	< 11	***8.8 J***	4.8 J	< 5.5	< 5.5	5.3 J
Dichlorodifluoromethane	200	1000	< 0.4	< 0.4	< 0.2	< 0.4	< 0.40	< 0.40	< 1.0	< 1.1	< 5.5	< 11	3.0 J	< 2.2	< 5.5	< 5.5	< 2.8
Ethylbenzene	140	700	< 0.26	< 0.26	< 0.13	< 0.26	< 0.26	< 0.26	< 0.65	< 0.37	< 2.7	< 5.4	< 1.4	< 1.1	< 2.7	< 2.7	< 1.4
Isopropylbenzene	NE	NE	< 0.28	< 0.28	< 0.14	< 0.28	< 0.28	< 0.28	< 0.70	< 0.77	< 4.1	< 8.1	< 2.0	< 1.6	< 4.1	< 4.1	< 2
m,p-Xylene	400	2000	NA	NA	NA	NA	NA	NA	NA	NA	< 2.9	< 5.7	< 1.4	< 1.1	< 2.9	< 2.9	< 1.4
Methyl tert-butyl ether	12	60	< 0.48	< 0.48	< 0.24	< 0.48	< 0.48	< 0.48	< 1.2	< 0.79	< 7.0	< 14	< 3.5	< 2.8	< 7.0	< 7.0	< 3.5
Methylene chloride	0.5	5	< 1.4	< 1.4	< 0.68	< 1.4	< 1.4	< 1.4	< 3.4	< 3.3	< 7.0	< 14	***6.5 BJ***	< 2.8	< 7.0	< 7.0	< 3.5
Naphthalene	10	100	< 0.32	< 0.32	< 0.16	< 0.32	< 0.32	< 0.32	< 0.80	< 0.67	< 4.4	< 8.8	< 2.2	< 1.8	< 4.4	< 4.4	2.8 BJ
n-Butylbenzene	NE	NE	< 0.26	< 0.26	< 0.13	< 0.26	< 0.26	< 0.26	< 0.65	< 0.78	< 7.0	< 14	< 3.5	< 2.8	< 7.0	< 7.0	< 3.5
n-Hexane	120	600	NA	NA	NA	NA	NA	NA	NA	NA	< 11	< 21	< 5.3	< 4.2	< 11	< 11	< 5.3
n-Propylbenzene	NE	NE	< 0.26	< 0.26	< 0.13	< 0.26	< 0.26	< 0.26	< 0.65	< 0.83	< 5.0	< 10	< 2.5	< 2.0	< 5.0	< 5.0	< 2.5
o-Xylene	400	2000	NA	NA	NA	NA	NA	NA	NA	NA	< 2.9	< 5.8	< 1.5	< 1.2	< 2.9	< 2.9	< 1.5
p-Isopropyltoluene	NE	NE	< 0.34	< 0.34	< 0.17	< 0.34	< 0.34	< 0.34	< 0.85	< 0.72	< 4.3	< 8.5	< 2.1	< 1.7	< 4.3	< 4.3	< 2.1
sec-Butylbenzene	NE	NE	< 0.3	< 0.3	< 0.15	< 0.3	< 0.30	< 0.30	< 0.75	< 0.80	< 6.5	< 13	< 3.3	< 2.6	< 6.5	< 6.5	< 3.3
Styrene	10	100	< 0.2	< 0.2	< 0.1	< 0.2	< 0.20	< 0.20	< 0.50	< 0.77	< 3.3	< 6.5	< 1.6	< 1.3	< 3.3	< 3.3	1.8 J
tert-Butylbenzene	NE	NE	< 0.28	< 0.28	< 0.14	< 0.28	< 0.28	< 0.28	< 0.70	< 0.80	< 6.0	< 12	< 3.0	< 2.4	< 6.0	< 6.0	< 3
Tetrachloroethene	0.5	5	***1300***	***790***	***470***	***800***	***970***	***920***	***980***	***860***	***1200***	***1100***	***950***	***970***	***1000***	***680***	***790 B***
Toluene	160	800	1.8	< 0.22	0.69	< 0.22	< 0.22	< 0.22	< 0.55	< 0.30	< 2.7	< 5.3	< 1.3	< 1.1	7.0 BJ	6.5 J	< 1.3
trans-1,2-Dichloroethene	20	100	1.5 J	< 0.5	0.68 J	< 0.5	< 0.50	< 0.50	< 1.3	1.0 J	< 5.5	< 11	< 2.8	< 2.2	< 5.5	< 5.5	< 2.8
Trichloroethene	0.5	5	***86***	***46***	***33***	***49***	***51***	***55***	***67***	***63***	***80***	***69***	***66***	***68***	***59 B***	***52***	***59***
Vinyl chloride	0.02	0.2	< 0.2	< 0.2	< 0.1	< 0.2	< 0.20	< 0.20	< 0.50	< 0.41	< 8.0	< 16	< 4.0	< 3.2	< 8.0	< 8.0	< 4
Xylenes, Total	400	2000	3.1	< 0.14	0.56 J	< 0.14	< 0.14	< 0.14	< 0.34	< 0.44	< 2.9	< 5.8	< 1.5	< 1.2	< 5.8	< 5.8	< 2.9
Total PCBs																	
Aroclor-1016	0.003	0.03	< 0.17	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1232	0.003	0.03	< 0.093	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1242	0.003	0.03	< 0.13	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1248	0.003	0.03	< 0.11	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Detected PCBs	0.003	0.03	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dissolved PCBs																	
Aroclor-1016	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1232	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1242	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1248	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Detected PCBs	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Solids																	
Total Dissolved Solids	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Suspended Solids (TSS)	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

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Table 18
Groundwater Analytical Results Summary
Madison-Kipp Corporation
Madison, Wisconsin

WELL ID			MW-18S	MW-18S	MW-18S	MW-18S	MW-18S	MW-18S	MW-18S	MW-18S	MW-18S	MW-18S	MW-18S	MW-18S	MW-18S	MW-18S	MW-18S	MW-18S
SCREEN INTERVAL (feet bgs)	PREVENTIVE	ENFORCEMENT	20 - 30 ft	20 - 30 ft	20 - 30 ft	20 - 30 ft	20 - 30 ft	20 - 30 ft	20 - 30 ft	20 - 30 ft	20 - 30 ft	20 - 30 ft	20 - 30 ft	20 - 30 ft	20 - 30 ft	20 - 30 ft	20 - 30 ft	20 - 30 ft
SAMPLE DATE	ACTION LIMIT	STANDARD	11/28/2012	12/18/2012	12/19/2012	12/28/2012	01/03/2013	01/15/2013	01/15/2013	01/31/2013	02/12/2013	02/12/2013	02/28/2013	03/12/2013	04/19/2013	07/17/2013	10/09/2013	04/22/2014	10/23/2014
VOCs																			
1,1,1,2-Tetrachloroethane	7	70	< 1.3	NA	NA	NA	NA	NA	< 0.25	NA	NA	< 0.5	NA	< 1.3	< 1.3	< 1.3	< 1.3	< 0.25	< 0.25
1,1,1-Trichloroethane	40	200	< 1	NA	NA	NA	NA	NA	< 0.2	NA	NA	< 0.4	NA	< 1	< 1	< 1	< 1	< 0.20	< 0.20
1,1,2-Trichloroethane	0.5	5	< 1.4	NA	NA	NA	NA	NA	< 0.28	NA	NA	< 0.56	NA	< 1.4	< 1.4	< 1.4	< 1.4	< 0.28	< 0.28
1,1-Dichloroethene	0.7	7	< 1.6	NA	NA	NA	NA	NA	< 0.31	NA	NA	< 0.62	NA	< 1.6	< 1.6	< 1.6	< 1.6	< 0.31	< 0.31
1,2,4-Trimethylbenzene	96	480	< 0.7	NA	NA	NA	NA	NA	< 0.14	NA	NA	< 0.28	NA	< 0.7	< 0.7	< 0.7	< 0.7	< 0.14	< 0.14
1,2-Dibromoethane	0.005	0.05	< 1.8	NA	NA	NA	NA	NA	< 0.36	NA	NA	< 0.72	NA	< 1.8	< 1.8	< 1.8	< 1.8	< 0.36	< 0.36
1,2-Dichlorobenzene	60	600	< 1.4	NA	NA	NA	NA	NA	< 0.27	NA	NA	< 0.54	NA	< 1.4	< 1.4	< 1.4	< 1.4	< 0.27	< 0.27
1,2-Dichloropropane	0.5	5	< 1	NA	NA	NA	NA	NA	< 0.2	NA	NA	< 0.4	NA	< 1	< 1	< 1	< 1	< 0.20	< 0.20
1,2,3-Trichlorobenzene	NE	NE	< 1.2	NA	NA	NA	NA	NA	< 0.24	NA	NA	< 0.48	NA	< 1.2	< 1.2	< 1.2	< 1.2	< 0.24	< 0.24
1,2,4-Trichlorobenzene	14	70	< 1.6	NA	NA	NA	NA	NA	< 0.31	NA	NA	< 0.62	NA	< 1.6	< 1.6	< 1.6	< 1.6	< 0.31	< 0.31
1,3,5-Trimethylbenzene	96	480	< 0.9	NA	NA	NA	NA	NA	< 0.18	NA	NA	< 0.36	NA	< 0.9	< 0.9	< 0.9	< 0.9	< 0.18	< 0.18
2-Butanone	800	4000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Hexanone	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Methyl-2-pentanone	50	500	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Acetone	1800	9000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzene	0.5	5	***3.2***	NA	NA	NA	NA	NA	0.46 J	NA	NA	***1.4***	NA	***1.9 J***	***2.2 J***	< 0.37	***1.3 J***	0.38 J	0.46 J
Bromodichloromethane	0.06	0.6	< 0.85	NA	NA	NA	NA	NA	< 0.17	NA	NA	< 0.34	NA	< 0.85	< 0.85	< 0.85	< 0.85	< 0.17	< 0.17
Bromoform	0.44	4.4	< 1.4	NA	NA	NA	NA	NA	< 0.28	NA	NA	< 0.56	NA	< 1.4	< 1.4	< 1.4	< 1.4	< 0.28	< 0.28
Bromomethane	1	10	< 1.6	NA	NA	NA	NA	NA	< 0.31	NA	NA	< 0.62	NA	< 1.6	< 1.6	< 1.6	< 1.6	< 0.31	< 0.31
Carbon disulfide	200	1000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon tetrachloride	0.5	5	< 1.3	NA	NA	NA	NA	NA	< 0.26	NA	NA	< 0.52	NA	< 1.3	< 1.3	< 1.3	< 1.3	< 0.26	< 0.26
Chloroform	0.6	6	***7.2***	NA	NA	NA	NA	NA	***2.3***	NA	NA	***4.5***	NA	***7.5***	***6.2***	< 1	***5.2***	***1.4***	***2***
Chloromethane	3	30	< 0.9	NA	NA	NA	NA	NA	< 0.18	NA	NA	< 0.36	NA	< 0.9	< 0.9	< 0.9	< 0.9	< 0.18	< 0.18
cis-1,2-Dichloroethene	7	70	***150***	NA	NA	NA	NA	NA	***40***	NA	NA	***77***	NA	***110***	***99***	***70***	***78***	***21***	***26***
Dichlorodifluoromethane	200	1000	< 1	NA	NA	NA	NA	NA	< 0.2	NA	NA	< 0.4	NA	< 1	< 1	< 1	< 1	< 0.20	< 0.20
Ethylbenzene	140	700	< 0.65	NA	NA	NA	NA	NA	< 0.13	NA	NA	< 0.26	NA	< 0.65	< 0.65	< 0.65	< 0.65	< 0.13	< 0.13
Isopropylbenzene	NE	NE	< 0.7	NA	NA	NA	NA	NA	< 0.14	NA	NA	< 0.28	NA	< 0.7	< 0.7	< 0.7	< 0.7	< 0.14	< 0.14
m,p-Xylene	400	2000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methyl tert-butyl ether	12	60	< 1.2	NA	NA	NA	NA	NA	< 0.24	NA	NA	< 0.48	NA	< 1.2	< 1.2	< 1.2	< 1.2	< 0.24	< 0.24
Methylene chloride	0.5	5	< 3.4	NA	NA	NA	NA	NA	< 0.68	NA	NA	< 1.4	NA	< 3.4	< 3.4	< 3.4	< 3.4	< 0.68	< 0.68
Naphthalene	10	100	< 0.8	NA	NA	NA	NA	NA	< 0.16	NA	NA	< 0.32	NA	< 0.8	< 0.8	< 0.8	< 0.8	< 0.16	< 0.16
n-Butylbenzene	NE	NE	< 0.65	NA	NA	NA	NA	NA	< 0.13	NA	NA	< 0.26	NA	< 0.65	< 0.65	< 0.65	< 0.65	< 0.13	< 0.13
n-Hexane	120	600	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
n-Propylbenzene	NE	NE	< 0.65	NA	NA	NA	NA	NA	< 0.13	NA	NA	< 0.26	NA	< 0.65	< 0.65	< 0.65	< 0.65	< 0.13	< 0.13
o-Xylene	400	2000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
p-Isopropyltoluene	NE	NE	< 0.85	NA	NA	NA	NA	NA	< 0.17	NA	NA	< 0.34	NA	< 0.85	< 0.85	< 0.85	< 0.85	< 0.17	< 0.17
sec-Butylbenzene	NE	NE	< 0.75	NA	NA	NA	NA	NA	< 0.15	NA	NA	< 0.3	NA	< 0.75	< 0.75	< 0.75	< 0.75	< 0.15	< 0.15
Styrene	10	100	< 0.5	NA	NA	NA	NA	NA	< 0.1	NA	NA	< 0.2	NA	< 0.5	< 0.5	< 0.5	< 0.5	< 0.10	< 0.10
tert-Butylbenzene	NE	NE	< 0.7	NA	NA	NA	NA	NA	< 0.14	NA	NA	< 0.28	NA	< 0.7	< 0.7	< 0.7	< 0.7	< 0.14	< 0.14
Tetrachloroethene	0.5	5	***3300***	NA	NA	NA	NA	NA	***690***	NA	NA	***1900***	NA	***2600***	***2600***	***2900***	***1800***	***520***	***520***
Toluene	160	800	1.1 J	NA	NA	NA	NA	NA	< 0.11	NA	NA	< 0.22	NA	< 0.55	< 0.55	< 0.55	< 0.55	< 0.11	< 0.11
trans-1,2-Dichloroethene	20	100	7.4	NA	NA	NA	NA	NA	2.6	NA	NA	3.8	NA	5.3	4.1 J	2.6 J	4.6 J	1.3	1.9
Trichloroethene	0.5	5	***230***	NA	NA	NA	NA	NA	***59***	NA	NA	***130***	NA	***160***	***170***	***140***	***150***	***43***	***65***
Vinyl chloride	0.02	0.2	< 0.5	NA	NA	NA	NA	NA	< 0.1	NA	NA	< 0.2	NA	< 0.5	< 0.5	< 0.5	< 0.5	< 0.10	< 0.10
Xylenes, Total	400	2000	< 0.34	NA	NA	NA	NA	NA	< 0.068	NA	NA	< 0.14	NA	< 0.34	< 0.34	< 0.34	< 0.34	< 0.068	< 0.068
Total PCBs																			
Aroclor-1016	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1232	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1242	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1248	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Detected PCBs	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dissolved PCBs																			
Aroclor-1016	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1232	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1242	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1248	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Detected PCBs	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Solids																			
Total Dissolved Solids	NE	NE	3300	1700	4800	4300	3900	3200	2700	2800	20000	12000	15000	NA	NA	NA	NA	NA	NA
Total Suspended Solids (TSS)	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

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Table 18
Groundwater Analytical Results Summary
Madison-Kipp Corporation
Madison, Wisconsin

WELL ID			MW-19D	MW-19D	MW-19D	MW-19D	MW-19D	MW-19D	MW-19D	MW-19D	MW-19D	MW-19D	MW-19D	MW-19D	MW-19D	MW-19D	MW-19D	MW-19D[1]	MW-19D	MW-19D	MW-19D	MW-19D	MW-19D[1]	MW-19D
SCREEN INTERVAL (feet bgs)	PREVENTIVE	ENFORCEMENT	60 - 90 ft	60 - 90 ft	60 - 90 ft	60 - 90 ft	60 - 90 ft	60 - 90 ft	60 - 90 ft	60 - 90 ft	60 - 90 ft	60 - 90 ft	60 - 90 ft	60 - 90 ft	60 - 90 ft	60 - 90 ft	60 - 90 ft	60 - 90 ft	60 - 90 ft	60 - 90 ft	60 - 90 ft	60 - 90 ft	60 - 90 ft	60 - 90 ft
SAMPLE DATE	ACTION LIMIT	STANDARD	11/29/2012	12/11/2012	12/12/2012	12/13/2012	12/14/2012	12/15/2012	12/16/2012	12/17/2012	12/18/2012	12/19/2012	12/27/2012	01/02/2013	01/16/2013	01/16/2013	01/30/2013	02/11/2013	02/28/2013	03/11/2013	04/19/2013	07/17/2013	10/09/2013	04/17/2014	10/21/2014
VOCs																								
1,1,1,2-Tetrachloroethane	7	70	< 1.3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 1.3	NA	< 1.3	NA	< 1.3	< 1.3	< 1.3	< 1.3	< 1.3	< 0.50
1,1,1-Trichloroethane	40	200	< 1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 1	NA	< 1	NA	< 1	< 1	< 1	< 1	< 1.0	< 0.40
1,1,2-Trichloroethane	0.5	5	< 1.4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 1.4	NA	< 1.4	NA	< 1.4	< 1.4	< 1.4	< 1.4	< 1.4	< 0.56
1,1-Dichloroethene	0.7	7	< 1.6	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 1.6	NA	< 1.6	NA	< 1.6	< 1.6	< 1.6	< 1.6	< 1.6	< 0.62
1,2,4-Trimethylbenzene	96	480	< 0.7	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.7	NA	< 0.7	NA	< 0.7	< 0.7	< 0.7	< 0.7	< 0.70	< 0.28
1,2-Dibromoethane	0.005	0.05	< 1.8	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 1.8	NA	< 1.8	NA	< 1.8	< 1.8	< 1.8	< 1.8	< 1.8	< 0.72
1,2-Dichlorobenzene	60	600	< 1.4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 1.4	NA	< 1.4	NA	< 1.4	< 1.4	< 1.4	< 1.4	< 1.4	< 0.54
1,2-Dichloropropane	0.5	5	< 1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 1	NA	< 1	NA	< 1	< 1	< 1	< 1	< 1.0	< 0.40
1,2,3-Trichlorobenzene	NE	NE	< 1.2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 1.2	NA	< 1.2	NA	< 1.2	< 1.2	< 1.2	< 1.2	< 1.2	< 0.48
1,2,4-Trichlorobenzene	14	70	< 1.6	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 1.6	NA	< 1.6	NA	< 1.6	< 1.6	< 1.6	< 1.6	< 1.6	< 0.62
1,3,5-Trimethylbenzene	96	480	< 0.9	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.9	NA	< 0.9	NA	< 0.9	< 0.9	< 0.9	< 0.9	< 0.90	< 0.36
2-Butanone	800	4000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Hexanone	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Methyl-2-pentanone	50	500	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Acetone	1800	9000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzene	0.5	5	< 0.37	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.37	NA	< 0.37	NA	< 0.37	< 0.37	< 0.37	< 0.37	< 0.37	< 0.15
Bromodichloromethane	0.06	0.6	< 0.85	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.85	NA	< 0.85	NA	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85	< 0.34
Bromoform	0.44	4.4	< 1.4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 1.4	NA	< 1.4	NA	< 1.4	< 1.4	< 1.4	< 1.4	< 1.4	< 0.56
Bromomethane	1	10	< 1.6	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 1.6	NA	< 1.6 *	NA	< 1.6	< 1.6	< 1.6	< 1.6	< 1.6	< 0.62
Carbon disulfide	200	1000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon tetrachloride	0.5	5	< 1.3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 1.3	NA	< 1.3	NA	< 1.3	< 1.3	< 1.3	< 1.3	< 1.3	< 0.52
Chloroform	0.6	6	< 1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 1	NA	< 1	NA	< 1	< 1	< 1	< 1	< 1.0	< 0.40
Chloromethane	3	30	< 0.9	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.9	NA	< 0.9	NA	< 0.9	< 0.9	< 0.9	< 0.9	< 0.90	< 0.36
cis-1,2-Dichloroethene	7	70	***530***	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	***170***	NA	***450***	NA	***420***	***520***	***540***	***300***	***49***	***240***
Dichlorodifluoromethane	200	1000	< 1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 1	NA	< 1	NA	< 1	< 1	< 1	< 1	< 1.0	< 0.40
Ethylbenzene	140	700	< 0.65	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.65	NA	< 0.65	NA	< 0.65	< 0.65	< 0.65	< 0.65	< 0.65	< 0.26
Isopropylbenzene	NE	NE	< 0.7	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.7	NA	< 0.7	NA	< 0.7	< 0.7	< 0.7	< 0.7	< 0.70	< 0.28
m,p-Xylene	400	2000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methyl tert-butyl ether	12	60	< 1.2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 1.2	NA	< 1.2	NA	< 1.2	< 1.2	< 1.2	< 1.2	< 1.2	< 0.48
Methylene chloride	0.5	5	< 3.4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 3.4	NA	< 3.4	NA	< 3.4	< 3.4	< 3.4	< 3.4	< 3.4	< 1.4
Naphthalene	10	100	< 0.8	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.8	NA	< 0.8	NA	< 0.8	< 0.8	< 0.8	< 0.8	< 0.80	< 0.32
n-Butylbenzene	NE	NE	< 0.65	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.65	NA	< 0.65	NA	< 0.65	< 0.65	< 0.65	< 0.65	< 0.65	< 0.26
n-Hexane	120	600	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
n-Propylbenzene	NE	NE	< 0.65	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.65	NA	< 0.65	NA	< 0.65	< 0.65	< 0.65	< 0.65	< 0.65	< 0.26
o-Xylene	400	2000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
p-Isopropyltoluene	NE	NE	< 0.85	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.85	NA	< 0.85	NA	< 0.85	< 0.85	< 0.85	< 0.85	< 0.85	< 0.34
sec-Butylbenzene	NE	NE	< 0.75	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.75	NA	< 0.75	NA	< 0.75	< 0.75	< 0.75	< 0.75	< 0.75	< 0.30
Styrene	10	100	< 0.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.5	NA	< 0.5	NA	< 0.5	< 0.5	< 0.5	< 0.5	< 0.50	< 0.20
tert-Butylbenzene	NE	NE	< 0.7	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.7	NA	< 0.7	NA	< 0.7	< 0.7	< 0.7	< 0.7	< 0.70	< 0.28
Tetrachloroethene	0.5	5	***2400***	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	***1700***	NA	***2700***	NA	***2100***	***2200***	***2700***	***1500***	***1400***	***1500***
Toluene	160	800	< 0.55	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.55	NA	< 0.55	NA	< 0.55	< 0.55	< 0.55	< 0.55	< 0.55	< 0.22
trans-1,2-Dichloroethene	20	100	7.2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 1.3	NA	4.4 J	NA	5.1	6.3	8.1	4.1 J	< 1.3	3.1
Trichloroethene	0.5	5	***230***	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	***69***	NA	***180***	NA	***180***	***200***	***240***	***150***	***68***	***140***
Vinyl chloride	0.02	0.2	***9.1***	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	***3.2***	NA	***8***	NA	***11***	***18***	***20***	***6.6***	< 0.50	***4.5***
Xylenes, Total	400	2000	< 0.34	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.34	NA	< 0.34	NA	< 0.34	< 0.34	< 0.34	< 0.34	< 0.34	< 0.14
Total PCBs																									
Aroclor-1016	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1232	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1242	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1248	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Detected PCBs	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dissolved PCBs																									
Aroclor-1016	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1232	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1242	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1248	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Detected PCBs	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Solids																									
Total Dissolved Solids	NE	NE	910	1100	1400	1300	1300	1200	1100	1100	1000	1100	1000	990	1100	1100	1000	NA	1100	NA	NA	NA	NA	NA	NA
Total Suspended Solids (TSS)	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

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Table 18
Groundwater Analytical Results Summary
Madison-Kipp Corporation
Madison, Wisconsin

WELL ID			MW-19D2	MW-19D2	MW-19D2	MW-19D2	MW-19D2	MW-19D2	MW-19D2	MW-19D2	MW-19D2	MW-19D2	MW-19D2	MW-19D2	MW-19D2	MW-19D2[2]	MW-19D2[1]	MW-19D2	MW-19D2	MW-19D2[1]
SCREEN INTERVAL (feet bgs)	PREVENTIVE	ENFORCEMENT	110 - 140 ft	110 - 140 ft	110 - 140 ft	110 - 140 ft	110 - 140 ft	110 - 140 ft	110 - 140 ft	110 - 140 ft	110 - 140 ft	110 - 140 ft	110 - 140 ft	110 - 140 ft	110 - 140 ft	110 - 140 ft	110 - 140 ft	110 - 140 ft	110 - 140 ft	110 - 140 ft
SAMPLE DATE	ACTION LIMIT	STANDARD	11/29/2012	12/16/2012	12/17/2012	12/18/2012	12/19/2012	12/27/2012	01/02/2013	01/17/2013	01/17/2013	01/31/2013	02/11/2013	02/28/2013	03/12/2013	04/18/2013	07/17/2013	07/17/2013	10/09/2013	04/17/2014	10/15/2014
VOCs																					
1,1,1,2-Tetrachloroethane	7	70	< 0.5	NA	NA	NA	NA	NA	NA	NA	< 0.5	NA	< 0.5	NA	< 0.5	< 1.3	< 0.5	< 0.5	< 0.5	< 1.3	< 0.50
1,1,1-Trichloroethane	40	200	< 0.4	NA	NA	NA	NA	NA	NA	NA	< 0.4	NA	< 0.4	NA	< 0.4	< 1	< 0.4	< 0.4	< 0.4	< 1.0	< 0.40
1,1,2-Trichloroethane	0.5	5	< 0.56	NA	NA	NA	NA	NA	NA	NA	< 0.56	NA	< 0.56	NA	< 0.56	< 1.4	< 0.56	< 0.56	< 0.56	< 1.4	< 0.56
1,1-Dichloroethene	0.7	7	< 0.62	NA	NA	NA	NA	NA	NA	NA	< 0.62	NA	< 0.62	NA	< 0.62	< 1.6	< 0.62	< 0.62	< 0.62	< 1.6	< 0.62
1,2,4-Trimethylbenzene	96	480	< 0.28	NA	NA	NA	NA	NA	NA	NA	< 0.28	NA	< 0.28	NA	< 0.28	< 0.7	< 0.28	< 0.28	< 0.28	< 0.70	< 0.28
1,2-Dibromoethane	0.005	0.05	< 0.72	NA	NA	NA	NA	NA	NA	NA	< 0.72	NA	< 0.72	NA	< 0.72	< 1.8	< 0.72	< 0.72	< 0.72	< 1.8	< 0.72
1,2-Dichlorobenzene	60	600	< 0.54	NA	NA	NA	NA	NA	NA	NA	< 0.54	NA	< 0.54	NA	< 0.54	< 1.4	< 0.54	< 0.54	< 0.54	< 1.4	< 0.54
1,2-Dichloropropane	0.5	5	< 0.4	NA	NA	NA	NA	NA	NA	NA	< 0.4	NA	< 0.4	NA	< 0.4	< 1	< 0.4	< 0.4	< 0.4	< 1.0	< 0.40
1,2,3-Trichlorobenzene	NE	NE	< 0.48	NA	NA	NA	NA	NA	NA	NA	< 0.48	NA	< 0.48	NA	< 0.48	< 1.2	< 0.48	< 0.48	< 0.48	< 1.2	< 0.48
1,2,4-Trichlorobenzene	14	70	< 0.62	NA	NA	NA	NA	NA	NA	NA	< 0.62	NA	< 0.62	NA	< 0.62	< 1.6	< 0.62	< 0.62	< 0.62	< 1.6	< 0.62
1,3,5-Trimethylbenzene	96	480	< 0.36	NA	NA	NA	NA	NA	NA	NA	< 0.36	NA	< 0.36	NA	< 0.36	< 0.9	< 0.36	< 0.36	< 0.36	< 0.90	< 0.36
2-Butanone	800	4000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Hexanone	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Methyl-2-pentanone	50	500	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Acetone	1800	9000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzene	0.5	5	< 0.15	NA	NA	NA	NA	NA	NA	NA	< 0.15	NA	< 0.15	NA	< 0.15	< 0.37	< 0.15	< 0.15	< 0.15	< 0.37	< 0.15
Bromodichloromethane	0.06	0.6	< 0.34	NA	NA	NA	NA	NA	NA	NA	< 0.34	NA	< 0.34	NA	< 0.34	< 0.85	< 0.34	< 0.34	< 0.34	< 0.85	< 0.34
Bromoform	0.44	4.4	< 0.56	NA	NA	NA	NA	NA	NA	NA	< 0.56	NA	< 0.56	NA	< 0.56	< 1.4	< 0.56	< 0.56	< 0.56	< 1.4	< 0.56
Bromomethane	1	10	< 0.62	NA	NA	NA	NA	NA	NA	NA	< 0.62	NA	< 0.62 *	NA	< 0.62	< 1.6	< 0.62	< 0.62	< 0.62	< 1.6	< 0.62 *
Carbon disulfide	200	1000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon tetrachloride	0.5	5	< 0.52	NA	NA	NA	NA	NA	NA	NA	< 0.52	NA	< 0.52	NA	< 0.52	< 1.3	< 0.52	< 0.52	< 0.52	< 1.3	< 0.52
Chloroform	0.6	6	< 0.4	NA	NA	NA	NA	NA	NA	NA	< 0.4	NA	< 0.4	NA	< 0.4	< 1	< 0.4	< 0.4	< 0.4	< 1.0	< 0.40
Chloromethane	3	30	< 0.36	NA	NA	NA	NA	NA	NA	NA	< 0.36	NA	< 0.36	NA	< 0.36	< 0.9	< 0.36	< 0.36	< 0.36	< 0.90	< 0.36
cis-1,2-Dichloroethene	7	70	***250***	NA	NA	NA	NA	NA	NA	NA	***320***	NA	***270***	NA	***260***	***200***	< 0.24	***98***	***120***	***330***	6.8
Dichlorodifluoromethane	200	1000	< 0.4	NA	NA	NA	NA	NA	NA	NA	< 0.4	NA	< 0.4	NA	< 0.4	< 1	< 0.4	< 0.4	< 0.4	< 1.0	< 0.40
Ethylbenzene	140	700	< 0.26	NA	NA	NA	NA	NA	NA	NA	< 0.26	NA	< 0.26	NA	< 0.26	< 0.65	< 0.26	< 0.26	< 0.26	< 0.65	< 0.26
Isopropylbenzene	NE	NE	< 0.28	NA	NA	NA	NA	NA	NA	NA	< 0.28	NA	< 0.28	NA	< 0.28	< 0.7	< 0.28	< 0.28	< 0.28	< 0.70	< 0.28
m,p-Xylene	400	2000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methyl tert-butyl ether	12	60	< 0.48	NA	NA	NA	NA	NA	NA	NA	< 0.48	NA	< 0.48	NA	< 0.48	< 1.2	< 0.48	< 0.48	< 0.48	< 1.2	< 0.48
Methylene chloride	0.5	5	< 1.4	NA	NA	NA	NA	NA	NA	NA	< 1.4	NA	< 1.4	NA	< 1.4	< 3.4	< 1.4	< 1.4	< 1.4	< 3.4	< 1.4
Naphthalene	10	100	< 0.32	NA	NA	NA	NA	NA	NA	NA	< 0.32	NA	< 0.32	NA	< 0.32	< 0.8	< 0.32	< 0.32	< 0.32	< 0.80	< 0.32
n-Butylbenzene	NE	NE	< 0.26	NA	NA	NA	NA	NA	NA	NA	< 0.26	NA	< 0.26	NA	< 0.26	< 0.65	< 0.26	< 0.26	< 0.26	< 0.65	< 0.26
n-Hexane	120	600	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
n-Propylbenzene	NE	NE	< 0.26	NA	NA	NA	NA	NA	NA	NA	< 0.26	NA	< 0.26	NA	< 0.26	< 0.65	< 0.26	< 0.26	< 0.26	< 0.65	< 0.26
o-Xylene	400	2000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
p-Isopropyltoluene	NE	NE	< 0.34	NA	NA	NA	NA	NA	NA	NA	< 0.34	NA	< 0.34	NA	< 0.34	< 0.85	< 0.34	< 0.34	< 0.34	< 0.85	< 0.34
sec-Butylbenzene	NE	NE	< 0.3	NA	NA	NA	NA	NA	NA	NA	< 0.3	NA	< 0.3	NA	< 0.3	< 0.75	< 0.3	< 0.3	< 0.3	< 0.75	< 0.30
Styrene	10	100	< 0.2	NA	NA	NA	NA	NA	NA	NA	< 0.2	NA	< 0.2	NA	< 0.2	< 0.5	< 0.2	< 0.2	< 0.2	< 0.50	< 0.20
tert-Butylbenzene	NE	NE	< 0.28	NA	NA	NA	NA	NA	NA	NA	< 0.28	NA	< 0.28	NA	< 0.28	< 0.7	< 0.28	< 0.28	< 0.28	< 0.70	< 0.28
Tetrachloroethene	0.5	5	***680***	NA	NA	NA	NA	NA	NA	NA	***1200***	NA	***1300***	NA	***1400***	***1000***	***820***	***1200***	***950***	***1900***	***620***
Toluene	160	800	< 0.22	NA	NA	NA	NA	NA	NA	NA	< 0.22	NA	< 0.22	NA	< 0.22	< 0.55	< 0.22	< 0.22	< 0.22	< 0.55	< 0.22
trans-1,2-Dichloroethene	20	100	3.4	NA	NA	NA	NA	NA	NA	NA	4.9	NA	4.2	NA	4.2	2.6 J	< 0.5	< 0.5	< 0.5	5.0	< 0.50
Trichloroethene	0.5	5	***110***	NA	NA	NA	NA	NA	NA	NA	***160***	NA	***150***	NA	***150***	***130***	< 0.38	***110***	***120***	***170***	***11***
Vinyl chloride	0.02	0.2	***0.93 J***	NA	NA	NA	NA	NA	NA	NA	< 0.2	NA	< 0.2	NA	< 0.2	< 0.5	< 0.2	< 0.2	< 0.2	***7.9***	< 0.20
Xylenes, Total	400	2000	< 0.14	NA	NA	NA	NA	NA	NA	NA	< 0.14	NA	< 0.14	NA	< 0.14	< 0.34	< 0.14	< 0.14	< 0.14	< 0.34	< 0.14
Total PCBs																					
Aroclor-1016	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1232	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1242	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1248	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Detected PCBs	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dissolved PCBs																					
Aroclor-1016	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1232	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1242	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1248	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Detected PCBs	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Solids																					
Total Dissolved Solids	NE	NE	1500	1600	1600	1500	1500	1500	1500	1400	1500	1500	1500	1500	NA	NA	NA	NA	NA	NA	NA
Total Suspended Solids (TSS)	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

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Table 18
Groundwater Analytical Results Summary
Madison-Kipp Corporation
Madison, Wisconsin

WELL ID			MW-20D	MW-20D	MW-20D	MW-20D	MW-20D	MW-20D	MW-20D	MW-20D	MW-20D	MW-20D	MW-20D	MW-20D	MW-20D	MW-20D	MW-20D	MW-20D	MW-20D[1]	MW-20D	MW-20D[1]	MW-20D[1]	MW-20D	MW-20D	MW-20D	MW-20D
SCREEN INTERVAL (feet bgs)	PREVENTIVE	ENFORCEMENT	60 - 90 ft	60 - 90 ft	60 - 90 ft	60 - 90 ft	60 - 90 ft	60 - 90 ft	60 - 90 ft	60 - 90 ft	60 - 90 ft	60 - 90 ft	60 - 90 ft	60 - 90 ft	60 - 90 ft	60 - 90 ft	60 - 90 ft	60 - 90 ft	60 - 90 ft	60 - 90 ft	60 - 90 ft	60 - 90 ft	60 - 90 ft	60 - 90 ft	60 - 90 ft	60 - 90 ft
SAMPLE DATE	ACTION LIMIT	STANDARD	11/29/2012	12/11/2012	12/12/2012	12/13/2012	12/14/2012	12/15/2012	12/16/2012	12/17/2012	12/18/2012	12/19/2012	12/27/2012	01/02/2013	01/16/2013	01/16/2013	01/30/2013	02/12/2013	02/12/2013	02/12/2013	02/28/2013	03/12/2013	04/18/2013	07/17/2013	10/09/2013	04/15/2014	10/22/2014
VOCs																										
1,1,1,2-Tetrachloroethane	7	70	< 1.3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.25	NA	NA	NA	< 0.25	NA	< 0.25	< 1.3	< 0.5	< 1.3	< 0.50	< 0.50
1,1,1-Trichloroethane	40	200	< 1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.2	NA	NA	NA	< 0.2	NA	< 0.2	< 1	< 0.4	< 1	< 0.40	< 0.40
1,1,2-Trichloroethane	0.5	5	< 1.4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.28	NA	NA	NA	< 0.28	NA	< 0.28	< 1.4	< 0.56	< 1.4	< 0.56	< 0.56
1,1-Dichloroethene	0.7	7	< 1.6	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.31	NA	NA	NA	< 0.31	NA	< 0.31	< 1.6	< 0.62	< 1.6	< 0.62	< 0.62
1,2,4-Trimethylbenzene	96	480	< 0.7	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.14	NA	NA	NA	< 0.14	NA	< 0.14	< 0.7	< 0.28	< 0.7	< 0.28	< 0.28
1,2-Dibromoethane	0.005	0.05	< 1.8	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.36	NA	NA	NA	< 0.36	NA	< 0.36	< 1.8	< 0.72	< 1.8	< 0.72	< 0.72
1,2-Dichlorobenzene	60	600	< 1.4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.27	NA	NA	NA	< 0.27	NA	< 0.27	< 1.4	< 0.54	< 1.4	< 0.54	< 0.54
1,2-Dichloropropane	0.5	5	< 1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.2	NA	NA	NA	< 0.2	NA	< 0.2	< 1	< 0.4	< 1	< 0.40	< 0.40
1,2,3-Trichlorobenzene	NE	NE	< 1.2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.24	NA	NA	NA	< 0.24	NA	< 0.24	< 1.2	< 0.48	< 1.2	< 0.48	< 0.48
1,2,4-Trichlorobenzene	14	70	< 1.6	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.31	NA	NA	NA	< 0.31	NA	< 0.31	< 1.6	< 0.62	< 1.6	< 0.62	< 0.62
1,3,5-Trimethylbenzene	96	480	< 0.9	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.18	NA	NA	NA	< 0.18	NA	< 0.18	< 0.9	< 0.36	< 0.9	< 0.36	< 0.36
2-Butanone	800	4000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Hexanone	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Methyl-2-pentanone	50	500	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Acetone	1800	9000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzene	0.5	5	< 0.37	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.074	NA	NA	NA	< 0.074	NA	< 0.074	< 0.37	< 0.15	< 0.37	< 0.15	< 0.15
Bromodichloromethane	0.06	0.6	< 0.85	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.17	NA	NA	NA	< 0.17	NA	< 0.17	< 0.85	< 0.34	< 0.85	< 0.34	< 0.34
Bromoform	0.44	4.4	< 1.4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.28	NA	NA	NA	< 0.28	NA	< 0.28	< 1.4	< 0.56	< 1.4	< 0.56	< 0.56
Bromomethane	1	10	< 1.6	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.31	NA	NA	NA	< 0.31	NA	< 0.31	< 1.6	< 0.62	< 1.6	< 0.62	< 0.62
Carbon disulfide	200	1000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon tetrachloride	0.5	5	< 1.3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.26	NA	NA	NA	< 0.26	NA	< 0.26	< 1.3	< 0.52	< 1.3	< 0.52	< 0.52
Chloroform	0.6	6	< 1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.2	NA	NA	NA	< 0.2	NA	< 0.2	< 1	< 0.4	< 1	< 0.40	< 0.40
Chloromethane	3	30	< 0.9	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.18	NA	NA	NA	< 0.18	NA	< 0.18	< 0.9	< 0.36	< 0.9	< 0.36	< 0.36
cis-1,2-Dichloroethene	7	70	***370***	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.69 J	NA	NA	NA	***20***	NA	***39***	***220***	***180***	***170***	***140***	***200***
Dichlorodifluoromethane	200	1000	< 1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.2	NA	NA	NA	< 0.2	NA	< 0.2	< 1	< 0.4	< 1	< 0.40	< 0.40
Ethylbenzene	140	700	< 0.65	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.13	NA	NA	NA	< 0.13	NA	< 0.13	< 0.65	< 0.26	< 0.65	< 0.26	< 0.26
Isopropylbenzene	NE	NE	< 0.7	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.14	NA	NA	NA	< 0.14	NA	< 0.14	< 0.7	< 0.28	< 0.7	< 0.28	< 0.28
m,p-Xylene	400	2000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methyl tert-butyl ether	12	60	< 1.2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.24	NA	NA	NA	< 0.24	NA	< 0.24	< 1.2	< 0.48	< 1.2	< 0.48	< 0.48
Methylene chloride	0.5	5	< 3.4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.68	NA	NA	NA	< 0.68	NA	< 0.68	< 3.4	< 1.4	< 3.4	< 1.4	< 1.4
Naphthalene	10	100	< 0.8	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.16	NA	NA	NA	< 0.16	NA	< 0.16	< 0.8	< 0.32	< 0.8	< 0.32	< 0.32
n-Butylbenzene	NE	NE	< 0.65	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.13	NA	NA	NA	< 0.13	NA	< 0.13	< 0.65	< 0.26	< 0.65	< 0.26	< 0.26
n-Hexane	120	600	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
n-Propylbenzene	NE	NE	< 0.65	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.13	NA	NA	NA	< 0.13	NA	< 0.13	< 0.65	< 0.26	< 0.65	< 0.26	< 0.26
o-Xylene	400	2000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
p-Isopropyltoluene	NE	NE	< 0.85	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.17	NA	NA	NA	< 0.17	NA	< 0.17	< 0.85	< 0.34	< 0.85	< 0.34	< 0.34
sec-Butylbenzene	NE	NE	< 0.75	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.15	NA	NA	NA	< 0.15	NA	< 0.15	< 0.75	< 0.3	< 0.75	< 0.30	< 0.30
Styrene	10	100	< 0.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.1	NA	NA	NA	< 0.1	NA	< 0.1	< 0.5	< 0.2	< 0.5	< 0.20	< 0.20
tert-Butylbenzene	NE	NE	< 0.7	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.14	NA	NA	NA	< 0.14	NA	< 0.14	< 0.7	< 0.28	< 0.7	< 0.28	< 0.28
Tetrachloroethene	0.5	5	***1600***	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	***190***	NA	NA	NA	***690***	NA	***650***	***1100***	***1000***	***1200***	***780***	***1100***
Toluene	160	800	< 0.55	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.45 J	NA	NA	NA	< 0.11	NA	< 0.11	< 0.55	< 0.22	< 0.55	< 0.22	< 0.22
trans-1,2-Dichloroethene	20	100	5.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.25	NA	NA	NA	< 0.25	NA	< 0.25	< 1.3	2.2	< 1.3	2.0	2.6
Trichloroethene	0.5	5	***170***	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	***0.54***	NA	NA	NA	***20***	NA	***29***	***100***	***100***	***89***	***83***	***110***
Vinyl chloride	0.02	0.2	***3.2***	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.1	NA	NA	NA	< 0.1	NA	< 0.1	***1.0 J***	< 0.2	< 0.5	***0.76 J***	***2.7***
Xylenes, Total	400	2000	< 0.34	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.068	NA	NA	NA	< 0.068	NA	< 0.068	< 0.34	< 0.14	< 0.34	< 0.14	< 0.14
Total PCBs																										
Aroclor-1016	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1232	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1242	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1248	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Detected PCBs	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dissolved PCBs																										
Aroclor-1016	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1232	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1242	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1248	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Detected PCBs	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Solids																										
Total Dissolved Solids	NE	NE	920	990	5000	16000	10000	4800	2500	3100	2200	1900	940	1300	900	940	880	830	840	NA	1000	NA	NA	NA	NA	NA	NA
Total Suspended Solids (TSS)	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Notes on Page 55.

Table 18
Groundwater Analytical Results Summary
Madison-Kipp Corporation
Madison, Wisconsin

WELL ID			MW-20D2	MW-20D2	MW-20D2	MW-20D2	MW-20D2	MW-20D2	MW-20D2	MW-20D2	MW-20D2	MW-20D2	MW-20D2	MW-20D2	MW-20D2[1]	MW-20D2	MW-20D2	MW-20D2	MW-20D2[1,3]	MW-20D2	MW-20D2[1]	MW-20D2[1]	MW-20D2[1]	MW-20D2[1]	MW-20D2	MW-20D2[1]
SCREEN INTERVAL (feet bgs)	PREVENTIVE	ENFORCEMENT	110 - 140 ft	110 - 140 ft	110 - 140 ft	110 - 140 ft	110 - 140 ft	110 - 140 ft	110 - 140 ft	110 - 140 ft	110 - 140 ft	110 - 140 ft	110 - 140 ft	110 - 140 ft	110 - 140 ft	110 - 140 ft	110 - 140 ft	110 - 140 ft	110 - 140 ft	110 - 140 ft	110 - 140 ft	110 - 140 ft	110 - 140 ft	110 - 140 ft	110 - 140 ft	110 - 140 ft
SAMPLE DATE	ACTION LIMIT	STANDARD	11/29/2012	12/13/2012	12/14/2012	12/15/2012	12/16/2012	12/17/2012	12/18/2012	12/19/2012	12/27/2012	01/02/2013	01/16/2013	01/16/2013	02/12/2013	01/30/2013	02/12/2013	02/12/2013	02/12/2013	02/28/2013	03/12/2013	04/18/2013	07/17/2013	10/15/2013	04/15/2014	10/22/2014
VOCs																										
1,1,1,2-Tetrachloroethane	7	70	< 0.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.25	< 0.25	NA	NA	NA	< 0.25	NA	< 0.25	< 1.3	< 0.25	< 0.25	< 1.3	< 0.50
1,1,1-Trichloroethane	40	200	< 0.4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.2	< 0.2	NA	NA	NA	< 0.2	NA	< 0.2	< 1	< 0.2	< 0.2	< 1.0	< 0.40
1,1,2-Trichloroethane	0.5	5	< 0.56	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.28	< 0.28	NA	NA	NA	< 0.28	NA	< 0.28	< 1.4	< 0.28	< 0.28	< 1.4	< 0.56
1,1-Dichloroethene	0.7	7	< 0.62	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.31	< 0.31	NA	NA	NA	< 0.31	NA	< 0.31	< 1.6	< 0.31	< 0.31	< 1.6	< 0.62
1,2,4-Trimethylbenzene	96	480	< 0.28	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.14	< 0.14	NA	NA	NA	< 0.14	NA	< 0.14	< 0.7	< 0.14	< 0.14	< 0.70	< 0.28
1,2-Dibromoethane	0.005	0.05	< 0.72	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.36	< 0.36	NA	NA	NA	< 0.36	NA	< 0.36	< 1.8	< 0.36	< 0.36	< 1.8	< 0.72
1,2-Dichlorobenzene	60	600	< 0.54	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.27	< 0.27	NA	NA	NA	< 0.27	NA	< 0.27	< 1.4	< 0.27	< 0.27	< 1.4	< 0.54
1,2-Dichloropropane	0.5	5	< 0.4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.2	< 0.2	NA	NA	NA	< 0.2	NA	< 0.2	< 1	< 0.2	< 0.2	< 1.0	< 0.40
1,2,3-Trichlorobenzene	NE	NE	< 0.48	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.24	< 0.24	NA	NA	NA	< 0.24	NA	< 0.24	< 1.2	< 0.24	< 0.24	< 1.2	< 0.48
1,2,4-Trichlorobenzene	14	70	< 0.62	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.31	< 0.31	NA	NA	NA	< 0.31	NA	< 0.31	< 1.6	< 0.31	< 0.31	< 1.6	< 0.62
1,3,5-Trimethylbenzene	96	480	< 0.36	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.18	< 0.18	NA	NA	NA	< 0.18	NA	< 0.18	< 0.9	< 0.18	< 0.18	< 0.90	< 0.36
2-Butanone	800	4000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Hexanone	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Methyl-2-pentanone	50	500	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Acetone	1800	9000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzene	0.5	5	< 0.15	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.074	0.19 J	NA	NA	NA	< 0.074	NA	< 0.074	< 0.37	< 0.074	< 0.074	< 0.37	< 0.15
Bromodichloromethane	0.06	0.6	< 0.34	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.17	< 0.17	NA	NA	NA	< 0.17	NA	< 0.17	< 0.85	< 0.17	< 0.17	< 0.85	< 0.34
Bromoform	0.44	4.4	< 0.56	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.28	< 0.28	NA	NA	NA	< 0.28	NA	< 0.28	< 1.4	< 0.28	< 0.28	< 1.4	< 0.56
Bromomethane	1	10	< 0.62	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.31	< 0.31	NA	NA	NA	< 0.31	NA	< 0.31	< 1.6	< 0.31	< 0.31	< 1.6	< 0.62
Carbon disulfide	200	1000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon tetrachloride	0.5	5	< 0.52	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.26	< 0.26	NA	NA	NA	< 0.26	NA	< 0.26	< 1.3	< 0.26	< 0.26	< 1.3	< 0.52
Chloroform	0.6	6	< 0.4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.47 J	< 0.2	NA	NA	NA	< 0.2	NA	< 0.2	< 1	< 0.2	< 0.2	< 1.0	< 0.40
Chloromethane	3	30	< 0.36	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.18	< 0.18	NA	NA	NA	< 0.18	NA	< 0.18	< 0.9	< 0.18	< 0.18	< 0.90	< 0.36
cis-1,2-Dichloroethene	7	70	***330***	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.12	2.8	NA	NA	NA	< 0.12	NA	2.8	***30***	< 0.12	1.4	< 0.60	***12***
Dichlorodifluoromethane	200	1000	< 0.4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.2	< 0.2	NA	NA	NA	< 0.2	NA	< 0.2	< 1	< 0.2	< 0.2	< 1.0	< 0.40
Ethylbenzene	140	700	< 0.26	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.13	< 0.13	NA	NA	NA	< 0.13	NA	< 0.13	< 0.65	< 0.13	< 0.13	< 0.65	< 0.26
Isopropylbenzene	NE	NE	< 0.28	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.14	< 0.14	NA	NA	NA	< 0.14	NA	< 0.14	< 0.7	< 0.14	< 0.14	< 0.70	< 0.28
m,p-Xylene	400	2000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methyl tert-butyl ether	12	60	< 0.48	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.24	< 0.24	NA	NA	NA	< 0.24	NA	< 0.24	< 1.2	< 0.24	< 0.24	< 1.2	< 0.48
Methylene chloride	0.5	5	< 1.4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.68	< 0.68	NA	NA	NA	< 0.68	NA	< 0.68	< 3.4	< 0.68	< 0.68	< 3.4	< 1.4
Naphthalene	10	100	< 0.32	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.16	< 0.16	NA	NA	NA	< 0.16	NA	< 0.16	< 0.8	< 0.16	< 0.16	< 0.80	< 0.32
n-Butylbenzene	NE	NE	< 0.26	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.13	< 0.13	NA	NA	NA	< 0.13	NA	< 0.13	< 0.65	< 0.13	< 0.13	< 0.65	< 0.26
n-Hexane	120	600	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
n-Propylbenzene	NE	NE	< 0.26	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.13	< 0.13	NA	NA	NA	< 0.13	NA	< 0.13	< 0.65	< 0.13	< 0.13	< 0.65	< 0.26
o-Xylene	400	2000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
p-Isopropyltoluene	NE	NE	< 0.34	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.17	< 0.17	NA	NA	NA	< 0.17	NA	< 0.17	< 0.85	< 0.17	< 0.17	< 0.85	< 0.34
sec-Butylbenzene	NE	NE	< 0.3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.15	< 0.15	NA	NA	NA	< 0.15	NA	< 0.15	< 0.75	< 0.15	< 0.15	< 0.75	< 0.30
Styrene	10	100	< 0.2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.1	< 0.1	NA	NA	NA	< 0.1	NA	< 0.1	< 0.5	< 0.1	< 0.1	< 0.50	< 0.20
tert-Butylbenzene	NE	NE	< 0.28	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.14	< 0.14	NA	NA	NA	< 0.14	NA	< 0.14	< 0.7	< 0.14	< 0.14	< 0.70	< 0.28
Tetrachloroethene	0.5	5	***1300***	NA	NA	NA	NA	NA	NA	NA	NA	NA	***190***	***700***	NA	NA	NA	***24***	NA	***490***	***1100***	***53***	***380***	***1600***	***740***	
Toluene	160	800	< 0.22	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.34 J	< 0.11	NA	NA	NA	< 0.11	NA	< 0.11	< 0.55	< 0.11	< 0.11	< 0.55	< 0.22	
trans-1,2-Dichloroethene	20	100	4.3	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.25	< 0.25	NA	NA	NA	< 0.25	NA	< 0.25	< 1.3	< 0.25	< 0.25	< 1.3	< 0.50	
Trichloroethene	0.5	5	***150***	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.19	***7.9***	NA	NA	NA	< 0.19	NA	***5.3***	***41***	< 0.19	***4.5***	***2.7***	***11***	
Vinyl chloride	0.02	0.2	***1.7***	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.1	< 0.1	NA	NA	NA	< 0.1	NA	< 0.1	< 0.5	< 0.1	< 0.1	< 0.50	< 0.20	
Xylenes, Total	400	2000	< 0.14	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.068	< 0.068	NA	NA	NA	< 0.068	NA	< 0.068	< 0.34	< 0.068	< 0.068	< 0.34	< 0.14	
Total PCBs																										
Aroclor-1016	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1232	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1242	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1248	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Detected PCBs	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dissolved PCBs																										
Aroclor-1016	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1232	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1242	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1248	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Detected PCBs	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Solids																										
Total Dissolved Solids	NE	NE	1000	1500	2400	3000	25000	12000	42000	34000	19000	12000	8700	2400	7700	5500	1900	NA	NA	3900	NA	NA	NA	NA	NA	NA
Total Suspended Solids (TSS)	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

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Table 18
Groundwater Analytical Results Summary
Madison-Kipp Corporation
Madison, Wisconsin

WELL ID			MW-21D	MW-21D	MW-21D	MW-21D	MW-21D	MW-21D	MW-21D	MW-21D	MW-21D	MW-21D	MW-21D	MW-21D	MW-21D	MW-21D	MW-21D	MW-21D[1]	MW-21D	MW-21D[1]	MW-21D[1]	MW-21D	MW-21D	MW-21D	MW-21D
SCREEN INTERVAL (feet bgs)	PREVENTIVE	ENFORCEMENT	60 - 90 ft	60 - 90 ft	60 - 90 ft	60 - 90 ft	60 - 90 ft	60 - 90 ft	60 - 90 ft	60 - 90 ft	60 - 90 ft	60 - 90 ft	60 - 90 ft	60 - 90 ft	60 - 90 ft	60 - 90 ft	60 - 90 ft	60 - 90 ft	60 - 90 ft	60 - 90 ft	60 - 90 ft	60 - 90 ft	60 - 90 ft	60 - 90 ft	60 - 90 ft
SAMPLE DATE	ACTION LIMIT	STANDARD	11/28/2012	12/12/2012	12/13/2012	12/14/2012	12/15/2012	12/16/2012	12/17/2012	12/18/2012	12/19/2012	12/27/2012	01/02/2013	01/17/2013	01/17/2013	01/30/2013	02/14/2013	02/14/2013	02/14/2013	02/28/2013	03/12/2013	04/17/2013	07/18/2013	10/10/2013	04/15/2014	10/23/2014
VOCs																									
1,1,1,2-Tetrachloroethane	7	70	< 0.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.25	NA	NA	NA	< 0.5	NA	< 0.5	< 1.3	< 1.3	< 1.3	< 1.3	< 0.25
1,1,1-Trichloroethane	40	200	< 0.4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.2	NA	NA	NA	< 0.4	NA	< 0.4	< 1	< 1	< 1	< 1.0	< 0.20
1,1,2-Trichloroethane	0.5	5	< 0.56	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.28	NA	NA	NA	< 0.56	NA	< 0.56	< 1.4	< 1.4	< 1.4	< 1.4	< 0.28
1,1-Dichloroethene	0.7	7	< 0.62	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.31	NA	NA	NA	< 0.62	NA	< 0.62	< 1.6	< 1.6	< 1.6	< 1.6	< 0.31
1,2,4-Trimethylbenzene	96	480	< 0.28	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.14	NA	NA	NA	< 0.28	NA	< 0.28	< 0.7	< 0.7	< 0.7	< 0.70	< 0.14
1,2-Dibromoethane	0.005	0.05	< 0.72	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.36	NA	NA	NA	< 0.72	NA	< 0.72	< 1.8	< 1.8	< 1.8	< 1.8	< 0.36
1,2-Dichlorobenzene	60	600	< 0.54	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.27	NA	NA	NA	< 0.54	NA	< 0.54	< 1.4	< 1.4	< 1.4	< 1.4	< 0.27
1,2-Dichloropropane	0.5	5	< 0.4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.2	NA	NA	NA	< 0.4	NA	< 0.4	< 1	< 1	< 1	< 1.0	< 0.20
1,2,3-Trichlorobenzene	NE	NE	< 0.48	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.24	NA	NA	NA	< 0.48	NA	< 0.48	< 1.2	< 1.2	< 1.2	< 1.2	< 0.24
1,2,4-Trichlorobenzene	14	70	< 0.62	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.31	NA	NA	NA	< 0.62	NA	< 0.62	< 1.6	< 1.6	< 1.6	< 1.6	< 0.31
1,3,5-Trimethylbenzene	96	480	< 0.36	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.18	NA	NA	NA	< 0.36	NA	< 0.36	< 0.9	< 0.9	< 0.9	< 0.90	< 0.18
2-Butanone	800	4000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Hexanone	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Methyl-2-pentanone	50	500	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Acetone	1800	9000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzene	0.5	5	< 0.15	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.074	NA	NA	NA	< 0.15	NA	< 0.15	< 0.37	< 0.37	< 0.37	< 0.37	0.33 J
Bromodichloromethane	0.06	0.6	< 0.34	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.17	NA	NA	NA	< 0.34	NA	< 0.34	< 0.85	< 0.85	< 0.85	< 0.85	< 0.17
Bromoform	0.44	4.4	< 0.56	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.28	NA	NA	NA	< 0.56	NA	< 0.56	< 1.4	< 1.4	< 1.4	< 1.4	< 0.28
Bromomethane	1	10	< 0.62	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.31	NA	NA	NA	< 0.62 *	NA	< 0.62	< 1.6	< 1.6	< 1.6	< 1.6	< 0.31
Carbon disulfide	200	1000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon tetrachloride	0.5	5	< 0.52	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.26	NA	NA	NA	< 0.52	NA	< 0.52	< 1.3	< 1.3	< 1.3	< 1.3	< 0.26
Chloroform	0.6	6	< 0.4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.2	NA	NA	NA	< 0.4	NA	< 0.4	< 1	< 1	< 1	< 1.0	***0.70 J***
Chloromethane	3	30	< 0.36	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.18	NA	NA	NA	< 0.36	NA	< 0.36	< 0.9	< 0.9	< 0.9	< 0.90	< 0.18
cis-1,2-Dichloroethene	7	70	***380***	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	***85***	NA	NA	NA	***270***	NA	***310***	***310***	***370***	***360***	***320***	***230***
Dichlorodifluoromethane	200	1000	< 0.4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.2	NA	NA	NA	< 0.4	NA	< 0.4	< 1	< 1	< 1	< 1.0	< 0.20
Ethylbenzene	140	700	< 0.26	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.43 J	NA	NA	NA	< 0.26	NA	< 0.26	< 0.65	< 0.65	< 0.65	< 0.65	< 0.13
Isopropylbenzene	NE	NE	< 0.28	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.14	NA	NA	NA	< 0.28	NA	< 0.28	< 0.7	< 0.7	< 0.7	< 0.70	< 0.14
m,p-Xylene	400	2000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methyl tert-butyl ether	12	60	< 0.48	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.24	NA	NA	NA	< 0.48	NA	< 0.48	< 1.2	< 1.2	< 1.2	< 1.2	< 0.24
Methylene chloride	0.5	5	< 1.4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.68	NA	NA	NA	< 1.4	NA	< 1.4	< 3.4	< 3.4	< 3.4	< 3.4	< 0.68
Naphthalene	10	100	< 0.32	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.16	NA	NA	NA	< 0.32	NA	< 0.32	< 0.8	< 0.8	< 0.8	< 0.80	< 0.16
n-Butylbenzene	NE	NE	< 0.26	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.13	NA	NA	NA	< 0.26	NA	< 0.26	< 0.65	< 0.65	< 0.65	< 0.65	< 0.13
n-Hexane	120	600	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
n-Propylbenzene	NE	NE	< 0.26	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.13	NA	NA	NA	< 0.26	NA	< 0.26	< 0.65	< 0.65	< 0.65	< 0.65	< 0.13
o-Xylene	400	2000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
p-Isopropyltoluene	NE	NE	< 0.34	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.17	NA	NA	NA	< 0.34	NA	< 0.34	< 0.85	< 0.85	< 0.85	< 0.85	< 0.17
sec-Butylbenzene	NE	NE	< 0.3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.15	NA	NA	NA	< 0.3	NA	< 0.3	< 0.75	< 0.75	< 0.75	< 0.75	< 0.15
Styrene	10	100	< 0.2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.1	NA	NA	NA	< 0.2	NA	< 0.2	< 0.5	< 0.5	< 0.5	< 0.50	< 0.10
tert-Butylbenzene	NE	NE	< 0.28	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.14	NA	NA	NA	< 0.28	NA	< 0.28	< 0.7	< 0.7	< 0.7	< 0.70	< 0.14
Tetrachloroethene	0.5	5	***1200***	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	***700***	NA	NA	NA	***1600***	NA	***1500***	***1100***	***1700***	***1600***	***1800***	***1200***
Toluene	160	800	< 0.22	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.38 J	NA	NA	NA	< 0.22	NA	< 0.22	< 0.55	< 0.55	< 0.55	< 0.55	< 0.11
trans-1,2-Dichloroethene	20	100	5.1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.25	NA	NA	NA	< 0.5	NA	2.9	< 1.3	5.2	6.2	5.0	4.1
Trichloroethene	0.5	5	***180***	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	***23***	NA	NA	NA	***130***	NA	***160***	***140***	***180***	***160***	***180***	***170***
Vinyl chloride	0.02	0.2	***1.4***	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.1	NA	NA	NA	< 0.2	NA	< 0.2	< 0.5	< 0.5	< 0.5	***1.5 J***	***1.3***
Xylenes, Total	400	2000	< 0.14	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	2.5	NA	NA	NA	< 0.14	NA	< 0.14	< 0.34	< 0.34	< 0.34	< 0.34	< 0.068
Total PCBs																										
Aroclor-1016	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1232	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1242	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1248	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Detected PCBs	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dissolved PCBs																										
Aroclor-1016	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1232	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1242	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1248	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Detected PCBs	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Solids																										
Total Dissolved Solids	NE	NE	1400	1000	8900	3000	3800	3700	2700	2000	1700	1300	1300	1200	1200	1100	1100	1100	NA	1200	NA	NA	NA	NA	NA	NA
Total Suspended Solids (TSS)	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

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Table 18
Groundwater Analytical Results Summary
Madison-Kipp Corporation
Madison, Wisconsin

WELL ID			MW-21D2	MW-21D2	MW-21D2	MW-21D2	MW-21D2	MW-21D2	MW-21D2	MW-21D2	MW-21D2	MW-21D2	MW-21D2	MW-21D2	MW-21D2[1]	MW-21D2	MW-21D2[1]	MW-21D2[1]	MW-21D2	MW-21D2	MW-21D2	MW-21D2[1]
SCREEN INTERVAL (feet bgs)	PREVENTIVE	ENFORCEMENT	110 - 170 ft	110 - 170 ft	110 - 170 ft	110 - 170 ft	110 - 170 ft	110 - 170 ft	110 - 170 ft	110 - 170 ft	110 - 170 ft	110 - 170 ft	110 - 170 ft	110 - 170 ft	110 - 170 ft	110 - 170 ft	110 - 170 ft	110 - 170 ft	110 - 170 ft	110 - 170 ft	110 - 170 ft	110 - 170 ft
SAMPLE DATE	ACTION LIMIT	STANDARD	11/28/2012	12/16/2012	12/17/2012	12/18/2012	12/19/2012	12/27/2012	01/02/2013	01/17/2013	01/17/2013	01/31/2013	02/14/2013	02/14/2013	02/14/2013	02/28/2013	03/12/2013	04/17/2013	07/18/2013	10/15/2013	04/15/2014	10/23/2014
VOCs																						
1,1,1,2-Tetrachloroethane	7	70	< 1.3	NA	NA	NA	NA	NA	NA	NA	< 0.25	NA	NA	NA	< 1.3	NA	< 1.3	< 2.5	< 1.3	< 0.5	< 1.3	< 0.25
1,1,1-Trichloroethane	40	200	< 1	NA	NA	NA	NA	NA	NA	NA	< 0.2	NA	NA	NA	< 1	NA	< 1	< 2	< 1	< 0.4	< 1.0	< 0.20
1,1,2-Trichloroethane	0.5	5	< 1.4	NA	NA	NA	NA	NA	NA	NA	***1.4***	NA	NA	NA	< 1.4	NA	< 1.4	< 2.8	< 1.4	< 0.56	< 1.4	< 0.28
1,1-Dichloroethene	0.7	7	< 1.6	NA	NA	NA	NA	NA	NA	NA	< 0.31	NA	NA	NA	< 1.6	NA	< 1.6	< 3.1	< 1.6	< 0.62	< 1.6	< 0.31
1,2,4-Trimethylbenzene	96	480	< 0.7	NA	NA	NA	NA	NA	NA	NA	< 0.14	NA	NA	NA	< 0.7	NA	< 0.7	< 1.4	< 0.7	< 0.28	< 0.70	< 0.14
1,2-Dibromoethane	0.005	0.05	< 1.8	NA	NA	NA	NA	NA	NA	NA	< 0.36	NA	NA	NA	< 1.8	NA	< 1.8	< 3.6	< 1.8	< 0.72	< 1.8	< 0.36
1,2-Dichlorobenzene	60	600	< 1.4	NA	NA	NA	NA	NA	NA	NA	< 0.27	NA	NA	NA	< 1.4	NA	< 1.4	< 2.7	< 1.4	< 0.54	< 1.4	< 0.27
1,2-Dichloropropane	0.5	5	< 1	NA	NA	NA	NA	NA	NA	NA	< 0.2	NA	NA	NA	< 1	NA	< 1	< 2	< 1	< 0.4	< 1.0	< 0.20
1,2,3-Trichlorobenzene	NE	NE	< 1.2	NA	NA	NA	NA	NA	NA	NA	< 0.24	NA	NA	NA	< 1.2	NA	< 1.2	< 2.4	< 1.2	< 0.48	< 1.2	< 0.24
1,2,4-Trichlorobenzene	14	70	< 1.6	NA	NA	NA	NA	NA	NA	NA	< 0.31	NA	NA	NA	< 1.6	NA	< 1.6	< 3.1	< 1.6	< 0.62	< 1.6	< 0.31
1,3,5-Trimethylbenzene	96	480	< 0.9	NA	NA	NA	NA	NA	NA	NA	< 0.18	NA	NA	NA	< 0.9	NA	< 0.9	< 1.8	< 0.9	< 0.36	< 0.90	< 0.18
2-Butanone	800	4000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Hexanone	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Methyl-2-pentanone	50	500	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Acetone	1800	9000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzene	0.5	5	< 0.37	NA	NA	NA	NA	NA	NA	NA	0.25 J	NA	NA	NA	< 0.37	NA	< 0.37	< 0.74	< 0.37	< 0.15	< 0.37	0.24 J
Bromodichloromethane	0.06	0.6	< 0.85	NA	NA	NA	NA	NA	NA	NA	< 0.17	NA	NA	NA	< 0.85	NA	< 0.85	< 1.7	< 0.85	< 0.34	< 0.85	< 0.17
Bromoform	0.44	4.4	< 1.4	NA	NA	NA	NA	NA	NA	NA	< 0.28	NA	NA	NA	< 1.4	NA	< 1.4	< 2.8	< 1.4	< 0.56	< 1.4	< 0.28
Bromomethane	1	10	< 1.6	NA	NA	NA	NA	NA	NA	NA	< 0.31	NA	NA	NA	< 1.6 *	NA	< 1.6	< 3.1	< 1.6	< 0.62	< 1.6	< 0.31
Carbon disulfide	200	1000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon tetrachloride	0.5	5	< 1.3	NA	NA	NA	NA	NA	NA	NA	< 0.26	NA	NA	NA	< 1.3	NA	< 1.3	< 2.6	< 1.3	< 0.52	< 1.3	< 0.26
Chloroform	0.6	6	< 1	NA	NA	NA	NA	NA	NA	NA	< 0.2	NA	NA	NA	< 1	NA	< 1	< 2	< 1	< 0.4	< 1.0	***0.81 J***
Chloromethane	3	30	< 0.9	NA	NA	NA	NA	NA	NA	NA	< 0.18	NA	NA	NA	< 0.9	NA	< 0.9	< 1.8	< 0.9	< 0.36	< 0.90	< 0.18
cis-1,2-Dichloroethene	7	70	***300***	NA	NA	NA	NA	NA	NA	NA	< 0.12	NA	NA	NA	< 0.6	NA	< 0.6	***190***	***220***	***110***	***110***	1.3
Dichlorodifluoromethane	200	1000	< 1	NA	NA	NA	NA	NA	NA	NA	< 0.2	NA	NA	NA	< 1	NA	< 1	< 2	< 1	< 0.4	< 1.0	< 0.20
Ethylbenzene	140	700	< 0.65	NA	NA	NA	NA	NA	NA	NA	0.62	NA	NA	NA	< 0.65	NA	< 0.65	< 1.3	< 0.65	< 0.26	< 0.65	< 0.13
Isopropylbenzene	NE	NE	< 0.7	NA	NA	NA	NA	NA	NA	NA	< 0.14	NA	NA	NA	< 0.7	NA	< 0.7	< 1.4	< 0.7	< 0.28	< 0.70	< 0.14
m,p-Xylene	400	2000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methyl tert-butyl ether	12	60	< 1.2	NA	NA	NA	NA	NA	NA	NA	< 0.24	NA	NA	NA	< 1.2	NA	< 1.2	< 2.4	< 1.2	< 0.48	< 1.2	< 0.24
Methylene chloride	0.5	5	< 3.4	NA	NA	NA	NA	NA	NA	NA	< 0.68	NA	NA	NA	< 3.4	NA	< 3.4	< 6.8	< 3.4	< 1.4	< 3.4	< 0.68
Naphthalene	10	100	< 0.8	NA	NA	NA	NA	NA	NA	NA	< 0.16	NA	NA	NA	< 0.8	NA	< 0.8	< 1.6	< 0.8	< 0.32	< 0.80	< 0.16
n-Butylbenzene	NE	NE	< 0.65	NA	NA	NA	NA	NA	NA	NA	< 0.13	NA	NA	NA	< 0.65	NA	< 0.65	< 1.3	< 0.65	< 0.26	< 0.65	< 0.13
n-Hexane	120	600	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
n-Propylbenzene	NE	NE	< 0.65	NA	NA	NA	NA	NA	NA	NA	< 0.13	NA	NA	NA	< 0.65	NA	< 0.65	< 1.3	< 0.65	< 0.26	< 0.65	< 0.13
o-Xylene	400	2000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
p-Isopropyltoluene	NE	NE	< 0.85	NA	NA	NA	NA	NA	NA	NA	< 0.17	NA	NA	NA	< 0.85	NA	< 0.85	< 1.7	< 0.85	< 0.34	< 0.85	< 0.17
sec-Butylbenzene	NE	NE	< 0.75	NA	NA	NA	NA	NA	NA	NA	< 0.15	NA	NA	NA	< 0.75	NA	< 0.75	< 1.5	< 0.75	< 0.3	< 0.75	< 0.15
Styrene	10	100	< 0.5	NA	NA	NA	NA	NA	NA	NA	< 0.1	NA	NA	NA	< 0.5	NA	< 0.5	< 1	< 0.5	< 0.2	< 0.50	< 0.10
tert-Butylbenzene	NE	NE	< 0.7	NA	NA	NA	NA	NA	NA	NA	< 0.14	NA	NA	NA	< 0.7	NA	< 0.7	< 1.4	< 0.7	< 0.28	< 0.70	< 0.14
Tetrachloroethene	0.5	5	***2600***	NA	NA	NA	NA	NA	NA	NA	***1200***	NA	NA	NA	***3900***	NA	***2200***	***3500***	***2500***	***1500***	***1900***	***930***
Toluene	160	800	< 0.55	NA	NA	NA	NA	NA	NA	NA	0.48 J	NA	NA	NA	< 0.55	NA	< 0.55	< 1.1	< 0.55	< 0.22	< 0.55	< 0.11
trans-1,2-Dichloroethene	20	100	2.7 J	NA	NA	NA	NA	NA	NA	NA	< 0.25	NA	NA	NA	< 1.3	NA	< 1.3	< 2.5	< 1.3	< 0.5	< 1.3	< 0.25
Trichloroethene	0.5	5	***160***	NA	NA	NA	NA	NA	NA	NA	< 0.19	NA	NA	NA	***11***	NA	***14***	***150***	***210***	***120***	***130***	***3.3***
Vinyl chloride	0.02	0.2	< 0.5	NA	NA	NA	NA	NA	NA	NA	< 0.1	NA	NA	NA	< 0.5	NA	< 0.5	< 1	< 0.5	< 0.2	< 0.50	< 0.10
Xylenes, Total	400	2000	< 0.34	NA	NA	NA	NA	NA	NA	NA	4.3	NA	NA	NA	< 0.34	NA	< 0.34	< 0.68	< 0.34	< 0.14	< 0.34	< 0.068
Total PCBs																						
Aroclor-1016	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1232	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1242	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1248	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Detected PCBs	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dissolved PCBs																						
Aroclor-1016	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1232	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1242	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1248	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Detected PCBs	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Solids																						
Total Dissolved Solids	NE	NE	1100	950	930	910	920	1000	1100	1900	1800	4000	1200	1700	NA	3900	NA	NA	NA	NA	NA	NA
Total Suspended Solids (TSS)	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

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Table 18
Groundwater Analytical Results Summary
Madison-Kipp Corporation
Madison, Wisconsin

WELL ID SCREEN INTERVAL (feet bgs) SAMPLE DATE	PREVENTIVE ACTION LIMIT	ENFORCEMENT STANDARD	MW-22S 24 - 35 ft 01/15/2013	MW-22S 24 - 35 ft 03/07/2013	MW-22S 24 - 35 ft 04/19/2013	MW-22S 24 - 35 ft 07/16/2013	MW-22S 24 - 35 ft 10/10/2013	MW-22S 24 - 35 ft 04/18/2014	MW-22S 24 - 35 ft 10/20/2014	MW-22S 24 - 35 ft 04/09/2015	MW-22S 24 - 35 ft 10/20/2015	MW-22S 24 - 35 ft 10/14/2016	MW-22S 24 - 35 ft 10/06/2017	MW-22S[3] 24 - 35 ft 10/06/2017
VOCs														
1,1,1,2-Tetrachloroethane	7	70	< 0.25	NA	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.46	< 0.11	< 0.11	< 0.11
1,1,1-Trichloroethane	40	200	< 0.2	NA	< 0.2	< 0.2	< 0.2	< 0.20	< 0.20	< 0.20	< 0.38	< 0.10	< 0.1	< 0.1
1,1,2-Trichloroethane	0.5	5	< 0.28	NA	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.35	< 0.10	< 0.1	< 0.1
1,1-Dichloroethene	0.7	7	< 0.31	NA	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.39	< 0.14	< 0.14	0.14 J
1,2,4-Trimethylbenzene	96	480	0.86 J	NA	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.36	< 0.060	< 0.06	< 0.06
1,2-Dibromoethane	0.005	0.05	< 0.36	NA	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36	< 0.39	< 0.13	< 0.13	< 0.13
1,2-Dichlorobenzene	60	600	< 0.27	NA	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.33	< 0.076	0.11 J	0.11 J
1,2-Dichloropropane	0.5	5	< 0.2	NA	< 0.2	< 0.2	< 0.2	< 0.20	< 0.20	< 0.20	< 0.43	< 0.10	< 0.1	< 0.1
1,2,3-Trichlorobenzene	NE	NE	< 0.24	NA	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.46	< 0.045	< 0.045	< 0.045
1,2,4-Trichlorobenzene	14	70	< 0.31	NA	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.34	< 0.077	0.08 BJ	< 0.077
1,3,5-Trimethylbenzene	96	480	< 0.18	NA	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.25	< 0.075	< 0.075	< 0.075
2-Butanone	800	4000	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 3.0	< 3	< 3
2-Hexanone	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.95	< 0.95	< 0.95
4-Methyl-2-pentanone	50	500	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.77	< 0.77	< 0.77
Acetone	1800	9000	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 3.4	< 3.4	11 J
Benzene	0.5	5	***1.1***	NA	< 0.074	< 0.074	< 0.074	< 0.074	< 0.074	< 0.074	< 0.15	< 0.089	< 0.089	< 0.089
Bromodichloromethane	0.06	0.6	< 0.17	NA	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.37	< 0.077	< 0.077	< 0.077
Bromoform	0.44	4.4	< 0.28	NA	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.48	< 0.088	< 0.088	< 0.088
Bromomethane	1	10	< 0.31	NA	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31 *	< 0.31	< 0.80	< 0.59	< 0.59	< 0.59
Carbon disulfide	200	1000	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.053	< 0.053	< 0.053
Carbon tetrachloride	0.5	5	< 0.26	NA	< 0.26	< 0.26	< 0.26	< 0.26	< 0.26	< 0.26	< 0.38	< 0.038	< 0.038	< 0.038
Chloroform	0.6	6	***1***	NA	***0.91 J***	***1.4***	< 0.2	< 0.20	***0.75 J***	< 0.20	***0.66 J***	***0.91***	0.5	0.49 J
Chloromethane	3	30	< 0.18	NA	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.32	0.72 J	***3***	***5.2***
cis-1,2-Dichloroethene	7	70	1.8	NA	6.1	3.8	***97***	***46***	***58***	***65***	***32***	***46***	***38 J-***	***37***
Dichlorodifluoromethane	200	1000	< 0.2	NA	< 0.2	< 0.2	< 0.2	< 0.20	< 0.20	< 0.20	< 0.54	< 0.11	< 0.11	< 0.11
Ethylbenzene	140	700	0.50	NA	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.18	< 0.054	< 0.054	< 0.054
Isopropylbenzene	NE	NE	< 0.14	NA	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.39	< 0.081	< 0.081	< 0.081
m,p-Xylene	400	2000	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.057	< 0.057	< 0.057
Methyl tert-butyl ether	12	60	< 0.24	NA	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24 *	< 0.24	< 0.39	< 0.14	< 0.14	< 0.14
Methylene chloride	0.5	5	< 0.68	NA	< 0.68	< 0.68	< 0.68	< 0.68	< 0.68	< 0.68	< 1.6	< 0.14	< 0.14	< 0.14
Naphthalene	10	100	< 0.16	NA	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.34	< 0.088	< 0.088	< 0.088
n-Butylbenzene	NE	NE	< 0.13	NA	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.39	< 0.14	< 0.14	< 0.14
n-Hexane	120	600	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.21	< 0.21	< 0.21
n-Propylbenzene	NE	NE	< 0.13	NA	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.41	< 0.10	< 0.1	< 0.1
o-Xylene	400	2000	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.058	< 0.058	< 0.058
p-Isopropyltoluene	NE	NE	< 0.17	NA	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.36	< 0.085	< 0.085	< 0.085
sec-Butylbenzene	NE	NE	< 0.15	NA	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.40	< 0.13	< 0.13	< 0.13
Styrene	10	100	< 0.1	NA	< 0.1	< 0.1	< 0.1	< 0.10	< 0.10	< 0.10	< 0.39	< 0.065	< 0.065	< 0.065
tert-Butylbenzene	NE	NE	< 0.14	NA	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.40	< 0.12	< 0.12	< 0.12
Tetrachloroethene	0.5	5	***180***	NA	***160***	***210***	***13***	***23***	***61***	***17***	***30***	***18***	***24 BJ***	***23 B***
Toluene	160	800	1.7	NA	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.15	0.12 J	< 0.053	< 0.053
trans-1,2-Dichloroethene	20	100	< 0.25	NA	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.35	0.36 J	0.49 J	0.46 J
Trichloroethene	0.5	5	***4.8***	NA	***5.4***	***8.5***	***6.1***	***4.2***	***7.1***	***2.9***	***4.1***	***9.8***	***9.4***	***9.1***
Vinyl chloride	0.02	0.2	< 0.1	NA	< 0.1	< 0.1	< 0.1	< 0.10	< 0.10	< 0.10	< 0.20	***0.40 J***	***0.85***	***0.8***
Xylenes, Total	400	2000	1.5	NA	< 0.068	< 0.068	< 0.068	< 0.068	< 0.068	< 0.068	< 0.22	< 0.058	< 0.12	< 0.12
Total PCBs														
Aroclor-1016	0.003	0.03	***12***	< 0.033	***4***	< 0.064	< 0.064	< 0.065	NA	NA	NA	NA	< 0.035	< 0.035
Aroclor-1232	0.003	0.03	< 0.49	***13***	< 0.19	< 0.19	***12***	< 0.20	NA	NA	NA	NA	< 0.037	< 0.037
Aroclor-1242	0.003	0.03	< 0.69	< 0.099	< 0.19	***4.7***	< 0.19	***7.1***	NA	NA	NA	NA	< 0.038	< 0.038
Aroclor-1248	0.003	0.03	< 0.58	< 0.099	< 0.19	< 0.19	< 0.19	< 0.20	NA	NA	NA	NA	***2***	***1.9***
Total Detected PCBs	0.003	0.03	***12***	***13***	***4***	***4.7***	***12***	***7.1***	NA	NA	NA	NA	***2***	***1.9***
Dissolved PCBs														
Aroclor-1016	0.003	0.03	NA	< 0.037	< 0.068	< 0.065	< 0.063	< 0.067	***0.89***	< 0.063	< 0.064	NA	NA	NA
Aroclor-1232	0.003	0.03	NA	< 0.11	< 0.2	< 0.19	< 0.19	< 0.20	< 0.19	< 0.19	< 0.19	NA	NA	NA
Aroclor-1242	0.003	0.03	NA	< 0.11	< 0.2	< 0.19	< 0.19	***0.28 J***	< 0.19	***1.9***	< 0.19	NA	NA	NA
Aroclor-1248	0.003	0.03	NA	< 0.11	< 0.2	< 0.19	< 0.19	< 0.20	< 0.19	< 0.19	< 0.19	NA	NA	NA
Total Detected PCBs	0.003	0.03	NA	ND	ND	ND	ND	***0.28 J***	***0.89***	***1.9***	ND	NA	NA	NA
Solids														
Total Dissolved Solids	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	806	830	838
Total Suspended Solids (TSS)	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	4.0	1.2 J	< 0.95

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Table 18
Groundwater Analytical Results Summary
Madison-Kipp Corporation
Madison, Wisconsin

WELL ID SCREEN INTERVAL (feet bgs) SAMPLE DATE	PREVENTIVE ACTION LIMIT	ENFORCEMENT STANDARD	MW-22D 45 - 50 ft 01/15/2013	MW-22D[3] 45 - 50 ft 01/15/2013	MW-22D 45 - 50 ft 03/08/2013	MW-22D 45 - 50 ft 04/19/2013	MW-22D[3] 45 - 50 ft 04/19/2013	MW-22D 45 - 50 ft 07/16/2013	MW-22D[3] 45 - 50 ft 07/16/2013	MW-22D 45 - 50 ft 10/10/2013	MW-22D[3] 45 - 50 ft 10/10/2013	MW-22D 45 - 50 ft 04/18/2014	MW-22D[3] 45 - 50 ft 04/18/2014	MW-22D 45 - 50 ft 10/16/2014	MW-22D[3] 45 - 50 ft 10/16/2014	MW-22D 45 - 50 ft 04/09/2015
VOCs																
1,1,1,2-Tetrachloroethane	7	70	< 0.25	< 0.25	NA	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25
1,1,1-Trichloroethane	40	200	< 0.2	< 0.2	NA	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20
1,1,2-Trichloroethane	0.5	5	< 0.28	< 0.28	NA	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28
1,1-Dichloroethene	0.7	7	< 0.31	< 0.31	NA	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31
1,2,4-Trimethylbenzene	96	480	< 0.14	< 0.14	NA	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14
1,2-Dibromoethane	0.005	0.05	< 0.36	< 0.36	NA	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36
1,2-Dichlorobenzene	60	600	< 0.27	< 0.27	NA	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27
1,2-Dichloropropane	0.5	5	< 0.2	< 0.2	NA	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20
1,2,3-Trichlorobenzene	NE	NE	< 0.24	< 0.24	NA	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24
1,2,4-Trichlorobenzene	14	70	< 0.31	< 0.31	NA	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31
1,3,5-Trimethylbenzene	96	480	< 0.18	< 0.18	NA	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18
2-Butanone	800	4000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Hexanone	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
4-Methyl-2-pentanone	50	500	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Acetone	1800	9000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzene	0.5	5	< 0.074	< 0.074	NA	< 0.074	< 0.074	< 0.074	< 0.074	< 0.074	< 0.074	< 0.074	< 0.074	< 0.074	< 0.074	0.47 J
Bromodichloromethane	0.06	0.6	< 0.17	< 0.17	NA	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17
Bromoform	0.44	4.4	< 0.28	< 0.28	NA	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28
Bromomethane	1	10	< 0.31	< 0.31	NA	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31
Carbon disulfide	200	1000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Carbon tetrachloride	0.5	5	< 0.26	< 0.26	NA	< 0.26	< 0.26	< 0.26	< 0.26	< 0.26	< 0.26	< 0.26	< 0.26	< 0.26	< 0.26	< 0.26
Chloroform	0.6	6	< 0.2	< 0.2	NA	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20
Chloromethane	3	30	0.47 J	< 0.18	NA	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18
cis-1,2-Dichloroethene	7	70	3.6	3.3	NA	4.9	4.9	3.7	3.7	< 0.12	4.0	2.6	2.5	4.2	4.9	4.2
Dichlorodifluoromethane	200	1000	< 0.2	< 0.2	NA	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20
Ethylbenzene	140	700	< 0.13	< 0.13	NA	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13
Isopropylbenzene	NE	NE	< 0.14	< 0.14	NA	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14
m,p-Xylene	400	2000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Methyl tert-butyl ether	12	60	< 0.24	< 0.24	NA	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24
Methylene chloride	0.5	5	< 0.68	< 0.68	NA	< 0.68	< 0.68	< 0.68	< 0.68	< 0.68	< 0.68	< 0.68	< 0.68	***6.6***	***7.1***	< 0.68
Naphthalene	10	100	< 0.16	< 0.16	NA	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16
n-Butylbenzene	NE	NE	< 0.13	< 0.13	NA	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13
n-Hexane	120	600	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
n-Propylbenzene	NE	NE	< 0.13	< 0.13	NA	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13
o-Xylene	400	2000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
p-Isopropyltoluene	NE	NE	< 0.17	< 0.17	NA	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17
sec-Butylbenzene	NE	NE	< 0.15	< 0.15	NA	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15
Styrene	10	100	< 0.1	< 0.1	NA	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10
tert-Butylbenzene	NE	NE	< 0.14	< 0.14	NA	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14
Tetrachloroethene	0.5	5	***520***	***470***	NA	***450***	***430***	***270***	***310***	***190***	***190***	***430***	***450***	***250***	***270***	***170***
Toluene	160	800	< 0.11	< 0.11	NA	< 0.11	< 0.11	0.37 J	0.38 J	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11
trans-1,2-Dichloroethene	20	100	< 0.25	< 0.25	NA	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25
Trichloroethene	0.5	5	***5.8***	***6***	NA	***5.8***	***5.7***	***5***	***5.3***	***4.9***	***5.3***	***6.8***	***6.7***	***5.7***	***6.9***	***5.6***
Vinyl chloride	0.02	0.2	< 0.1	< 0.1	NA	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	***0.92***	< 0.10	< 0.10	***0.68***	***0.66***	***0.62***
Xylenes, Total	400	2000	< 0.068	< 0.068	NA	< 0.068	< 0.068	< 0.068	< 0.068	< 0.068	< 0.068	< 0.068	< 0.068	< 0.068	< 0.068	< 0.068
Total PCBs																
Aroclor-1016	0.003	0.03	***2.4***	NA	< 0.033	< 0.064	NA	< 0.063	NA	< 0.063	NA	< 0.065	NA	NA	NA	NA
Aroclor-1232	0.003	0.03	< 0.092	NA	***2.6***	< 0.19	NA	< 0.19	NA	***3.3***	NA	< 0.19	NA	NA	NA	NA
Aroclor-1242	0.003	0.03	< 0.13	NA	< 0.1	< 0.19	NA	***0.97***	NA	< 0.19	NA	< 0.19	NA	NA	NA	NA
Aroclor-1248	0.003	0.03	< 0.11	NA	< 0.1	< 0.19	NA	< 0.19	NA	< 0.19	NA	< 0.19	NA	NA	NA	NA
Total Detected PCBs	0.003	0.03	***2.4***	NA	***2.6***	ND	NA	***0.97***	NA	***3.3***	NA	ND	NA	NA	NA	NA
Dissolved PCBs																
Aroclor-1016	0.003	0.03	NA	NA	< 0.033	< 0.064	NA	< 0.064	NA	< 0.065	NA	< 0.066	NA	< 0.063	NA	< 0.063
Aroclor-1232	0.003	0.03	NA	NA	< 0.1	< 0.19	NA	< 0.19	NA	< 0.19	NA	< 0.20	NA	< 0.19	NA	< 0.19
Aroclor-1242	0.003	0.03	NA	NA	< 0.1	< 0.19	NA	< 0.19	NA	< 0.19	NA	< 0.20	NA	< 0.19	NA	***4.3***
Aroclor-1248	0.003	0.03	NA	NA	< 0.1	< 0.19	NA	< 0.19	NA	< 0.19	NA	< 0.20	NA	< 0.19	NA	< 0.19
Total Detected PCBs	0.003	0.03	NA	NA	ND	ND	NA	ND	NA	ND	NA	ND	NA	ND	NA	***4.3***
Solids																
Total Dissolved Solids	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Suspended Solids (TSS)	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

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Table 18
Groundwater Analytical Results Summary
Madison-Kipp Corporation
Madison, Wisconsin

WELL ID			MW-22D[3]	MW-22D	MW-22D	MW-22D	MW-22D[3]	MW-22D	MW-22D	MW-22D	MW-22D	MW-22D	MW-22D	MW-22D	MW-22D[3]
SCREEN INTERVAL (feet bgs)	PREVENTIVE	ENFORCEMENT	45 - 50 ft	45 - 50 ft	45 - 50 ft	45 - 50 ft	45 - 50 ft	45 - 50 ft	45 - 50 ft	45 - 50 ft	45 - 50 ft	45 - 50 ft	45 - 50 ft	45 - 50 ft	45 - 50 ft
SAMPLE DATE	ACTION LIMIT	STANDARD	04/09/2015	06/10/2015	07/20/2015	10/20/2015	10/20/2015	01/22/2016	04/21/2016	07/20/2016	10/14/2016	1/20/2017	04/11/2017	10/06/2017	10/06/2017
VOCs															
1,1,1,2-Tetrachloroethane	7	70	< 0.25	NA	NA	< 0.46	< 0.46	< 0.11	< 2.2	< 0.55	< 0.44	< 0.55	< 0.55	< 0.55	< 0.55
1,1,1-Trichloroethane	40	200	< 0.20	NA	NA	< 0.38	< 0.38	< 0.10	< 2.0	< 0.50	< 0.40	< 0.50	< 0.50	< 0.5	< 0.5
1,1,2-Trichloroethane	0.5	5	< 0.28	NA	NA	< 0.35	< 0.35	< 0.10	< 2.0	< 0.50	< 0.40	< 0.50	< 0.50	< 0.5	< 0.5
1,1-Dichloroethene	0.7	7	< 0.31	NA	NA	< 0.39	< 0.39	< 0.14	< 2.8	< 0.70	< 0.56	< 0.70	< 0.70	< 0.7	< 0.7
1,2,4-Trimethylbenzene	96	480	< 0.14	NA	NA	< 0.36	< 0.36	< 0.060	< 1.2	< 0.30	< 0.24	< 0.30	< 0.30	< 0.3	< 0.3
1,2-Dibromoethane	0.005	0.05	< 0.36	NA	NA	< 0.39	< 0.39	< 0.13	< 2.6	< 0.65	< 0.52	< 0.65	< 0.65	< 0.65	< 0.65
1,2-Dichlorobenzene	60	600	< 0.27	NA	NA	< 0.33	< 0.33	< 0.076	< 1.5	< 0.38	< 0.30	< 0.38	< 0.38	< 0.38	< 0.38
1,2-Dichloropropane	0.5	5	< 0.20	NA	NA	< 0.43	< 0.43	< 0.10	< 2.0	< 0.50	< 0.40	< 0.50	< 0.50	< 0.5	< 0.5
1,2,3-Trichlorobenzene	NE	NE	< 0.24	NA	NA	< 0.46	< 0.46	< 0.045	< 0.90	< 0.23	< 0.18	< 0.23	< 0.23	< 0.23	< 0.23
1,2,4-Trichlorobenzene	14	70	< 0.31	NA	NA	< 0.34	< 0.34	< 0.077	< 1.5	< 0.39	< 0.31	< 0.39	< 0.39	< 0.39	< 0.39
1,3,5-Trimethylbenzene	96	480	< 0.18	NA	NA	< 0.25	< 0.25	< 0.075	< 1.5	< 0.38	< 0.30	< 0.38	< 0.38	< 0.38	< 0.38
2-Butanone	800	4000	NA	NA	NA	NA	NA	< 3.0	< 60	< 15	< 12	< 15	< 15	< 15	< 15
2-Hexanone	NE	NE	NA	NA	NA	NA	NA	< 0.95	< 19	< 4.8	< 3.8	< 4.8	< 4.8	< 4.8	< 4.8
4-Methyl-2-pentanone	50	500	NA	NA	NA	NA	NA	< 0.77	< 15	< 3.9	< 3.1	< 3.9	< 3.9	< 3.9	< 3.9
Acetone	1800	9000	NA	NA	NA	NA	NA	< 3.4	< 68	< 17	< 14	< 17	38 BJ	< 17	< 17
Benzene	0.5	5	< 0.074	NA	NA	< 0.15	< 0.15	< 0.089	< 1.8	< 0.45	< 0.36	< 0.45	***0.80 J***	< 0.45	< 0.45
Bromodichloromethane	0.06	0.6	< 0.17	NA	NA	< 0.37	< 0.37	< 0.077	< 1.5	< 0.39	< 0.31	< 0.39	< 0.39	< 0.39	< 0.39
Bromoform	0.44	4.4	< 0.28	NA	NA	< 0.48	< 0.48	< 0.088	< 1.8	< 0.44	< 0.35	< 0.44	< 0.44	< 0.44	< 0.44
Bromomethane	1	10	< 0.31	NA	NA	< 0.80	< 0.80	< 0.59	< 12	< 3.0	< 2.4	< 3.0	< 3.0	< 3	< 3
Carbon disulfide	200	1000	NA	NA	NA	NA	NA	< 0.053	9.2 J	< 0.27	< 0.21	< 0.27	2.3 J	< 0.27	< 0.27
Carbon tetrachloride	0.5	5	< 0.26	NA	NA	< 0.38	< 0.38	< 0.038	< 0.76	< 0.19	< 0.15	< 0.19	< 0.19	< 0.19	< 0.19
Chloroform	0.6	6	< 0.20	NA	NA	< 0.37	< 0.37	0.36 J	***2.4 BJ***	< 0.31	< 0.25	0.40 BJ	***1.1 J***	< 0.31	< 0.31
Chloromethane	3	30	< 0.18	NA	NA	< 0.32	< 0.32	< 0.16	< 3.2	< 0.80	***3.4 J***	< 0.80	2.8 J+	< 0.8	***4.9 J***
cis-1,2-Dichloroethene	7	70	4.4	NA	NA	4.0	3.9	3.9	3.6 J	3.8	5.6	***14***	***26***	***47***	***47***
Dichlorodifluoromethane	200	1000	< 0.20	NA	NA	< 0.54	< 0.54	< 0.11	< 2.2	< 0.55	< 0.44	< 0.55	< 0.55	< 0.55	< 0.55
Ethylbenzene	140	700	< 0.13	NA	NA	< 0.18	< 0.18	< 0.054	< 1.1	< 0.27	< 0.22	< 0.27	< 0.27	< 0.27	< 0.27
Isopropylbenzene	NE	NE	< 0.14	NA	NA	< 0.39	< 0.39	< 0.081	< 1.6	< 0.41	< 0.32	< 0.41	< 0.41	< 0.41	< 0.41
m,p-Xylene	400	2000	NA	NA	NA	NA	NA	< 0.057	< 1.1	< 0.29	< 0.23	< 0.29	< 0.29	< 0.29	< 0.29
Methyl tert-butyl ether	12	60	< 0.24	NA	NA	< 0.39	< 0.39	< 0.14	< 2.8	< 0.70	< 0.56	< 0.70	< 0.70	< 0.7	< 0.7
Methylene chloride	0.5	5	< 0.68	NA	NA	< 1.6	< 1.6	< 0.14	< 2.8	< 0.70	< 0.56	***1.3 BJ***	< 0.70	< 0.7	< 0.7
Naphthalene	10	100	< 0.16	NA	NA	< 0.34	< 0.34	< 0.088	< 1.8	< 0.44	< 0.35	< 0.44	1.6 BJ	< 0.44	< 0.44
n-Butylbenzene	NE	NE	< 0.13	NA	NA	< 0.39	< 0.39	< 0.14	< 2.8	< 0.70	< 0.56	< 0.70	< 0.70	< 0.7	< 0.7
n-Hexane	120	600	NA	NA	NA	NA	NA	< 0.21	< 4.2	< 1.1	< 0.84	< 1.1	< 1.1	< 1.1	< 1.1
n-Propylbenzene	NE	NE	< 0.13	NA	NA	< 0.41	< 0.41	< 0.10	< 2.0	< 0.50	< 0.40	< 0.50	< 0.50	< 0.5	< 0.5
o-Xylene	400	2000	NA	NA	NA	NA	NA	< 0.058	< 1.2	< 0.29	< 0.23	< 0.29	< 0.29	< 0.29	< 0.29
p-Isopropyltoluene	NE	NE	< 0.17	NA	NA	< 0.36	< 0.36	< 0.085	< 1.7	< 0.43	< 0.34	< 0.43	< 0.43	< 0.43	< 0.43
sec-Butylbenzene	NE	NE	< 0.15	NA	NA	< 0.40	< 0.40	< 0.13	< 2.6	< 0.65	< 0.52	< 0.65	< 0.65	< 0.65	< 0.65
Styrene	10	100	< 0.10	NA	NA	< 0.39	< 0.39	< 0.065	< 1.3	< 0.33	< 0.26	< 0.33	< 0.33	< 0.33	0.35 BJ
tert-Butylbenzene	NE	NE	< 0.14	NA	NA	< 0.40	< 0.40	< 0.12	< 2.4	< 0.60	< 0.48	< 0.60	< 0.60	< 0.6	< 0.6
Tetrachloroethene	0.5	5	***190***	NA	NA	***140***	***160***	***220***	***140***	***130***	***92***	***120***	***120***	***120 B***	***120 B***
Toluene	160	800	< 0.11	NA	NA	< 0.15	< 0.15	< 0.053	< 1.1	< 0.27	0.48 J	0.50 BJ	0.80 J	< 0.27	< 0.27
trans-1,2-Dichloroethene	20	100	< 0.25	NA	NA	< 0.35	< 0.35	0.23 J	< 2.2	< 0.55	< 0.44	0.70 J	1.3 J	2.3 J	2.5 J
Trichloroethene	0.5	5	***5.7***	NA	NA	***5.4***	***5.7***	***6.1***	***5.6 J***	***5.7***	***4.4***	***5.2 B***	***6.3***	***9.4***	***9.4***
Vinyl chloride	0.02	0.2	< 0.10	NA	NA	***0.66***	***0.74***	< 0.16	< 3.2	***0.85 J***	***2.2***	***4.3***	***6.5 J+***	***10***	***11***
Xylenes, Total	400	2000	< 0.068	NA	NA	< 0.22	< 0.22	< 0.058	< 1.2	< 0.29	< 0.23	< 0.58	< 0.58	< 0.58	< 0.58
Total PCBs															
Aroclor-1016	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.035	< 0.035
Aroclor-1232	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.037	< 0.037
Aroclor-1242	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.038	< 0.038
Aroclor-1248	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	***0.3***	***0.31***
Total Detected PCBs	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	***0.3***	***0.31***
Dissolved PCBs															
Aroclor-1016	0.003	0.03	NA	< 0.066	< 0.062	< 0.069	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1232	0.003	0.03	NA	< 0.20	< 0.19	< 0.21	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1242	0.003	0.03	NA	< 0.20	< 0.19	< 0.21	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1248	0.003	0.03	NA	< 0.20	< 0.19	< 0.21	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Detected PCBs	0.003	0.03	NA	ND	ND	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA
Solids															
Total Dissolved Solids	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	892	890
Total Suspended Solids (TSS)	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.95	< 0.95

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Table 18
Groundwater Analytical Results Summary
Madison-Kipp Corporation
Madison, Wisconsin

WELL ID SCREEN INTERVAL (feet bgs) SAMPLE DATE	PREVENTIVE ACTION LIMIT	ENFORCEMENT STANDARD	MW-23S 24 - 35 ft 01/15/2013	MW-23S 24 - 35 ft 04/19/2013	MW-23S 24 - 35 ft 07/16/2013	MW-23S 24 - 35 ft 09/05/2013	MW-23S 24 - 35 ft 09/05/2013	MW-23S 24 - 35 ft 10/10/2013	MW-23S 24 - 35 ft 04/18/2014	MW-23S 24 - 35 ft 10/20/2014	MW-23S 24 - 35 ft 04/09/2015	MW-23S 24 - 35 ft 10/20/2015	MW-23S 24 - 35 ft 10/14/2016	MW-23S[3] 24 - 35 ft 10/14/2016	MW-23S 24 - 35 ft 10/06/2017	MW-23S[3] 24 - 35 ft 10/06/2017
VOCs																
1,1,1,2-Tetrachloroethane	7	70	< 0.25	< 0.25	< 0.25	< 0.25	NA	< 0.25	< 0.25	< 0.25	< 0.25	< 0.46	< 0.44	< 0.22	< 0.22	< 0.55
1,1,1-Trichloroethane	40	200	< 0.2	< 0.2	< 0.2	< 0.2	NA	< 0.2	< 0.20	< 0.20	< 0.20	< 0.38	< 0.40	< 0.20	< 0.2	< 0.5
1,1,2-Trichloroethane	0.5	5	< 0.28	< 0.28	< 0.28	< 0.28	NA	***1.8***	< 0.28	< 0.28	< 0.28	< 0.35	< 0.40	< 0.20	< 0.2	< 0.5
1,1-Dichloroethene	0.7	7	< 0.31	< 0.31	< 0.31	< 0.31	NA	< 0.31	< 0.31	< 0.31	< 0.31	< 0.39	< 0.56	< 0.28	< 0.28	< 0.7
1,2,4-Trimethylbenzene	96	480	< 0.14	< 0.14	< 0.14	< 0.14	NA	< 0.14	< 0.14	< 0.14	< 0.14	< 0.36	< 0.24	< 0.12	< 0.12	< 0.3
1,2-Dibromoethane	0.005	0.05	< 0.36	< 0.36	< 0.36	< 0.36	NA	< 0.36	< 0.36	< 0.36	< 0.36	< 0.39	< 0.52	< 0.26	< 0.26	< 0.65
1,2-Dichlorobenzene	60	600	< 0.27	< 0.27	< 0.27	< 0.27	NA	< 0.27	< 0.27	< 0.27	< 0.27	< 0.33	< 0.30	< 0.15	< 0.15	< 0.38
1,2-Dichloropropane	0.5	5	< 0.2	< 0.2	< 0.2	< 0.2	NA	< 0.2	< 0.20	< 0.20	< 0.20	< 0.43	< 0.40	< 0.20	< 0.2	< 0.5
1,2,3-Trichlorobenzene	NE	NE	< 0.24	< 0.24	< 0.24	< 0.24	NA	< 0.24	< 0.24	< 0.24	< 0.24	< 0.46	< 0.18	< 0.090	< 0.09	< 0.23
1,2,4-Trichlorobenzene	14	70	< 0.31	< 0.31	< 0.31	< 0.31	NA	< 0.31	< 0.31	< 0.31	< 0.31	< 0.34	< 0.31	< 0.15	< 0.15	< 0.39
1,3,5-Trimethylbenzene	96	480	< 0.18	< 0.18	< 0.18	< 0.18	NA	< 0.18	< 0.18	< 0.18	< 0.18	< 0.25	< 0.30	< 0.15	< 0.15	< 0.38
2-Butanone	800	4000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 12	< 6.0	< 6	< 15
2-Hexanone	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 3.8	< 1.9	< 1.9	< 4.8
4-Methyl-2-pentanone	50	500	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 3.1	< 1.5	< 1.5	< 3.9
Acetone	1800	9000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 14	< 6.8	14 J	< 17
Benzene	0.5	5	***0.73***	< 0.074	< 0.074	< 0.074	NA	< 0.074	< 0.074	< 0.074	< 0.074	< 0.15	< 0.36	< 0.18	< 0.18	< 0.45
Bromodichloromethane	0.06	0.6	< 0.17	< 0.17	< 0.17	< 0.17	NA	< 0.17	< 0.17	< 0.17	< 0.17	< 0.37	< 0.31	< 0.15	< 0.15	< 0.39
Bromoform	0.44	4.4	< 0.28	< 0.28	< 0.28	< 0.28	NA	< 0.28	< 0.28	< 0.28	< 0.28	< 0.48	< 0.35	< 0.18	< 0.18	< 0.44
Bromomethane	1	10	< 0.31	< 0.31	< 0.31	< 0.31	NA	< 0.31	< 0.31	< 0.31 *	< 0.31	< 0.80	< 2.4	< 1.2	< 1.2	< 3
Carbon disulfide	200	1000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.21	< 0.11	< 0.11	< 0.27
Carbon tetrachloride	0.5	5	< 0.26	< 0.26	< 0.26	< 0.26	NA	< 0.26	< 0.26	< 0.26	< 0.26	< 0.38	< 0.15	< 0.076	< 0.076	< 0.19
Chloroform	0.6	6	< 0.2	< 0.2	< 0.2	< 0.2	NA	< 0.2	< 0.20	< 0.20	< 0.20	< 0.37	< 0.25	< 0.12	< 0.12	< 0.31
Chloromethane	3	30	1.2	< 0.18	< 0.18	< 0.18	NA	< 0.18	< 0.18	< 0.18	< 0.18	< 0.32	2.3 BJ	0.86 J	0.92 J	2.7 J
cis-1,2-Dichloroethene	7	70	< 0.12	3.7	***29***	***27***	NA	***16***	***16***	***19***	***20***	***9.6***	***12***	***15***	***33***	***33***
Dichlorodifluoromethane	200	1000	< 0.2	< 0.2	< 0.2	< 0.2	NA	< 0.2	< 0.20	< 0.20	< 0.20	< 0.54	< 0.44	< 0.22	< 0.22	< 0.55
Ethylbenzene	140	700	0.43 J	< 0.13	< 0.13	< 0.13	NA	< 0.13	< 0.13	< 0.13	< 0.13	< 0.18	< 0.22	< 0.11	< 0.11	< 0.27
Isopropylbenzene	NE	NE	< 0.14	< 0.14	< 0.14	< 0.14	NA	< 0.14	< 0.14	< 0.14	< 0.14	< 0.39	< 0.32	< 0.16	< 0.16	< 0.41
m,p-Xylene	400	2000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.23	< 0.11	< 0.11	< 0.29
Methyl tert-butyl ether	12	60	< 0.24	< 0.24	< 0.24	< 0.24	NA	< 0.24	< 0.24	< 0.24	< 0.24	< 0.39	< 0.56	< 0.28	< 0.28	< 0.7
Methylene chloride	0.5	5	< 0.68	< 0.68	< 0.68	< 0.68	NA	< 0.68	< 0.68	< 0.68	< 0.68	< 1.6	< 0.56	< 0.28	< 0.28	< 0.7
Naphthalene	10	100	< 0.16	< 0.16	< 0.16	< 0.16	NA	< 0.16	< 0.16	< 0.16	< 0.16	< 0.34	< 0.35	< 0.18	< 0.18	0.45 BJ
n-Butylbenzene	NE	NE	< 0.13	< 0.13	< 0.13	< 0.13	NA	< 0.13	< 0.13	< 0.13	< 0.13	< 0.39	< 0.56	< 0.28	< 0.28	< 0.7
n-Hexane	120	600	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.84	< 0.42	< 0.42	< 1.1
n-Propylbenzene	NE	NE	< 0.13	< 0.13	< 0.13	< 0.13	NA	< 0.13	< 0.13	< 0.13	< 0.13	< 0.41	< 0.40	< 0.20	< 0.2	< 0.5
o-Xylene	400	2000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.23	< 0.12	< 0.12	< 0.29
p-Isopropyltoluene	NE	NE	< 0.17	< 0.17	< 0.17	< 0.17	NA	< 0.17	< 0.17	< 0.17	< 0.17	< 0.36	< 0.34	< 0.17	< 0.17	< 0.43
sec-Butylbenzene	NE	NE	< 0.15	< 0.15	< 0.15	< 0.15	NA	< 0.15	< 0.15	< 0.15	< 0.15	< 0.40	< 0.52	< 0.26	< 0.26	< 0.65
Styrene	10	100	< 0.1	< 0.1	< 0.1	< 0.1	NA	< 0.1	< 0.10	< 0.10	< 0.10	< 0.39	< 0.26	< 0.13	< 0.13	0.35 BJ
tert-Butylbenzene	NE	NE	< 0.14	< 0.14	< 0.14	< 0.14	NA	< 0.14	< 0.14	< 0.14	< 0.14	< 0.40	< 0.48	< 0.24	< 0.24	< 0.6
Tetrachloroethene	0.5	5	***290***	***580***	***420***	***240***	NA	***130***	***210***	***190***	***190***	***360***	***66***	***88***	***120 B***	***120 B***
Toluene	160	800	1.3	< 0.11	< 0.11	< 0.11	NA	< 0.11	< 0.11	< 0.11	< 0.11	< 0.15	< 0.21	< 0.11	< 0.11	< 0.27
trans-1,2-Dichloroethene	20	100	< 0.25	< 0.25	< 0.25	< 0.25	NA	< 0.25	< 0.25	< 0.25	< 0.25	< 0.35	< 0.44	< 0.22	< 0.22	< 0.55
Trichloroethene	0.5	5	***0.64***	***1.4***	***20***	***17***	NA	***15***	***11***	***11***	***10***	***5.9***	***7.2***	***9.1***	***7.8***	***7.6***
Vinyl chloride	0.02	0.2	< 0.1	< 0.1	< 0.1	< 0.1	NA	< 0.1	< 0.10	< 0.10	< 0.10	< 0.20	< 0.64	< 0.32	< 0.32	< 0.8
Xylenes, Total	400	2000	0.95 J	< 0.068	< 0.068	< 0.068	NA	< 0.068	< 0.068	< 0.068	< 0.068	< 0.22	< 0.23	< 0.12	< 0.23	< 0.58
Total PCBs																
Aroclor-1016	0.003	0.03	< 0.19	NA	< 0.063	< 0.028	NA	< 0.066	NA	NA	NA	NA	NA	NA	< 0.035	< 0.035
Aroclor-1232	0.003	0.03	< 0.11	NA	< 0.19	< 0.083	NA	< 0.2	NA	NA	NA	NA	NA	NA	< 0.037	< 0.037
Aroclor-1242	0.003	0.03	< 0.15	NA	< 0.19	< 0.083	NA	< 0.2	NA	NA	NA	NA	NA	NA	< 0.038	< 0.038
Aroclor-1248	0.003	0.03	< 0.13	NA	< 0.19	< 0.083	NA	< 0.2	NA	NA	NA	NA	NA	NA	***0.034 J***	< 0.02
Total Detected PCBs	0.003	0.03	ND	NA	ND	ND	NA	ND	NA	NA	NA	NA	NA	NA	***0.034 J***	ND
Dissolved PCBs																
Aroclor-1016	0.003	0.03	NA	NA	< 0.063	NA	< 0.026	< 0.064	NA	< 0.063	< 0.063	< 0.063	NA	NA	NA	NA
Aroclor-1232	0.003	0.03	NA	NA	< 0.19	NA	< 0.078	< 0.19	NA	< 0.19	< 0.19	< 0.19	NA	NA	NA	NA
Aroclor-1242	0.003	0.03	NA	NA	< 0.19	NA	< 0.078	< 0.19	NA	< 0.19	< 0.19	< 0.19	NA	NA	NA	NA
Aroclor-1248	0.003	0.03	NA	NA	< 0.19	NA	< 0.078	< 0.19	NA	< 0.19	< 0.19	< 0.19	NA	NA	NA	NA
Total Detected PCBs	0.003	0.03	NA	NA	ND	NA	ND	ND	NA	ND	ND	ND	NA	NA	NA	NA
Solids																
Total Dissolved Solids	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	478	NA	656	644
Total Suspended Solids (TSS)	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	5.8	NA	16.8	18

Notes on Page 55.

Table 18
Groundwater Analytical Results Summary
Madison-Kipp Corporation
Madison, Wisconsin

WELL ID			MW-23D	MW-23D	MW-23D	MW-23D	MW-23D	MW-23D	MW-23D	MW-23D	MW-23D	MW-23D	MW-23D	MW-23D	MW-23D	MW-23D	MW-23D	MW-23D[3]	MW-23D	MW-23D[3]
SCREEN INTERVAL (feet bgs)	PREVENTIVE	ENFORCEMENT	45 - 50 ft	45 - 50 ft	45 - 50 ft	45 - 50 ft	45 - 50 ft	45 - 50 ft	45 - 50 ft	45 - 50 ft	45 - 50 ft	45 - 50 ft	45 - 50 ft	45 - 50 ft	45 - 50 ft	45 - 50 ft	45 - 50 ft	45 - 50 ft	45 - 50 ft	45 - 50 ft
SAMPLE DATE	ACTION LIMIT	STANDARD	01/14/2013	03/08/2013	04/19/2013	04/20/2013	07/17/2013	10/10/2013	04/18/2014	10/20/2014	04/09/2015	10/20/2015	01/22/2016	04/21/2016	07/20/2016	10/14/2016	1/20/2017	04/11/2017	04/11/2017	10/06/2017	10/06/2017
VOCs																					
1,1,1,2-Tetrachloroethane	7	70	< 0.25	NA	< 0.25	NA	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.46	< 0.11	< 2.2	< 0.55	< 0.11	< 1.1	< 1.1	< 0.11	< 0.55	< 0.55
1,1,1-Trichloroethane	40	200	< 0.2	NA	< 0.2	NA	< 0.2	< 0.2	< 0.20	< 0.20	< 0.20	< 0.38	< 0.10	< 2.0	< 0.50	< 0.10	< 1.0	< 1.0	< 0.10	< 0.5	< 0.5
1,1,2-Trichloroethane	0.5	5	< 0.28	NA	< 0.28	NA	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.35	< 0.10	< 2.0	< 0.50	< 0.10	< 1.0	< 1.0	< 0.10	< 0.5	< 0.5
1,1-Dichloroethene	0.7	7	< 0.31	NA	< 0.31	NA	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.39	< 0.14	< 2.8	< 0.70	< 0.14	< 1.4	< 1.4	< 0.14	< 0.7	< 0.7
1,2,4-Trimethylbenzene	96	480	< 0.14	NA	< 0.14	NA	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.36	< 0.060	< 1.2	< 0.30	< 0.060	< 0.60	< 0.60	< 0.060	< 0.3	< 0.3
1,2-Dibromoethane	0.005	0.05	< 0.36	NA	< 0.36	NA	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36	< 0.39	< 0.13	< 2.6	< 0.65	< 0.13	< 1.3	< 1.3	< 0.13	< 0.65	< 0.65
1,2-Dichlorobenzene	60	600	< 0.27	NA	< 0.27	NA	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.33	< 0.076	< 1.5	< 0.38	< 0.076	< 0.76	< 0.76	< 0.076	< 0.38	< 0.38
1,2-Dichloropropane	0.5	5	< 0.2	NA	< 0.2	NA	< 0.2	< 0.2	< 0.20	< 0.20	< 0.20	< 0.43	< 0.10	< 2.0	< 0.50	< 0.10	< 1.0	< 1.0	< 0.10	< 0.5	< 0.5
1,2,3-Trichlorobenzene	NE	NE	< 0.24	NA	< 0.24	NA	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.46	< 0.045	< 0.90	< 0.23	< 0.045	< 0.45	< 0.45	< 0.045	< 0.23	< 0.23
1,2,4-Trichlorobenzene	14	70	< 0.31	NA	< 0.31	NA	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.34	< 0.077	< 1.5	< 0.39	< 0.077	< 0.77	< 0.77	< 0.077	< 0.39	< 0.39
1,3,5-Trimethylbenzene	96	480	< 0.18	NA	< 0.18	NA	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.25	< 0.075	< 1.5	< 0.38	< 0.075	< 0.75	< 0.75	< 0.075	< 0.38	< 0.38
2-Butanone	800	4000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 3.0	< 60	< 15	< 3.0	< 30	< 30	< 3.0	< 15	< 15
2-Hexanone	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.95	< 19	< 4.8	< 0.95	< 9.5	< 9.5	< 0.95	< 4.8	< 4.8
4-Methyl-2-pentanone	50	500	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.77	< 15	< 3.9	< 0.77	< 7.7	< 7.7	< 0.77	< 3.9	< 3.9
Acetone	1800	9000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 3.4	< 68	< 17	< 3.4	< 34	< 34	9.6 BJ	< 17	< 17
Benzene	0.5	5	0.32 J	NA	< 0.074	NA	< 0.074	< 0.074	< 0.074	< 0.074	< 0.074	< 0.15	< 0.089	< 1.8	< 0.45	< 0.089	< 0.89	< 0.89	< 0.089	< 0.45	< 0.45
Bromodichloromethane	0.06	0.6	< 0.17	NA	< 0.17	NA	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.37	< 0.077	< 1.5	< 0.39	< 0.077	***1.1 BJ***	< 0.77	< 0.077	< 0.39	< 0.39
Bromoform	0.44	4.4	< 0.28	NA	< 0.28	NA	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.48	< 0.088	< 1.8	< 0.44	< 0.088	< 0.88	< 0.88	< 0.088	< 0.44	< 0.44
Bromomethane	1	10	< 0.31	NA	< 0.31	NA	< 0.31	< 0.31	< 0.31	< 0.31 *	< 0.31	< 0.80	< 0.59	< 12	< 3.0	< 0.59	< 5.9	< 5.9	< 0.59	< 3	< 3
Carbon disulfide	200	1000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.053	< 1.1	< 0.27	< 0.053	1.4 J	< 0.53	< 0.053	< 0.27	< 0.27
Carbon tetrachloride	0.5	5	< 0.26	NA	< 0.26	NA	< 0.26	< 0.26	< 0.26	< 0.26	< 0.26	< 0.38	< 0.038	< 0.76	< 0.19	< 0.038	< 0.38	< 0.38	< 0.038	< 0.19	< 0.19
Chloroform	0.6	6	< 0.2	NA	< 0.2	NA	< 0.2	< 0.2	< 0.20	< 0.20	< 0.20	< 0.37	< 0.062	***2.2 BJ***	< 0.31	< 0.062	***1.1 BJ***	***1.1 J***	< 0.062	< 0.31	< 0.31
Chloromethane	3	30	< 0.18	NA	< 0.18	NA	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.32	< 0.16	< 3.2	< 0.80	< 0.16	***3.2 BJ***	< 1.6	< 0.16	1.5 J	***4.3 J***
cis-1,2-Dichloroethene	7	70	< 0.12	NA	< 0.12	NA	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	< 0.41	< 0.11	< 2.2	< 0.55	< 0.11	< 1.1	< 1.1	< 0.11	< 0.55	< 0.55
Dichlorodifluoromethane	200	1000	< 0.2	NA	< 0.2	NA	< 0.2	< 0.2	< 0.20	< 0.20	< 0.20	< 0.54	0.27 J	< 2.2	< 0.55	< 0.11	< 1.1	< 1.1	< 0.11	< 0.55	< 0.55
Ethylbenzene	140	700	0.20 J	NA	< 0.13	NA	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.18	< 0.054	< 1.1	< 0.27	< 0.054	< 0.54	< 0.54	< 0.054	< 0.27	< 0.27
Isopropylbenzene	NE	NE	< 0.14	NA	< 0.14	NA	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.39	< 0.081	< 1.6	< 0.41	< 0.081	< 0.81	< 0.81	< 0.081	< 0.41	< 0.41
m,p-Xylene	400	2000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.057	< 1.1	< 0.29	< 0.057	< 0.57	< 0.57	< 0.057	< 0.29	< 0.29
Methyl tert-butyl ether	12	60	< 0.24	NA	< 0.24	NA	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.39	< 0.14	< 2.8	< 0.70	< 0.14	< 1.4	< 1.4	< 0.14	< 0.7	< 0.7
Methylene chloride	0.5	5	< 0.68	NA	< 0.68	NA	< 0.68	< 0.68	< 0.68	< 0.68	< 0.68	< 1.6	***0.57 J***	< 2.8	< 0.70	< 0.14	***1.8 BJ***	< 1.4	< 0.14	< 0.7	< 0.7
Naphthalene	10	100	< 0.16	NA	< 0.16	NA	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.34	< 0.088	< 1.8	< 0.44	< 0.088	< 0.88	< 0.88	< 0.088	< 0.44	< 0.44
n-Butylbenzene	NE	NE	< 0.13	NA	< 0.13	NA	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.39	< 0.14	< 2.8	< 0.70	< 0.14	< 1.4	< 1.4	< 0.14	< 0.7	< 0.7
n-Hexane	120	600	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.21	< 4.2	< 1.1	< 0.21	< 2.1	< 2.1	< 0.21	< 1.1	< 1.1
n-Propylbenzene	NE	NE	< 0.13	NA	< 0.13	NA	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.41	< 0.10	< 2.0	< 0.50	< 0.10	< 1.0	< 1.0	< 0.10	< 0.5	< 0.5
o-Xylene	400	2000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.058	< 1.2	< 0.29	< 0.058	< 0.58	< 0.58	< 0.058	< 0.29	< 0.29
p-Isopropyltoluene	NE	NE	< 0.17	NA	< 0.17	NA	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.36	< 0.085	< 1.7	< 0.43	< 0.085	< 0.85	< 0.85	< 0.085	< 0.43	< 0.43
sec-Butylbenzene	NE	NE	< 0.15	NA	< 0.15	NA	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.40	< 0.13	< 2.6	< 0.65	< 0.13	< 1.3	< 1.3	< 0.13	< 0.65	< 0.65
Styrene	10	100	< 0.1	NA	< 0.1	NA	< 0.1	< 0.1	< 0.10	< 0.10	< 0.10	< 0.39	< 0.065	< 1.3	< 0.33	< 0.065	< 0.65	< 0.65	< 0.065	0.45 J	< 0.33
tert-Butylbenzene	NE	NE	< 0.14	NA	< 0.14	NA	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.40	< 0.12	< 2.4	< 0.60	< 0.12	< 1.2	< 1.2	< 0.12	< 0.6	< 0.6
Tetrachloroethene	0.5	5	***100***	NA	***86***	NA	***170***	***160***	***190***	***190***	***220***	***84***	***170***	***130***	***160***	***160***	***140***	***140***	***140***	***130 B***	***130 B***
Toluene	160	800	0.60	NA	< 0.11	NA	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.15	< 0.053	< 1.1	< 0.27	< 0.053	1.6 BJ	< 0.53	< 0.053	< 0.27	< 0.27
trans-1,2-Dichloroethene	20	100	< 0.25	NA	< 0.25	NA	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.35	< 0.11	< 2.2	< 0.55	< 0.11	< 1.1	< 1.1	< 0.11	< 0.55	< 0.55
Trichloroethene	0.5	5	< 0.19	NA	***0.53***	NA	0.21 J	< 0.19	< 0.19	0.27 J	< 0.19	< 0.16	0.22 J	< 1.2	< 0.31	0.19 J	< 0.62	< 0.62	0.16 J	< 0.31	< 0.31
Vinyl chloride	0.02	0.2	< 0.1	NA	< 0.1	NA	< 0.1	< 0.1	< 0.10	< 0.10	< 0.10	< 0.20	< 0.16	< 3.2	< 0.80	< 0.16	< 1.6	< 1.6	< 0.16	< 0.8	< 0.8
Xylenes, Total	400	2000	0.68 J	NA	< 0.068	NA	< 0.068	< 0.068	< 0.068	< 0.068	< 0.068	< 0.22	< 0.058	< 1.2	< 0.29	< 0.058	< 1.2	< 1.2	< 0.12	< 0.58	< 0.58
Total PCBs																					
Aroclor-1016	0.003	0.03	< 0.16	< 0.034	NA	< 0.065	< 0.067	< 0.064	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.035	< 0.035
Aroclor-1232	0.003	0.03	< 0.089	< 0.1	NA	< 0.19	< 0.2	< 0.19	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.037	< 0.037
Aroclor-1242	0.003	0.03	***0.24 J***	< 0.1	NA	< 0.19	< 0.2	< 0.19	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.038	< 0.038
Aroclor-1248	0.003	0.03	< 0.11	< 0.1	NA	< 0.19	< 0.2	< 0.19	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.02	< 0.02
Total Detected PCBs	0.003	0.03	***0.24 J***	ND	NA	ND	ND	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	ND	ND
Dissolved PCBs																					
Aroclor-1016	0.003	0.03	NA	< 0.034	NA	< 0.066	< 0.068	< 0.065	NA	< 0.063	< 0.063	< 0.065	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1232	0.003	0.03	NA	< 0.1	NA	< 0.2	< 0.2	< 0.19	NA	< 0.19	< 0.19	< 0.19	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1242	0.003	0.03	NA	< 0.1	NA	< 0.2	< 0.2	< 0.19	NA	< 0.19	< 0.19	< 0.19	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1248	0.003	0.03	NA	< 0.1	NA	< 0.2	< 0.2	< 0.19	NA	< 0.19	< 0.19	< 0.19	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Detected PCBs	0.003	0.03	NA	ND	NA	ND	ND	ND	NA	ND	ND	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA
Solids																					
Total Dissolved Solids	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	524	534
Total Suspended Solids (TSS)	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.95	< 0.95

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Table 18
Groundwater Analytical Results Summary
Madison-Kipp Corporation
Madison, Wisconsin

WELL ID			MW-24	MW-24	MW-24	MW-24	MW-24	MW-24	MW-25D	MW-25D[3]	MW-25D	MW-25D	MW-25D	MW-25D	MW-25D	MW-25D	MW-25D	MW-25D	MW-25D	MW-25D
SCREEN INTERVAL (feet bgs)	PREVENTIVE	ENFORCEMENT	30 - 40 ft	30 - 40 ft	30 - 40 ft	30 - 40 ft	30 - 40 ft	30 - 40 ft	120 - 130 ft	120 - 130 ft	120 - 130 ft	120 - 130 ft	120 - 130 ft	120 - 130 ft	120 - 130 ft	120 - 130 ft	120 - 130 ft	120 - 130 ft	120 - 130 ft	120 - 130 ft
SAMPLE DATE	ACTION LIMIT	STANDARD	04/29/2013	07/19/2013	10/08/2013	04/17/2014	10/14/2014	10/09/2017	05/06/2013	05/06/2013	07/19/2013	10/09/2013	04/21/2014	07/09/2014	08/26/2014	10/20/2014	01/28/2015	04/10/2015	07/21/2015	10/19/2015	10/11/2016	10/03/2017
VOCs																				
1,1,1,2-Tetrachloroethane	7	70	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	NA	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.46	< 0.11	< 0.11
1,1,1-Trichloroethane	40	200	< 0.2	< 0.2	< 0.2	< 0.20	< 0.20	NA	< 0.2	< 0.2	< 0.2	< 0.2	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.38	< 0.10	< 0.1
1,1,2-Trichloroethane	0.5	5	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	NA	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.35	< 0.10	< 0.1
1,1-Dichloroethene	0.7	7	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	NA	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.39	< 0.14	< 0.14
1,2,4-Trimethylbenzene	96	480	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	NA	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.36	< 0.060	< 0.06
1,2-Dibromoethane	0.005	0.05	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36	NA	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36	< 0.39	< 0.13	< 0.13
1,2-Dichlorobenzene	60	600	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	NA	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.33	< 0.076	< 0.076
1,2-Dichloropropane	0.5	5	< 0.2	< 0.2	< 0.2	< 0.20	< 0.20	NA	< 0.2	< 0.2	< 0.2	< 0.2	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.43	< 0.10	< 0.1
1,2,3-Trichlorobenzene	NE	NE	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	NA	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.46	< 0.045	< 0.045
1,2,4-Trichlorobenzene	14	70	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	NA	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.34	< 0.077	< 0.077
1,3,5-Trimethylbenzene	96	480	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	NA	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.25	< 0.075	< 0.075
2-Butanone	800	4000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 3.0	< 3
2-Hexanone	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.95	< 0.95
4-Methyl-2-pentanone	50	500	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.77	< 0.77
Acetone	1800	9000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 3.4	< 3.4
Benzene	0.5	5	< 0.074	< 0.074	< 0.074	< 0.074	< 0.074	NA	< 0.074	< 0.074	< 0.074	< 0.074	< 0.074	< 0.074	< 0.074	< 0.074	< 0.074	< 0.074	< 0.15	< 0.089	< 0.089
Bromodichloromethane	0.06	0.6	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	NA	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.37	< 0.077	< 0.077
Bromoform	0.44	4.4	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	NA	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.48	< 0.088	< 0.088
Bromomethane	1	10	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31 *	NA	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.80	< 0.59	< 0.59
Carbon disulfide	200	1000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.053	< 0.053
Carbon tetrachloride	0.5	5	< 0.26	< 0.26	< 0.26	< 0.26	< 0.26	NA	< 0.26	< 0.26	< 0.26	< 0.26	< 0.26	< 0.26	< 0.26	< 0.26	< 0.26	< 0.26	< 0.38	< 0.038	< 0.038
Chloroform	0.6	6	< 0.2	< 0.2	< 0.2	< 0.20	< 0.20	NA	< 0.2	< 0.2	< 0.2	< 0.2	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.37	< 0.062	0.08 J
Chloromethane	3	30	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	NA	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.32	0.37 BJ	0.82 J+
cis-1,2-Dichloroethene	7	70	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	NA	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	< 0.41	< 0.11	< 0.11
Dichlorodifluoromethane	200	1000	< 0.2	< 0.2	< 0.2	< 0.20	< 0.20	NA	< 0.2	< 0.2	< 0.2	< 0.2	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.54	< 0.11	< 0.11
Ethylbenzene	140	700	< 0.13	0.31 J	< 0.13	< 0.13	< 0.13	NA	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	0.35 J	< 0.13	< 0.13	< 0.13	< 0.13	< 0.18	< 0.054	< 0.054
Isopropylbenzene	NE	NE	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	NA	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.39	< 0.081	< 0.081
m,p-Xylene	400	2000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.057	0.06 BJ
Methyl tert-butyl ether	12	60	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	NA	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.39	< 0.14	< 0.14
Methylene chloride	0.5	5	< 0.68	< 0.68	< 0.68	< 0.68	< 0.68	NA	< 0.68	< 0.68	< 0.68	***5.3***	< 0.68	< 0.68	< 0.68	< 0.68	< 0.68	< 0.68	< 1.6	0.23 J	***0.51 J***
Naphthalene	10	100	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	NA	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16 *	< 0.16	< 0.16	< 0.34	< 0.088	< 0.088
n-Butylbenzene	NE	NE	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	NA	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.39	< 0.14	< 0.14
n-Hexane	120	600	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.21	< 0.21
n-Propylbenzene	NE	NE	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	NA	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.41	< 0.10	< 0.1
o-Xylene	400	2000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.058	< 0.058
p-Isopropyltoluene	NE	NE	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	NA	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.36	< 0.085	< 0.085
sec-Butylbenzene	NE	NE	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	NA	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.40	< 0.13	< 0.13
Styrene	10	100	< 0.1	< 0.1	< 0.1	< 0.10	< 0.10	NA	< 0.1	< 0.1	< 0.1	< 0.1	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.39	< 0.065	0.07 BJ
tert-Butylbenzene	NE	NE	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	NA	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.40	< 0.12	< 0.12
Tetrachloroethene	0.5	5	***3***	***3***	***3.3***	***2.8***	***0.83 J***	NA	***0.76 J***	< 0.17	***2.8***	***3.1***	***1.3***	***1.2***	***1.1***	***0.54 J***	***0.86 J***	< 0.17	***0.66 J***	***0.51 J***	***0.55***	0.37 J-
Toluene	160	800	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	NA	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	0.49 J	0.73	< 0.11	< 0.11	< 0.11	< 0.11	0.55	0.090 J	0.07 BJ
trans-1,2-Dichloroethene	20	100	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	NA	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.35	< 0.11	< 0.11
Trichloroethene	0.5	5	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	NA	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.16	< 0.062	< 0.062
Vinyl chloride	0.02	0.2	< 0.1	< 0.1	< 0.1	< 0.10	< 0.10	NA	< 0.1	< 0.1	< 0.1	< 0.1	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.20	< 0.16	< 0.16
Xylenes, Total	400	2000	< 0.068	0.37 J	< 0.068	< 0.068	< 0.068	NA	< 0.068	< 0.068	0.36 J	< 0.068	< 0.068	1.6	< 0.068	< 0.068	< 0.068	< 0.068	< 0.068	1.9	< 0.058	< 0.12
Total PCBs																						
Aroclor-1016	0.003	0.03	NA	NA	NA	NA	NA	< 0.035	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1232	0.003	0.03	NA	NA	NA	NA	NA	< 0.037	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1242	0.003	0.03	NA	NA	NA	NA	NA	< 0.038	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1248	0.003	0.03	NA	NA	NA	NA	NA	< 0.02	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Detected PCBs	0.003	0.03	NA	NA	NA	NA	NA	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dissolved PCBs																						
Aroclor-1016	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1232	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1242	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1248	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Detected PCBs	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Solids																						
Total Dissolved Solids	NE	NE	NA	NA	NA	NA	NA	2060	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Suspended Solids (TSS)	NE	NE	NA	NA	NA	NA	NA	1 J	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

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Table 18
Groundwater Analytical Results Summary
Madison-Kipp Corporation
Madison, Wisconsin

WELL ID			MW-25D2	MW-25D2	MW-25D2	MW-25D2	MW-25D2	MW-25D2	MW-25D2	MW-25D2	MW-25D2	MW-25D2	MW-25D2	MW-25D2	MW-25D2	MW-25D2	MW-25D2	MW-25D2	MW-25D2
SCREEN INTERVAL (feet bgs)	PREVENTIVE	ENFORCEMENT	160 - 170 ft	160 - 170 ft	160 - 170 ft	160 - 170 ft	160 - 170 ft	160 - 170 ft	160 - 170 ft	160 - 170 ft	160 - 170 ft	160 - 170 ft	160 - 170 ft	160 - 170 ft	160 - 170 ft	160 - 170 ft	160 - 170 ft	160 - 170 ft	160 - 170 ft
SAMPLE DATE	ACTION LIMIT	STANDARD	05/06/2013	07/19/2013	10/04/2013	04/21/2014	07/10/2014	08/26/2014	10/22/2014	01/28/2015	04/10/2015	07/21/2015	10/19/2015	01/21/2016	04/20/2016	07/19/2016	10/11/2016	1/19/2017	04/12/2017	10/03/2017
VOCs																				
1,1,1,2-Tetrachloroethane	7	70	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.46	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11
1,1,1-Trichloroethane	40	200	< 0.2	< 0.2	< 0.2	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.38	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.1
1,1,2-Trichloroethane	0.5	5	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.35	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.1
1,1-Dichloroethene	0.7	7	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.39	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14
1,2,4-Trimethylbenzene	96	480	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.36	< 0.060	< 0.060	< 0.060	< 0.060	< 0.060	< 0.060	< 0.06
1,2-Dibromoethane	0.005	0.05	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36	< 0.39	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13
1,2-Dichlorobenzene	60	600	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.33	< 0.076	< 0.076	< 0.076	< 0.076	< 0.076	< 0.076	< 0.076
1,2-Dichloropropane	0.5	5	< 0.2	< 0.2	< 0.2	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.43	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.1
1,2,3-Trichlorobenzene	NE	NE	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.46	< 0.045	< 0.045	< 0.045	< 0.045	< 0.045	< 0.045	< 0.045
1,2,4-Trichlorobenzene	14	70	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.34	< 0.077	< 0.077	< 0.077	< 0.077	< 0.077	< 0.077	< 0.077
1,3,5-Trimethylbenzene	96	480	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.25	< 0.075	< 0.075	< 0.075	< 0.075	< 0.075	< 0.075	< 0.075
2-Butanone	800	4000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 3.0	< 3.0	< 3.0	< 3.0	< 3.0	< 3.0	< 3
2-Hexanone	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.95	< 0.95	< 0.95	< 0.95	< 0.95	< 0.95	< 0.95
4-Methyl-2-pentanone	50	500	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.77	< 0.77	< 0.77	< 0.77	< 0.77	< 0.77	< 0.77
Acetone	1800	9000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 3.4	< 3.4	< 3.4	< 3.4	< 3.4	< 3.4	< 3.4
Benzene	0.5	5	< 0.074	< 0.074	< 0.074	< 0.074	< 0.074	< 0.074	< 0.074	< 0.074	< 0.074	< 0.074	< 0.15	< 0.089	< 0.089	< 0.089	< 0.089	< 0.089	< 0.089	< 0.089
Bromodichloromethane	0.06	0.6	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.37	< 0.077	< 0.077	< 0.077	< 0.077	< 0.077	< 0.077	< 0.077
Bromoform	0.44	4.4	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.48	< 0.088	< 0.088	< 0.088	< 0.088	< 0.088	< 0.088	< 0.088
Bromomethane	1	10	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.80	< 0.59	< 0.59	< 0.59	< 0.59	< 0.59	< 0.59	< 0.59
Carbon disulfide	200	1000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.053	< 0.053	< 0.053	< 0.053	< 0.053	0.44 J	< 0.053
Carbon tetrachloride	0.5	5	< 0.26	< 0.26	< 0.26	< 0.26	< 0.26	< 0.26	< 0.26	< 0.26	< 0.26	< 0.26	< 0.38	< 0.038	< 0.038	< 0.038	< 0.038	< 0.038	< 0.038	< 0.038
Chloroform	0.6	6	< 0.2	< 0.2	< 0.2	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.37	< 0.062	< 0.062	< 0.062	< 0.062	< 0.062	0.12 J	< 0.062
Chloromethane	3	30	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.32	< 0.16	< 0.16	0.17 J	0.68 BJ	< 0.16	0.64 J	0.37 J+
cis-1,2-Dichloroethene	7	70	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	< 0.41	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11
Dichlorodifluoromethane	200	1000	< 0.2	< 0.2	< 0.2	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.54	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11
Ethylbenzene	140	700	< 0.13	< 0.13	< 0.13	< 0.13	0.47 J	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.18	< 0.054	< 0.054	< 0.054	< 0.054	< 0.054	< 0.054	< 0.054
Isopropylbenzene	NE	NE	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.39	< 0.081	< 0.081	< 0.081	< 0.081	< 0.081	< 0.081	< 0.081
m,p-Xylene	400	2000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.057	< 0.057	< 0.057	< 0.057	< 0.057	< 0.057	< 0.057
Methyl tert-butyl ether	12	60	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.39	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14
Methylene chloride	0.5	5	< 0.68	< 0.68	< 0.68	< 0.68	< 0.68	< 0.68	< 0.68	< 0.68	< 0.68	< 0.68	< 1.6	0.38 J	< 0.14	< 0.14	< 0.14	0.14 BJ	< 0.14	< 0.14
Naphthalene	10	100	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.34	< 0.088	< 0.088	< 0.088	< 0.088	< 0.088	0.31 BJ	< 0.088
n-Butylbenzene	NE	NE	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.39	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14
n-Hexane	120	600	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21
n-Propylbenzene	NE	NE	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.41	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.1
o-Xylene	400	2000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.058	< 0.058	< 0.058	< 0.058	< 0.058	< 0.058	< 0.058
p-Isopropyltoluene	NE	NE	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.36	< 0.085	< 0.085	< 0.085	< 0.085	< 0.085	< 0.085	< 0.085
sec-Butylbenzene	NE	NE	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.40	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13
Styrene	10	100	< 0.1	< 0.1	< 0.1	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.39	< 0.065	< 0.065	0.14 J	< 0.065	< 0.065	< 0.065	0.08 BJ
tert-Butylbenzene	NE	NE	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.40	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12
Tetrachloroethene	0.5	5	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.37	< 0.081	< 0.081	< 0.081	< 0.081	0.090 BJ	< 0.081	0.1 J-
Toluene	160	800	< 0.11	< 0.11	< 0.11	< 0.11	0.63	1.2	< 0.11	< 0.11	< 0.11	< 0.11	< 0.15	< 0.053	< 0.053	< 0.053	0.11 J	< 0.053	0.16 J	0.07 BJ
trans-1,2-Dichloroethene	20	100	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.35	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11
Trichloroethene	0.5	5	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	< 0.16	< 0.062	< 0.062	< 0.062	< 0.062	< 0.062	< 0.062	< 0.062
Vinyl chloride	0.02	0.2	< 0.1	< 0.1	< 0.1	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.20	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16
Xylenes, Total	400	2000	< 0.068	< 0.068	< 0.068	< 0.068	2.5	< 0.068	< 0.068	< 0.068	< 0.068	< 0.068	< 0.22	< 0.058	< 0.058	< 0.058	< 0.058	< 0.12	< 0.12	< 0.12
Total PCBs																				
Aroclor-1016	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1232	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1242	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1248	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Detected PCBs	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dissolved PCBs																				
Aroclor-1016	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1232	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1242	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1248	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Detected PCBs	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Solids																				
Total Dissolved Solids	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Suspended Solids (TSS)	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Notes on Page 55.

Table 18
Groundwater Analytical Results Summary
Madison-Kipp Corporation
Madison, Wisconsin

WELL ID			MW-26S	MW-26S	MW-26S	MW-26S	MW-26S	MW-27D	MW-27D[3]	MW-27D	MW-27D	MW-27D	MW-27D	MW-27D	MW-27D	MW-27D	MW-27D	MW-27D	MW-27D	MW-27D[3]	MW-27D	MW-27D
SCREEN INTERVAL (feet bgs)	PREVENTIVE	ENFORCEMENT	6.8 - 16.8 ft	6.8 - 16.8 ft	6.8 - 16.8 ft	6.8 - 16.8 ft	6.8 - 16.8 ft	130 - 140 ft	130 - 140 ft	130 - 140 ft	130 - 140 ft	130 - 140 ft	130 - 140 ft	130 - 140 ft	130 - 140 ft	130 - 140 ft	130 - 140 ft	130 - 140 ft	130 - 140 ft	130 - 140 ft	130 - 140 ft	130 - 140 ft
SAMPLE DATE	ACTION LIMIT	STANDARD	08/23/2013	10/09/2013	04/22/2014	07/10/2014	10/15/2014	12/26/2013	12/26/2013	04/18/2014	07/09/2014	10/21/2014	01/29/2015	04/14/2015	07/21/2015	10/20/2015	01/21/2016	04/20/2016	07/19/2016	10/11/2016	1/19/2017	1/19/2017	04/11/2017	10/04/2017
VOCs																							
1,1,1,2-Tetrachloroethane	7	70	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.46	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11
1,1,1-Trichloroethane	40	200	< 0.2	< 0.2	< 0.20	< 0.20	< 0.20	< 0.2	< 0.2	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.38	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.1
1,1,2-Trichloroethane	0.5	5	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.35	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.1
1,1-Dichloroethene	0.7	7	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.39	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14
1,2,4-Trimethylbenzene	96	480	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.36	< 0.060	< 0.060	< 0.060	< 0.060	< 0.060	< 0.060	< 0.060	< 0.06
1,2-Dibromoethane	0.005	0.05	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36	< 0.39	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13
1,2-Dichlorobenzene	60	600	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.33	< 0.076	< 0.076	< 0.076	< 0.076	< 0.076	< 0.076	< 0.076	< 0.076
1,2-Dichloropropane	0.5	5	< 0.2	< 0.2	< 0.20	< 0.20	< 0.20	< 0.2	< 0.2	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.43	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.1
1,2,3-Trichlorobenzene	NE	NE	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.46	< 0.045	< 0.045	< 0.045	< 0.045	< 0.045	< 0.045	< 0.045	< 0.045
1,2,4-Trichlorobenzene	14	70	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.34	< 0.077	< 0.077	< 0.077	< 0.077	< 0.077	< 0.077	< 0.077	< 0.077
1,3,5-Trimethylbenzene	96	480	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.25	< 0.075	< 0.075	< 0.075	< 0.075	< 0.075	< 0.075	< 0.075	< 0.075
2-Butanone	800	4000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 3.0	< 3.0	< 3.0	< 3.0	< 3.0	< 3.0	< 3.0	< 3
2-Hexanone	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.95	< 0.95	< 0.95	< 0.95	< 0.95	< 0.95	< 0.95	< 0.95
4-Methyl-2-pentanone	50	500	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.77	< 0.77	< 0.77	< 0.77	< 0.77	< 0.77	< 0.77	< 0.77
Acetone	1800	9000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	7.1 J	< 3.4	< 3.4	< 3.4	< 3.4	< 3.4	< 3.4	3.7 BJ
Benzene	0.5	5	< 0.074	< 0.074	< 0.074	< 0.074	< 0.074	< 0.074	< 0.074	< 0.074	< 0.074	< 0.074	< 0.074	< 0.074	< 0.074	< 0.15	< 0.089	< 0.089	< 0.089	< 0.089	< 0.089	< 0.089	< 0.089	< 0.089
Bromodichloromethane	0.06	0.6	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.37	< 0.077	< 0.077	< 0.077	< 0.077	< 0.077	< 0.077	< 0.077	< 0.077
Bromoform	0.44	4.4	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.48	< 0.088	< 0.088	< 0.088	< 0.088	< 0.088	< 0.088	< 0.088	< 0.088
Bromomethane	1	10	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31 *	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.80	< 0.59	< 0.59	< 0.59	< 0.59	< 0.59	< 0.59	< 0.59	< 0.59
Carbon disulfide	200	1000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.053	< 0.053	< 0.053	< 0.053	< 0.053	< 0.053	< 0.053	< 0.053
Carbon tetrachloride	0.5	5	< 0.26	< 0.26	< 0.26	< 0.26	< 0.26	< 0.26	< 0.26	< 0.26	< 0.26	< 0.26	< 0.26	< 0.26	< 0.26	< 0.38	< 0.038	< 0.038	< 0.038	< 0.038	< 0.038	< 0.038	< 0.038	< 0.038
Chloroform	0.6	6	< 0.2	< 0.2	< 0.20	< 0.20	< 0.20	< 0.2	< 0.2	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.37	< 0.062	< 0.062	< 0.062	< 0.062	< 0.062	< 0.062	< 0.062	< 0.062
Chloromethane	3	30	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.32	< 0.16	< 0.16	< 0.16	0.53 BJ	< 0.16	< 0.16	< 0.16	0.4 J+
cis-1,2-Dichloroethene	7	70	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	0.85 J	0.83 J	2.6	2.5	1.1	2.4	2.2	2.4	5.5	1.9	1.7	1.5	0.54	0.99 B	1.1 B	1.2	0.89
Dichlorodifluoromethane	200	1000	< 0.2	< 0.2	< 0.20	< 0.20	< 0.20	< 0.2	< 0.2	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.54	< 0.11	< 0.11	0.12 J	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11
Ethylbenzene	140	700	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	0.55	< 0.13	< 0.13	< 0.13	< 0.13	< 0.18	< 0.054	< 0.054	< 0.054	< 0.054	< 0.054	< 0.054	< 0.054	< 0.054
Isopropylbenzene	NE	NE	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.39	< 0.081	< 0.081	< 0.081	< 0.081	< 0.081	< 0.081	< 0.081	< 0.081
m,p-Xylene	400	2000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.057	< 0.057	< 0.057	< 0.057	< 0.057	< 0.057	< 0.057	0.06 BJ
Methyl tert-butyl ether	12	60	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	1.3	< 0.24	< 0.24	0.92 J	< 0.24	0.86 J	< 0.39	0.68	0.68	0.62	< 0.14	0.42 J	0.38 J+	0.51	0.39 J
Methylene chloride	0.5	5	< 0.68	< 0.68	< 0.68	< 0.68	< 0.68	< 0.68	< 0.68	< 0.68	< 0.68	< 0.68	< 0.68	< 0.68	< 0.68	< 1.6	0.41 J	< 0.14	< 0.14	< 0.14	0.16 BJ	< 0.14	< 0.14	< 0.14
Naphthalene	10	100	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.34	< 0.088	< 0.088	< 0.088	< 0.088	< 0.088	< 0.088	< 0.088	< 0.088
n-Butylbenzene	NE	NE	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.39	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14
n-Hexane	120	600	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21	< 0.21
n-Propylbenzene	NE	NE	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.41	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.1
o-Xylene	400	2000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.058	< 0.058	< 0.058	< 0.058	< 0.058	< 0.058	< 0.058	< 0.058
p-Isopropyltoluene	NE	NE	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.36	< 0.085	< 0.085	< 0.085	< 0.085	< 0.085	< 0.085	< 0.085	< 0.085
sec-Butylbenzene	NE	NE	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.40	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13
Styrene	10	100	< 0.1	< 0.1	< 0.10	< 0.10	< 0.10	< 0.1	< 0.1	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.39	< 0.065	< 0.065	0.36 J	< 0.065	< 0.065	< 0.065	< 0.065 J	0.07 BJ
tert-Butylbenzene	NE	NE	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.40	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12
Tetrachloroethene	0.5	5	***1.4***	< 0.17	< 0.17	< 0.17	< 0.17	***1.8***	***1.8***	***5.4***	***5***	***1.7***	***4.2***	***3.8***	***5***	***13***	***4.5***	***3.4***	***2.1***	***1.1***	***1.9 B***	***2.3 B***	***2.1 B***	***1.9***
Toluene	160	800	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	0.53	0.49 J	< 0.11	0.47 J	< 0.11	< 0.11	< 0.11	< 0.11	< 0.15	< 0.053	< 0.053	< 0.053	< 0.053	0.060 BJ	0.11 BJ	< 0.053	0.09 BJ
trans-1,2-Dichloroethene	20	100	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.35	0.17 J	0.16 J	0.17 J	< 0.11	< 0.11	< 0.11	0.13 J	0.13 J
Trichloroethene	0.5	5	< 0.19	< 0.19	< 0.19	< 0.19	< 0.19	***1.3***	***1.2***	***3.5***	***3.5***	***1.7***	***3.2***	***2.9***	***3.4***	***12***	***2.8***	***2.6***	***2.1***	***1.3***	***1.7 B***	***2.1***	***2.1***	***1.6***
Vinyl chloride	0.02	0.2	< 0.1	< 0.1	< 0.10	< 0.10	< 0.10	< 0.1	< 0.1	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.20	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16
Xylenes, Total	400	2000	< 0.068	< 0.068	< 0.068	< 0.068	< 0.068	< 0.068	< 0.068	< 0.068	3.0	< 0.068	< 0.068	< 0.068	< 0.068	< 0.22	< 0.058	< 0.058	< 0.058	< 0.058	< 0.12	< 0.12	< 0.12	< 0.12
Total PCBs																								
Aroclor-1016	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1232	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1242	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1248	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Detected PCBs	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dissolved PCBs																								
Aroclor-1016	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1232	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1242	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Aroclor-1248	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Detected PCBs	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Solids																								
Total Dissolved Solids	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Suspended Solids (TSS)	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

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Table 18
Groundwater Analytical Results Summary
Madison-Kipp Corporation
Madison, Wisconsin

WELL ID			MW-27D2	MW-27D2	MW-27D2	MW-27D2[3]	MW-27D2	MW-27D2	MW-27D2[3]	MW-27D2	MW-27D2	MW-27D2[3]	MW-27D2	MW-27D2	MW-27D2[3]	MW-27D2	MW-28	MW-28	MW-28	MW-28
SCREEN INTERVAL (feet bgs)	PREVENTIVE	ENFORCEMENT	170 - 180 ft	170 - 180 ft	170 - 180 ft	170 - 180 ft	170 - 180 ft	170 - 180 ft	170 - 180 ft	170 - 180 ft	170 - 180 ft	170 - 180 ft	170 - 180 ft	170 - 180 ft	170 - 180 ft	170 - 180 ft	27.7 - 37.7 ft	27.7 - 37.7 ft	27.7 - 37.7 ft	27.7 - 37.7 ft
SAMPLE DATE	ACTION LIMIT	STANDARD	12/26/2013	04/18/2014	07/09/2014	07/09/2014	10/21/2014	01/29/2015	01/29/2015	04/14/2015	07/21/2015	07/21/2015	10/20/2015	10/11/2016	10/11/2016	10/04/2017	03/13/2015	04/09/2015	10/20/2015	10/10/2017
VOCs																				
1,1,1,2-Tetrachloroethane	7	70	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.46	< 0.22	< 0.22	< 0.11	NA	NA	NA	NA
1,1,1-Trichloroethane	40	200	< 0.2	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.38	< 0.20	< 0.20	< 0.1	NA	NA	NA	NA
1,1,2-Trichloroethane	0.5	5	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.35	< 0.20	< 0.20	< 0.1	NA	NA	NA	NA
1,1-Dichloroethene	0.7	7	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.39	< 0.28	< 0.28	< 0.14	NA	NA	NA	NA
1,2,4-Trimethylbenzene	96	480	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.36	< 0.12	< 0.12	< 0.06	NA	NA	NA	NA
1,2-Dibromoethane	0.005	0.05	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36	< 0.36	< 0.39	< 0.26	< 0.26	< 0.13	NA	NA	NA	NA
1,2-Dichlorobenzene	60	600	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.27	< 0.33	< 0.15	< 0.15	< 0.076	NA	NA	NA	NA
1,2-Dichloropropane	0.5	5	< 0.2	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.43	< 0.20	< 0.20	< 0.1	NA	NA	NA	NA
1,2,3-Trichlorobenzene	NE	NE	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.46	< 0.090	< 0.090	< 0.045	NA	NA	NA	NA
1,2,4-Trichlorobenzene	14	70	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.34	< 0.15	< 0.15	< 0.077	NA	NA	NA	NA
1,3,5-Trimethylbenzene	96	480	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.25	< 0.15	< 0.15	< 0.075	NA	NA	NA	NA
2-Butanone	800	4000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 6.0	< 6.0	< 3	NA	NA	NA	NA
2-Hexanone	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 1.9	< 1.9	< 0.95	NA	NA	NA	NA
4-Methyl-2-pentanone	50	500	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 1.5	< 1.5	< 0.77	NA	NA	NA	NA
Acetone	1800	9000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 6.8	< 6.8	3.5 J	NA	NA	NA	NA
Benzene	0.5	5	< 0.074	< 0.074	< 0.074	< 0.074	< 0.074	< 0.074	< 0.074	< 0.074	< 0.074	< 0.074	< 0.15	< 0.18	< 0.18	< 0.089	NA	NA	NA	NA
Bromodichloromethane	0.06	0.6	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.37	< 0.15	< 0.15	< 0.077	NA	NA	NA	NA
Bromoform	0.44	4.4	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.28	< 0.48	< 0.18	< 0.18	< 0.088	NA	NA	NA	NA
Bromomethane	1	10	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.31	< 0.80	< 1.2	< 1.2	< 0.59	NA	NA	NA	NA
Carbon disulfide	200	1000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.11	< 0.11	< 0.053	NA	NA	NA	NA
Carbon tetrachloride	0.5	5	< 0.26	< 0.26	< 0.26	< 0.26	< 0.26	< 0.26	< 0.26	< 0.26	< 0.26	< 0.26	< 0.38	< 0.076	< 0.076	< 0.038	NA	NA	NA	NA
Chloroform	0.6	6	< 0.2	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.37	< 0.12	< 0.12	< 0.062	NA	NA	NA	NA
Chloromethane	3	30	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.18	< 0.32	0.90 BJ	1.0 J	0.46 J	NA	NA	NA	NA
cis-1,2-Dichloroethene	7	70	3.7	***12***	***11***	***11***	***12***	***11***	***11***	***8.2***	6.1	6.1	1.8	***21***	***23***	***9.4***	NA	NA	NA	NA
Dichlorodifluoromethane	200	1000	< 0.2	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.54	< 0.22	< 0.22	< 0.11	NA	NA	NA	NA
Ethylbenzene	140	700	< 0.13	< 0.13	0.33 J	0.36 J	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.18	< 0.11	< 0.11	< 0.054	NA	NA	NA	NA
Isopropylbenzene	NE	NE	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.39	< 0.16	< 0.16	< 0.081	NA	NA	NA	NA
m,p-Xylene	400	2000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.11	< 0.11	< 0.057	NA	NA	NA	NA
Methyl tert-butyl ether	12	60	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	< 0.24	0.83 J	< 0.28	< 0.28	< 0.14	NA	NA	NA	NA
Methylene chloride	0.5	5	< 0.68	< 0.68	< 0.68	< 0.68	< 0.68	< 0.68	< 0.68	< 0.68	< 0.68	< 0.68	< 1.6	< 0.28	< 0.28	< 0.14	NA	NA	NA	NA
Naphthalene	10	100	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.16	< 0.34	< 0.18	< 0.18	< 0.088	NA	NA	NA	NA
n-Butylbenzene	NE	NE	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.39	< 0.28	< 0.28	< 0.14	NA	NA	NA	NA
n-Hexane	120	600	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.42	< 0.42	< 0.21	NA	NA	NA	NA
n-Propylbenzene	NE	NE	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.13	< 0.41	< 0.20	< 0.20	< 0.1	NA	NA	NA	NA
o-Xylene	400	2000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.12	< 0.12	< 0.058	NA	NA	NA	NA
p-Isopropyltoluene	NE	NE	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.36	< 0.17	< 0.17	< 0.085	NA	NA	NA	NA
sec-Butylbenzene	NE	NE	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.15	< 0.40	< 0.26	< 0.26	< 0.13	NA	NA	NA	NA
Styrene	10	100	< 0.1	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.39	< 0.13	< 0.13	< 0.065	NA	NA	NA	NA
tert-Butylbenzene	NE	NE	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.14	< 0.40	< 0.24	< 0.24	< 0.12	NA	NA	NA	NA
Tetrachloroethene	0.5	5	***11***	***44***	***36***	***35***	***41***	***38***	***36***	***25***	***17***	***17***	***3.1***	***67***	***63***	***24***	NA	NA	NA	NA
Toluene	160	800	0.20 J	< 0.11	0.43 J	0.41 J	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.15	< 0.11	0.18 J	0.08 J	NA	NA	NA	NA
trans-1,2-Dichloroethene	20	100	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.35	0.64 J	0.66 J	0.33 J	NA	NA	NA	NA
Trichloroethene	0.5	5	***7.2***	***25***	***21***	***20***	***23***	***23***	***23***	***17***	***15***	***16***	***2.5***	***45***	***45***	***18***	NA	NA	NA	NA
Vinyl chloride	0.02	0.2	< 0.1	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.20	< 0.32	< 0.32	< 0.16	NA	NA	NA	NA
Xylenes, Total	400	2000	< 0.068	< 0.068	1.6	1.6	< 0.068	< 0.068	< 0.068	< 0.068	< 0.068	< 0.068	< 0.22	< 0.12	< 0.12	< 0.12	NA	NA	NA	NA
Total PCBs																				
Aroclor-1016	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.035
Aroclor-1232	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.037
Aroclor-1242	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.038
Aroclor-1248	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.02
Total Detected PCBs	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	ND
Dissolved PCBs																				
Aroclor-1016	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.068	< 0.064	< 0.062	NA
Aroclor-1232	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.20	< 0.19	< 0.19	NA
Aroclor-1242	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.20	< 0.19	< 0.19	NA
Aroclor-1248	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.20	< 0.19	< 0.19	NA
Total Detected PCBs	0.003	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	ND	ND	ND	NA
Solids																				
Total Dissolved Solids	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1530
Total Suspended Solids (TSS)	NE	NE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.95

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Table 18
Groundwater Analytical Results Summary
Madison-Kipp Corporation
Madison, Wisconsin

Footnotes:
1 - Indicates that the sample was quenched prior to analysis.
2 - Indicates that the sample was not quenched prior to analysis.
3 - Indicates the result of a field duplicate.

Updated By: Peggy Popp 11/2/2017
Checked By: K. Barber/A. Stehn 11/8/2017

General Notes:
All concentrations noted in this table are reported in micrograms per liter (µg/L) unless otherwise noted.
Analytes shown in the table are from VOC and PCB analyte lists. Only analytes that were detected in at least one sample are shown in the table. A complete list of constituents analyzed are included in the laboratory analytical reports.

100 = NR 140 Wis. Adm. Code Preventive Action Limit Exceedance
100 = NR 140 Wis. Adm. Code Enforcement Standard Exceedance
< = Constituent not detected above noted laboratory method detection limit.
* = Data is suspect and not used in evaluation. (Note from historical data through 2015, provided by Arcadis)
B = Compound was found in the blank and sample.
bgs = Below Ground Surface.
cn = Laboratory Contaminant.
E = Estimated concentration, exceeds instrumental calibration range.
ID = Identification.
J = Estimated concentration above the adjusted method detection limit and below the reporting limit.
J- = Results may be biased low because of non-compliant laboratory quality check.
J+ = Results may be biased high because of non-compliant laboratory quality check.
NA = Not Analyzed.
ND = Not Detected.
NE = Not Established.
PCBs = Polychlorinated biphenyls.
VOCs = Volatile Organic Compounds.

Table 19
Groundwater Monitoring Plan - 2018
Madison-Kipp Corporation
201 Waubesa Street
Madison, Wisconsin

WELL/ POINT ID	BEDROCK UNIT	SCREENED INTERVAL (ft bgs)	APRIL & OCTOBER GAUGING	APRIL VOC SAMPLING	OCTOBER VOC SAMPLING	APRIL/ OCTOBER PCB SAMPLING	PUMP TYPE
GWE-1*	Lone Rock/ Wonewoc	55-175	x	x	x		NA
MW-1	Unconsolidated	14-24	x		x		Peristaltic
MW-2S	Unconsolidated	19-29	x				NA
MW-2D	Upper Lone Rock	39-44	x	x	x		Peristaltic
MW-3S	Unconsolidated	19-29	x		x		Peristaltic
MW-3D	Upper Lone Rock	48-53	x	x	x		Peristaltic
MW-3D2	Lower Lone Rock	76-81	x	x	x		Peristaltic
MW-3D3	Lower Wonewoc/ Upper Eau Claire	214-224	x		x		GeoSub
MW-4S	Unconsolidated/ Upper Lone Rock	35-50	x			x	NA
MW-4D	Lower Lone Rock	65-70	x			x	NA
MW-4D2	Lower Lone Rock	91-96	x	x	x		Bladder
MW-5S	Upper Lone Rock	34-44	x		x		Peristaltic
MW-5D	Lower Lone Rock	75-80	x	x	x		Peristaltic
MW-5D2	Lower Wonewoc	166-171	x	x	x		Bladder
MW-5D3	Lower Wonewoc/ Upper Eau Claire	225-235	x	x	x		GeoSub
MW-6S	Unconsolidated/ Upper Lone Rock	32-42	x		x	x	Bladder
MW-6D	Lower Lone Rock	66-71	x	x	x		Bladder
MW-7	Unconsolidated	25-35	x				NA
MW-8	Unconsolidated	24-34	x				NA
MW-9D	Upper Lone Rock	44-49	x		x		Peristaltic
MW-9D2	Lower Lone Rock	64-69	x	x	x		Peristaltic
MW-10S	Unconsolidated	11-21	x				NA
MW-11S	Unconsolidated	24-34	x			x	NA
MW-12S	Unconsolidated	3-13	x				NA
MW-17	Upper Wonewoc	160-170	x	x	x		Bladder
MW-18S	Unconsolidated	20-30	x				NA
MW-21D2	Upper/Lower Wonewoc	110-170	x				NA
MW-22S	Unconsolidated	25-35	Well Abandoned on January 16, 2018				
MW-22D	Upper Lone Rock	45-50	Well Abandoned on January 16, 2018				
MW-23S	Unconsolidated	25-35	Well Abandoned on January 16, 2018				
MW-23D	Upper Lone Rock	45-50	Well Abandoned on January 16, 2018				
MW-24	Upper Lone Rock	30-40	x			x	NA
MW-25D	Upper Wonewoc	120-130	x		x		Bladder
MW-25D2	Upper Wonewoc	160-170	x	x	x		Bladder
MW-26S	Unconsolidated	6.8-16.8	x				NA
MW-27D	Lower Wonewoc	130-140	x	x	x		Bladder
MW-27D2	Lower Wonewoc	170-180	x		x		Bladder
MW-28	Unconsolidated	28-38	x		x	x	Peristaltic
MW-29S	Unconsolidated	24-34	x			x	Peristaltic
MW-29D	Upper Lone Rock	45-50	x			x	Bladder
MP-13 Port 1	Lower Wonewoc	163-167	x		x		Westbay
MP-13 Port 2	Lower Wonewoc	135-139	x		x		Westbay
MP-13 Port 3	Upper Wonewoc	121-125	x		x		Westbay
MP-13 Port 4	Upper Wonewoc	102-106	x		x		Westbay
MP-13 Port 5	Lower Lone Rock	81-85	x		x		Westbay
MP-13 Port 6	Lower Lone Rock	67-71	x		x		Westbay
MP-13 Port 7	Upper Lone Rock	44-48	x		x		Westbay

Table 19
Groundwater Monitoring Plan - 2018
Madison-Kipp Corporation
201 Waubesa Street
Madison, Wisconsin

WELL/ POINT ID	BEDROCK UNIT	SCREENED INTERVAL (ft bgs)	APRIL & OCTOBER GAUGING	APRIL VOC SAMPLING	OCTOBER VOC SAMPLING	APRIL/ OCTOBER PCB SAMPLING	PUMP TYPE
MP-14 Port 1	Lower Wonewoc	170-178	x		x		Westbay
MP-14 Port 2	Lower Wonewoc	135-140	x	x	x		Westbay
MP-14 Port 3	Upper Wonewoc	100-105	x		x		Westbay
MP-14 Port 4	Lower Lone Rock	70-75	x				NA
MP-15 Port 1	Lower Wonewoc	177-187	x		x		Westbay
MP-15 Port 2	Lower Wonewoc	142-146	x		x		Westbay
MP-15 Port 3	Lower Wonewoc	120-125	x		x		Westbay
MP-15 Port 4	Upper Wonewoc	100-105	x		x		Westbay
MP-15 Port 5	Upper Wonewoc	88-92	x		x		Westbay
MP-16 Port 1	Lower Wonewoc	175-179	x		x		Westbay
MP-16 Port 2	Lower Wonewoc	140-144	x	x	x		Westbay
MP-16 Port 3	Upper Wonewoc	106-116	x		x		Westbay
MP-16 Port 4	Lower Lone Rock	80-84	x				NA
		Total Sample Points:	**56**	**15**	**40**	**8**	

Notes:

* = The GWE-1 influent sample results from the month of the sampling event will be used.

Update By A. Stehn 12/11/17

Checked By: B. Wachholz 1/29/18

Table 20
Soil Gas Analytical Results Summary
Madison-Kipp Corporation
Madison, Wisconsin

SAMPLE LOCATION	DEEP SOIL GAS		VP-1N	VP-1N	VP-1N	VP-1N	VP-1N	VP-1N	VP-1N	VP-1N
SAMPLE DATE	NON-RES.[1,2]	RES.[1,2]	9/17/2009	10/26/2012	7/15/2013	1/29/2014	7/22/2014	7/22/2015	7/20/2016	7/25/2017
VOC										
cis-1,2-Dichloroethene	NE	NE	--	0.52	2.6	< 0.14	< 0.17	< 0.16	11	< 0.093
trans-1,2-Dichloroethene	NE	NE	--	< 0.36	< 0.26	< 0.14	< 0.17	< 0.16	< 0.13	< 0.18
1,2-Dichloroethene	NE	NE	< 20	0.52	2.6	< 0.14	< 0.17	NA	NA	NA
Tetrachloroethene	27,000	620	160	65	76	< 0.14	1.8	0.29	31	< 0.064
Trichloroethene	1,600	39	< 10	0.52	1.1	< 0.14	< 0.17	< 0.16	13	< 0.12
Vinyl chloride[3]	11,000	65	--	< 0.36	< 0.26	< 0.14	< 0.17	< 0.16	< 0.19	< 0.072

Footnotes:

Updated By: P. Popp 9/13/2017
Checked By: A. Stehn 9/14/2017

1 = VALs in accordance with *Addressing Vapor Intrusion at Remediation and Redevelopment Sites in Wisconsin* , http://dnr.wi.gov/files/PDF/pubs/rr/RR800.pdf

2 = Non-Res. Deep Soil Gas VAL used 0.001 AF; Res. Deep Soil Gas VAL used 0.01 AF

3 = Vinyl chloride was analyzed using the modified EPA Method TO-15 GC/MS SIM for the July 22, 2015 and July 24, 2015 monitoring event. For monitoring points where no detection was present, the concentration is noted less than the reporting limit.

Notes:

All concentrations presented in this table are reported in parts per billion by volume (ppbv) unless otherwise noted.

Res./Non-Res. VAL provided for comparison purposes.

VP-3 through VP-6 compared to Non-Res. Deep Soil Gas VAL due to probe location (large commercial/industrial building, >5 feet below nearest building foundation).

100	= exceeds Wisconsin Res. Deep Soil Gas VAL with 0.01 AF
100	= exceeds Wisconsin Non-Res. Deep Soil Gas VAL with 0.001 AF

<= constituent not detected above noted laboratory method detection limit

> = greater than

-- = not designated

*D = limit of detection not achievable due to dilution

*IS = the internal standard quality control limit is exceeded

AF = Attenuation Factor

NE = Criteria Not Established

NA= Not Analyzed

DUP = Duplicate sample collected

Res. = Residential

VAL = Vapor Action Level

VOCs = Volatile Organic Compounds

Table 20
Soil Gas Analytical Results Summary
Madison-Kipp Corporation
Madison, Wisconsin

SAMPLE LOCATION	DEEP SOIL GAS		VP-1S	VP-1S	VP-1S	VP-1S	VP-1S	VP-1S	VP-1S	VP-1S
SAMPLE DATE	NON-RES.[1,2]	RES.[1,2]	9/17/2009	10/26/2012	7/15/2013	1/29/2014	7/22/2014	7/22/2015	7/20/2016	07/25/2017
VOC										
cis-1,2-Dichloroethene	NE	NE	--	< 0.15	0.26	< 0.14	0.19	< 0.14	7.6	< 0.098
trans-1,2-Dichloroethene	NE	NE	--	< 0.15	< 0.16	< 0.14	< 0.16	< 0.14	< 0.14	< 0.19
1,2-Dichloroethene	NE	NE	341	< 0.15	0.26	< 0.14	0.19	NA	NA	NA
Tetrachloroethene	27,000	620	*1,400*	4.8	33	0.9	4.7	< 0.14	31	6.2
Trichloroethene	1,600	39	*260*	0.15	0.44	< 0.14	0.21	< 0.14	8.2	< 0.12
Vinyl chloride[3]	11,000	65	--	< 0.15	< 0.16	< 0.14	< 0.16	< 0.014	< 0.21	< 0.076

Footnotes:

Updated By: P. Popp 9/13/2017
Checked By: A. Stehn 9/14/2017

1 = VALs in accordance with *Addressing Vapor Intrusion at Remediation and Redevelopment Sites in Wisconsin* , http://dnr.wi.gov/files/PDF/pubs/rr/RR800.pdf

2 = Non-Res. Deep Soil Gas VAL used 0.001 AF; Res. Deep Soil Gas VAL used 0.01 AF

3 = Vinyl chloride was analyzed using the modified EPA Method TO-15 GC/MS SIM for the July 22, 2015 and July 24, 2015 monitoring event. For monitoring points where no detection was present, the concentration is noted less than the reporting limit.

Notes:

All concentrations presented in this table are reported in parts per billion by volume (ppbv) unless otherwise noted.

Res./Non-Res. VAL provided for comparison purposes.

VP-3 through VP-6 compared to Non-Res. Deep Soil Gas VAL due to probe location (large commercial/industrial building, >5 feet below nearest building foundation).

100 = exceeds Wisconsin Res. Deep Soil Gas VAL with 0.01 AF

100 = exceeds Wisconsin Non-Res. Deep Soil Gas VAL with 0.001 AF

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NE = Criteria Not Established

NA= Not Analyzed

DUP = Duplicate sample collected

Res. = Residential

VAL = Vapor Action Level

VOCs = Volatile Organic Compounds

Table 20
Soil Gas Analytical Results Summary
Madison-Kipp Corporation
Madison, Wisconsin

SAMPLE LOCATION	DEEP SOIL GAS		VP-2N	VP-2N	VP-2N	VP-2N	VP-2N	VP-2N	VP-2N	VP-2N
SAMPLE DATE	NON-RES.[1,2]	RES.[1,2]	9/17/2009	10/26/2012	7/15/2013	1/29/2014	7/22/2014	7/22/2015	7/20/2016	07/25/2017
VOC										
cis-1,2-Dichloroethene	NE	NE	NA	< 0.93	2.5	< 0.14	< 0.18	< 0.16	7.8	< 0.094
trans-1,2-Dichloroethene	NE	NE	NA	< 0.93	< 0.39	< 0.14	< 0.18	< 0.16	< 0.14	< 0.19
1,2-Dichloroethene	NE	NE	500	< 0.93	2.5	< 0.14	< 0.18	NA	NA	NA
Tetrachloroethene	27,000	620	*1,300*	160	110	< 0.14	1.5	< 0.16	20	< 0.065
Trichloroethene	1,600	39	*370*	< 0.93	1.4	< 0.14	< 0.18	< 0.16	8.2	< 0.12
Vinyl chloride[3]	11,000	65	NA	< 0.93	< 0.39	< 0.14	< 0.18	< 0.016	< 0.21	< 0.073

Footnotes:

Updated By: P. Popp 9/13/2017
Checked By: A. Stehn 9/14/2017

1 = VALs in accordance with *Addressing Vapor Intrusion at Remediation and Redevelopment Sites in Wisconsin* , http://dnr.wi.gov/files/PDF/pubs/rr/RR800.pdf

2 = Non-Res. Deep Soil Gas VAL used 0.001 AF; Res. Deep Soil Gas VAL used 0.01 AF

3 = Vinyl chloride was analyzed using the modified EPA Method TO-15 GC/MS SIM for the July 22, 2015 and July 24, 2015 monitoring event. For monitoring points where no detection was present, the concentration is noted less than the reporting limit.

Notes:

All concentrations presented in this table are reported in parts per billion by volume (ppbv) unless otherwise noted.

Res./Non-Res. VAL provided for comparison purposes.

VP-3 through VP-6 compared to Non-Res. Deep Soil Gas VAL due to probe location (large commercial/industrial building, >5 feet below nearest building foundation).

100 = exceeds Wisconsin Res. Deep Soil Gas VAL with 0.01 AF

100 = exceeds Wisconsin Non-Res. Deep Soil Gas VAL with 0.001 AF

<= constituent not detected above noted laboratory method detection limit

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*D = limit of detection not achievable due to dilution

*IS = the internal standard quality control limit is exceeded

AF = Attenuation Factor

NE = Criteria Not Established

NA= Not Analyzed

DUP = Duplicate sample collected

Res. = Residential

VAL = Vapor Action Level

VOCs = Volatile Organic Compounds

Table 20
Soil Gas Analytical Results Summary
Madison-Kipp Corporation
Madison, Wisconsin

SAMPLE LOCATION	DEEP SOIL GAS		VP-2S	VP-2S	VP-2S	VP-2S	VP-2S	VP-2S
SAMPLE DATE	NON-RES.[1,2]	RES.[1,2]	9/17/2009	10/26/2012	7/15/2013	1/29/2014	7/22/2014	7/22/2015
VOC								
cis-1,2-Dichloroethene	NE	NE	--	< 0.14	0.54	0.36	0.19	2.6
trans-1,2-Dichloroethene	NE	NE	--	< 0.14	< 0.31	< 0.14	< 0.15	0.32
1,2-Dichloroethene	NE	NE	332	< 0.14	0.54	NA	0.19	NA
Tetrachloroethene	27,000	620	1,100	12	86	44	2.0	44
Trichloroethene	1,600	39	240	< 0.14	0.38	0.22	< 0.15	1.4
Vinyl chloride[3]	11,000	65	--	< 0.14	< 0.31	< 0.14	< 0.15	< 0.017

Footnotes:

Updated By: P. Popp 9/13/2017
Checked By: A. Stehn 9/14/2017

1 = VALs in accordance with *Addressing Vapor Intrusion at Remediation and Redevelopment Sites in Wisconsin* , http://dnr.wi.gov/files/PDF/pubs/rr/RR800.pdf

2 = Non-Res. Deep Soil Gas VAL used 0.001 AF; Res. Deep Soil Gas VAL used 0.01 AF

3 = Vinyl chloride was analyzed using the modified EPA Method TO-15 GC/MS SIM for the July 22, 2015 and July 24, 2015 monitoring event. For monitoring points where no detection was present, the concentration is noted less than the reporting limit.

Notes:

All concentrations presented in this table are reported in parts per billion by volume (ppbv) unless otherwise noted.

Res./Non-Res. VAL provided for comparison purposes.

VP-3 through VP-6 compared to Non-Res. Deep Soil Gas VAL due to probe location (large commercial/industrial building, >5 feet below nearest building foundation).

100 = exceeds Wisconsin Res. Deep Soil Gas VAL with 0.01 AF

100 = exceeds Wisconsin Non-Res. Deep Soil Gas VAL with 0.001 AF

<= constituent not detected above noted laboratory method detection limit

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-- = not designated

*D = limit of detection not achievable due to dilution

*IS = the internal standard quality control limit is exceeded

AF = Attenuation Factor

NE = Criteria Not Established

NA= Not Analyzed

DUP = Duplicate sample collected

Res. = Residential

VAL = Vapor Action Level

VOCs = Volatile Organic Compounds

Table 20
Soil Gas Analytical Results Summary
Madison-Kipp Corporation
Madison, Wisconsin

SAMPLE LOCATION	DEEP SOIL GAS		VP-3	VP-3	VP-3 (DUP)	VP-3	VP-4	VP-4	VP-4	VP-4
SAMPLE DATE	NON-RES.[1,2]	RES.[1,2]	3/30/2012	10/26/2012	10/26/2012	7/22/2014	3/30/2012	10/26/2012	7/23/2014	7/24/2015
VOC										
cis-1,2-Dichloroethene	NE	NE	0.60	< 0.16	< 0.15	0.58	< 0.15	< 0.15	0.27	0.18 J
trans-1,2-Dichloroethene	NE	NE	< 0.17	< 0.16	< 0.15	< 0.17	< 0.15	< 0.15	< 0.16	< 0.18
1,2-Dichloroethene	NE	NE	0.6	< 0.16	< 0.15	0.58	< 0.15	< 0.15	0.27	NA
Tetrachloroethene	27,000	620	18	3.2	3.8	25	0.68	0.20	< 0.16	0.19
Trichloroethene	1,600	39	2.0	0.36	0.44	3.6	< 0.15	< 0.15	< 0.16	0.29
Vinyl chloride[3]	11,000	65	< 0.17	< 0.16	< 0.15	< 0.17	< 0.15	< 0.15	< 0.16	< 0.018

Footnotes:

Updated By: P. Popp 9/13/2017
Checked By: A. Stehn 9/14/2017

1 = VALs in accordance with *Addressing Vapor Intrusion at Remediation and Redevelopment Sites in Wisconsin* , http://dnr.wi.gov/files/PDF/pubs/rr/RR800.pdf

2 = Non-Res. Deep Soil Gas VAL used 0.001 AF; Res. Deep Soil Gas VAL used 0.01 AF

3 = Vinyl chloride was analyzed using the modified EPA Method TO-15 GC/MS SIM for the July 22, 2015 and July 24, 2015 monitoring event. For monitoring points where no detection was present, the concentration is noted less than the reporting limit.

Notes:

All concentrations presented in this table are reported in parts per billion by volume (ppbv) unless otherwise noted.

Res./Non-Res. VAL provided for comparison purposes.

VP-3 through VP-6 compared to Non-Res. Deep Soil Gas VAL due to probe location (large commercial/industrial building, >5 feet below nearest building foundation).

100	= exceeds Wisconsin Res. Deep Soil Gas VAL with 0.01 AF
100	= exceeds Wisconsin Non-Res. Deep Soil Gas VAL with 0.001 AF

<= constituent not detected above noted laboratory method detection limit

> = greater than

-- = not designated

*D = limit of detection not achievable due to dilution

*IS = the internal standard quality control limit is exceeded

AF = Attenuation Factor

NE = Criteria Not Established

NA= Not Analyzed

DUP = Duplicate sample collected

Res. = Residential

VAL = Vapor Action Level

VOCs = Volatile Organic Compounds

Table 20
Soil Gas Analytical Results Summary
Madison-Kipp Corporation
Madison, Wisconsin

SAMPLE LOCATION	DEEP SOIL GAS		VP-5	VP-5	VP-5	VP-6	VP-6	VP-6	VP-6	VP-6	VP-6	VP-6	VP-6
SAMPLE DATE	NON-RES.[1,2]	RES.[1,2]	3/30/2012	10/26/2012	7/22/2014	3/30/2012	10/26/2012	4/29/2013	1/29/2014	7/22/2014	7/22/2015	7/20/2016	07/25/2017
VOC													
cis-1,2-Dichloroethene	NE	NE	1.1	26	2.6	28	190	2100	310	1.0	780	< 0.23	< 0.20
trans-1,2-Dichloroethene	NE	NE	< 0.15	0.38	< 0.17	1.7	5.8	82	16	< 0.16	58	< 0.14	< 0.40
1,2-Dichloroethene	NE	NE	1.1	26.38	2.6	29.7	195.8	2182	326	1	NA	NA	NA
Tetrachloroethene	27,000	620	2.1	27	0.59	63	190	2,900	550	< 0.16	470	280	380
Trichloroethene	1,600	39	1.1	22	2.4	20	72	1,100	240	0.34	700	19	10
Vinyl chloride[3]	11,000	65	< 0.15	1.2	0.38	53	23	130	28	< 0.16	30	< 0.20	< 0.16

Footnotes:

1 = VALs in accordance with *Addressing Vapor Intrusion at Remediation and Redevelopment Sites in Wisconsin* , http://dnr.wi.gov/files/PDF/pubs/rr/RR800.pdf

2 = Non-Res. Deep Soil Gas VAL used 0.001 AF; Res. Deep Soil Gas VAL used 0.01 AF

3 = Vinyl chloride was analyzed using the modified EPA Method TO-15 GC/MS SIM for the July 22, 2015 and July 24, 2015 monitoring event. For monitoring points where no detection was present, the concentration is noted less than the reporting limit.

Updated By: P. Popp 9/13/2017
Checked By: A. Stehn 9/14/2017

Notes:

All concentrations presented in this table are reported in parts per billion by volume (ppbv) unless otherwise noted.

Res./Non-Res. VAL provided for comparison purposes.

VP-3 through VP-6 compared to Non-Res. Deep Soil Gas VAL due to probe location (large commercial/industrial building, >5 feet below nearest building foundation).

100 = exceeds Wisconsin Res. Deep Soil Gas VAL with 0.01 AF

100 = exceeds Wisconsin Non-Res. Deep Soil Gas VAL with 0.001 AF

<= constituent not detected above noted laboratory method detection limit

> = greater than

-- = not designated

*D = limit of detection not achievable due to dilution

*IS = the internal standard quality control limit is exceeded

AF = Attenuation Factor

NE = Criteria Not Established

NA= Not Analyzed

DUP = Duplicate sample collected

Res. = Residential

VAL = Vapor Action Level

VOCs = Volatile Organic Compounds

Table 20
Soil Gas Analytical Results Summary
Madison-Kipp Corporation
Madison, Wisconsin

SAMPLE LOCATION	DEEP SOIL GAS		VP-102	VP-102	VP-102	VP-102	VP-102	VP-102	VP-102	VP-102 DUP
SAMPLE DATE	NON-RES.[1,2]	RES.[1,2]	11/25/2011	10/24/2012	1/29/2014	7/23/2014	7/22/2015	7/20/2016	07/25/2017	07/25/2017
VOC										
cis-1,2-Dichloroethene	NE	NE	1,940 *IS	45	0.56	< 0.16	0.24	< 0.46	< 0.39	< 0.39
trans-1,2-Dichloroethene	NE	NE	< 400 *IS*D	< 3.4	< 0.14	< 0.16	< 0.17	< 0.28	< 0.77	< 0.76
1,2-Dichloroethene	NE	NE	1,940	45	0.56	< 0.16	NA	NA	NA	NA
Tetrachloroethene	27,000	620	*4,620 *IS*	*1,200*	2	0.17	< 0.17	400	*820*	*810*
Trichloroethene	1,600	39	*1,770 *IS*	*240*	1.2	< 0.16	0.17	*56*	*75*	*74*
Vinyl chloride[3]	11,000	65	< 400 *IS*D	< 3.4	< 0.14	< 0.16	< 0.017	< 0.42	< 0.30	< 0.30

Footnotes:

1 = VALs in accordance with *Addressing Vapor Intrusion at Remediation and Redevelopment Sites in Wisconsin* , http://dnr.wi.gov/files/PDF/pubs/rr/RR800.pdf

2 = Non-Res. Deep Soil Gas VAL used 0.001 AF; Res. Deep Soil Gas VAL used 0.01 AF

3 = Vinyl chloride was analyzed using the modified EPA Method TO-15 GC/MS SIM for the July 22, 2015 and July 24, 2015 monitoring event. For monitoring points where no detection was present, the concentration is noted less than the reporting limit.

Updated By: P. Popp 9/13/2017
Checked By: A. Stehn 9/14/2017

Notes:

All concentrations presented in this table are reported in parts per billion by volume (ppbv) unless otherwise noted.

Res./Non-Res. VAL provided for comparison purposes.

VP-3 through VP-6 compared to Non-Res. Deep Soil Gas VAL due to probe location (large commercial/industrial building, >5 feet below nearest building foundation).

100 = exceeds Wisconsin Res. Deep Soil Gas VAL with 0.01 AF

100 = exceeds Wisconsin Non-Res. Deep Soil Gas VAL with 0.001 AF

<= constituent not detected above noted laboratory method detection limit

> = greater than

-- = not designated

*D = limit of detection not achievable due to dilution

*IS = the internal standard quality control limit is exceeded

AF = Attenuation Factor

NE = Criteria Not Established

NA= Not Analyzed

DUP = Duplicate sample collected

Res. = Residential

VAL = Vapor Action Level

VOCs = Volatile Organic Compounds

Table 20
Soil Gas Analytical Results Summary
Madison-Kipp Corporation
Madison, Wisconsin

SAMPLE LOCATION	DEEP SOIL GAS		VP-114	VP-114	VP-114	VP-114	VP-114
SAMPLE DATE	NON-RES.[1,2]	RES.[1,2]	11/25/2011	10/24/2012	7/15/2013	1/29/2014	7/23/2014
VOC							
cis-1,2-Dichloroethene	NE	NE	< 400 *IS*D	< 0.16	< 0.15	< 0.14	< 0.16
trans-1,2-Dichloroethene	NE	NE	< 400 *IS*D	< 0.16	< 0.15	< 0.14	< 0.16
1,2-Dichloroethene	NE	NE	< 400	< 0.16	< 0.15	< 0.14	< 0.16
Tetrachloroethene	27,000	620	*2,540 *IS*	10	24	< 0.14	2.9
Trichloroethene	1,600	39	< 400 *IS*D	< 0.16	< 0.15	< 0.14	< 0.16
Vinyl chloride[3]	11,000	65	< 400 *IS*D	< 0.16	< 0.15	< 0.14	< 0.16

Footnotes:

Updated By: P. Popp 9/13/2017
Checked By: A. Stehn 9/14/2017

1 = VALs in accordance with *Addressing Vapor Intrusion at Remediation and Redevelopment Sites in Wisconsin* , http://dnr.wi.gov/files/PDF/pubs/rr/RR800.pdf

2 = Non-Res. Deep Soil Gas VAL used 0.001 AF; Res. Deep Soil Gas VAL used 0.01 AF

3 = Vinyl chloride was analyzed using the modified EPA Method TO-15 GC/MS SIM for the July 22, 2015 and July 24, 2015 monitoring event. For monitoring points where no detection was present, the concentration is noted less than the reporting limit.

Notes:

All concentrations presented in this table are reported in parts per billion by volume (ppbv) unless otherwise noted.

Res./Non-Res. VAL provided for comparison purposes.

VP-3 through VP-6 compared to Non-Res. Deep Soil Gas VAL due to probe location (large commercial/industrial building, >5 feet below nearest building foundation).

100 = exceeds Wisconsin Res. Deep Soil Gas VAL with 0.01 AF

100 = exceeds Wisconsin Non-Res. Deep Soil Gas VAL with 0.001 AF

<= constituent not detected above noted laboratory method detection limit

> = greater than

-- = not designated

*D = limit of detection not achievable due to dilution

*IS = the internal standard quality control limit is exceeded

AF = Attenuation Factor

NE = Criteria Not Established

NA= Not Analyzed

DUP = Duplicate sample collected

Res. = Residential

VAL = Vapor Action Level

VOCs = Volatile Organic Compounds

Table 20
Soil Gas Analytical Results Summary
Madison-Kipp Corporation
Madison, Wisconsin

SAMPLE LOCATION	DEEP SOIL GAS		VP-126	VP-126	VP-126	VP-126	VP-126	VP-126	VP-126	VP-126 (DUP)
SAMPLE DATE	NON-RES.[1,2]	RES.[1,2]	11/25/2011	10/24/2012	7/15/2013	1/29/2014	7/23/2014	7/24/2015	7/20/2016	7/20/2016
VOC										
cis-1,2-Dichloroethene	NE	NE	< 200 *D	< 0.16	< 0.16	< 0.14	< 0.17	< 0.17	< 0.22	< 0.24
trans-1,2-Dichloroethene	NE	NE	< 200 *D	< 0.16	< 0.16	< 0.14	< 0.17	< 0.17	< 0.13	< 0.14
1,2-Dichloroethene	NE	NE	< 200	< 0.16	< 0.16	< 0.14	< 0.17	NA	NA	NA
Tetrachloroethene	27,000	620	452	1.4	4.4	< 0.14	0.48	0.75	< 0.16	< 0.17
Trichloroethene	1,600	39	< 200 *D	< 0.16	< 0.16	< 0.14	< 0.17	< 0.17	< 0.25	< 0.27
Vinyl chloride[3]	11,000	65	< 200 *D	< 0.16	< 0.16	< 0.14	< 0.17	< 0.017	< 0.20	< 0.21

Footnotes:

Updated By: P. Popp 9/13/2017
Checked By: A. Stehn 9/14/2017

1 = VALs in accordance with *Addressing Vapor Intrusion at Remediation and Redevelopment Sites in Wisconsin* , http://dnr.wi.gov/files/PDF/pubs/rr/RR800.pdf

2 = Non-Res. Deep Soil Gas VAL used 0.001 AF; Res. Deep Soil Gas VAL used 0.01 AF

3 = Vinyl chloride was analyzed using the modified EPA Method TO-15 GC/MS SIM for the July 22, 2015 and July 24, 2015 monitoring event. For monitoring points where no detection was present, the concentration is noted less than the reporting limit.

Notes:

All concentrations presented in this table are reported in parts per billion by volume (ppbv) unless otherwise noted.

Res./Non-Res. VAL provided for comparison purposes.

VP-3 through VP-6 compared to Non-Res. Deep Soil Gas VAL due to probe location (large commercial/industrial building, >5 feet below nearest building foundation).

100	= exceeds Wisconsin Res. Deep Soil Gas VAL with 0.01 AF
100	= exceeds Wisconsin Non-Res. Deep Soil Gas VAL with 0.001 AF

<= constituent not detected above noted laboratory method detection limit

> = greater than

-- = not designated

*D = limit of detection not achievable due to dilution

*IS = the internal standard quality control limit is exceeded

AF = Attenuation Factor

NE = Criteria Not Established

NA= Not Analyzed

DUP = Duplicate sample collected

Res. = Residential

VAL = Vapor Action Level

VOCs = Volatile Organic Compounds

Table 20
Soil Gas Analytical Results Summary
Madison-Kipp Corporation
Madison, Wisconsin

SAMPLE LOCATION	DEEP SOIL GAS		VP-202	VP-202	VP-202	VP-202
SAMPLE DATE	NON-RES.[1,2]	RES.[1,2]	11/25/2011	10/24/2012	7/16/2013	1/30/2014
VOC						
cis-1,2-Dichloroethene	NE	NE	< 0.085 *IS	< 0.16	< 0.16	< 0.14
trans-1,2-Dichloroethene	NE	NE	< 0.085 *IS	< 0.16	< 0.16	< 0.14
1,2-Dichloroethene	NE	NE	< 0.085	< 0.16	< 0.16	< 0.14
Tetrachloroethene	27,000	620	5.7 *IS	9.1	8	1.5
Trichloroethene	1,600	39	< 0.085 *IS	0.58	< 0.16	< 0.14
Vinyl chloride[3]	11,000	65	< 0.085 *IS	< 0.16	< 0.16	< 0.14

Footnotes:

Updated By: P. Popp 9/13/2017
Checked By: A. Stehn 9/14/2017

1 = VALs in accordance with *Addressing Vapor Intrusion at Remediation and Redevelopment Sites in Wisconsin* , http://dnr.wi.gov/files/PDF/pubs/rr/RR800.pdf

2 = Non-Res. Deep Soil Gas VAL used 0.001 AF; Res. Deep Soil Gas VAL used 0.01 AF

3 = Vinyl chloride was analyzed using the modified EPA Method TO-15 GC/MS SIM for the July 22, 2015 and July 24, 2015 monitoring event. For monitoring points where no detection was present, the concentration is noted less than the reporting limit.

Notes:

All concentrations presented in this table are reported in parts per billion by volume (ppbv) unless otherwise noted.

Res./Non-Res. VAL provided for comparison purposes.

VP-3 through VP-6 compared to Non-Res. Deep Soil Gas VAL due to probe location (large commercial/industrial building, >5 feet below nearest building foundation).

100	= exceeds Wisconsin Res. Deep Soil Gas VAL with 0.01 AF
100	= exceeds Wisconsin Non-Res. Deep Soil Gas VAL with 0.001 AF

<= constituent not detected above noted laboratory method detection limit

> = greater than

-- = not designated

*D = limit of detection not achievable due to dilution

*IS = the internal standard quality control limit is exceeded

AF = Attenuation Factor

NE = Criteria Not Established

NA= Not Analyzed

DUP = Duplicate sample collected

Res. = Residential

VAL = Vapor Action Level

VOCs = Volatile Organic Compounds

Table 20
Soil Gas Analytical Results Summary
Madison-Kipp Corporation
Madison, Wisconsin

SAMPLE LOCATION	DEEP SOIL GAS		VP-210	VP-210	VP-210	VP-210	VP-210	VP-210	VP-210	VP-210
SAMPLE DATE	NON-RES.[1,2]	RES.[1,2]	11/25/2011	10/25/2012	7/16/2013	1/30/2014	7/23/2014	7/24/2015	7/22/2016	07/25/2017
VOC										
cis-1,2-Dichloroethene	NE	NE	< 0.085 *IS	< 0.17	< 0.15	< 0.14	< 0.17	< 0.17	< 0.23	< 0.095
trans-1,2-Dichloroethene	NE	NE	< 0.085 *IS	< 0.17	< 0.15	< 0.14	< 0.17	< 0.17	< 0.14	< 0.19
1,2-Dichloroethene	NE	NE	< 0.085	< 0.17	< 0.15	< 0.14	< 0.17	NA	NA	NA
Tetrachloroethene	27,000	620	3.22	3.9	3.6	< 0.14	5.4	5.2	5.1	7.8
Trichloroethene	1,600	39	< 0.085 *IS	< 0.17	0.26	< 0.14	< 0.17	< 0.17	< 0.26	< 0.12
Vinyl chloride[3]	11,000	65	< 0.085 *IS	< 0.17	< 0.15	< 0.14	< 0.17	< 0.017	< 0.21	< 0.074

Footnotes:

Updated By: P. Popp 9/13/2017
Checked By: A. Stehn 9/14/2017

1 = VALs in accordance with *Addressing Vapor Intrusion at Remediation and Redevelopment Sites in Wisconsin* , http://dnr.wi.gov/files/PDF/pubs/rr/RR800.pdf

2 = Non-Res. Deep Soil Gas VAL used 0.001 AF; Res. Deep Soil Gas VAL used 0.01 AF

3 = Vinyl chloride was analyzed using the modified EPA Method TO-15 GC/MS SIM for the July 22, 2015 and July 24, 2015 monitoring event. For monitoring points where no detection was present, the concentration is noted less than the reporting limit.

Notes:

All concentrations presented in this table are reported in parts per billion by volume (ppbv) unless otherwise noted.

Res./Non-Res. VAL provided for comparison purposes.

VP-3 through VP-6 compared to Non-Res. Deep Soil Gas VAL due to probe location (large commercial/industrial building, >5 feet below nearest building foundation).

100 = exceeds Wisconsin Res. Deep Soil Gas VAL with 0.01 AF

100 = exceeds Wisconsin Non-Res. Deep Soil Gas VAL with 0.001 AF

<= constituent not detected above noted laboratory method detection limit

> = greater than

-- = not designated

*D = limit of detection not achievable due to dilution

*IS = the internal standard quality control limit is exceeded

AF = Attenuation Factor

NE = Criteria Not Established

NA= Not Analyzed

DUP = Duplicate sample collected

Res. = Residential

VAL = Vapor Action Level

VOCs = Volatile Organic Compounds

Table 20
Soil Gas Analytical Results Summary
Madison-Kipp Corporation
Madison, Wisconsin

SAMPLE LOCATION	DEEP SOIL GAS		VP-222	VP-222	VP-222	VP-222	VP-222
SAMPLE DATE	NON-RES.[1,2]	RES.[1,2]	11/25/2011	10/25/2012	7/16/2013	1/30/2014	7/23/2014
VOC							
cis-1,2-Dichloroethene	NE	NE	< 20 *D	< 0.49	< 0.92	< 0.14	< 0.89
trans-1,2-Dichloroethene	NE	NE	< 20 *D	< 0.49	< 0.92	< 0.14	< 0.89
1,2-Dichloroethene	NE	NE	< 20	< 0.49	< 0.92	< 0.14	< 0.89
Tetrachloroethene	27,000	620	77	120	280	22	150
Trichloroethene	1,600	39	< 20 *D	< 0.49	< 0.92	< 0.14	< 0.89
Vinyl chloride[3]	11,000	65	< 20 *D	< 0.49	< 0.92	< 0.14	< 0.89

Footnotes:

Updated By: P. Popp 9/13/2017
Checked By: A. Stehn 9/14/2017

1 = VALs in accordance with *Addressing Vapor Intrusion at Remediation and Redevelopment Sites in Wisconsin* , http://dnr.wi.gov/files/PDF/pubs/rr/RR800.pdf

2 = Non-Res. Deep Soil Gas VAL used 0.001 AF; Res. Deep Soil Gas VAL used 0.01 AF

3 = Vinyl chloride was analyzed using the modified EPA Method TO-15 GC/MS SIM for the July 22, 2015 and July 24, 2015 monitoring event. For monitoring points where no detection was present, the concentration is noted less than the reporting limit.

Notes:

All concentrations presented in this table are reported in parts per billion by volume (ppbv) unless otherwise noted.

Res./Non-Res. VAL provided for comparison purposes.

VP-3 through VP-6 compared to Non-Res. Deep Soil Gas VAL due to probe location (large commercial/industrial building, >5 feet below nearest building foundation).

100	= exceeds Wisconsin Res. Deep Soil Gas VAL with 0.01 AF
100	= exceeds Wisconsin Non-Res. Deep Soil Gas VAL with 0.001 AF

<= constituent not detected above noted laboratory method detection limit

> = greater than

-- = not designated

*D = limit of detection not achievable due to dilution

*IS = the internal standard quality control limit is exceeded

AF = Attenuation Factor

NE = Criteria Not Established

NA= Not Analyzed

DUP = Duplicate sample collected

Res. = Residential

VAL = Vapor Action Level

VOCs = Volatile Organic Compounds

Table 20
Soil Gas Analytical Results Summary
Madison-Kipp Corporation
Madison, Wisconsin

SAMPLE LOCATION	DEEP SOIL GAS		VP-237	VP-237	VP-237	VP-237	VP-237	VP-237	VP-249	VP-249	VP-249
SAMPLE DATE	NON-RES.[1,2]	RES.[1,2]	11/25/2011	10/25/2012	7/17/2013	1/30/2014	7/23/2014	7/24/2015	11/25/2011	10/25/2012	7/17/2013
VOC											
cis-1,2-Dichloroethene	NE	NE	< 20	< 0.16	< 0.16	< 0.14	< 0.33	< 0.17	< 0.085	< 0.16	< 0.14
trans-1,2-Dichloroethene	NE	NE	< 20	< 0.16	< 0.16	< 0.14	< 0.33	< 0.17	< 0.085	< 0.16	< 0.14
1,2-Dichloroethene	NE	NE	< 20	< 0.16	< 0.16	< 0.14	< 0.33	NA	< 0.085	< 0.16	< 0.14
Tetrachloroethene	27,000	620	53	63	30	3.6	59	43	8.44	23	3.3
Trichloroethene	1,600	39	< 20	< 0.16	< 0.16	< 0.14	< 0.33	< 0.17	< 0.085	< 0.16	< 0.14
Vinyl chloride[3]	11,000	65	< 20	< 0.16	< 0.16	< 0.14	< 0.33	< 0.017	< 0.085	< 0.16	< 0.14

Footnotes:

Updated By: P. Popp 9/13/2017
Checked By: A. Stehn 9/14/2017

1 = VALs in accordance with *Addressing Vapor Intrusion at Remediation and Redevelopment Sites in Wisconsin* , http://dnr.wi.gov/files/PDF/pubs/rr/RR800.pdf

2 = Non-Res. Deep Soil Gas VAL used 0.001 AF; Res. Deep Soil Gas VAL used 0.01 AF

3 = Vinyl chloride was analyzed using the modified EPA Method TO-15 GC/MS SIM for the July 22, 2015 and July 24, 2015 monitoring event. For monitoring points where no detection was present, the concentration is noted less than the reporting limit.

Notes:

All concentrations presented in this table are reported in parts per billion by volume (ppbv) unless otherwise noted.

Res./Non-Res. VAL provided for comparison purposes.

VP-3 through VP-6 compared to Non-Res. Deep Soil Gas VAL due to probe location (large commercial/industrial building, >5 feet below nearest building foundation).

100 = exceeds Wisconsin Res. Deep Soil Gas VAL with 0.01 AF

100 = exceeds Wisconsin Non-Res. Deep Soil Gas VAL with 0.001 AF

<= constituent not detected above noted laboratory method detection limit

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-- = not designated

*D = limit of detection not achievable due to dilution

*IS = the internal standard quality control limit is exceeded

AF = Attenuation Factor

NE = Criteria Not Established

NA= Not Analyzed

DUP = Duplicate sample collected

Res. = Residential

VAL = Vapor Action Level

VOCs = Volatile Organic Compounds

Table 20
Soil Gas Analytical Results Summary
Madison-Kipp Corporation
Madison, Wisconsin

SAMPLE LOCATION	DEEP SOIL GAS		VP-261	VP-261	VP-261	VP-261	VP-261	VP-261
SAMPLE DATE	NON-RES.[1,2]	RES.[1,2]	11/28/2011	7/17/2013	1/30/2014	7/23/2014	7/23/2014	7/24/2015
VOC								
cis-1,2-Dichloroethene	NE	NE	< 0.085 *IS	< 0.15	< 0.13	< 0.16	< 0.16	< 0.17
trans-1,2-Dichloroethene	NE	NE	< 0.085 *IS	< 0.15	< 0.13	< 0.16	< 0.16	< 0.17
1,2-Dichloroethene	NE	NE	< 0.085	< 0.15	< 0.13	< 0.16	< 0.16	NA
Tetrachloroethene	27,000	620	< 0.085 *IS	1.2	1.2	5.0	4.3	15
Trichloroethene	1,600	39	< 0.085 *IS	< 0.15	< 0.13	< 0.16	< 0.16	< 0.17
Vinyl chloride[3]	11,000	65	< 0.085 *IS	< 0.15	< 0.13	< 0.16	< 0.16	< 0.017

Footnotes:

Updated By: P. Popp 9/13/2017
Checked By: A. Stehn 9/14/2017

1 = VALs in accordance with *Addressing Vapor Intrusion at Remediation and Redevelopment Sites in Wisconsin* , http://dnr.wi.gov/files/PDF/pubs/rr/RR800.pdf

2 = Non-Res. Deep Soil Gas VAL used 0.001 AF; Res. Deep Soil Gas VAL used 0.01 AF

3 = Vinyl chloride was analyzed using the modified EPA Method TO-15 GC/MS SIM for the July 22, 2015 and July 24, 2015 monitoring event. For monitoring points where no detection was present, the concentration is noted less than the reporting limit.

Notes:

All concentrations presented in this table are reported in parts per billion by volume (ppbv) unless otherwise noted.

Res./Non-Res. VAL provided for comparison purposes.

VP-3 through VP-6 compared to Non-Res. Deep Soil Gas VAL due to probe location (large commercial/industrial building, >5 feet below nearest building foundation).

100	= exceeds Wisconsin Res. Deep Soil Gas VAL with 0.01 AF
100	= exceeds Wisconsin Non-Res. Deep Soil Gas VAL with 0.001 AF

<= constituent not detected above noted laboratory method detection limit

> = greater than

-- = not designated

*D = limit of detection not achievable due to dilution

*IS = the internal standard quality control limit is exceeded

AF = Attenuation Factor

NE = Criteria Not Established

NA= Not Analyzed

DUP = Duplicate sample collected

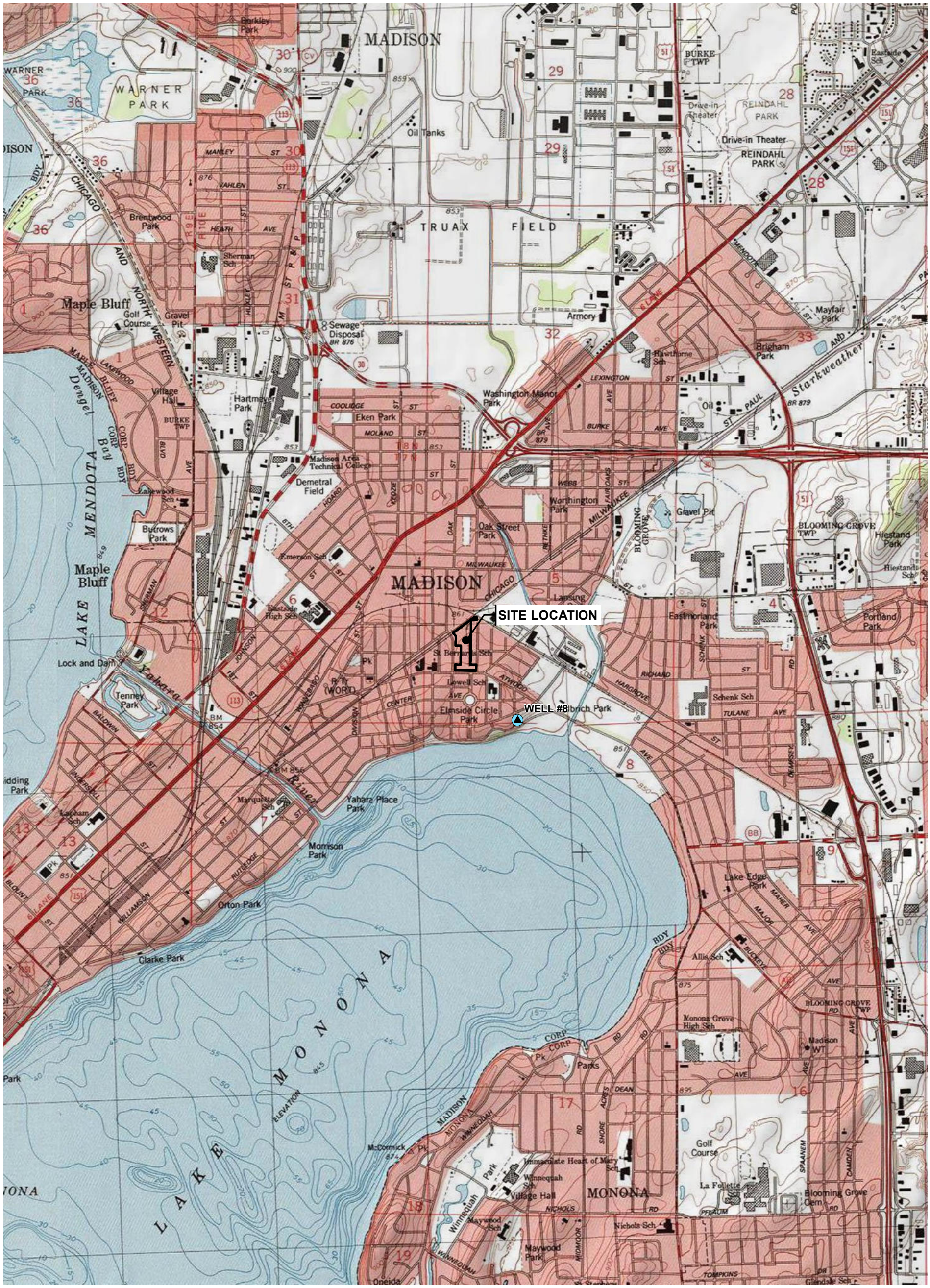
Res. = Residential

VAL = Vapor Action Level

VOCs = Volatile Organic Compounds

Plot Date: 2/27/2018, 11:04:10 AM by BDEEGAN -- LAYOUT: ANSI B (11"x17")
Path: E:\MadisonKIPPCorp\2017_266431\266431-2017S2-001.mxd
Coordinate System: NAD 1983 StatePlane Wisconsin South FIPS 4803 Feet (Foot US)
Map Rotation: 0

TRC - GIS



LEGEND

BASE MAP FROM USGS 7.5 MINUTE TOPOGRAPHIC QUADRANGLE SERIES, "USA TOPO MAPS" WEB BASEMAP SERVICE LAYER.

SITE PROPERTY BOUNDARY

MUNICIPAL SUPPLY WELL

0 2,000 4,000 FEET

1 " = 2,000 '
1:24,000

N

TRC
708 Heartland Trail
Suite 3000
Madison, WI 53717
Phone: 608.826.3600

PROJECT:

MADISON-KIPP CORPORATION
201 WAUBESA STREET
MADISON, WISCONSIN

TITLE:

SITE LOCATION MAP

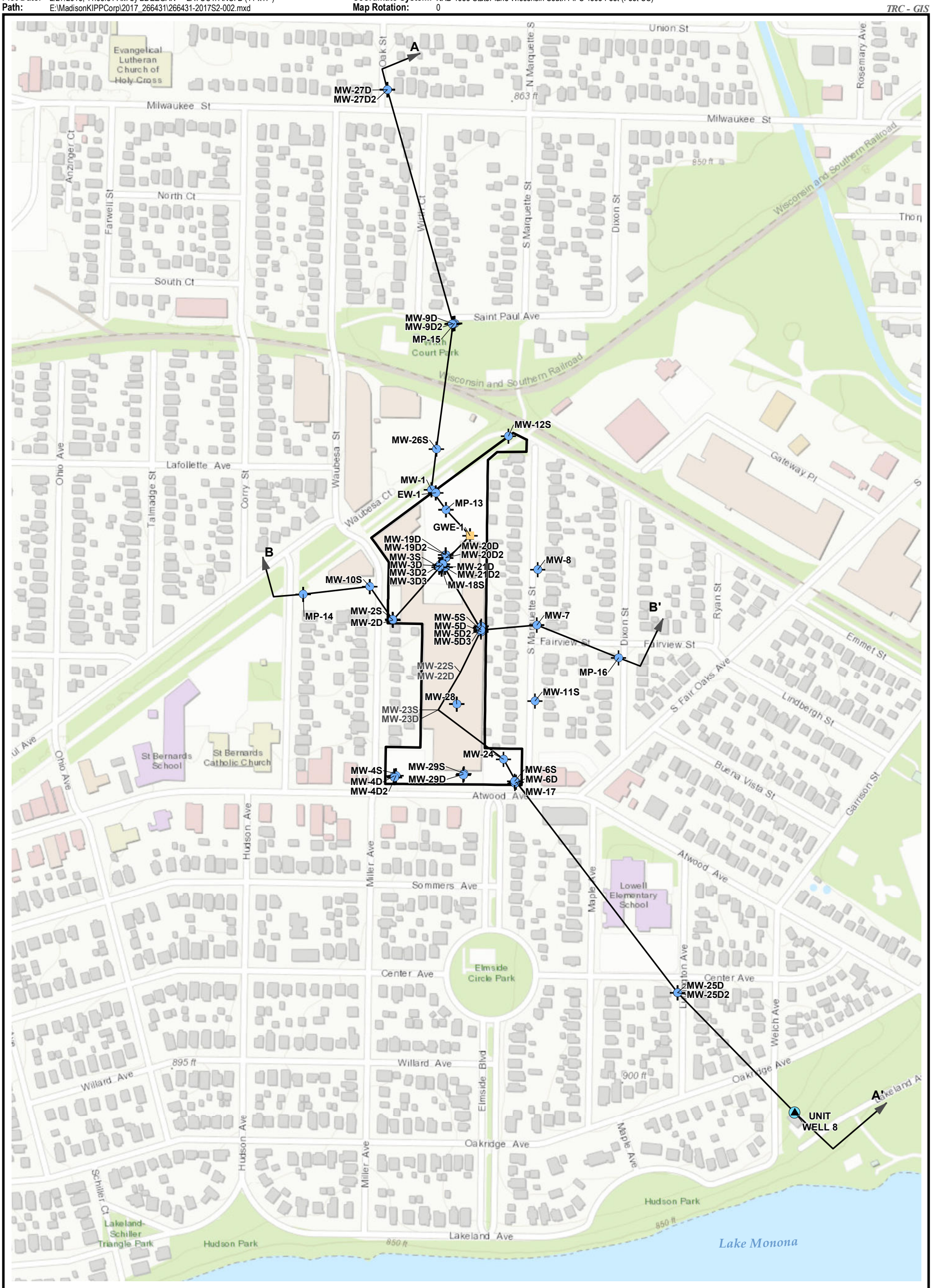
DRAWN BY:	B. DEEGAN
CHECKED BY:	S. SELLWOOD
APPROVED BY:	K. VATER
DATE:	FEBRUARY 2018
PROJ. NO.:	266431.0004
FILE:	266431-2017S2-001.mxd

FIGURE 1

Plot Date: 2/27/2018, 11:08:51 AM by BDEEGAN -- LAYOUT: ANSI B (11"x17")
Path: E:\MadisonKIPPCorp\2017_266431\266431-2017S2-002.mxd

Coordinate System: NAD 1983 StatePlane Wisconsin South FIPS 4803 Feet (Foot US)
Map Rotation: 0

TRC - GIS



LEGEND

- SITE PROPERTY BOUNDARY
- CROSS SECTION
- GROUNDWATER EXTRACTION WELL
- MONITORING WELL
- MUNICIPAL SUPPLY WELL

BASE MAP FROM ESRI, "WORLD TOPOGRAPHIC MAP" WEB BASEMAP SERVICE LAYER.

0 300 600 FEET

1 " = 300 '
1:3,600

N

TRC
708 Heartland Trail
Suite 3000
Madison, WI 53717
Phone: 608.826.3600

PROJECT:
MADISON-KIPP CORPORATION
201 WAUBESA STREET
MADISON, WISCONSIN

TITLE:
WELL LOCATIONS MAP

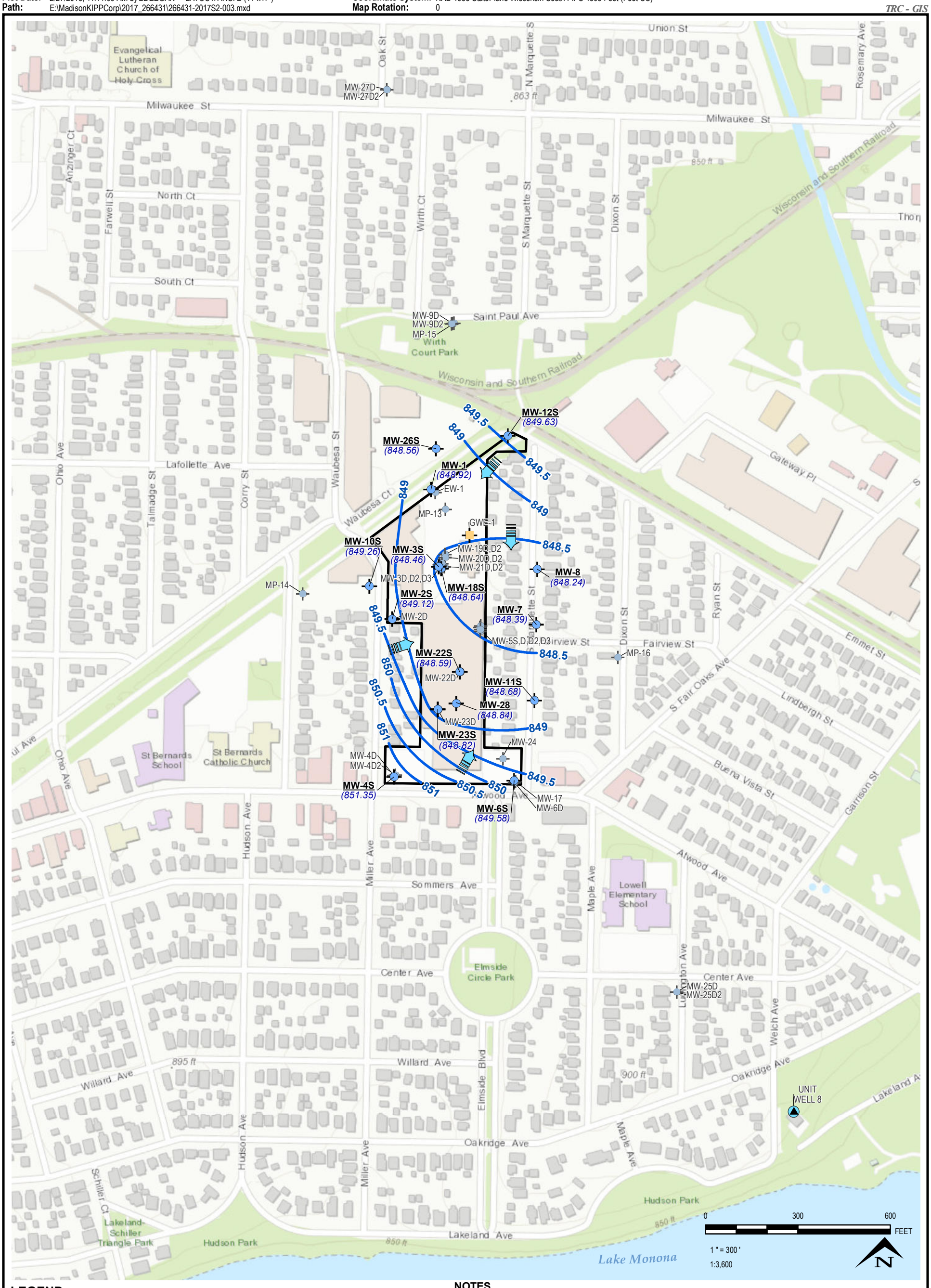
DRAWN BY:	B. DEEGAN
CHECKED BY:	S. SELLWOOD
APPROVED BY:	K. VATER
DATE:	FEBRUARY 2018
PROJ. NO.:	266431.0004
FILE:	266431-2017S2-002.mxd

FIGURE 2

Plot Date: 2/27/2018, 11:11:09 AM by BDEEGAN -- LAYOUT: ANSI B (11"x17")
Path: E:\MadisonKIPPCorp\2017_266431\266431-2017S2-003.mxd

Coordinate System: NAD 1983 StatePlane Wisconsin South FIPS 4803 Feet (Foot US)
Map Rotation: 0

TRC - GIS



LEGEND

- SITE PROPERTY BOUNDARY
- MONITORING WELL
- GROUNDWATER EXTRACTION WELL
- MUNICIPAL SUPPLY WELL
- GROUNDWATER ELEVATION CONTOUR (0.5' INTERVAL, DASHED WHERE INFERRED)
- GROUNDWATER FLOW DIRECTION

NOTES

1. BASE MAP FROM ESRI, "WORLD TOPOGRAPHIC MAP", WEB BASEMAP SERVICE LAYER.
2. THE WATER TABLE LIES WITHIN UNCONSOLIDATED SEDIMENTS WHICH ARE PRESENT TO A DEPTH OF APPROXIMATELY 35 FT BELOW GROUND SURFACE (835 FT ABOVE MEAN SEA LEVEL).
3. WELLS SHOWN IN GRAY AR E NOT PART OF THIS GROUNDWATER UNIT.
4. GROUNDWATER ELEVATIONS MEASURED OCTOBER 02, 2017.
5. MW-1 NOT USED FOR CONTOURING.

TRC
708 Heartland Trail
Suite 3000
Madison, WI 53717
Phone: 608.826.3600

PROJECT:

MADISON-KIPP CORPORATION
201 WAUBESA STREET
MADISON, WISCONSIN

TITLE:

WATER TABLE ELEVATIONS
OCTOBER 2017

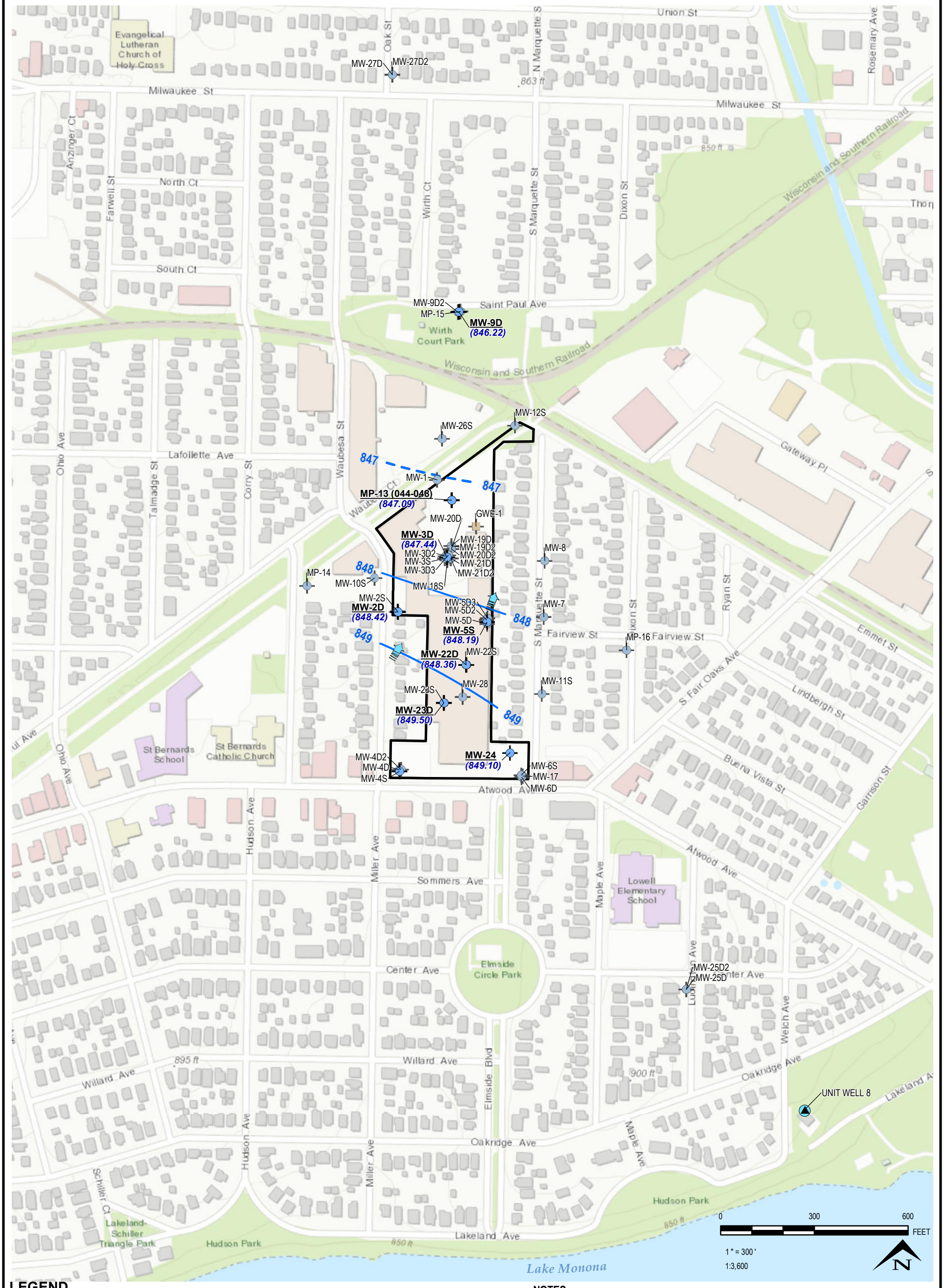
DRAWN BY:	B. DEEGAN
CHECKED BY:	S. SELLWOOD
APPROVED BY:	K. VATER
DATE:	FEBRUARY 2018
PROJ. NO.:	266431.0004
FILE:	266431-2017S2-003.mxd

FIGURE 3

Plot Date: 2/27/2018, 11:13:10 AM by BDEEGAN -- LAYOUT: ANSI B (11"x17")
Path: E:\MadisonKIPPCorp\2017_266431\266431-2017S2-004.mxd

Coordinate System: NAD 1983 StatePlane Wisconsin South FIPS 4803 Feet (Foot US)
Map Rotation: 0

TRC - GIS



LEGEND

- SITE PROPERTY BOUNDARY
- MONITORING WELL
- GROUNDWATER EXTRACTION WELL
- MUNICIPAL SUPPLY WELL
- GROUNDWATER ELEVATION CONTOUR (1' INTERVAL, DASHED WHERE INFERRED)
- GROUNDWATER FLOW

NOTES

1. BASE MAP IMAGERY FROM, "WORLD TOPOGRAPHIC MAP" WEB BASEMAP SERVICE LAYER.
2. THE UPPER LONE ROCK FORMATION IS INTERPRETED TO BE APPROXIMATELY 35-60 FEET BELOW GROUND SURFACE (835-810 FEET ABOVE MEAN SEA LEVEL).
3. WELLS SHOWN IN GRAY ARE NOT PART OF THIS GROUND WATER UNIT.
4. GROUNDWATER ELEVATIONS MEASURED OCTOBER 02, 2017.

TRC
708 Heartland Trail
Suite 3000
Madison, WI 53717
Phone: 608.826.3600

PROJECT:

MADISON-KIPP CORPORATION
201 WAUBESA STREET
MADISON, WISCONSIN

TITLE:

UPPER LONE ROCK FORMATION POTENTIOMETRIC SURFACE OCTOBER 2017

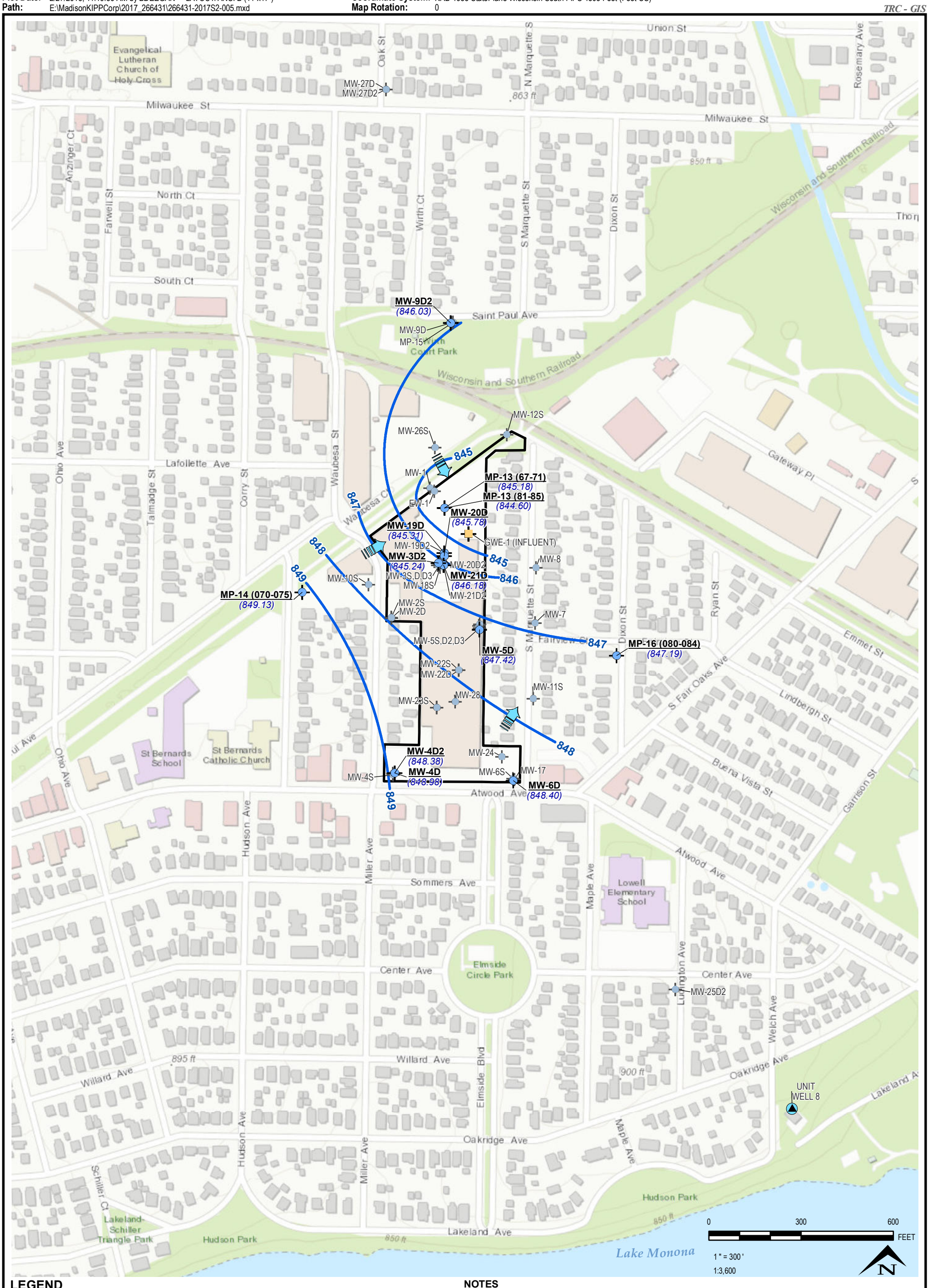
DRAWN BY:	B. DEEGAN
CHECKED BY:	S. SELLWOOD
APPROVED BY:	K. VATER
DATE:	FEBRUARY 2018
PROJ. NO.:	266431.0004
FILE:	266431-2017S2-004.mxd

FIGURE 4

Plot Date: 2/27/2018, 11:19:56 AM by BDEEGAN -- LAYOUT: ANSI B (11"x17")
Path: E:\MadisonKIPPCorp\2017_266431\266431-2017S2-005.mxd

Coordinate System: NAD 1983 StatePlane Wisconsin South FIPS 4803 Feet (Foot US)
Map Rotation: 0

TRC - GIS



LEGEND

- SITE PROPERTY BOUNDARY
- MONITORING WELLL
- GROUNDWATER EXTRACTION WELL
- MUNICIPAL SUPPLY WELL
- GROUNDWATER ELEVATION CONTOUR (1' FT INTERVAL, DASHED WHERE INFERRED)
- GROUNDWATER FLOW DIRECTION

NOTES

1. BASE MAP FROM ESRI, "WORLD TOPOGRAPHIC MAP", WEB BASEMAP SERVICE LAYER.
2. THE LOWER LONE ROCK FORMATION IS INTERPRETED TO BE FROM APPROXIMATELY 60 -100 FEET BELOW GROUND SURFACE (810-770 FEET ABOVE MEAN SEA LEVEL).
3. WELLS SHOWN IN GRAY ARE NOT PART OF THI S GROUNDWATER UNIT.
4. GROUNDWATER ELEVATIONS MEASURED OCTOBER 02, 2017.
5. MW-4D2, MP-13 (67-71), MW-3D2 NOT USED FOR CONTOURING.

TRC
708 Heartland Trail
Suite 3000
Madison, WI 53717
Phone: 608.826.3600

PROJECT:
MADISON-KIPP CORPORATION
201 WAUBESA STREET
MADISON, WISCONSIN

TITLE:
LOWER LONE ROCK FORMATION POTENTIOMETRIC SURFACE OCTOBER 2017

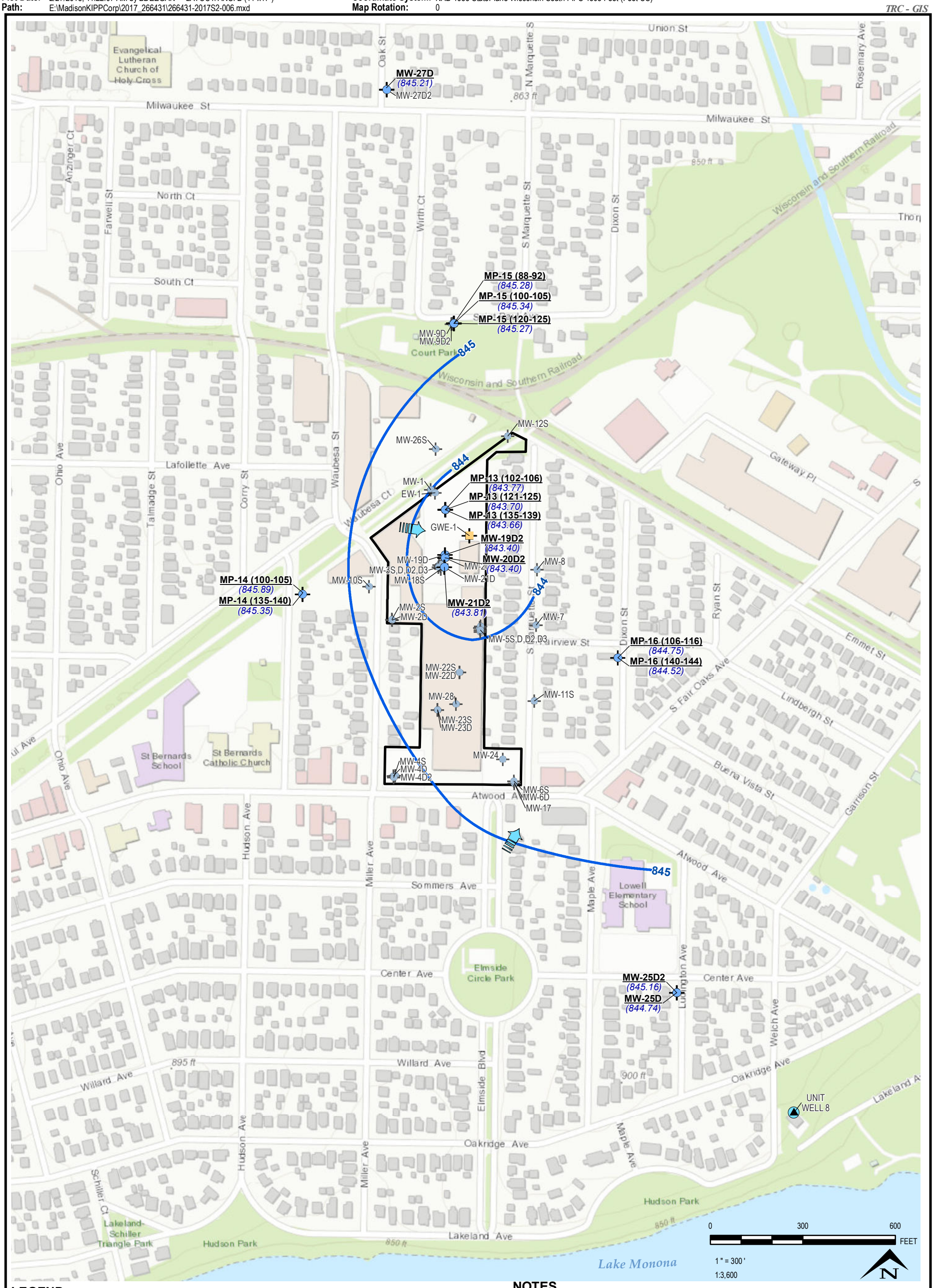
DRAWN BY:	B. DEEGAN
CHECKED BY:	S. SELLWOOD
APPROVED BY:	K. VATER
DATE:	FEBRUARY 2018
PROJ. NO.:	266431.0004
FILE:	266431-2017S2-005.mxd

FIGURE 5

Plot Date: 2/27/2018, 11:22:07 AM by BDEEGAN -- LAYOUT: ANSI B (11"x17")
Path: E:\MadisonKIPPCorp\2017_266431\266431-2017S2-006.mxd

Coordinate System: NAD 1983 StatePlane Wisconsin South FIPS 4803 Feet (Foot US)
Map Rotation: 0

TRC - GIS



LEGEND

- SITE PROPERTY BOUNDARY
- GROUNDWATER EXTRACTION WELL
- MONITORING WELL
- MUNICIPAL SUPPLY WELL
- GROUNDWATER ELEVATION CONTOUR (1' FT INTERVAL, DASHED WHERE INFERRED)
- GROUNDWATER FLOW DIRECTION

NOTES

1. BASE MAP FROM ESRI, "WORLD TOPOGRAPHIC MAP", WEB BASEMAP SERVICE LAYER.
2. THE UPPER WONEWOC FORMATION IS INTERPRETED TO BE FROM APPROXIMATELY 100-155 FEET BELOW GROUND SURFACE (770 -715 FEET ABOVE MEAN SEA LEVEL) .
3. WELLS SHOWN IN GRAY ARE NOT PART OF THIS GROUNDWATER U NIT.
4. GROUNDWATER ELEVATIONS MEASURED OCTOBER 02, 2017.
5. MW-25D NOT USED FOR CONTOURING.

TRC
708 Heartland Trail
Suite 3000
Madison, WI 53717
Phone: 608.826.3600

PROJECT:
MADISON-KIPP CORPORATION
201 WAUBESA STREET
MADISON, WISCONSIN

TITLE:
UPPER WONEWOC FORMATION POTENTIOMETRIC SURFACE OCTOBER 2017

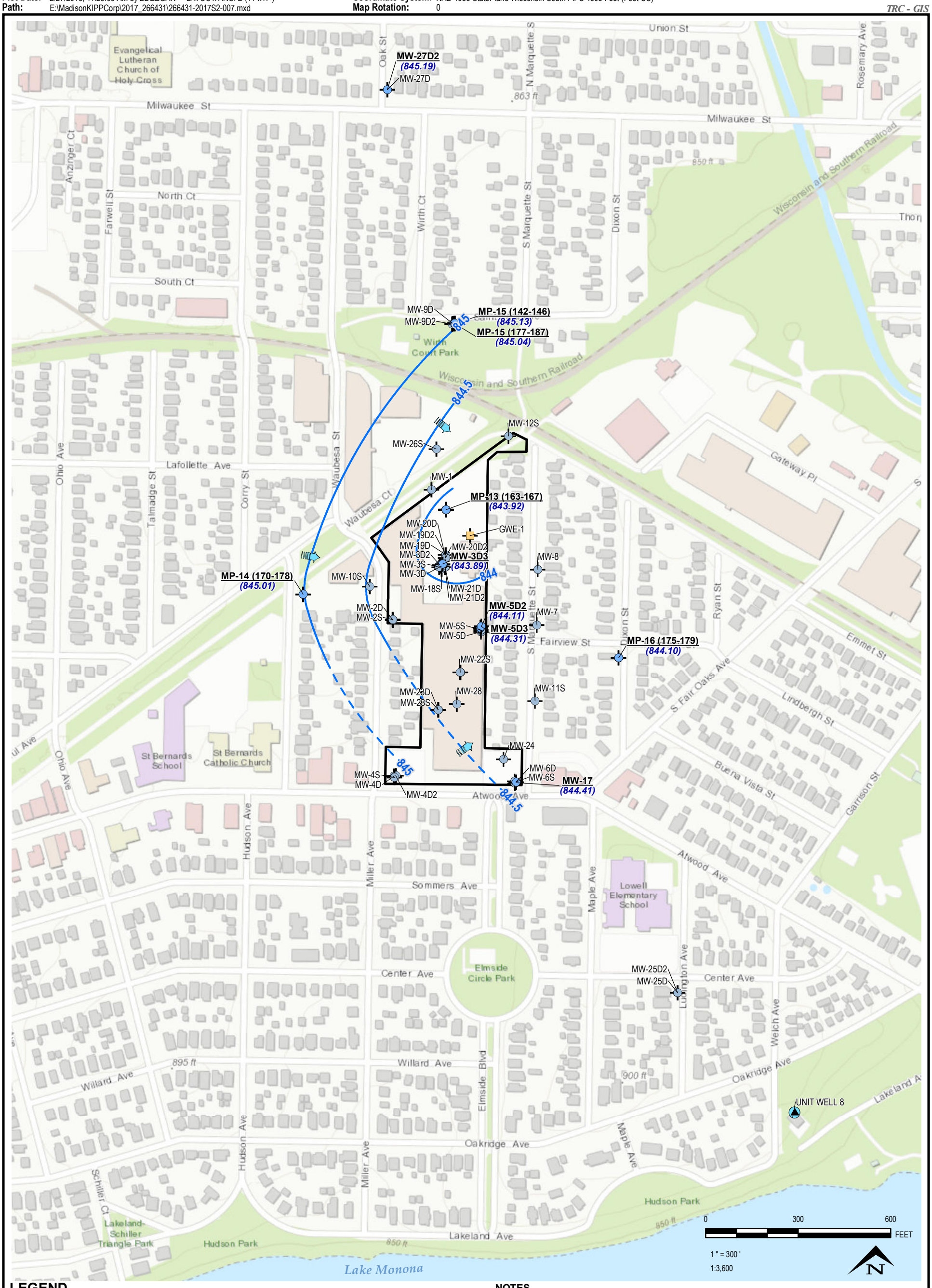
DRAWN BY:	B. DEEGAN
CHECKED BY:	S. SELLWOOD
APPROVED BY:	K. VATER
DATE:	FEBRUARY 2018
PROJ. NO.:	266431.0004
FILE:	266431-2017S2-006.mxd

FIGURE 6

Plot Date: 2/27/2018, 11:25:05 AM by BDEEGAN -- LAYOUT: ANSI B (11"x17")
Path: E:\MadisonKIPPCorp\2017_266431\266431-2017S2-007.mxd

Coordinate System: NAD 1983 StatePlane Wisconsin South FIPS 4803 Feet (Foot US)
Map Rotation: 0

TRC - GIS



LEGEND

- SITE PROPERTY BOUNDARY
- MONITORING WELL
- GROUNDWATER EXTRACTION WELL
- MUNICIPAL SUPPLY WELL
- GROUNDWATER ELEVATION CONTOUR (0.5' INTERVAL, DASHED WHERE INFERRED)
- GROUNDWATER FLOW

NOTES

1. BASE MAP IMAGERY FROM ESRI, "WORLD TOPOGRAPHIC MAP" WEB BASEMAP SERVICE LAYER.
2. THE LOWER WONEWOC FORMATION IS INTERPRETED TO BE FROM APPROXIMATELY 155 - 240 FEET BELOW GROUND SURFACE (715 - 630 FEET ABOVE MEAN SEA LEVEL).
3. WELLS SHOWN IN GRAY ARE NOT PART OF THIS GROUNDWATER UNIT.
4. GROUNDWATER ELEVATIONS MEASURED OCTOBER 02, 2017.

TRC
708 Heartland Trail
Suite 3000
Madison, WI 53717
Phone: 608.826.3600

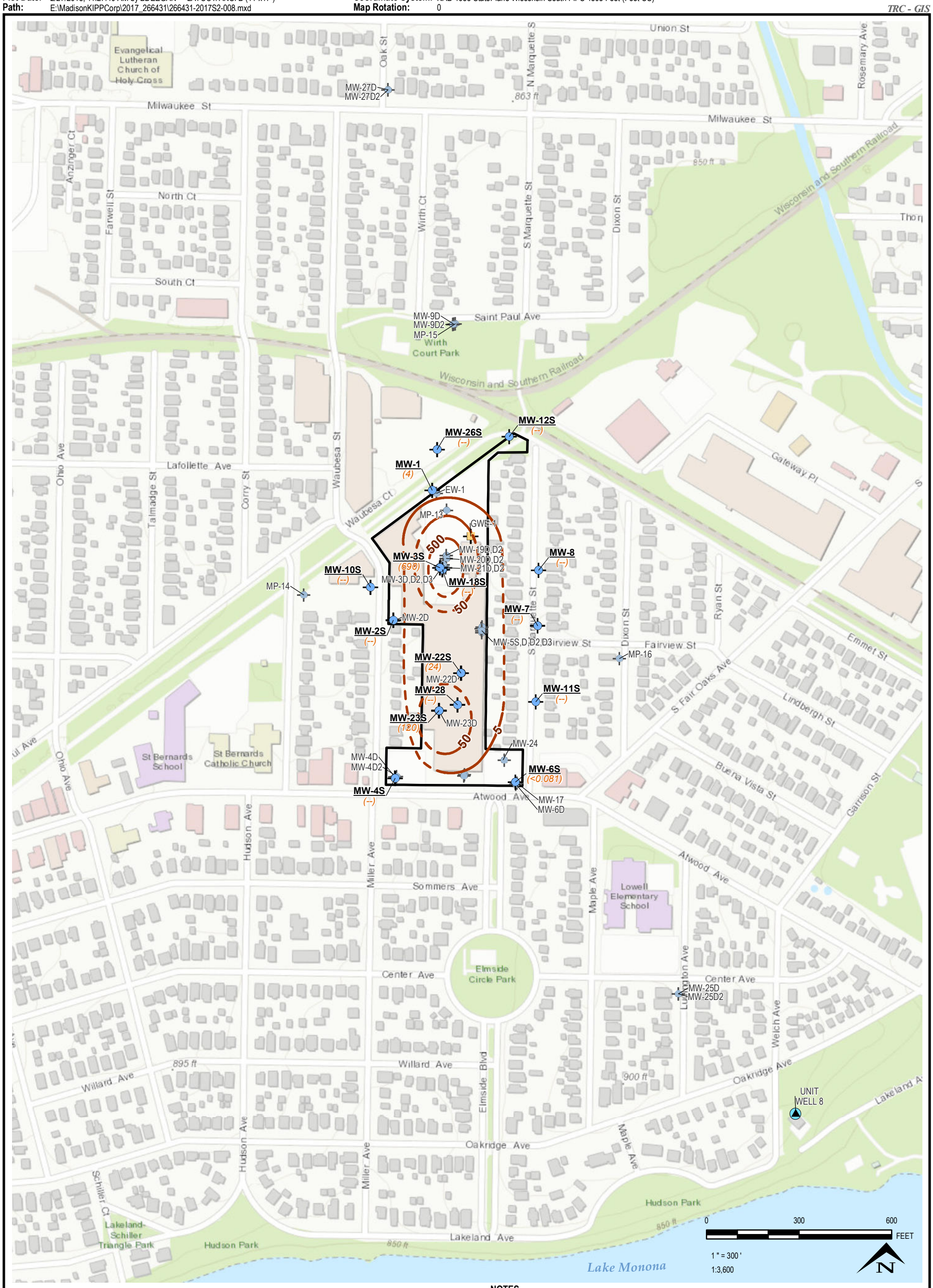
PROJECT:
MADISON-KIPP CORPORATION
201 WAUBESA STREET
MADISON, WISCONSIN

TITLE:
LOWER WONEWOC FORMATION POTENTIOMETRIC SURFACE OCTOBER 2017

DRAWN BY:	B. DEEGAN
CHECKED BY:	S. SELLWOOD
APPROVED BY:	K. VATER
DATE:	FEBRUARY 2018
PROJ. NO.:	266431.0004
FILE:	266431-2017S2-007.mxd

FIGURE 7

Plot Date: 2/27/2018, 11:27:40 AM by BDEEGAN -- LAYOUT: ANSI B (11"x17")
Path: E:\MadisonKIPPCorp\2017_266431\266431-2017S2-008.mxd
Coordinate System: NAD 1983 StatePlane Wisconsin South FIPS 4803 Feet (Foot US)
Map Rotation: 0
TRC - GIS



LEGEND

- SITE PROPERTY BOUNDARY
- MONITORING WELL
- GROUNDWATER EXTRACTION WELL
- MUNICIPAL SUPPLY WELL
- (7.5) PCE CONCENTRATION [µg/L]
- (--) NOT SAMPLED
- PCE ISOCONCENTRATION CONTOUR (µg/L, DASHED WHERE INFERRED)

NOTES

1. BASE MAP FROM ESRI, "WORLD TOPOGRAPHIC MAP", WEB BASEMAP SERVICE LAYER.
2. THE WATER TABLE LIES WITHIN UNCONSOLIDATED SEDIMENTS WHICH ARE PRESENT TO A DEPTH OF APPROXIMATELY 35 FT BELOW GROUND SURFACE (835 FT ABOVE MEAN SEA LEVEL).
3. WELLS SHOWN IN GRAY ARE NOT PART OF THIS GROUNDWATER UNIT.
4. WELLS SAMPLED 10/02/2017-10/12/2017.
5. DATA QUALIFIERS NOT INCLUDED, SEE TABLES OR LABORATORY REPORTS.

TRC
708 Heartland Trail
Suite 3000
Madison, WI 53717
Phone: 608.826.3600

PROJECT:
MADISON-KIPP CORPORATION
201 WAUBESA STREET
MADISON, WISCONSIN

TITLE:
WATER TABLE
TETRACHLOROETHENE (PCE) ISOCONCENTRATIONS
OCTOBER 2017

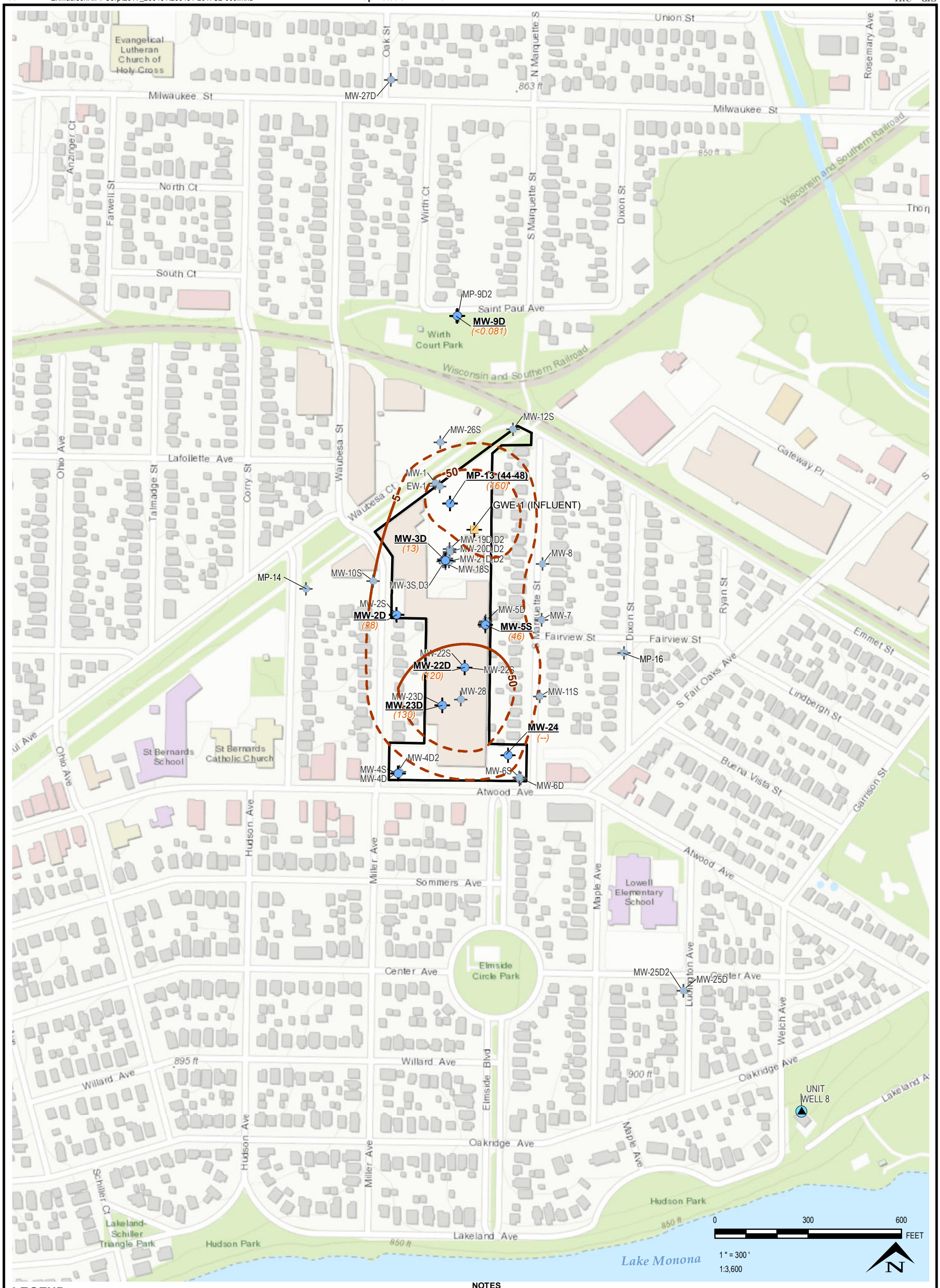
DRAWN BY:	B. DEEGAN
CHECKED BY:	S. SELLWOOD
APPROVED BY:	K. VATER
DATE:	FEBRUARY 2018
PROJ. NO.:	266431.0004
FILE:	266431-2017S2-008.mxd

FIGURE 8

Plot Date: 2/27/2018, 11:30:05 AM by BDEEGAN -- LAYOUT: ANSI B (11"x17")
Path: E:\MadisonKIPPCorp\2017_266431\266431-2017S2-009.mxd

Coordinate System: NAD 1983 StatePlane Wisconsin South FIPS 4803 Feet (Foot US)
Map Rotation: 0

TRC - GIS



LEGEND

- SITE PROPERTY BOUNDARY
- MONITORING WELL
- GROUNDWATER EXTRACTION WELL
- MUNICIPAL SUPPLY WELL
- (7.5) PCE CONCENTRATION [µg/L]
- (--) NOT SAMPLED
- PCE ISOCONCENTRATION CONTOUR (µg/L, DASHED WHERE INFERRED)

NOTES

1. BASE MAP FROM ESRI, "WORLD TOPOGRAPHIC MAP", WEB BASEMAP SERVICE LAYER.
2. THE UPPER LONE ROCK FORMATION IS INT ERPRETED TO BE FROM APPROXIMATEL Y 35-60 FEET BELOW GROUND SURFACE (835-810 FEET ABOVE MEAN SEA LEVEL.
3. WELLS SHOWN IN GRAY ARE NOT PART OF THIS GROUNDWATER UNIT.
4. WELLS SAMPLED 10/02/2017 – 10/12/2017.
5. DATA QUALIFIERS NOT INCLUDED, SEE TABLES OR LABORATORY REPORTS .

TRC
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Madison, WI 53717
Phone: 608.826.3600

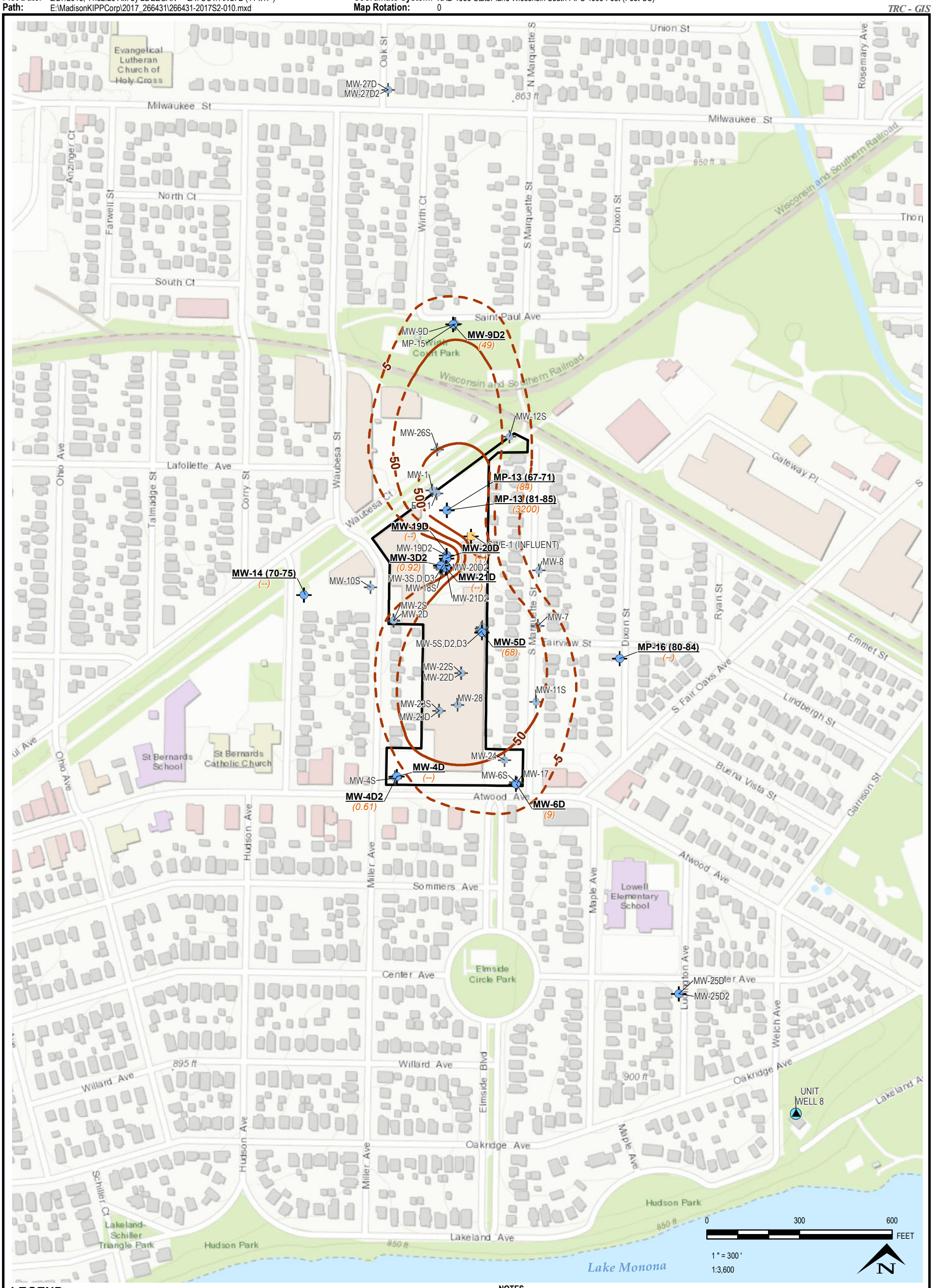
PROJECT:
MADISON-KIPP CORPORATION
201 WAUBESA STREET
MADISON, WISCONSIN

TITLE:
UPPER LONE ROCK FORMATION
TETRACHLOROETHENE (PCE) ISOCONCENTRATIONS
OCTOBER 2017

DRAWN BY:	B. DEEGAN
CHECKED BY:	S. SELLWOOD
APPROVED BY:	K. VATER
DATE:	FEBRUARY 2018
PROJ. NO.:	266431.0004
FILE:	266431-2017S2-009.mxd

FIGURE 9

Plot Date: 2/27/2018, 11:32:26 AM by BDEEGAN -- LAYOUT: ANSI B (11"x17")
Path: E:\MadisonKIPPCorp\2017_266431\266431-2017S2-010.mxd
Coordinate System: NAD 1983 StatePlane Wisconsin South FIPS 4803 Feet (Foot US)
Map Rotation: 0
TRC - GIS



LEGEND

- SITE PROPERTY BOUNDARY
- MONITORING WELL
- GROUNDWATER EXTRACTION WELL
- MUNICIPAL SUPPLY WELL
- (7.5) PCE CONCENTRATION [µg/L]
- (--) NOT SAMPLED
- PCE ISOCONCENTRATION CONTOUR (µg/L, DASHED WHERE INFERRED)

NOTES

1. BASE MAP FROM ESRI, "WORLD TOPOGRAPHIC MAP", WEB BASEMAP SERVICE LAYER.
2. THE LOWER LONE ROCK FORMATION IS INTERPRETED TO BE FROM APPROXIMATELY 60 – 100 FEET BELOW GROUND SURFACE (810-770 FEET ABOVE MEAN SEA LEVEL).
3. WELLS SHOWN IN GRAY ARE NOT PART OF THIS GROUNDWATER UNIT.
4. WELLS SAMPLED 10/02/2017 –10/12/2017.
5. DATA QUALIFIERS NOT INCLUDED, SEE TABLES OR LABORATORY REPORTS.

TRC
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Madison, WI 53717
Phone: 608.826.3600

PROJECT:
MADISON-KIPP CORPORATION
201 WAUBESA STREET
MADISON, WISCONSIN

TITLE:
LOWER LONE ROCK FORMATION TETRACHLOROETHENE (PCE) ISOCONCENTRATIONS OCTOBER 2017

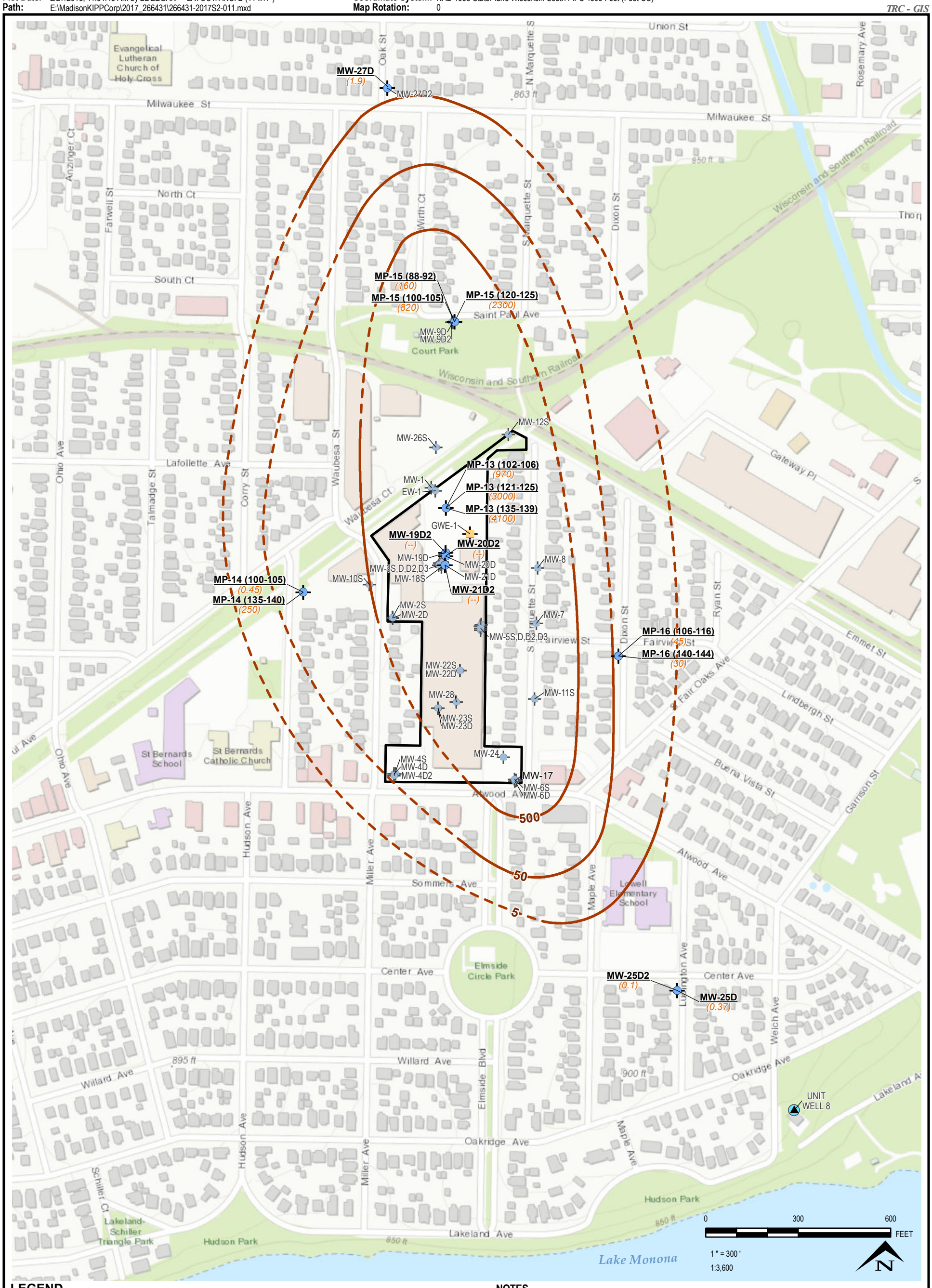
DRAWN BY:	B. DEEGAN
CHECKED BY:	S. SELLWOOD
APPROVED BY:	K. VATER
DATE:	FEBRUARY 2018
PROJ. NO.:	266431.0004
FILE:	266431-2017S2-010.mxd

FIGURE10

Plot Date: 2/27/2018, 11:34:48 AM by BDEEGAN -- LAYOUT: ANSI B (11"x17")
Path: E:\MadisonKIPPCorp\2017_266431\266431-2017S2-011.mxd

Coordinate System: NAD 1983 StatePlane Wisconsin South FIPS 4803 Feet (Foot US)
Map Rotation: 0

TRC - GIS



LEGEND

- SITE PROPERTY BOUNDARY
- GROUNDWATER EXTRACTION WELL
- MONITORING WELL
- MUNICIPAL SUPPLY WELL
- (7.5) PCE CONCENTRATION [µg/L]
- (--) NOT SAMPLED
- PCE ISOCONCENTRATION CONTOUR (µg/L, DASHED WHERE INFERRED)

NOTES

1. BASE MAP FROM ESRI, "WORLD TOPOGRAPHIC MAP", WEB BASEMAP SERVICE LAYER.
2. THE UPPER WONEWOC FORMATION IS INTERPRETED TO BE FROM APPROXIMATELY 100-155 FEET BELOW GROUND SURFACE (770 – 715 FEET ABOVE MEAN SEA LEVEL).
3. WELLS SHOWN IN GRAY ARE NOT PART OF THIS GROUNDWATER UNIT.
4. WELLS SAMPLED 10/02/2017 – 10/12/2017.
5. DATA QUALIFIERS NOT INCLUDED, SEE TABLES OR LABORATORY REPORTS.

TRC
708 Heartland Trail
Suite 3000
Madison, WI 53717
Phone: 608.826.3600

PROJECT:
MADISON-KIPP CORPORATION
201 WAUBESA STREET
MADISON, WISCONSIN

TITLE:
UPPER WONEWOC FORMATION
TETRACHLOROETHENE (PCE) ISOCONCENTRATIONS
OCTOBER 2017

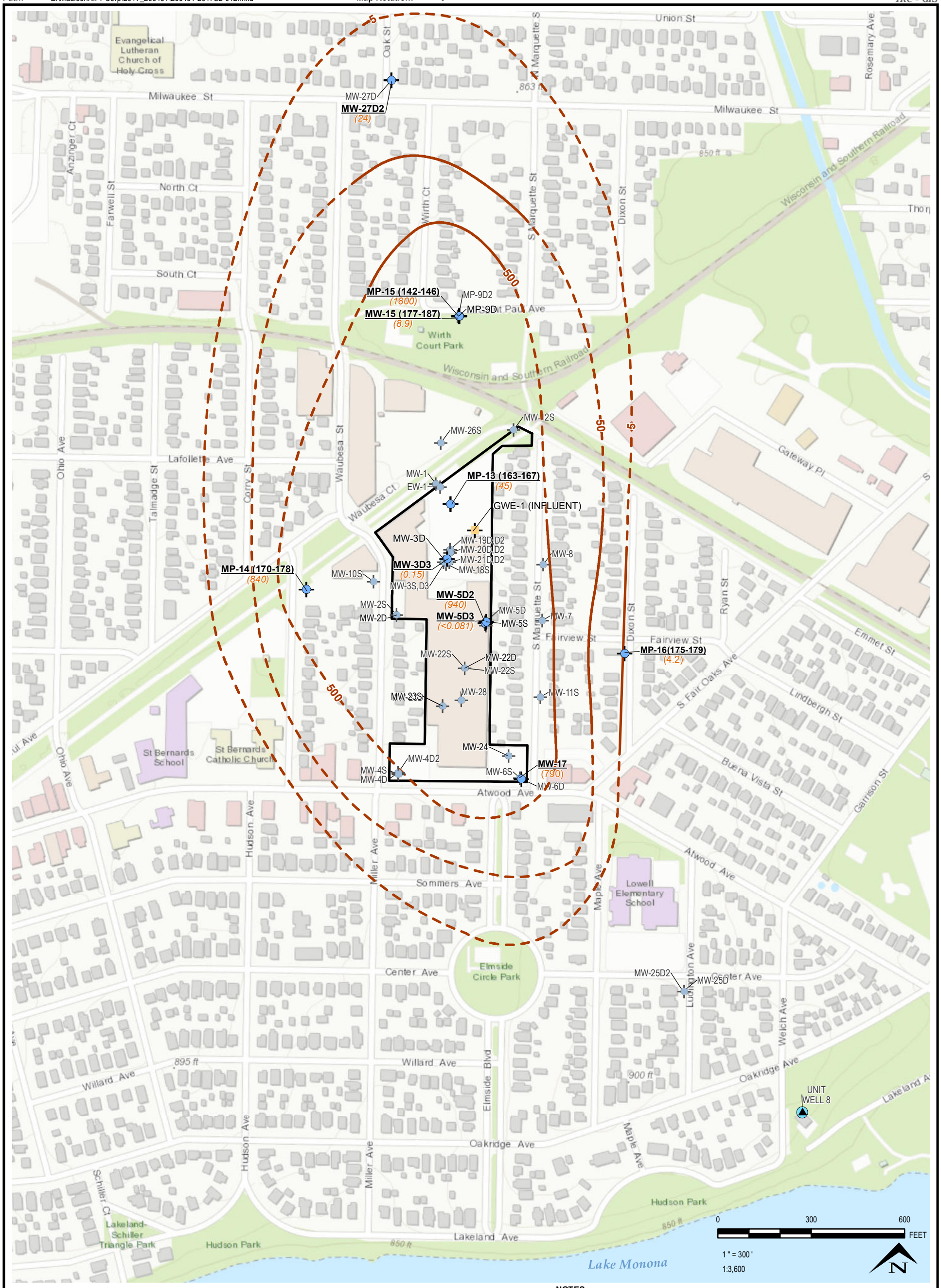
DRAWN BY:	B. DEEGAN
CHECKED BY:	S. SELLWOOD
APPROVED BY:	K. VATER
DATE:	FEBRUARY 2018
PROJ. NO.:	266431.0004
FILE:	266431-2017S2-011.mxd

FIGURE 11

Plot Date: 2/27/2018, 11:37:21 AM by BDEEGAN -- LAYOUT: ANSI B (11"x17")
Path: E:\MadisonKIPPCorp\2017_266431\266431-2017S2-012.mxd

Coordinate System: NAD 1983 StatePlane Wisconsin South FIPS 4803 Feet (Foot US)
Map Rotation: 0

TRC - GIS



LEGEND

- SITE PROPERTY BOUNDARY
- MONITORING WELL
- GROUNDWATER EXTRACTION WELL
- MUNICIPAL SUPPLY WELL
- (7.5) PCE CONCENTRATION [µg/L]
- (--) NOT SAMPLED
- PCE ISOCONCENTRATION CONTOUR (µg/L, DASHED WHERE INFERRED)

NOTES

1. BASE MAP FROM ESRI, "WORLD TOPOGRAPHIC MAP", WEB BASEMAP SERVICE LAYER.
2. THE LOWER WONEWOC FORMATION IS INTERPRE TED TO BE FROM APPROXIMATELY 155 -240 FEET BELOW GROUND SURFACE (715 -630 FEET ABOVE MEAN SEA LEVEL).
3. WELLS SHOWN IN GRAY ARE NOT PART OF THIS GROUNDWATER UNIT .
4. WELLS SAMPLED 10/02/2017 – 10/12/2017.
5. DATA QUALIFIERS NOT INCLUDED, SEE TABLES OR LABORATORY REPORTS .

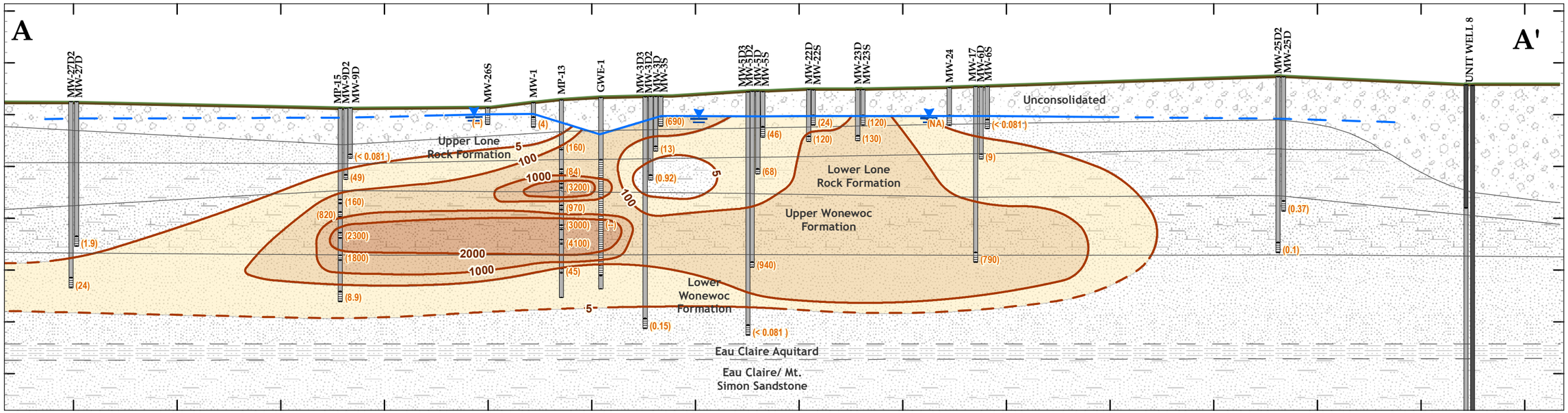
TRC
708 Heartland Trail
Suite 3000
Madison, WI 53717
Phone: 608.826.3600

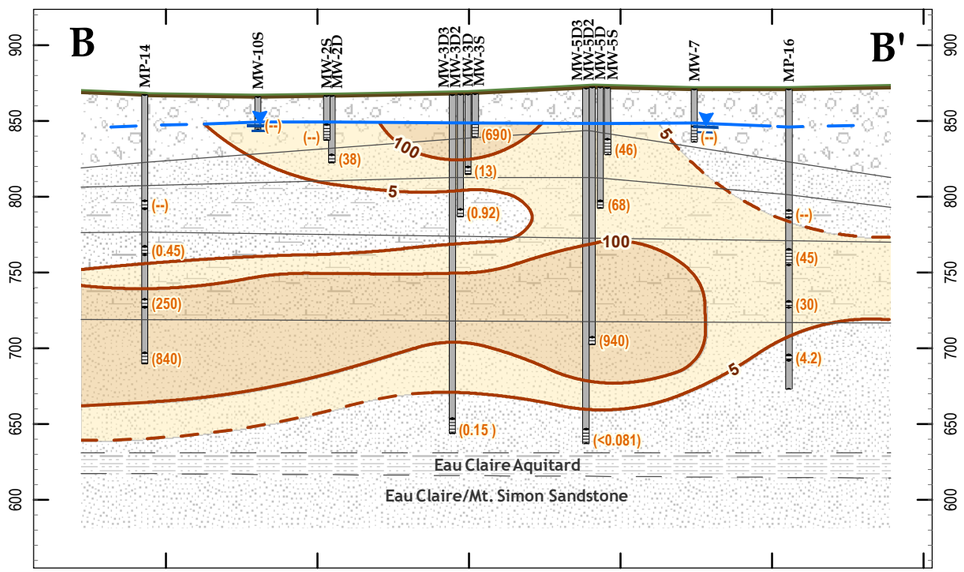
PROJECT:
MADISON-KIPP CORPORATION
201 WAUBESA STREET
MADISON, WISCONSIN

TITLE:
LOWER WONEWOC FORMATION
TETRACHLOROETHENE (PCE) ISOCONCENTRATIONS
OCTOBER 2017

DRAWN BY:	B. DEEGAN
CHECKED BY:	S. SELLWOOD
APPROVED BY:	K. VATER
DATE:	FEBRUARY 2018
PROJ. NO.:	266431.0004
FILE:	266431-2017S2-012.mxd

FIGURE 12





LEGEND

WELL CONSTRUCTION
- WELL RISER
- WELL CASING
- WELL SCREEN
- WATER TABLE ELEVATION

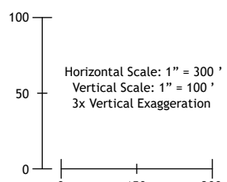
(550) PCE CONCENTRATION [µg/L]

(--) NOT SAMPLED

PCE CONCENTRATIONS IN GROUNDWATER (DASHED WHERE INFERRED)
- < 5 µg/L
- 5 - <100 µg/L
- 100 - <1000 µg/L
- 1000 - <2000 µg/L
- >2000 µg/L

NOTES

1. SEE FIGURE 2 FOR PLAN VIEW CROSS SECTION LOCATIONS.
2. WELLS SAMPLED BETWEEN OCT. 02-12, 2017.
3. FEATURES SHOWN ARE APPROXIMATE
4. DATA QUALIFIERS NOT INCLUDED, SEE TABLES OR LABORATORY REPORTS.
5. OCTOBER 2017 PCE CONCENTRATION FOR EXTRACTION WELL GWE-1 WAS NOT USED FOR CONTOURING.



PROJECT:
MADISON-KIPP CORPORATION
201 WAUBESA STREET
MADISON, WISCONSIN

TITLE:
GEOLOGIC CROSS SECTIONS A-A' AND B-B' TETRACHLOROETHENE (PCE) CONCENTRATIONS - OCTOBER 2017

DRAWN BY:	B. DEEGAN	PROJ NO.:	266431.0004
CHECKED BY:	S. SELLWOOD		
APPROVED BY:	K. VATER		
DATE:	FEBRUARY 2018		

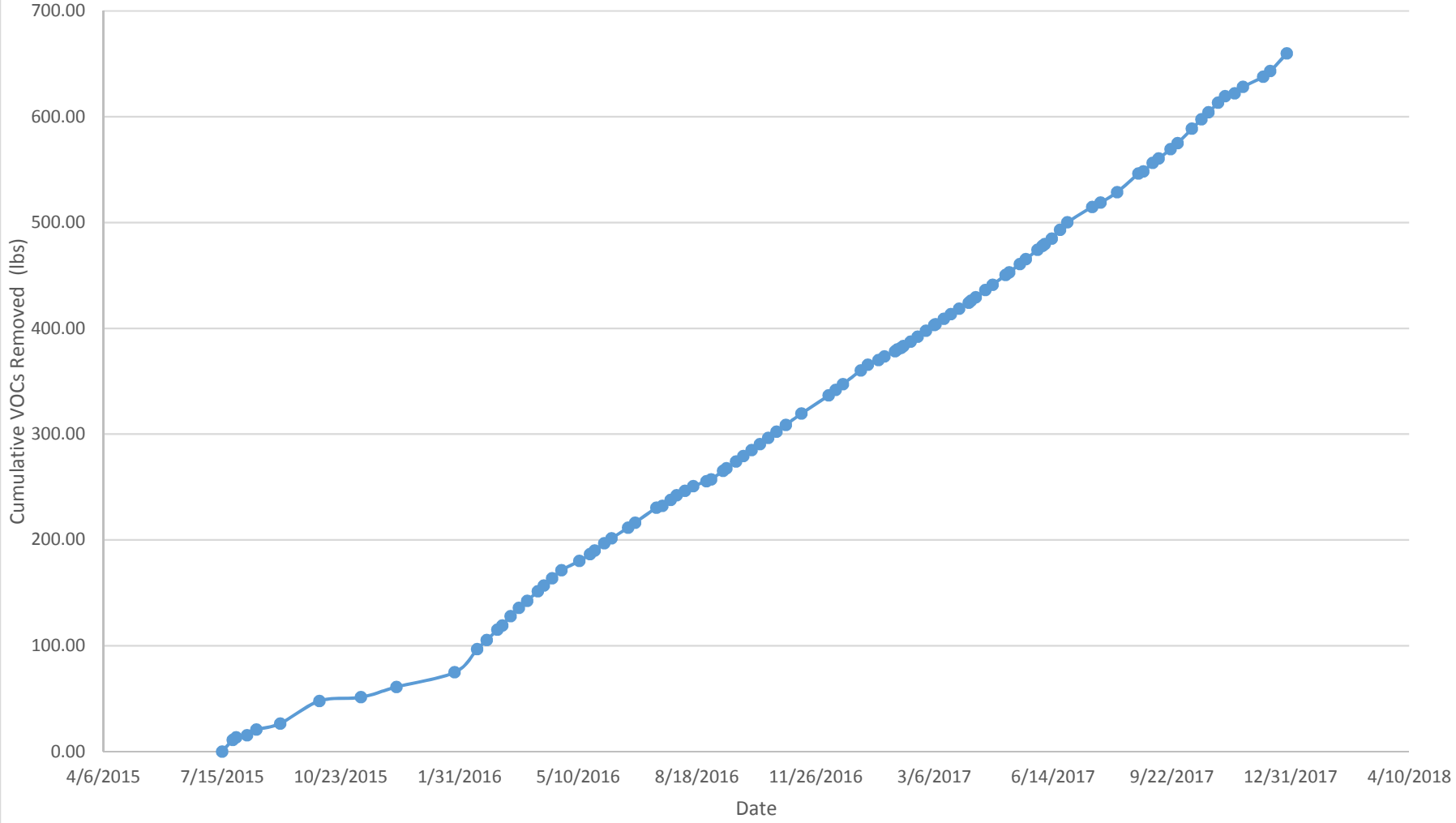
FIGURE 13

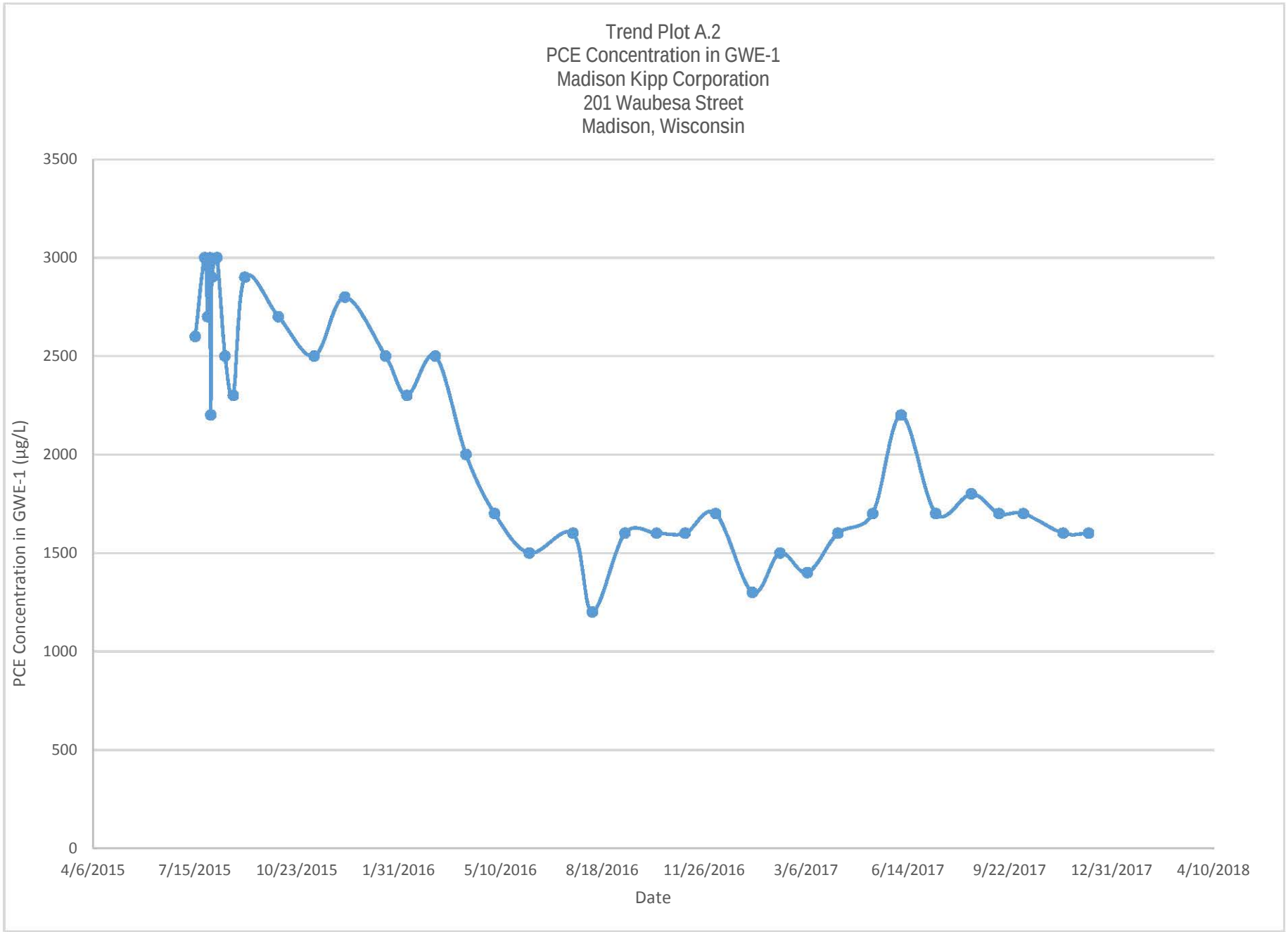
TRC
708 Heartland Trail, Suite 3000
Madison, WI 53717
Phone: 608.826.3600
www.trcsolutions.com

FILE NO.: 266431-2017S2-013.mxd

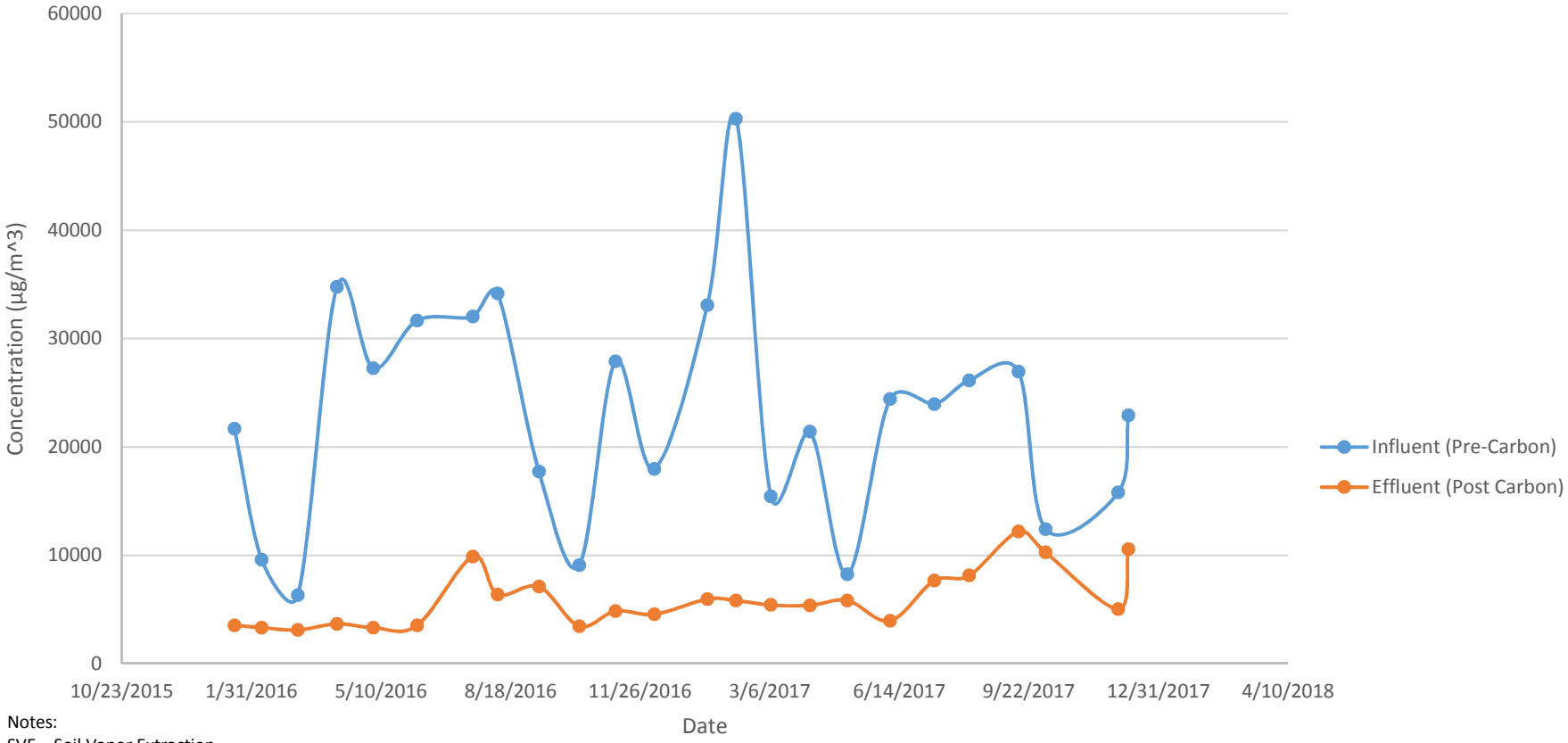
Appendix A
Trend Plots

Trend Plot A.1
Groundwater Extraction System Operation
Cumulative Volatile Organic Compounds (VOCs) Removed
Madison Kipp Corporation
201 Waubesa Street
Madison, Wisconsin



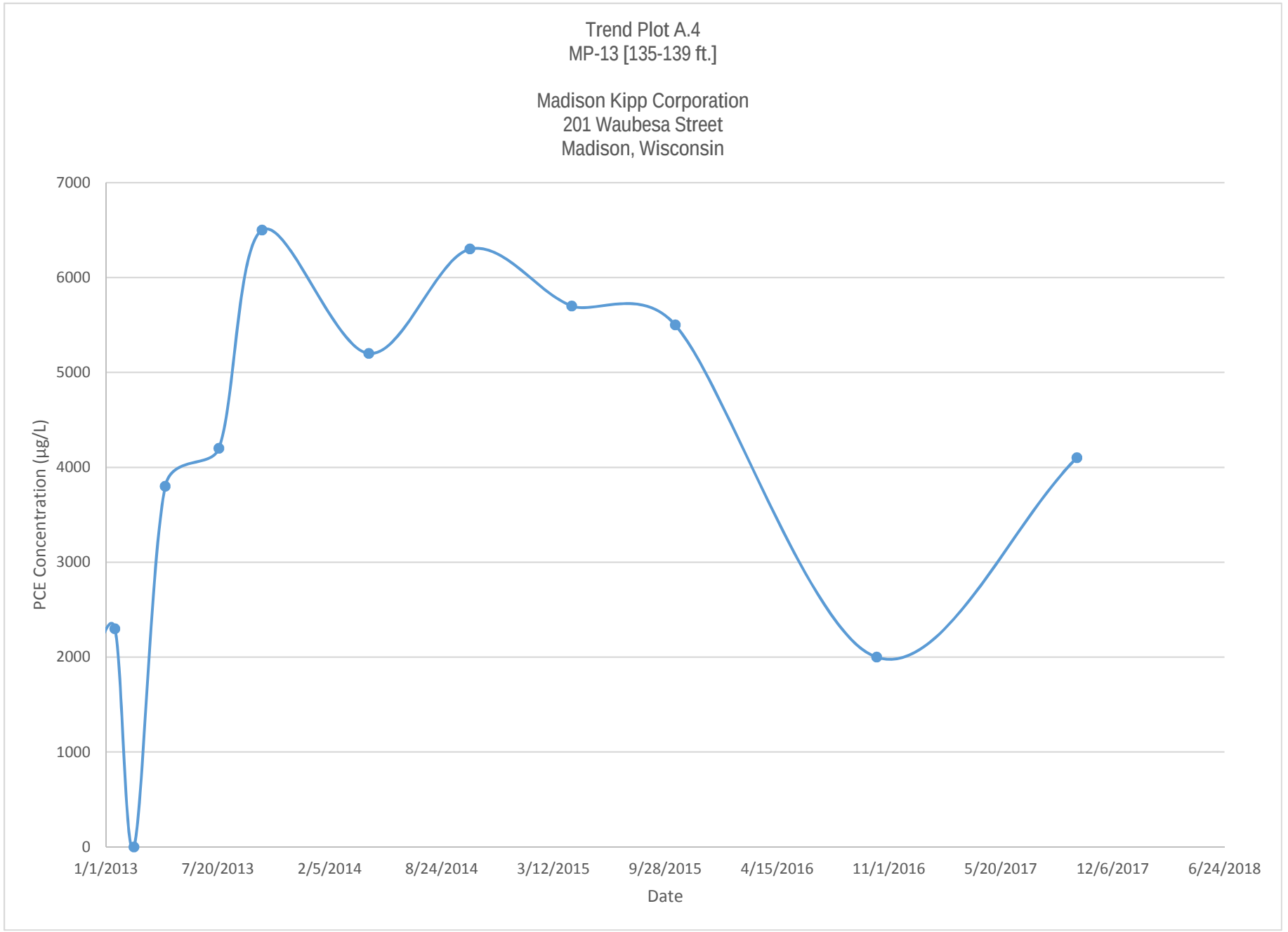

Trend Plot A.2
PCE Concentration in GWE-1
Madison Kipp Corporation
201 Waubesa Street
Madison, Wisconsin
PCE Concentration in GWE-1 (µg/L)
3500
3000
2500
2000
1500
1000
500
0
4/6/2015
7/15/2015
10/23/2015
1/31/2016
5/10/2016
8/18/2016
11/26/2016
3/6/2017
6/14/2017
9/22/2017
12/31/2017
4/10/2018
Date

Trend Plot A.3
GETS and SVE Combined Total VOC Gas Concentration - Pre and Post Carbon Adsorption Treatment
Madison Kipp Corporation
201 Waubesa Street
Madison, Wisconsin



Notes:
SVE = Soil Vapor Extraction
GETS = Groundwater Extraction and Treatment System
µg/m^3 = micrograms per cubic meter
VOCs = Volatile Organic Compounds

Footnotes:
1. Total VOC concentrations were calculated based on analytes reported above and below the method reporting limit. For detected analytes, the reported concentrations were used. For all other analytes detected below the method reporting limit, half of the reporting limit was used.
2. Total VOC concentration may be biased high due to the number analytes detected below the method reporting limit.


Trend Plot A.4
MP-13 [135-139 ft.]
Madison Kipp Corporation
201 Waubesa Street
Madison, Wisconsin
PCE Concentration (µg/L)
7000
6000
5000
4000
3000
2000
1000
0
1/1/2013
7/20/2013
2/5/2014
8/24/2014
3/12/2015
9/28/2015
4/15/2016
11/1/2016
5/20/2017
12/6/2017
6/24/2018
Date

Appendix B
Remediation Site Operation, Maintenance, Monitoring, and Optimization Report Form 4400-194

State of Wisconsin
Department of Natural Resources
PO Box 7921, Madison WI 53707-7921
dnr.wi.gov

Remediation Site Operation, Maintenance, Monitoring & Optimization Report

GENERAL INSTRUCTIONS, PURPOSE AND APPLICABILITY OF THIS FORM: Completion of this form is required under s. NR 724.13(3), Wis. Adm. Code. A narrative report or letter containing the equivalent information required in this form may be submitted in lieu of the actual form. Failure to submit this form as required is a violation of s. NR 724.13(3), Wis. Adm. Code, and is subject to the penalties in s. 292.99, Wis. Stats. This form must be submitted every six months for soil or groundwater remediation projects that report operation and maintenance progress in accordance with s. NR 724.13(3), Wis. Adm. Code.

Note: Long-term monitoring results submitted in accordance with s. NR 724.17(3), Wis. Adm. Code are required to be submitted within 10 business days of receiving sampling results and are not required to be submitted using this form. However, portions of this form require monitoring data summary information that may be based on information previously submitted in accordance with s. NR 724.17(3), Wis. Adm. Code.

Note: Responsible parties should check with the State Project Manager assigned to the site to determine if this form is required to be submitted at sites responded to under the Federal Comprehensive Environmental Response and Compensation Act (commonly known as Superfund) or an equivalent State lead Superfund response.

Note: Responsible parties should check with the State Project Manager assigned to the site to determine if any of the information required in this form may be omitted or changed and obtain prior written approval for any omissions or changes.

Submittal of this form is not a substitute for reporting required by Department programs such as Waste Water or Air Management. Personally identifiable information on this form is not intended to be used for any other purpose than tracking progress of the remediation by the Bureau for Remediation and Redevelopment.

Personal information collected will be used for administrative purposes and may be provided to requesters to the extent required by Wisconsin's Open Records Law (ss. 19.31-19.39, Wis. Stats.). Unless otherwise noted, all citations refer to Wisconsin Administrative Code.

Note: There is a separate semi-annual report required under s. NR 700.11(1), Wis. Adm. Code. Reporting under that provision is through an internet-based form:

http://dnr.wi.gov/topic/Brownfields/documents/regs/NR700progreport.pdf

Section GI - General Site Information

A. General Information

1. Site name

Madison-Kipp Corporation

2. Reporting period from:	To:	Days in period:
07/01/2017	12/31/2017	184

3. Regulatory agency (enter DNR, DATCP and/or other)	4. BRRTS ID No. (2 digit program-2 digit county-6 digit site specific)
DNR	02-13-558625

5. Site location

Region	County	Address
South Central Region	Dane	201 Waubesa Street

Municipality name ◉ City ○ Town ○ Village	Township	Range ◉E ○W	Section	¼	¼ ¼
Madison	07 N	10	5	SW	NW

6. Responsible party	7. Consultant
Name: Mark Sheppard	☐ Select if the following information has changed since the last submittal
Mailing address: 201 Waubesa Street, Madison, WI 53704	Company name: TRC
Phone number: (608) 242-5207	Mailing address: 708 Heartland Trail, Suite 3000 Madison, WI 53717
	Phone number: (608) 826-3600

8. Contaminants

VOCs, Metals, PCBs

9. Soil types (USCS or USDA)

CL, SP, GP

10. Hydraulic conductivity(cm/sec):	11. Average linear velocity of groundwater (ft/yr)
0.08 - 13.2	0.5 - 12.9

12. If soil is treated ex situ, is the treatment location off site? ○ Yes ◉ No

If yes, give location: Region	County

Municipality name ○ City ○ Town ○ Village	Township	Range ○E ○W	Section	¼	¼ ¼
	N				

B. Remediation Method

Only submit sections that apply to an individual site. Check all that apply:

- ☒ Groundwater extraction (submit a completed Section GW-1).
- ☐ Free product recovery (submit a completed Section GW-1).
- ☐ In situ air sparging (submit a completed Section GW-2).
- ☐ Groundwater natural attenuation (submit a completed Section GW-3).
- ☐ Other groundwater remediation method (submit a completed Section GW-4).
- ☒ Soil venting (including soil vapor extraction building venting and bioventing submit a completed Section IS-1).
- ☐ Soil natural attenuation (submit a completed Section IS-2).
- ☐ Other in situ soil remediation method (submit a completed Section IS-3).
- ☐ Biopiles (submit a completed Section ES-1).
- ☐ Landspreading/thinspreading of petroleum contaminated soil (submit a completed Section ES-2).
- ☐ Other ex situ remediation method (submit a completed Section ES-3).
- ☐ Site is a landfill (submit a completed Section LF-1).

C. General Effectiveness Evaluation for All Active Systems

If the remediation is active (not natural attentuation), complete this subsection.

1. Is the system operating at design rates and specifications? ◉ Yes ○ No
   If the answer is no, explain whether or not modifications are necessary to achieve the goal that was previously established in design.

2. Are modifications to the system warranted to improve effectiveness ○ Yes ◉ No
   If yes, explain:

3. Is natural attenuation an effective low cost option at this time? ○ Yes ◉ No
4. Is closure sampling warranted at this time? ○ Yes ◉ No
5. Are there any modifications that can be made to the remediation to improve cost effectiveness? ◉ Yes ○ No
   If yes, explain: The SVE system operation is currently being evaluated.

D. Economic and Cost Data to Date

1. Total investigation cost: Cost not included
2. Implementation costs (design, capital and installation costs, excluding investigation costs): _____
3. Total costs during the previous reporting period: _____
4. Total costs during this reporting period: _____
5. Total anticipated costs for the next reporting period: _____
6. Are any unusual or one-time costs listed in the reporting periods covered by D.3., D.4. or D.5. above? ○ Yes ○ No
   If yes, explain:

7. If closure is anticipated within 12 months, estimated costs for project closeout: _____

E. Name(s), Signature(s) and Date of Person(s) Submitting Form

Legibly print name, date and sign. Only persons qualified to submit reports under ch. NR 712 Wis. Adm. Code are to sign this form for sites with any ongoing active remediation, monitoring or an investigation. Other persons may sign this form for sites with no response activities during the six month reporting period.

Registered Professional Engineers:

I hereby certify that I am a registered professional engineer in the State of Wisconsin, registered in accordance with the requirements of ch. A-E 4, Wis. Adm. Code; that this document has been prepared in accordance with the rules of Professional Conduct in ch. A-E 8, Wis. Adm. Code; and that, to the best of my knowledge, all information contained in this document is correct and the document was prepared in compliance with all applicable requirements in chs. NR 700 to 726, Wis. Adm. Code.

Print name	Title
Katherine Vater	Project Manager
Signature: Katherine Vater	Date: 2/28/2018

Hydrogeologists:

I hereby certify that I am a hydrogeologist as that term is defined in s. NR 712.03(1), Wis. Adm. Code, and that, to the best of my knowledge, all information contained in this document is correct and the document was prepared in compliance with all applicable requirements in chs. NR 700 to 726, Wis. Adm. Code.

Print name	Title
Signature	Date

Scientists:

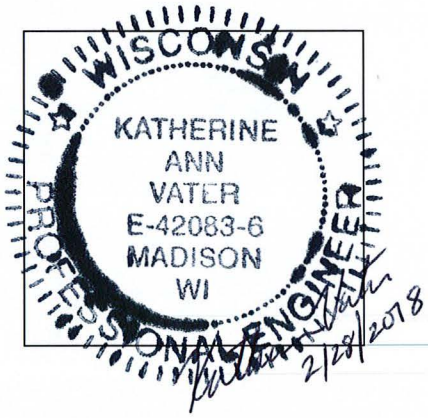
I hereby certify that I am a scientist as that term is defined in s. NR 712.03(3), Wis. Adm. Code, and that, to the best of my knowledge, all information contained in this document is correct and the document was prepared in compliance with all applicable requirements in chs. NR 700 to 726, Wis. Adm. Code.

Print name	Title
Signature	Date

Other Persons:

Print name	Title
Andrew Stehn	Project Engineer
Signature: Andrew Stehn	Date: 2/28/2018

Professional Seal(s), if applicable:



Section GW-1, Groundwater Pump and Treat Systems and Free Product Recovery Systems

A. Groundwater Extraction System Operation:

1. Total number of groundwater extraction wells or trenches available: 1 and the number in use during period: 1

2. Number of days of operation (only list the number of days the system actually operated, if unknown explain:
   152 days

3. System utilization in percent (days of operation divided by reporting time period multiplied by 100). If < 80%, explain:
   82.5%

4. Quantity of groundwater extracted during this time period: 9,836,627 gallons

5. Average groundwater extraction rate: 45 gpm

6. Quantity of dissolved phase contaminants removed during this time period in pounds: 158 lbs

B. Free Product Recovery System Operation

1. Is free product (nonaqueous phase liquid) being recovered at this site? ◯ Yes ◉ No
   If yes, explain:

2. Quantity of free product extracted during this time period (enter none if none): _____ gallons

3. Average free product extraction rate: _____ gpm

C. System Effectiveness Evaluation

1. Is a contaminated groundwater plume fully contained in the capture zone? ◯ Yes ◉ No
   If no, explain:
   The groundwater extraction and treatment system was designed to facilitate the removal of volatile organic compound (VOC) mass in addition to providing hydraulic containment of VOCs in groundwater in order to minimize off-site VOC migration.

2. If free product is present, is the free product fully contained in capture zone? ◯ Yes ◯ No
   If no, explain:

3. If free product is present in any wells at the site, but free product was not recovered during reporting period, explain:

4. If free product is not present, determine the single contaminant that requires the greatest percent reduction to achieve ch. NR 140 ES and PAL. Perform this calculation for all contaminants that were present at the site that have ch. NR 140 standards. Use the highest contaminant concentration measured in any sampling points during reporting period. If free product is present, write "FREE PRODUCT" in C.4.a.

   a. Contaminant: Tetrachloroethene

   b. Percent reduction necessary to reach ch. NR 140 ES and PAL: 99 %

   c. Maximum contaminant concentration level in any monitoring well of that contaminant: 4,100 µg/L

   d. Maximum contaminant concentration level in any extraction well of that contaminant: 1,800 µg/L

e. If the maximum concentration in a monitoring well is more that one order of magnitude above the concentration measured in an extraction well, explain why the extracted groundwater contamination levels are significantly less than the levels at other locations within the aquifer.
Not Applicable

D. Additional Attachments

Attach the following to this form:

- Most recent report to the DNR Wastewater Program, if applicable. Appendix C
- Groundwater contour map with capture zone indicated. Figures 3-7
- Groundwater contaminant distribution map (may be combined with contour map). Figures 8-13
- Graph of cumulative contaminant removal, if both free product recovery and ground water extraction are used, provide separate graphs. Appendix A; Graph A.1
- Time versus groundwater contaminant concentration graphs for the contaminant listed in C.4.a. (above), as follows:
  - -- Graph of contaminant concentrations versus time for each extraction well in use during the period. Appendix A;Graph A.2
  - -- Graph of contaminant concentrations versus time for the monitoring well with the greatest level of contamination. Appendix A;Graph A.4
- Groundwater contaminant chemistry table. Table 19
- Groundwater elevations table. Table 17
- System operational data table. Table 1

N/A

Section GW-2, In Situ Air Sparging Systems

A. In Situ Air Sparging System Operation

1. Number of air injection wells at the site and the number actually in use during the period: _____
2. Number of days of operation (only list the number of days the system actually operated, if unknown explain):
3. System utilization in percent (days of operation divided by reporting time period multiplied by 100). If < 80%, explain:

B. System Effectiveness Evaluation

1. If free product is not present, determine the single contaminant that requires the greatest percent reduction to achieve ch. NR 140 ES and PAL. Perform this calculation for all contaminants that were present at the site that have ch. NR 140 standards. Use the highest contaminant concentration measured in any sampling points during reporting period. If free product is present, write "FREE PRODUCT" in B.1.a.

   a. Contaminant: _____

   b. Percent reduction necessary to reach ch. NR 140 ES and PAL: _____ %

   c. Maximum contaminant concentration level in any monitoring well: _____ µg/L

2. Is there any evidence that air is short circuiting through natural or man-made pathways? ◯ Yes ◯ No
   If yes, explain:

3. Is the size of the plume: ◯ Increasing ◯ Stabalized ◯ Decreasing ?
   If increasing, explain:

C. Additional Attachments

Attach the following to this form:

- Groundwater contour map.
- Groundwater contaminant distribution map (may be combined with contour map).
- When contaminants are aerobically biodegradable, attach a dissolved oxygen in groundwater map (dissolved oxygen may be combined with the contaminant data on a single map).
- Site map with all air injection wells and groundwater monitoring points.
- Graph of contaminant concentrations versus time for the contaminant listed in B.1.a. (above) for the monitoring point with the greatest level of contamination.
- Groundwater contaminant chemistry table.
- Groundwater elevations table.
- System operational data table.

Section GW-3, Natural Attenuation (Passive Bioremediation) in Groundwater

N/A

A. Effectiveness Evaluation

1. If free product is not present, determine the single contaminant that requires the greatest percent reduction to achieve ch. NR 140 ES and PAL. Perform this calculation for all contaminants that were present at the site that have ch. NR 140 standards. Use the highest contaminant concentration measured in any sampling points during reporting period. If free product is present, write "FREE PRODUCT" in A.1.a

   a. Contaminant: _____

   b. Percent reduction necessary to reach ch. NR 140 ES and PAL: _____ %

   c. Maximum contaminant concentration level in any monitoring well of that contaminant: _____ µg/L

2. Aquifer parameters:

   a. Hydraulic conductivity: _____ cm/sec

   b. Groundwater average linear velocity: _____ ft/yr

3. Is there a downgradient monitoring well that meets ch. NR 140 standards? ◯ Yes ◯ No

4. Based on water chemistry results, is the plume: ◯ Expanding ◯ Stabalized ◯ Contracting ?

5. If the answer in 4. (above) is "expanding," is natural attenuation still the best option? ◯ Yes ◯ No

   If yes, explain:

6. Biodegradation parameters:

   a. Upgradient (or other site specific background) DO level: _____ µg/L

   b. DO levels in the part of the plume that is most heavily contaminated _____ µg/L

7. Is site closure a viable option within 12 months from the date of this form? ◯ Yes ◯ No

8. Are there any modifications that can improve cost effectiveness? ◯ Yes ◯ No

   If yes, explain:

9. Have groundwater table fluctuations changed the contaminant level trends over time? ◯ Yes ◯ No

   If yes, explain:

10. Has the direction of groundwater flow changed during the reporting period? ◯ Yes ◯ No

    If yes, approximate change in degrees: _____

B. Additional Attachments

Attach the following:

- Groundwater contour map.
- Groundwater contaminant distribution map (may be combined with contour map).
- When contaminants are aerobically biodegradable, attach a dissolved oxygen in groundwater map (dissolved oxygen may be combined with the contaminant data on a single map).
- Graph of contaminant concentrations versus time for the contaminant listed in A.1.a. (above) for the monitoring point with the greatest level of contamination.
  Note: This is the minimum required graph; however, it is recommended that multiple time versus contamination concentration graphs as described in the instructions on page 24 for Natural Attenuation of Groundwater be submitted.
- Graph of contaminant concentrations versus distance.
- Groundwater contaminant chemistry table.
- Groundwater biological parameters.
- Groundwater elevations table.

Section GW-4, Other Groundwater Remediation Methods

N/A

A. Effectiveness Evaluation

1. If free product is not present, determine the single contaminant that requires the greatest percent reduction to achieve ch. NR 140 ES and PAL. Perform this calculation for all contaminants that were present at the site that have ch. NR 140 standards. Use the highest contaminant concentration measured in any sampling points during reporting period. If free product is present, write "FREE PRODUCT" in A.1.a.

   a. Contaminant: _____

   b. Percent reduction necessary: _____ %

   c. Maximum contaminant concentration level in any monitoring well: _____ µg/L

2. Is the size of the plume: ◯ Increasing ◯ Stabalized ◯ Decreasing ?

3. Describe the method used to remediate groundwater at the site:

4. List any additional information required by the DNR for this method for this site:

B. Additional Attachments

Attach the following:

- Groundwater contour map.
- Groundwater contaminant distribution map (may be combined with contour map).
- When contaminants are aerobically biodegradable, attach a dissolved oxygen in groundwater map (dissolved oxygen may be combined with the contaminant data on a single map).
- Graph of contaminant concentrations versus time for the contaminant listed in A.1.a. (above) for the monitoring point with the greatest level of contamination.
- Groundwater contaminant chemistry table.
- Groundwater elevations table.
- Any other attachments required by the DNR for this remediation method.

Section IS-1, Soil Venting (Including Soil Vapor Extraction, Building Venting and Bioventing)

A. Soil Venting Operation

Note: This form is not required for building vapor mitigation systems that are installed proactively to protect building occupants/users and are not considered part of ongoing active soil remediation.

1. Number of air extraction wells available and number of wells actually in use during the period: 9
2. Number of days of operation (only list the number of days the system actually operated, if unknown explain):
   160 days
3. System utilization in percent (days of operation divided by reporting time period multiplied by 100). If < 80%, explain:
   87%
4. Average depth to groundwater: 21.53 ft

B. Building Basement/Subslab Venting System Operation

1. Number of venting points available and number of points actually in use during the period:
2. Number of days of operation (only list the number of days the system actually operated, if unknown explain):
3. System utilization in percent (days of operation divided by reporting time period multiplied by 100). If < 80%, explain:

C. Effectiveness Evaluation

1. Average contaminant removal rate for the entire system: 0.013 pounds per day
2. Average contaminant removal rate per well or venting point: 0.0015 pounds per day
3. If the average contaminant removal rate is less than one pound per day for the entire system, or if the average contaminant removal rate per well is less than one tenth of a pound per day, evaluate the following:
   a. If contaminants are aerobically biodegradable and confirmation borings have not been drilled in
      i. Oxygen levels in extracted air: percent
      ii. Methane levels in extracted air (ppm_V) If over 10 ppm_V, explain:
      iii. If methane is not present above 10 ppm_V and if oxygen is greater than 20 percent in extracted air, you should either:
      - Drill confirmation borings during the next reporting period, if the entire site should be considered for closure.
      - Or, perform an in situ respirometry test in a zone of high contamination. Do not perform the test in an air extraction well, use a gas probe or water table well. If a zero order rate of decay based on oxygen depletion is less than 2 mg/kg per day, then you should drill confirmation borings, if the entire site should be considered for closure. If the rate of decay is between 2 and 10 mg/kg, operate for one more reporting period before evaluating further. If the zero order rate of decay is greater than 10 mg/kg total hydrocarbons, continue operating the system in a manner than maximizes aerobic biodegradation.

   b. If contaminants are not aerobically biodegradable and confirmation borings have not been recently drilled during the past year, you should drill confirmation borings during the next reporting period if the entire site should be considered for closure.
   c. If soil borings were drilled during the past year and soil contamination remains above acceptable levels, explain if the system effectiveness can be increased and/or if other options need to be considered to achieve cleanup criteria.

D. Additional Attachments

Attach the following to this form:

- Well and soil sample location map indicating all air extraction wells. If forced air injection wells are also in use, identify those wells. Appendix E, Figure E-1
- If water table monitoring wells are present at the site, a map of well locations. Figure 2
- Time versus vapor phase contaminant concentration graph. Appendix A - Graph A.3 depicts concentration versus time for the combined GETS and SVE vapor.
- Time versus cumulative contaminant removal graph. Appendix E For SVE ONLY / SVE and GETS vapor is combined and sampled, see Appendix A, Graph A.3.
- Groundwater elevations table, if water table wells are present at the site; also list screen lengths and elevations. Table 17
- Table of soil contaminant chemistry data. N/A
- Soil gas data, if gas probes are used to monitor subsurface conditions in locations other than where air is extracted. Table 20
- System operational data table. Table 15

Section IS-2, Natural Attenuation (Passive Bioremediation) in Soil

N/A

A. Effectiveness Evaluation

1. Soil gas information in the soil that is most contaminated from a permanently installed gas probe(s) or water table monitoring well(s).
   a. Hydrocarbon levels: _____ ppm, with an FID
   b. Oxygen levels: _____ percent
   c. Carbon dioxide levels(specify ppm or percent): _____
   d. Methane levels: _____ ppm
2. Soil gas information in background (uncontaminated soil) from permanently installed gas probe(s)or water table monitoring well(s):
   a. Hydrocarbon levels: _____ ppm, with an FID
   b. Oxygen levels: _____ percent
   c. Carbon dioxide levels(specify ppm or percent): _____
   d. Methane levels: _____ ppm
3. List the results of the single boring that had the highest levels of soil contamination during the last round of soil sampling, and the date those samples were collected. Since soil borings are only drilled periodically, list the most recent data even if the data is prior to this reporting period. Since this data is used to assess progress based on the most recent soil sampling event, do not list data from prior sampling events.
   a. Total hydrocarbons (Specify if GRO and/or DRO): _____ µg/kg
   b. Specific compounds (µg/kg):
      i. Benzene: _____ µg/kg
      ii. 1,2 Dichloroethane: _____ µg/kg
      iii. Ethylbenzene: _____ µg/kg
      iv. Toluene: _____ µg/kg
      v. Total xylenes: _____ µg/kg
4. Is there any evidence that contaminants are leaching into groundwater? ◯ Yes ◯ No
   If the answer is yes and if groundwater quality is not being monitored, explain:
5. Is site closure a viable option within 12 months from the date of this form? ◯ Yes ◯ No
6. Are there any modifications that can be made to the remediation to improve cost effectiveness? ◯ Yes ◯ No
   If yes, explain:

B. Additional Attachments

Attach the following to this form:

- Well and soil sample location map.
- Cross sections showing the water table, soil sampling locations, screened intervals for gas probes or water table wells, geologic contacts, and any former excavation boundaries.
- Graphs of contaminant concentrations, oxygen, carbon dioxide and methane levels over time.
- Groundwater elevations table, if water table wells are present at the site.
- Table of soil contaminant chemistry.
- Table of soil gas readings.

Section IS-3, Other In Situ Soil Remediation Methods

N/A

A. Effectiveness Evaluation

1. Describe the method used to remediate soil at the site:

2. List all information required by the DNR for this remediation method for this site:

B. Additional Attachments

Attach the following to this form:

- Any other attachments required by the DNR for this remediation method.

Section ES-1, Ex Situ Soil Treatment Using Biopiles

N/A

A. Effectiveness Evaluation

1. Volume of soil in the biopile (if multiple biopiles, list number of piles and total volume):

2. Monitoring used to assess progress and verify optimal conditions for biodegradation.

   a. Vapor phase measurements of gases (average of all readings from most recent sampling event):

      i. VOCs by FID: _____ ppm

      ii. Oxygen: _____ percent

      iii. Carbon dioxide: _____ percent

      iv. Methane: _____ ppm

   b. Soil temperature: _____ °F

   c. Soil moisture sensors, if used: _____ percent

3. Treatment amendments added to the soil during construction:

   a. Artificial nutrients, excluding manure.

      i. Types and total pounds added:

      ii. Nitrogen and phosphorous content of the added amendment: _____ percent

   b. Manure: _____ total pounds

   c. Natural organic materials (straw, wood chips, etc.)(type and total pounds):

4. Forced air biopiles only answer the following:

   a. Total air flow rate of the ventilation system: _____ scfm

   b. Average contaminant removal rate: _____ pounds per day

   c. Average biodegradation rate based on oxygen utilization: _____ pounds per day

5. If soil samples have been taken to monitor progress, list results. Only list the most recent results. If none collected enter NA.

   a. Total hydrocarbons. Specify if GRO and/or DRO: _____ µg/kg

   b. Specific compounds (µg/kg):

      i. Benzene: _____ µg/kg

      ii. 1,2 Dichloroethane: _____ µg/kg

      iii. Ethylbenzene: _____ µg/kg

      iv. Toluene: _____ µg/kg

      v. Total xylenes: _____ µg/kg

B. Additional Attachments

Attach the following to this form:

- Figure showing the construction details of the biopile and any sampling locations within the biopile.
- Table of soil contaminant chemistry data.
- Table of operational data.

Section ES-2, Ex Situ Soil Treatment Using Landspreading/Thinspreading

N/A

A. Effectiveness Evaluation

1. Method used: ◯ landspreading ◯ thinspreading

Note: For purposes of this form, "landspreading" is the placement of contaminated soil on native topsoil, incorporation of that soil into the native soil and planting crops or other plants on it. The term "thinspreading" refers to placing contaminated soil on an impervious base for aeration.

2. Was any progress monitoring using field screening on soil conducted during this reporting period? ◯ Yes ◯ No

3. If the answer to A.2. (above) is yes:

i. List monitoring method:

ii. List monitoring results:

4. Is there any evidence of soil erosion at the landspreading/thinspreading location? ◯ Yes ◯ No

5. Spreading thickness: _____ inches

6. Type of crop planted (if thinspreading with no crop planted, so state):

7. Confirmation sampling date: _____ Anticipated confirmation sampling date: _____

8. Most recent soil sample results, if soil samples for laboratory analysis have been collected to monitor progress. Only list the highest result of the most recent sampling round. If no samples have been collected, enter NA.

a. Total hydrocarbons. Specify if GRO and/or DRO: _____ µg/kg

b. Specific compounds (µg/kg):

i. Benzene: _____ µg/kg

ii. 1,2 Dichloroethane: _____ µg/kg

iii. Ethylbenzene: _____ µg/kg

iv. Toluene: _____ µg/kg

v. Total xylenes: _____ µg/kg

B. Additional Attachments

Attach the following to this form:

- Map of the landspreading/thinspreading area. If soil samples have been collected, specify locations of samples and dates of sampling.
- Table of soil contaminant chemistry data.
- Table of any field screening results with dates of sample collection.

Section ES-3, Landfills

N/A

Note: Reporting forms or reporting requirements in a Department approved Operation and Maintenance Plan for a landfill may take the place of this form.

Specific Inspection Items	Potential Problem Areas	Status	Notes
Perimeter Security Fencing	Broken or missing wood slats, torn chain link fabric, barbed wire, other - list		
Entrance Gate and Locking Mechanism	Lock broken/missing, mechanism inoperative.		
Monitoring Wells and Wellhead Covers	Signs of tampering, casing damaged, lock missing.		
Final Cover Vegetation	Bare spots, stressed vegetation, deep rooted vegetation.		
Final Cover Slope (explain below)	Gullies, lack of vegetation, subsidence, ponding.		
Evidence of Burrowing Animals	Damage to final cover, evidence of waste.		
Stormwater Drainage Channels	Gullies, erosion, debris, culvert blocked.		
Passive Landfill Gas Venting System	Damaged or blocked vent risers, stressed vegetation.		
Active Landfill Gas Extraction System	Damaged or blocked piping, cleanouts, other blower flare, knockouts, etc.		
Leachate Collection System	Pumps, connection piping, collection system piping, extraction wells, collection tanks, tanker truck loading system or sanitary sewer discharge piping.		
Access Road Cover Mowing; Tall Vegetation Removal	Ponding, rutting, erosion, cracked or damaged pavement. Mowing and tall vegetation removal done to specified vegetation.		

Summary of Deficiencies and/or Corrective Actions:

B. Additional Attachments

N/A

Attach the following to this form:

- Any photographs documenting problems and maintenance activities.
- Maps, drawings showing site features requiring maintenance.
- Records for leachate pumping/discharge/hauling.
- Records for active gas extraction volumes.

Appendix C
December 2017 WPDES DMR Submittal (on CD)

Madison-Kipp MKC Corporation

January 12, 2018

Karl Knutson
Wisconsin Department of Natural Resources
South Central Region
3911 Fish Hatchery Rd.
Fitchburg, WI 53711

Subject: Discharge Monitoring Report - Groundwater Extraction and Treatment System, Madison-Kipp Corporation, 201 Waubesa Street, Madison, Wisconsin

Dear Mr. Knutson,

The Groundwater Extraction and Treatment System (GETS) ran for the month of December with the exception of maintenance activities. This letter summarizes the activities completed in December 2017 as part of the GETS at the Madison-Kipp Corporation (MKC) site under the Wisconsin Pollution Discharge Elimination System (WPDES) Permit WI-0046566-6.

The GETS flow rate was 40 gallons per minute (gpm) between December 15 and December 21, 2017 to avoid water extraction into the vapor phase activated carbon vessels while repairs to the soil vapor extraction (SVE) were completed. Otherwise the GETS flow rate was 45 gpm.

Compliance samples were collected for oil and grease, biological oxygen demand, total suspended solids, chloride, select polycyclic aromatic hydrocarbons, volatile organic compounds, and visual monitoring for sodium permanganate on December 8, 2017. The compliance sample results for the PAHs Group of 10 was above the WPDES discharge limit. TRC notified you of the exceedance upon review of the results on January 3, 2018, and based on the discussion additional sampling and monitoring of the system is being completed to further evaluate the system effluent.

As provided by email on January 9, 2018, the additional PAH monitoring completed on January 3, 2018 reported no exceedances of the WPDES discharge limit for the PAHs Group 10. Another effluent sample was collected on January 8, 2018 and TRC will provide the results when available, and discuss system operation and effluent results. The Discharge Monitoring Report for December 2017 is included as Attachment A and laboratory reports are included as Attachment B.

If you have any questions or need additional information, please contact me at msheppard@madison-kipp.com or (608) 242-5207.

Mark Sheppard

Madison-Kipp Corporation

Attachment A Discharge Monitoring Report Form
Attachment B Laboratory Reports

Copies:

Andrew Stehn - TRC (electronic)
Mike Schmoller - WDNR (electronic)
Wendy Weihemuller - WDNR (electronic)
George Parrino - Madison Department of Health (electronic)

Attachment A
Discharge Monitoring Report Form

DISCHARGE MONITORING REPORT FORM **Year:____2017_____**
Contaminated Groundwater from Remedial Action Operations - Surface Water Discharge
Permit No. WI-0046566-6 Rev. December16, 2013

Facility Name and Location
Madison Kipp Corporation
201 Waubesa St
Madison, WI 53704
Consultant Managing Project: TRC
FIN#:

Outfall # and Description		Flow (gal/day)	Oil & Grease (mg/L)	BOD_5 (mg/L)	Total BETX (µg/L)	PAHs group of 10 (µg/L)	Benzo(a) pyrene (µg/L)	Naphthalene (µg/L)	Sodium Permanganate (mg/L)	Benzene (µg/L)	TSS (mg/L)
Effluent	Month: December 8, 2017	57,600 - 64,800	2.3 J	<2.0	<0.40	0.41	<0.025	0.073 J	Absent	<0.15	2.0 J
	Month:										
	Month:										
	Month:										
See Footnotes		(4) (8)	(6)		(1)	(2) (9)		(6)	(3)		(6)
Effluent Limits (refer to sec. 4 of the permit)		--	10 mg/l	20 mg/L	750 µg/L	0.1 µg/l	0.1 µg/l	70 µg/l	--	50 µg/l	40 mg/L
Sample Frequency: Pre-treatment		Monthly	Quarterly	Quarterly	Monthly	Quarterly	Quarterly	Quarterly	Monthly	Monthly	Quarterly
Sample Frequency: Post-treatment		Monthly	Quarterly	Quarterly	Monthly	Quarterly	Quarterly	Quarterly	Monthly	Monthly	Quarterly
Sample Type		Estimate	Grab	Grab	Grab	Grab	Grab	Grab	Grab	Grab	Grab
Impaired or TMDL surface waters		Does this facility discharge a pollutant of concern to an impaired surface water or to a surface water with a TMDL allocation? ○ No ⊘ Yes									

Outfall # and Description		VOCs (µg/L)	Vinyl Chloride (µg/L)	trans-1,2-Dichloroethene (µg/L)	1,1-Dichloroethene (µg/L)	Tetrachloroethene (µg/L)	Chloride (mg/L)	cis-1,2-Dichloroethene (µg/L)	Trichloroethene (µg/L)	
Effluent	Month: December 8, 2017	48.7	<0.20	<0.35	<0.39	26	130	16	6.7	
	Month:									
	Month:									
	Month:									
See Footnotes		(4)		(4)				(4)		
Effluent Limits (refer to sec. 4 of the permit)		--	10 µg/L	--	50 µg/L	50 µg/L	395 mg/L	--	50 µg/L	
Sample Frequency: Pre-		Monthly	Monthly	Monthly	Monthly	Monthly	Quarterly	Monthly	Monthly	

treatment									
Sample Frequency: Post-treatment	Monthly	Monthly	Monthly	Monthly	Monthly	Quarterly	Monthly	Monthly	
Sample Type	Grab	Grab	Grab	Grab	Grab	Grab	Grab	Grab	

FOOTNOTES

(1) Total BETX is the sum of the benzene, ethylbenzene, toluene and xylene concentrations. If all compounds were below their corresponding laboratory detection limits, then the highest detection limit of the BTEX compounds was noted.
(2) PAH group of 10 (Polynuclear Aromatic Hydrocarbons) include the sum of the following individual compounds: benzo(a)anthracene, benzo(b)fluoranthene, benzo(g,h,i)perylene, benzo(k)fluoranthene, chrysene, dibenzo(a,h)anthracene, fluoranthene, indeno(1,2,3-cd)pyrene, phenanthrene, and pyrene. If all compounds were below their corresponding laboratory detection limits, then the highest detection limit of the PAH group compounds was noted.
(3) Madison-Kipp/TRC will conduct visual monitoring for this compound.
(4) No effluent limit is established, refer to section 4 of the permit.
(5) B = Compound was found in the blank and in the sample.
(6) J = Estimated value. Analyte detected at a level less than the reporting limit and greater than or equal to the detection limit.
(7) M = Matrix Spike and/or Matrix Spike Duplicate Recovery is outside acceptance limits.
(8) GETS operated at 40 gpm between December 15 and December 21, 2017.
(9) The WDNR was notified of the PAH Group 10 exceedance and additional monitoring is being completed.

DIRECTIONS

- For "Outfall # and Description" enter the number of the outfall you are reporting (001 or 002, etc.) and the source of wastewater, (petroleum contact, tank bottom water, scrap and waste storage area oily water, or secondary containment). Copy and use a new form for each outfall.
- Monitoring for a given parameter depends on if the discharge is to surface water or groundwater, and petroleum category.
- The value entered must be the highest value of all samples analyzed for that day.
- For each quarter, indicate the month monitoring occurred next to "Month"
  - Include as separate attachments to this form the annual reports for (a)waste oil and solids removed, and (b) tank bottom water disposal.

RETURN REPORT BY: **February 15, of the year following completion of monitoring**

RETURN TO **ATTN: Nicholas Bertolas**
Department of Natural Resources
3911 Fish Hatchery Rd.
Fitchburg, WI 53711

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fines and imprisonment. (40 CFR 122.5) I also certify that the values being submitted are the actual values found in the samples, no values have been modified or changed in any manner. Wherever I believe a value being reported is inaccurate, I have added an explanation indicating the reasons why the value is inaccurate.

Andrew M. Stek — 1-12-2018
Signature of Person Completing Form — Date

1-12-2018
Signature of Principal Exec. or Authorized Agent — Date

Attachment B
Laboratory Reports

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Chicago
2417 Bond Street
University Park, IL 60484
Tel: (708)534-5200

TestAmerica Job ID: 500-138419-1
Client Project/Site: MadisonKipp - GETS/SVE

For:
Madison-Kipp Corporation
201 Waubesa Street
Madison, Wisconsin 53704

Attn: Alina Satkoski

Sandie Fredrick

Authorized for release by:
12/13/2017 4:19:30 PM

Sandie Fredrick, Project Manager II
(920)261-1660
sandie.fredrick@testamericainc.com

Table of Contents

Job ID: 500-138419-1

Laboratory: TestAmerica Chicago

Narrative

Job Narrative
500-138419-1

Receipt
The samples were received on 12/9/2017 10:25 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 3.8º C.

Receipt Exceptions
COC has Influent sample at "10:45" and Effluent at "10:40", on the bottles times are switched. logged samples time per COC. Influent (500-138419-1), Effluent (500-138419-2) and Trip Blank (500-138419-3)

GC/MS VOA
Method(s) 624: The following sample was diluted to bring the concentration of target analytes within the calibration range: Influent (500-138419-1). Elevated reporting limits (RLs) are provided.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

General Chemistry
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Detection Summary

Client: Madison-Kipp Corporation
Project/Site: MadisonKipp - GETS/SVE

TestAmerica Job ID: 500-138419-1

Client Sample ID: Influent — Lab Sample ID: 500-138419-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	83		5.0	2.0	ug/L	5		624	Total/NA
Trichloroethene	130		2.5	0.82	ug/L	5		624	Total/NA
Tetrachloroethene - DL	1600		50	19	ug/L	50		624	Total/NA
HEM (Oil & Grease)	2.7	J	5.4	1.4	mg/L	1		1664B	Total/NA
Chloride	130		4.0	3.4	mg/L	20		300.0	Total/NA

Client Sample ID: Effluent — Lab Sample ID: 500-138419-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	16		1.0	0.41	ug/L	1		624	Total/NA
Tetrachloroethene	26		1.0	0.37	ug/L	1		624	Total/NA
Trichloroethene	6.7		0.50	0.16	ug/L	1		624	Total/NA
HEM (Oil & Grease)	2.3	J	5.5	1.4	mg/L	1		1664B	Total/NA
Chloride	130		4.0	3.4	mg/L	20		300.0	Total/NA
Total Suspended Solids	2.0	J	5.0	1.9	mg/L	1		SM 2540D	Total/NA

Client Sample ID: Trip Blank — Lab Sample ID: 500-138419-3

No Detections.

This Detection Summary does not include radiochemical test results.

Method Summary

Client: Madison-Kipp Corporation
Project/Site: MadisonKipp - GETS/SVE

TestAmerica Job ID: 500-138419-1

Method	Method Description	Protocol	Laboratory
624	Volatile Organic Compounds (GC/MS)	40CFR136A	TAL CHI
1664B	HEM and SGT-HEM	1664B	TAL CHI
300.0	Anions, Ion Chromatography	MCAWW	TAL CHI
SM 2540D	Solids, Total Suspended (TSS)	SM	TAL CHI

Protocol References:

1664B = 1664B

40CFR136A = "Methods for Organic Chemical Analysis of Municipal Industrial Wastewater", 40CFR, Part 136, Appendix A, October 26, 1984 and subsequent revisions.

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

SM = "Standard Methods For The Examination Of Water And Wastewater",

Laboratory References:

TAL CHI = TestAmerica Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

Sample Summary

Client: Madison-Kipp Corporation
Project/Site: MadisonKipp - GETS/SVE

TestAmerica Job ID: 500-138419-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-138419-1	Influent	Water	12/08/17 10:40	12/09/17 10:25
500-138419-2	Effluent	Water	12/08/17 10:45	12/09/17 10:25
500-138419-3	Trip Blank	Water	12/08/17 00:00	12/09/17 10:25

Client Sample ID: Influent

Date Collected: 12/08/17 10:40
Date Received: 12/09/17 10:25

Lab Sample ID: 500-138419-1

Matrix: Water

Method: 624 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.73		2.5	0.73	ug/L			12/13/17 11:51	5
Bromoform	<2.2		5.0	2.2	ug/L			12/13/17 11:51	5
Carbon tetrachloride	<1.9		5.0	1.9	ug/L			12/13/17 11:51	5
Chloroform	<1.9		10	1.9	ug/L			12/13/17 11:51	5
cis-1,2-Dichloroethene	**83**		5.0	2.0	ug/L			12/13/17 11:51	5
Dichlorobromomethane	<1.9		5.0	1.9	ug/L			12/13/17 11:51	5
1,2-Dichloroethane	<2.0		5.0	2.0	ug/L			12/13/17 11:51	5
1,1-Dichloroethene	<2.0		5.0	2.0	ug/L			12/13/17 11:51	5
Ethylbenzene	<0.92		2.5	0.92	ug/L			12/13/17 11:51	5
Methyl bromide	<3.2		10	3.2	ug/L			12/13/17 11:51	5
Methyl chloride	<1.6		5.0	1.6	ug/L			12/13/17 11:51	5
Methyl tert-butyl ether	<2.0		5.0	2.0	ug/L			12/13/17 11:51	5
1,1,2,2-Tetrachloroethane	<2.0		5.0	2.0	ug/L			12/13/17 11:51	5
Toluene	<0.76		2.5	0.76	ug/L			12/13/17 11:51	5
trans-1,2-Dichloroethene	<1.7		5.0	1.7	ug/L			12/13/17 11:51	5
1,1,1-Trichloroethane	<1.9		5.0	1.9	ug/L			12/13/17 11:51	5
1,1,2-Trichloroethane	<1.8		5.0	1.8	ug/L			12/13/17 11:51	5
Trichloroethene	**130**		2.5	0.82	ug/L			12/13/17 11:51	5
Vinyl chloride	<1.0		2.5	1.0	ug/L			12/13/17 11:51	5
Xylenes, Total	<2.0		5.0	2.0	ug/L			12/13/17 11:51	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*89*		*71 - 120*		*12/13/17 11:51*	*5*
1,2-Dichloroethane-d4 (Surr)	*106*		*71 - 127*		*12/13/17 11:51*	*5*
Toluene-d8 (Surr)	*92*		*75 - 120*		*12/13/17 11:51*	*5*

Method: 624 - Volatile Organic Compounds (GC/MS) - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrachloroethene	**1600**		50	19	ug/L			12/13/17 12:19	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*89*		*71 - 120*		*12/13/17 12:19*	*50*
1,2-Dichloroethane-d4 (Surr)	*107*		*71 - 127*		*12/13/17 12:19*	*50*
Toluene-d8 (Surr)	*90*		*75 - 120*		*12/13/17 12:19*	*50*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
HEM (Oil & Grease)	**2.7**	**J**	5.4	1.4	mg/L		12/11/17 11:01	12/11/17 14:30	1
Chloride	**130**		4.0	3.4	mg/L			12/13/17 12:48	20
Total Suspended Solids	<1.9		5.0	1.9	mg/L			12/12/17 11:15	1

Client Sample ID: Effluent

Date Collected: 12/08/17 10:45
Date Received: 12/09/17 10:25

Lab Sample ID: 500-138419-2

Matrix: Water

Method: 624 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.15		0.50	0.15	ug/L			12/13/17 12:45	1
Bromoform	<0.45		1.0	0.45	ug/L			12/13/17 12:45	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/L			12/13/17 12:45	1
Chloroform	<0.37		2.0	0.37	ug/L			12/13/17 12:45	1
cis-1,2-Dichloroethene	**16**		1.0	0.41	ug/L			12/13/17 12:45	1
Dichlorobromomethane	<0.37		1.0	0.37	ug/L			12/13/17 12:45	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/L			12/13/17 12:45	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/L			12/13/17 12:45	1
Ethylbenzene	<0.18		0.50	0.18	ug/L			12/13/17 12:45	1
Methyl bromide	<0.65		2.0	0.65	ug/L			12/13/17 12:45	1
Methyl chloride	<0.32		1.0	0.32	ug/L			12/13/17 12:45	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/L			12/13/17 12:45	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			12/13/17 12:45	1
Tetrachloroethene	**26**		1.0	0.37	ug/L			12/13/17 12:45	1
Toluene	<0.15		0.50	0.15	ug/L			12/13/17 12:45	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/L			12/13/17 12:45	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			12/13/17 12:45	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			12/13/17 12:45	1
Trichloroethene	**6.7**		0.50	0.16	ug/L			12/13/17 12:45	1
Vinyl chloride	<0.20		0.50	0.20	ug/L			12/13/17 12:45	1
Xylenes, Total	<0.40		1.0	0.40	ug/L			12/13/17 12:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*90*		*71 - 120*		*12/13/17 12:45*	*1*
1,2-Dichloroethane-d4 (Surr)	*106*		*71 - 127*		*12/13/17 12:45*	*1*
Toluene-d8 (Surr)	*93*		*75 - 120*		*12/13/17 12:45*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
HEM (Oil & Grease)	**2.3**	**J**	5.5	1.4	mg/L		12/11/17 11:11	12/11/17 14:30	1
Chloride	**130**		4.0	3.4	mg/L			12/13/17 13:00	20
Total Suspended Solids	**2.0**	**J**	5.0	1.9	mg/L			12/12/17 11:16	1

Client Sample ID: Trip Blank — **Lab Sample ID: 500-138419-3**
Date Collected: 12/08/17 00:00 — **Matrix: Water**
Date Received: 12/09/17 10:25

Method: 624 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.15		0.50	0.15	ug/L			12/13/17 11:24	1
Bromoform	<0.45		1.0	0.45	ug/L			12/13/17 11:24	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/L			12/13/17 11:24	1
Chloroform	<0.37		2.0	0.37	ug/L			12/13/17 11:24	1
cis-1,2-Dichloroethene	<0.41		1.0	0.41	ug/L			12/13/17 11:24	1
Dichlorobromomethane	<0.37		1.0	0.37	ug/L			12/13/17 11:24	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/L			12/13/17 11:24	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/L			12/13/17 11:24	1
Ethylbenzene	<0.18		0.50	0.18	ug/L			12/13/17 11:24	1
Methyl bromide	<0.65		2.0	0.65	ug/L			12/13/17 11:24	1
Methyl chloride	<0.32		1.0	0.32	ug/L			12/13/17 11:24	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/L			12/13/17 11:24	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			12/13/17 11:24	1
Tetrachloroethene	<0.37		1.0	0.37	ug/L			12/13/17 11:24	1
Toluene	<0.15		0.50	0.15	ug/L			12/13/17 11:24	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/L			12/13/17 11:24	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			12/13/17 11:24	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			12/13/17 11:24	1
Trichloroethene	<0.16		0.50	0.16	ug/L			12/13/17 11:24	1
Vinyl chloride	<0.20		0.50	0.20	ug/L			12/13/17 11:24	1
Xylenes, Total	<0.40		1.0	0.40	ug/L			12/13/17 11:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*89*		*71 - 120*		*12/13/17 11:24*	*1*
1,2-Dichloroethane-d4 (Surr)	*105*		*71 - 127*		*12/13/17 11:24*	*1*
Toluene-d8 (Surr)	*93*		*75 - 120*		*12/13/17 11:24*	*1*

Definitions/Glossary

Client: Madison-Kipp Corporation
Project/Site: MadisonKipp - GETS/SVE

TestAmerica Job ID: 500-138419-1

Qualifiers

General Chemistry

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

QC Association Summary

Client: Madison-Kipp Corporation
Project/Site: MadisonKipp - GETS/SVE

TestAmerica Job ID: 500-138419-1

GC/MS VOA

Analysis Batch: 413553

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-138419-1	Influent	Total/NA	Water	624	
500-138419-1 - DL	Influent	Total/NA	Water	624	
500-138419-2	Effluent	Total/NA	Water	624	
500-138419-3	Trip Blank	Total/NA	Water	624	
MB 500-413553/7	Method Blank	Total/NA	Water	624	
LCS 500-413553/5	Lab Control Sample	Total/NA	Water	624	

General Chemistry

Prep Batch: 413259

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-138419-1	Influent	Total/NA	Water	1664B	
500-138419-2	Effluent	Total/NA	Water	1664B	
MB 500-413259/1-A	Method Blank	Total/NA	Water	1664B	
LCS 500-413259/2-A	Lab Control Sample	Total/NA	Water	1664B	

Analysis Batch: 413260

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-138419-1	Influent	Total/NA	Water	1664B	413259
500-138419-2	Effluent	Total/NA	Water	1664B	413259
MB 500-413259/1-A	Method Blank	Total/NA	Water	1664B	413259
LCS 500-413259/2-A	Lab Control Sample	Total/NA	Water	1664B	413259

Analysis Batch: 413414

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-138419-1	Influent	Total/NA	Water	SM 2540D	
500-138419-2	Effluent	Total/NA	Water	SM 2540D	
MB 500-413414/1	Method Blank	Total/NA	Water	SM 2540D	
LCS 500-413414/2	Lab Control Sample	Total/NA	Water	SM 2540D	

Analysis Batch: 413638

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-138419-1	Influent	Total/NA	Water	300.0	
500-138419-2	Effluent	Total/NA	Water	300.0	
MB 500-413638/6	Method Blank	Total/NA	Water	300.0	
LCS 500-413638/7	Lab Control Sample	Total/NA	Water	300.0	

Surrogate Summary

Client: Madison-Kipp Corporation
Project/Site: MadisonKipp - GETS/SVE

TestAmerica Job ID: 500-138419-1

Method: 624 - Volatile Organic Compounds (GC/MS)

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)		
		BFB	DCA	TOL
Lab Sample ID	Client Sample ID	(71-120)	(71-127)	(75-120)
500-138419-1	Influent	89	106	92
500-138419-1 - DL	Influent	89	107	90
500-138419-2	Effluent	90	106	93
500-138419-3	Trip Blank	89	105	93
LCS 500-413553/5	Lab Control Sample	83	100	94
MB 500-413553/7	Method Blank	89	108	92

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)
DCA = 1,2-Dichloroethane-d4 (Surr)
TOL = Toluene-d8 (Surr)

Method: 624 - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 500-413553/7
Matrix: Water
Analysis Batch: 413553

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.15		0.50	0.15	ug/L			12/13/17 10:31	1
Bromoform	<0.45		1.0	0.45	ug/L			12/13/17 10:31	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/L			12/13/17 10:31	1
Chloroform	<0.37		2.0	0.37	ug/L			12/13/17 10:31	1
cis-1,2-Dichloroethene	<0.41		1.0	0.41	ug/L			12/13/17 10:31	1
Dichlorobromomethane	<0.37		1.0	0.37	ug/L			12/13/17 10:31	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/L			12/13/17 10:31	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/L			12/13/17 10:31	1
Ethylbenzene	<0.18		0.50	0.18	ug/L			12/13/17 10:31	1
Methyl bromide	<0.65		2.0	0.65	ug/L			12/13/17 10:31	1
Methyl chloride	<0.32		1.0	0.32	ug/L			12/13/17 10:31	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/L			12/13/17 10:31	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			12/13/17 10:31	1
Tetrachloroethene	<0.37		1.0	0.37	ug/L			12/13/17 10:31	1
Toluene	<0.15		0.50	0.15	ug/L			12/13/17 10:31	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/L			12/13/17 10:31	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			12/13/17 10:31	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			12/13/17 10:31	1
Trichloroethene	<0.16		0.50	0.16	ug/L			12/13/17 10:31	1
Vinyl chloride	<0.20		0.50	0.20	ug/L			12/13/17 10:31	1
Xylenes, Total	<0.40		1.0	0.40	ug/L			12/13/17 10:31	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*89*		*71 - 120*		*12/13/17 10:31*	*1*
1,2-Dichloroethane-d4 (Surr)	*108*		*71 - 127*		*12/13/17 10:31*	*1*
Toluene-d8 (Surr)	*92*		*75 - 120*		*12/13/17 10:31*	*1*

Lab Sample ID: LCS 500-413553/5
Matrix: Water
Analysis Batch: 413553

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	50.0	40.5		ug/L		81	37 - 151
Bromoform	50.0	48.0		ug/L		96	45 - 169
Carbon tetrachloride	50.0	42.8		ug/L		86	70 - 140
Chloroform	50.0	40.2		ug/L		80	51 - 138
cis-1,2-Dichloroethene	50.0	40.0		ug/L		80	70 - 130
Dichlorobromomethane	50.0	43.8		ug/L		88	35 - 155
1,2-Dichloroethane	50.0	46.1		ug/L		92	49 - 155
1,1-Dichloroethene	50.0	38.6		ug/L		77	10 - 234
Ethylbenzene	50.0	42.3		ug/L		85	37 - 162
Methyl bromide	50.0	39.9		ug/L		80	10 - 242
Methyl chloride	50.0	34.7		ug/L		69	10 - 273
m&p-Xylene	50.0	42.3		ug/L		85	
o-Xylene	50.0	42.4		ug/L		85	
1,1,2,2-Tetrachloroethane	50.0	39.2		ug/L		78	46 - 157
Tetrachloroethene	50.0	45.0		ug/L		90	64 - 148
Toluene	50.0	43.7		ug/L		87	47 - 150

Method: 624 - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 500-413553/5
Matrix: Water
Analysis Batch: 413553

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
trans-1,2-Dichloroethene	50.0	40.3		ug/L		81	54 - 156
1,1,1-Trichloroethane	50.0	42.6		ug/L		85	52 - 162
1,1,2-Trichloroethane	50.0	45.8		ug/L		92	52 - 150
Trichloroethene	50.0	40.9		ug/L		82	71 - 157
Vinyl chloride	50.0	37.8		ug/L		76	10 - 251

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*83*		*71 - 120*
1,2-Dichloroethane-d4 (Surr)	*100*		*71 - 127*
Toluene-d8 (Surr)	*94*		*75 - 120*

Method: 1664B - HEM and SGT-HEM

Lab Sample ID: MB 500-413259/1-A
Matrix: Water
Analysis Batch: 413260

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 413259

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
HEM (Oil & Grease)	<1.3		5.0	1.3	mg/L		12/11/17 10:30	12/11/17 14:30	1

Lab Sample ID: LCS 500-413259/2-A
Matrix: Water
Analysis Batch: 413260

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 413259

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
HEM (Oil & Grease)	40.0	38.30		mg/L		96	78 - 114

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 500-413638/6
Matrix: Water
Analysis Batch: 413638

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.17		0.20	0.17	mg/L			12/13/17 12:16	1

Lab Sample ID: LCS 500-413638/7
Matrix: Water
Analysis Batch: 413638

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	3.00	3.02		mg/L		101	90 - 110

Method: SM 2540D - Solids, Total Suspended (TSS)

Lab Sample ID: MB 500-413414/1
Matrix: Water
Analysis Batch: 413414

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	<1.9		5.0	1.9	mg/L			12/12/17 11:00	1

Lab Sample ID: LCS 500-413414/2
Matrix: Water
Analysis Batch: 413414

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Total Suspended Solids			200	208		mg/L		104	80 - 120		

Lab Chronicle

Client: Madison-Kipp Corporation
Project/Site: MadisonKipp - GETS/SVE

TestAmerica Job ID: 500-138419-1

Client Sample ID: Influent
Lab Sample ID: 500-138419-1
Date Collected: 12/08/17 10:40
Matrix: Water
Date Received: 12/09/17 10:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	624		5	413553	12/13/17 11:51	PMF	TAL CHI
Total/NA	Analysis	624	DL	50	413553	12/13/17 12:19	PMF	TAL CHI
Total/NA	Prep	1664B			413259	12/11/17 11:01	FJD	TAL CHI
Total/NA	Analysis	1664B		1	413260	12/11/17 14:30	FJD	TAL CHI
Total/NA	Analysis	300.0		20	413638	12/13/17 12:48	CCK	TAL CHI
Total/NA	Analysis	SM 2540D		1	413414		SMO	TAL CHI
					(Start)	12/12/17 11:15		
					(End)	12/12/17 11:16		

Client Sample ID: Effluent
Lab Sample ID: 500-138419-2
Date Collected: 12/08/17 10:45
Matrix: Water
Date Received: 12/09/17 10:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	624		1	413553	12/13/17 12:45	PMF	TAL CHI
Total/NA	Prep	1664B			413259	12/11/17 11:11	FJD	TAL CHI
Total/NA	Analysis	1664B		1	413260	12/11/17 14:30	FJD	TAL CHI
Total/NA	Analysis	300.0		20	413638	12/13/17 13:00	CCK	TAL CHI
Total/NA	Analysis	SM 2540D		1	413414		SMO	TAL CHI
					(Start)	12/12/17 11:16		
					(End)	12/12/17 11:18		

Client Sample ID: Trip Blank
Lab Sample ID: 500-138419-3
Date Collected: 12/08/17 00:00
Matrix: Water
Date Received: 12/09/17 10:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	624		1	413553	12/13/17 11:24	PMF	TAL CHI

Laboratory References:
TAL CHI = TestAmerica Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

Accreditation/Certification Summary

Client: Madison-Kipp Corporation
Project/Site: MadisonKipp - GETS/SVE

TestAmerica Job ID: 500-138419-1

Laboratory: TestAmerica Chicago

The accreditations/certifications listed below are applicable to this report.

Authority	Program	EPA Region	Identification Number	Expiration Date
Wisconsin	State Program	5	999580010	08-31-18

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

2417 Bond Street, University Park, IL 60484
Phone: 708.534.5200 Fax: 708.534.5211

Chain of Custody Record

Lab Job #: 500-138419

Chain of Custody Number:

Page 1 of 1

Temperature °C of Cooler: 3.8

Report To (optional)		Bill To (optional)	
Contact:	Alina Satkoski	Contact:	Accounts Payable
Company:	asatkoski@	Company:	MKC
Address:	madison-kipp.com	Address:	ap@madison-kipp.com
Address:	&	Address:	
Phone:	Andy Stehn	Phone:	
Fax:	AStehn@trcsolutions.com	Fax:	
E-Mail:		PO#/Reference#	106985

Client	Client Project #
MKC	
Project Name	
GETS	
Project Location/State	Lab Project #
Madison, WI	
Sampler	Lab PM
Alina Satkoski	Sandie Fredrick

Lab ID	MS/MSD	Sample ID	Sampling Date	Sampling Time	# of Containers	Matrix	Oil + Grease	BOD/TSS/Chloride	VOC	PAH					Comments
1		Influent	12/8/17	1040	9	W	X	X	X	X					for VOC see attached analyte list
2		Effluent	12/8/17	1045	9	W	X	X	X	X					
3		Trip Blank	—	—	1	W			X						

Preservative Key
1. HCL, Cool to 4°
2. H2SO4, Cool to 4°
3. HNO3, Cool to 4°
4. NaOH, Cool to 4°
5. NaOH/Zn, Cool to 4°
6. NaHSO4
7. Cool to 4°
8. None
9. Other

500-138419 COC

Turnaround Time Required (Business Days)
___ 1 Day X 2 Days ___ 5 Days ___ 7 Days ___ 10 Days ___ 15 Days _____ Other
Requested Due Date _____

Sample Disposal
☐ Return to Client ☐ Disposal by Lab ☐ Archive for _____ Months (A fee may be assessed if samples are retained longer than 1 month)

Relinquished By	Company	Date	Time	Received By	Company	Date	Time
Alina Satkoski	MKC	12/8/17	1200	[illegible]	TALLS	12/8/17	1025
						12/11/17	AS 12/11/17

Lab Courier
Shipped FX Saturday
Hand Delivered

Matrix Key
WW – Wastewater
W – Water
S – Soil
SL – Sludge
MS – Miscellaneous
OL – Oil
A – Air
SE – Sediment
SO – Soil
L – Leachate
WI – Wipe
DW – Drinking Water
O – Other

Client Comments

Lab Comments:
One influent VOC vial has iron debris - please do not use if possible

ORIGIN ID:MSNA (518) 265-7183
ALINA SATKOSKI
MADISON-KIPP CORPORATION
201 WAUBESA ST

MADISON, WI 53704
UNITED STATES US

SHIP DATE: 08DEC17
ACTWGT: 41.80 LB
CAD: 6991630/SSF01822
DIMS: 25x14x13 IN

BILL THIRD PARTY

TO **ATTN: SAMPLE LOGIN**
TEST AMERICA LABS
2417 BOND ST

UNIVERSITY PARK IL 60484
(708) 534-5200 REF:
INV:
PO: DEPT:

Part # 156297-434 RIT2 EXP 07/18

FedEx Express

E

J172117091301uv

REL# 3785346

SATURDAY 12:00P
PRIORITY OVERNIGHT

TRK# 0201 **7888 3544 4037**

AHS
60484
IL-US **ORD**

XO JOTA

FedEx Express

500-138419 Waybill

Login Sample Receipt Checklist

Client: Madison-Kipp Corporation

Job Number: 500-138419-1

Login Number: 138419
List Number: 1
Creator: Sanchez, Ariel M

List Source: TestAmerica Chicago

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	3.8
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

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ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Chicago
2417 Bond Street
University Park, IL 60484
Tel: (708)534-5200

TestAmerica Job ID: 500-138419-2
Client Project/Site: MadisonKipp - GETS/SVE

For:
Madison-Kipp Corporation
201 Waubesa Street
Madison, Wisconsin 53704

Attn: Alina Satkoski

Sandie Fredrick

Authorized for release by:
12/14/2017 4:03:42 PM

Sandie Fredrick, Project Manager II
(920)261-1660
sandie.fredrick@testamericainc.com

Table of Contents

Case Narrative

Client: Madison-Kipp Corporation
Project/Site: MadisonKipp - GETS/SVE

TestAmerica Job ID: 500-138419-2

Job ID: 500-138419-2

Laboratory: TestAmerica Chicago

Narrative

Job Narrative
500-138419-2

Comments
No additional comments.

Receipt
The samples were received on 12/9/2017 10:25 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 3.8º C.

Receipt Exceptions
COC has Influent sample at "10:45" and Effluent at "10:40", on the bottles times are switched. logged samples time per COC

Influent (500-138419-1), Effluent (500-138419-2) and Trip Blank (500-138419-3)

GC/MS Semi VOA
Method(s) 625 SIM: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with preparation batch 490-482648 and analytical batch 490-482841.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

General Chemistry
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Organic Prep
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Detection Summary

Client: Madison-Kipp Corporation
Project/Site: MadisonKipp - GETS/SVE

TestAmerica Job ID: 500-138419-2

Client Sample ID: Influent — Lab Sample ID: 500-138419-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[a]pyrene	0.056		0.045	0.022	ug/L	1		625 SIM	Total/NA
Benzo[b]fluoranthene	0.063		0.045	0.022	ug/L	1		625 SIM	Total/NA
Benzo[g,h,i]perylene	0.059	J	0.089	0.045	ug/L	1		625 SIM	Total/NA
Fluoranthene	0.087	J	0.089	0.045	ug/L	1		625 SIM	Total/NA
Indeno[1,2,3-cd]pyrene	0.044	J	0.045	0.022	ug/L	1		625 SIM	Total/NA
Naphthalene	0.054	J	0.089	0.045	ug/L	1		625 SIM	Total/NA
Phenanthrene	0.26		0.089	0.045	ug/L	1		625 SIM	Total/NA
Pyrene	0.052	J	0.089	0.045	ug/L	1		625 SIM	Total/NA

Client Sample ID: Effluent — Lab Sample ID: 500-138419-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Fluoranthene	0.058	J	0.10	0.050	ug/L	1		625 SIM	Total/NA
Naphthalene	0.073	J	0.10	0.050	ug/L	1		625 SIM	Total/NA
Phenanthrene	0.41		0.10	0.050	ug/L	1		625 SIM	Total/NA

This Detection Summary does not include radiochemical test results.

Method Summary

Client: Madison-Kipp Corporation
Project/Site: MadisonKipp - GETS/SVE

TestAmerica Job ID: 500-138419-2

Method	Method Description	Protocol	Laboratory
625 SIM	Semivolatile Organic Compounds GC/MS (SIM)	40CFR136A	TAL NSH
SM 5210B	BOD, 5-Day	SM	TAL CHI

Protocol References:

40CFR136A = "Methods for Organic Chemical Analysis of Municipal Industrial Wastewater", 40CFR, Part 136, Appendix A, October 26, 1984 and subsequent revisions.
SM = "Standard Methods For The Examination Of Water And Wastewater",

Laboratory References:

TAL CHI = TestAmerica Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

TAL NSH = TestAmerica Nashville, 2960 Foster Creighton Drive, Nashville, TN 37204, TEL (615)726-0177

Sample Summary

Client: Madison-Kipp Corporation
Project/Site: MadisonKipp - GETS/SVE

TestAmerica Job ID: 500-138419-2

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-138419-1	Influent	Water	12/08/17 10:40	12/09/17 10:25
500-138419-2	Effluent	Water	12/08/17 10:45	12/09/17 10:25

Client Sample ID: Influent

Date Collected: 12/08/17 10:40
Date Received: 12/09/17 10:25

Lab Sample ID: 500-138419-1

Matrix: Water

Method: 625 SIM - Semivolatile Organic Compounds GC/MS (SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]anthracene	<0.022		0.045	0.022	ug/L		12/12/17 16:28	12/13/17 13:50	1
Benzo[a]pyrene	**0.056**		0.045	0.022	ug/L		12/12/17 16:28	12/13/17 13:50	1
Benzo[b]fluoranthene	**0.063**		0.045	0.022	ug/L		12/12/17 16:28	12/13/17 13:50	1
Benzo[g,h,i]perylene	**0.059**	**J**	0.089	0.045	ug/L		12/12/17 16:28	12/13/17 13:50	1
Benzo[k]fluoranthene	<0.045		0.089	0.045	ug/L		12/12/17 16:28	12/13/17 13:50	1
Chrysene	<0.045		0.089	0.045	ug/L		12/12/17 16:28	12/13/17 13:50	1
Dibenz(a,h)anthracene	<0.022		0.045	0.022	ug/L		12/12/17 16:28	12/13/17 13:50	1
Fluoranthene	**0.087**	**J**	0.089	0.045	ug/L		12/12/17 16:28	12/13/17 13:50	1
Indeno[1,2,3-cd]pyrene	**0.044**	**J**	0.045	0.022	ug/L		12/12/17 16:28	12/13/17 13:50	1
Naphthalene	**0.054**	**J**	0.089	0.045	ug/L		12/12/17 16:28	12/13/17 13:50	1
Phenanthrene	**0.26**		0.089	0.045	ug/L		12/12/17 16:28	12/13/17 13:50	1
Pyrene	**0.052**	**J**	0.089	0.045	ug/L		12/12/17 16:28	12/13/17 13:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Nitrobenzene-d5	*58*		*27 - 120*	*12/12/17 16:28*	*12/13/17 13:50*	*1*
Terphenyl-d14	*75*		*13 - 120*	*12/12/17 16:28*	*12/13/17 13:50*	*1*
2-Fluorobiphenyl (Surr)	*54*		*10 - 120*	*12/12/17 16:28*	*12/13/17 13:50*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Biochemical Oxygen Demand	<2.0		2.0	2.0	mg/L			12/09/17 12:56	1

Client: Madison-Kipp Corporation
Project/Site: MadisonKipp - GETS/SVE

TestAmerica Job ID: 500-138419-2

Client Sample ID: Effluent
Date Collected: 12/08/17 10:45
Date Received: 12/09/17 10:25

Lab Sample ID: 500-138419-2
Matrix: Water

Method: 625 SIM - Semivolatile Organic Compounds GC/MS (SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]anthracene	<0.025		0.050	0.025	ug/L		12/12/17 16:28	12/13/17 14:10	1
Benzo[a]pyrene	<0.025		0.050	0.025	ug/L		12/12/17 16:28	12/13/17 14:10	1
Benzo[b]fluoranthene	<0.025		0.050	0.025	ug/L		12/12/17 16:28	12/13/17 14:10	1
Benzo[g,h,i]perylene	<0.050		0.10	0.050	ug/L		12/12/17 16:28	12/13/17 14:10	1
Benzo[k]fluoranthene	<0.050		0.10	0.050	ug/L		12/12/17 16:28	12/13/17 14:10	1
Chrysene	<0.050		0.10	0.050	ug/L		12/12/17 16:28	12/13/17 14:10	1
Dibenz(a,h)anthracene	<0.025		0.050	0.025	ug/L		12/12/17 16:28	12/13/17 14:10	1
Fluoranthene	**0.058**	**J**	0.10	0.050	ug/L		12/12/17 16:28	12/13/17 14:10	1
Indeno[1,2,3-cd]pyrene	<0.025		0.050	0.025	ug/L		12/12/17 16:28	12/13/17 14:10	1
Naphthalene	**0.073**	**J**	0.10	0.050	ug/L		12/12/17 16:28	12/13/17 14:10	1
Phenanthrene	**0.41**		0.10	0.050	ug/L		12/12/17 16:28	12/13/17 14:10	1
Pyrene	<0.050		0.10	0.050	ug/L		12/12/17 16:28	12/13/17 14:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Nitrobenzene-d5	*62*		*27 - 120*	*12/12/17 16:28*	*12/13/17 14:10*	*1*
Terphenyl-d14	*83*		*13 - 120*	*12/12/17 16:28*	*12/13/17 14:10*	*1*
2-Fluorobiphenyl (Surr)	*58*		*10 - 120*	*12/12/17 16:28*	*12/13/17 14:10*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Biochemical Oxygen Demand	<2.0		2.0	2.0	mg/L			12/09/17 13:00	1

Definitions/Glossary

Client: Madison-Kipp Corporation
Project/Site: MadisonKipp - GETS/SVE

TestAmerica Job ID: 500-138419-2

Qualifiers

GC/MS Semi VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

QC Association Summary

Client: Madison-Kipp Corporation
Project/Site: MadisonKipp - GETS/SVE

TestAmerica Job ID: 500-138419-2

GC/MS Semi VOA

Prep Batch: 482648

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-138419-1	Influent	Total/NA	Water	625	
500-138419-2	Effluent	Total/NA	Water	625	
MB 490-482648/1-A	Method Blank	Total/NA	Water	625	
LCS 490-482648/2-A	Lab Control Sample	Total/NA	Water	625	
LCSD 490-482648/3-A	Lab Control Sample Dup	Total/NA	Water	625	

Analysis Batch: 482841

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-138419-1	Influent	Total/NA	Water	625 SIM	482648
500-138419-2	Effluent	Total/NA	Water	625 SIM	482648
MB 490-482648/1-A	Method Blank	Total/NA	Water	625 SIM	482648
LCS 490-482648/2-A	Lab Control Sample	Total/NA	Water	625 SIM	482648
LCSD 490-482648/3-A	Lab Control Sample Dup	Total/NA	Water	625 SIM	482648

General Chemistry

Analysis Batch: 413157

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-138419-1	Influent	Total/NA	Water	SM 5210B	
500-138419-2	Effluent	Total/NA	Water	SM 5210B	
USB 500-413157/1	Method Blank	Total/NA	Water	SM 5210B	
LCS 500-413157/2	Lab Control Sample	Total/NA	Water	SM 5210B	

Surrogate Summary

Client: Madison-Kipp Corporation
Project/Site: MadisonKipp - GETS/SVE

TestAmerica Job ID: 500-138419-2

Method: 625 SIM - Semivolatile Organic Compounds GC/MS (SIM)

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)		
		NBZ	TPHL	FBP
Lab Sample ID	Client Sample ID	(27-120)	(13-120)	(10-120)
500-138419-1	Influent	58	75	54
500-138419-2	Effluent	62	83	58
LCS 490-482648/2-A	Lab Control Sample	67	81	64
LCSD 490-482648/3-A	Lab Control Sample Dup	78	91	77
MB 490-482648/1-A	Method Blank	67	89	64

Surrogate Legend

NBZ = Nitrobenzene-d5
TPHL = Terphenyl-d14
FBP = 2-Fluorobiphenyl (Surr)

Method: 625 SIM - Semivolatile Organic Compounds GC/MS (SIM)

Lab Sample ID: MB 490-482648/1-A
Matrix: Water
Analysis Batch: 482841

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 482648

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]anthracene	<0.025		0.050	0.025	ug/L		12/12/17 13:12	12/13/17 12:29	1
Benzo[a]pyrene	<0.025		0.050	0.025	ug/L		12/12/17 13:12	12/13/17 12:29	1
Benzo[b]fluoranthene	<0.025		0.050	0.025	ug/L		12/12/17 13:12	12/13/17 12:29	1
Benzo[g,h,i]perylene	<0.050		0.10	0.050	ug/L		12/12/17 13:12	12/13/17 12:29	1
Benzo[k]fluoranthene	<0.050		0.10	0.050	ug/L		12/12/17 13:12	12/13/17 12:29	1
Chrysene	<0.050		0.10	0.050	ug/L		12/12/17 13:12	12/13/17 12:29	1
Dibenz(a,h)anthracene	<0.025		0.050	0.025	ug/L		12/12/17 13:12	12/13/17 12:29	1
Fluoranthene	<0.050		0.10	0.050	ug/L		12/12/17 13:12	12/13/17 12:29	1
Indeno[1,2,3-cd]pyrene	<0.025		0.050	0.025	ug/L		12/12/17 13:12	12/13/17 12:29	1
Naphthalene	<0.050		0.10	0.050	ug/L		12/12/17 13:12	12/13/17 12:29	1
Phenanthrene	<0.050		0.10	0.050	ug/L		12/12/17 13:12	12/13/17 12:29	1
Pyrene	<0.050		0.10	0.050	ug/L		12/12/17 13:12	12/13/17 12:29	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Nitrobenzene-d5	*67*		*27 - 120*	*12/12/17 13:12*	*12/13/17 12:29*	*1*
Terphenyl-d14	*89*		*13 - 120*	*12/12/17 13:12*	*12/13/17 12:29*	*1*
2-Fluorobiphenyl (Surr)	*64*		*10 - 120*	*12/12/17 13:12*	*12/13/17 12:29*	*1*

Lab Sample ID: LCS 490-482648/2-A
Matrix: Water
Analysis Batch: 482841

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 482648

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzo[a]anthracene	40.0	30.7		ug/L		77	33 - 143
Benzo[a]pyrene	40.0	26.4		ug/L		66	17 - 163
Benzo[b]fluoranthene	40.0	31.5		ug/L		79	24 - 159
Benzo[g,h,i]perylene	40.0	30.0		ug/L		75	10 - 219
Benzo[k]fluoranthene	40.0	26.0		ug/L		65	11 - 162
Chrysene	40.0	31.3		ug/L		78	17 - 168
Dibenz(a,h)anthracene	40.0	30.0		ug/L		75	10 - 227
Fluoranthene	40.0	28.1		ug/L		70	26 - 137
Indeno[1,2,3-cd]pyrene	40.0	30.4		ug/L		76	10 - 171
Naphthalene	40.0	28.7		ug/L		72	21 - 133
Phenanthrene	40.0	29.4		ug/L		74	54 - 120
Pyrene	40.0	33.2		ug/L		83	52 - 115

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Nitrobenzene-d5	*67*		*27 - 120*
Terphenyl-d14	*81*		*13 - 120*
2-Fluorobiphenyl (Surr)	*64*		*10 - 120*

Lab Sample ID: LCSD 490-482648/3-A
Matrix: Water
Analysis Batch: 482841

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 482648

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzo[a]anthracene	40.0	33.4		ug/L		84	33 - 143	8	30

Method: 625 SIM - Semivolatile Organic Compounds GC/MS (SIM) (Continued)

Lab Sample ID: LCSD 490-482648/3-A
Matrix: Water
Analysis Batch: 482841

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 482648

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzo[a]pyrene			40.0	28.1		ug/L		70	17 - 163	6	30
Benzo[b]fluoranthene			40.0	36.0		ug/L		90	24 - 159	13	30
Benzo[g,h,i]perylene			40.0	32.0		ug/L		80	10 - 219	6	30
Benzo[k]fluoranthene			40.0	26.5		ug/L		66	11 - 162	2	30
Chrysene			40.0	34.1		ug/L		85	17 - 168	8	30
Dibenz(a,h)anthracene			40.0	31.6		ug/L		79	10 - 227	5	30
Fluoranthene			40.0	31.4		ug/L		78	26 - 137	11	30
Indeno[1,2,3-cd]pyrene			40.0	32.2		ug/L		81	10 - 171	6	30
Naphthalene			40.0	29.2		ug/L		73	21 - 133	2	30
Phenanthrene			40.0	31.7		ug/L		79	54 - 120	7	30
Pyrene			40.0	36.4		ug/L		91	52 - 115	9	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Nitrobenzene-d5	*78*		*27 - 120*
Terphenyl-d14	*91*		*13 - 120*
2-Fluorobiphenyl (Surr)	*77*		*10 - 120*

Method: SM 5210B - BOD, 5-Day

Lab Sample ID: USB 500-413157/1
Matrix: Water
Analysis Batch: 413157

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	USB Result	USB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Biochemical Oxygen Demand	<2.0		2.0	2.0	mg/L			12/09/17 12:44	1

Lab Sample ID: LCS 500-413157/2
Matrix: Water
Analysis Batch: 413157

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Biochemical Oxygen Demand			198	175		mg/L		88	85 - 115

Lab Chronicle

Client: Madison-Kipp Corporation
Project/Site: MadisonKipp - GETS/SVE

TestAmerica Job ID: 500-138419-2

Client Sample ID: Influent

Lab Sample ID: 500-138419-1

Date Collected: 12/08/17 10:40

Matrix: Water

Date Received: 12/09/17 10:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	625			482648	12/12/17 16:28	KB	TAL NSH
Total/NA	Analysis	625 SIM		1	482841	12/13/17 13:50	T1C	TAL NSH
Total/NA	Analysis	SM 5210B		1	413157		SSN	TAL CHI
					(Start)	12/09/17 12:56		
					(End)	12/09/17 13:00		

Client Sample ID: Effluent

Lab Sample ID: 500-138419-2

Date Collected: 12/08/17 10:45

Matrix: Water

Date Received: 12/09/17 10:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	625			482648	12/12/17 16:28	KB	TAL NSH
Total/NA	Analysis	625 SIM		1	482841	12/13/17 14:10	T1C	TAL NSH
Total/NA	Analysis	SM 5210B		1	413157		SSN	TAL CHI
					(Start)	12/09/17 13:00		
					(End)	12/09/17 13:04		

Laboratory References:

TAL CHI = TestAmerica Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

TAL NSH = TestAmerica Nashville, 2960 Foster Creighton Drive, Nashville, TN 37204, TEL (615)726-0177

Accreditation/Certification Summary

Client: Madison-Kipp Corporation
Project/Site: MadisonKipp - GETS/SVE

TestAmerica Job ID: 500-138419-2

Laboratory: TestAmerica Chicago

The accreditations/certifications listed below are applicable to this report.

Authority	Program	EPA Region	Identification Number	Expiration Date
Wisconsin	State Program	5	999580010	08-31-18

Laboratory: TestAmerica Nashville

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	EPA Region	Identification Number	Expiration Date
A2LA	A2LA		NA: NELAP & A2LA	12-31-17 *
A2LA	ISO/IEC 17025		0453.07	12-31-17 *
Alaska (UST)	State Program	10	UST-087	01-01-18 *
Arizona	State Program	9	AZ0473	05-05-18
Arkansas DEQ	State Program	6	88-0737	04-25-18
California	State Program	9	2938	10-31-18
Connecticut	State Program	1	PH-0220	12-31-17 *
Florida	NELAP	4	E87358	06-30-18
Georgia	State Program	4	E87358(FL)/453.07(A2LA)	06-30-18
Illinois	NELAP	5	200010	12-09-18
Iowa	State Program	7	131	04-01-18
Kansas	NELAP	7	E-10229	12-31-17 *
Kentucky (UST)	State Program	4	19	06-30-18
Kentucky (WW)	State Program	4	90038	12-31-17 *
Louisiana	NELAP	6	30613	06-30-18
Maine	State Program	1	TN00032	11-03-19
Maryland	State Program	3	316	03-31-18
Massachusetts	State Program	1	M-TN032	06-30-18
Minnesota	NELAP	5	047-999-345	12-31-17 *
Mississippi	State Program	4	N/A	06-30-18
Montana (UST)	State Program	8	NA	02-24-20
Nevada	State Program	9	TN00032	07-31-18
New Hampshire	NELAP	1	2963	10-09-18
New Jersey	NELAP	2	TN965	06-30-18
New York	NELAP	2	11342	03-31-18
North Carolina (WW/SW)	State Program	4	387	12-31-17 *
North Dakota	State Program	8	R-146	06-30-18
Ohio VAP	State Program	5	CL0033	07-06-19
Oklahoma	State Program	6	9412	08-31-18
Oregon	NELAP	10	TN200001	04-27-18
Pennsylvania	NELAP	3	68-00585	06-30-18
Rhode Island	State Program	1	LAO00268	12-30-17 *
South Carolina	State Program	4	84009 (001)	02-28-18
South Carolina (Do Not Use - DW)	State Program	4	84009 (002)	12-16-17
Tennessee	State Program	4	2008	02-23-20
Texas	NELAP	6	T104704077	08-31-18
USDA	Federal		P330-13-00306	12-01-19
Utah	NELAP	8	TN00032	07-31-18
Virginia	NELAP	3	460152	06-14-18
Washington	State Program	10	C789	07-19-18
West Virginia DEP	State Program	3	219	02-28-18
Wisconsin	State Program	5	998020430	08-31-18
Wyoming (UST)	A2LA	8	453.07	12-31-19

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

2417 Bond Street, University Park, IL 60484
Phone: 708.534.5200 Fax: 708.534.5211

(optional)
Report To
Contact: Alina Satkoski
Company: asatkoski@madison-kipp.com
Address: &
Address:
Phone: Andy Stehn
Fax: AStehn@trcsolutions.com
E-Mail:

(optional)
Bill To
Contact: Accounts Payable
Company: MKC
Address: ap@madison-kipp.com
Address:
Phone:
Fax:
PO#/Reference# 106985

Chain of Custody Record

Lab Job #: 500-138419
Chain of Custody Number:
Page 1 of 1
Temperature °C of Cooler: 3.8

Client: MKC
Client Project #:
Project Name: GETS
Project Location/State: Madison, WI
Lab Project #:
Sampler: Alina Satkoski
Lab PM: Sandie Fredrick

Lab ID	MS/MSD	Sample ID	Sampling Date	Sampling Time	# of Containers	Matrix	Oil + Grease	BOD/TSS/Chloride	VOC	PAH					Comments
1		Influent	12/8/17	1040	9	W	X	X	X	X					for VOC see attached analyte list
2		Effluent	12/8/17	1045	9	W	X	X	X	X					
3		Trip Blank	—	—	1	W			X						

Preservative Key
1. HCL, Cool to 4°
2. H2SO4, Cool to 4°
3. HNO3, Cool to 4°
4. NaOH, Cool to 4°
5. NaOH/Zn, Cool to 4°
6. NaHSO4
7. Cool to 4°
8. None
9. Other

500-138419 COC

Turnaround Time Required (Business Days)
___ 1 Day X 2 Days ___ 5 Days ___ 7 Days ___ 10 Days ___ 15 Days _____ Other
Requested Due Date _____

Sample Disposal
☐ Return to Client ☐ Disposal by Lab ☐ Archive for _____ Months (A fee may be assessed if samples are retained longer than 1 month)

Relinquished By	Company	Date	Time	Received By	Company	Date	Time
Alina Satkoski	MKC	12/8/17	1200	[illegible]	TALLE	12/8/17	1025
						12/11/17	AS 12/11/17

Lab Courier:
Shipped: FX Saturday
Hand Delivered:

Matrix Key
WW – Wastewater
W – Water
S – Soil
SL – Sludge
MS – Miscellaneous
OL – Oil
A – Air
SE – Sediment
SO – Soil
L – Leachate
WI – Wipe
DW – Drinking Water
O – Other

Client Comments:

Lab Comments:
One influent VOC vial has iron debris - please do not use if possible

ORIGIN ID:MSNA (518) 265-7183
ALINA SATKOSKI
MADISON-KIPP CORPORATION
201 WAUBESA ST

MADISON, WI 53704
UNITED STATES US

SHIP DATE: 08DEC17
ACTWGT: 41.80 LB
CAD: 6991630/SSF01822
DIMS: 25x14x13 IN

BILL THIRD PARTY

TO **ATTN: SAMPLE LOGIN**
TEST AMERICA LABS
2417 BOND ST

UNIVERSITY PARK IL 60484
(708) 534-5200 REF:
INV:
PO: DEPT:

FedEx
Express

E

J172117091301uv

REL#
3785346

SATURDAY 12:00P
PRIORITY OVERNIGHT

TRK# 0201 **7888 3544 4037**

AHS
60484
IL-US **ORD**

XO JOTA

FedEx Express

500-138419 Waybill

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
Nashville, TN

COOLER RECEIPT FORM

500-138419 Chain of Custody

Cooler Received/Opened On 12/12/17 0955

Time Samples Removed From Cooler 13:34 Time Samples Placed In Storage 17:30 (2 Hour Window)

1. Tracking # 3920 (last 4 digits, FedEx) Courier: FedEx

IR Gun ID 31470368 pH Strip Lot _____ Chlorine Strip Lot _____

2. Temperature of rep. sample or temp blank when opened: 3.2 *Degrees Celsius*

3. If Item #2 temperature is 0°C or less, was the representative sample or temp blank frozen? YES NO...(NA)

4. Were custody seals on outside of cooler? (YES)...NO...NA

If yes, how many and where: 2 front / back

5. Were the seals intact, signed, and dated correctly? (YES)...NO...NA

6. Were custody papers inside cooler? (YES)...NO...NA

I certify that I opened the cooler and answered questions 1-6 (intial) KRB

7. Were custody seals on containers: YES (NO) and Intact YES...NO...(NA)

Were these signed and dated correctly? YES...NO...(NA)

8. Packing mat'l used? (Bubblewrap) Plastic bag Peanuts Vermiculite Foam Insert Paper Other None

9. Cooling process: (Ice) Ice-pack Ice (direct contact) Dry ice Other None

10. Did all containers arrive in good condition (unbroken)? (YES)...NO...NA

11. Were all container labels complete (#, date, signed, pres., etc)? (YES)...NO...NA

12. Did all container labels and tags agree with custody papers? (YES)...NO...NA

13a. Were VOA vials received? YES...(NO)...NA

b. Was there any observable headspace present in any VOA vial? YES...NO...(NA)

● ⬅ Larger than this.

14. Was there a Trip Blank in this cooler? YES...(NO)...NA If multiple coolers, sequence # _____

I certify that I unloaded the cooler and answered questions 7-14 (intial) J.J

15a. On pres'd bottles, did pH test strips suggest preservation reached the correct pH level? YES...NO...(NA)

b. Did the bottle labels indicate that the correct preservatives were used (YES)...NO...NA

16. Was residual chlorine present? YES...NO...(NA)

I certify that I checked for chlorine and pH as per SOP and answered questions 15-16 (intial) J.J

17. Were custody papers properly filled out (ink, signed, etc)? (YES)...NO...NA

18. Did you sign the custody papers in the appropriate place? (YES)...NO...NA

19. Were correct containers used for the analysis requested? (YES)...NO...NA

20. Was sufficient amount of sample sent in each container? (YES)...NO...NA

I certify that I entered this project into LIMS and answered questions 17-20 (intial) J.J

I certify that I attached a label with the unique LIMS number to each container (intial) J.J

21. Were there Non-Conformance issues at login? YES...(NO) Was a NCM generated? YES...(NO)...#_____

BIS = Broken in shipment
Cooler Receipt Form.doc

LF-1
End of Form

Revised 8/23/17

Loc: 500
138419

TestAmerica Chicago
2417 Bond Street
University Park, IL 60484
Phone (708) 534-5200 Fax (708) 534-5211

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Fredrick, Sandie J	):	COC No: 500-97545.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: sandie.fredrick@testamericainc.com	State of Origin: Wisconsin	Page: Page 1 of 1
Company: TestAmerica Laboratories, Inc		Accreditations Required (See note): State Program - Wisconsin		Job #: 500-138419-2
Address: 2960 Foster Creighton Drive, ,	Due Date Requested: 12/14/2017			
City: Nashville	TAT Requested (days):			
State, Zip: TN, 37204				
Phone: 615-726-0177(Tel) 615-726-3404(Fax)	PO #:			
Email:	WO #:			
Project Name: MadisonKipp - GETS/SVE	Project #: 50009145			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	625_SIM/625_Prep_LVI (MOD) Single compound	Total Number of containers	Special Instructions/Note:
			Preservation Code:						
Influent (500-138419-1)	12/8/17	10:40 Central		Water			X	2	
Effluent (500-138419-2)	12/8/17	10:45 Central		Water			X	2	

Note: Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc. places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to TestAmerica Laboratories, Inc. attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said complicance to TestAmerica Laboratories, Inc.

Possible Hazard Identification *Unconfirmed*	***Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*** ☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:		Date:		Time:	Method of Shipment:	
Relinquished by:	Date/Time: 12/11/17 @ 1630	Company TA	Received by:	Date/Time: 12/12/17 09:55	Company TAL	
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company	
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company	
Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:		Cooler Temperature(s) °C and Other Remarks: 3.2			

Ver: 09/20/2016

Login Sample Receipt Checklist

Client: Madison-Kipp Corporation

Job Number: 500-138419-2

Login Number: 138419
List Number: 1
Creator: Sanchez, Ariel M

List Source: TestAmerica Chicago

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	3.8
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Nashville
2960 Foster Creighton Drive
Nashville, TN 37204
Tel: (615)726-0177

TestAmerica Job ID: 490-144103-1
Client Project/Site: MadisonKipp - GETS 292257

For:
TRC Environmental Corporation.
708 Heartland Trail
Suite 3000
Madison, Wisconsin 53717

Attn: Andrew Stehn

Sandie Fredrick

Authorized for release by:
1/8/2018 3:46:47 PM

Sandie Fredrick, Project Manager II
(920)261-1660
sandie.fredrick@testamericainc.com

Table of Contents

Sample Summary

Client: TRC Environmental Corporation.
Project/Site: MadisonKipp - GETS 292257

TestAmerica Job ID: 490-144103-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
490-144103-1	INFLUENT	Wastewater	01/03/18 13:30	01/05/18 10:05
490-144103-2	EFFLUENT	Wastewater	01/03/18 13:20	01/05/18 10:05

Job ID: 490-144103-1

Laboratory: TestAmerica Nashville

Narrative

Job Narrative
490-144103-1

Comments
No additional comments.

Receipt
The samples were received on 1/5/2018 10:05 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 2.8º C.

GC/MS Semi VOA
Method(s) 625 SIM: The method blank for preparation batch 490-487817 and analytical batch 490-487752 contained Indeno[1,2,3-cd]pyrene, Benzo[b]fluoranthene, Benzo[a]pyrene and Benzo[g,h,i]perylene above the method detection limit. This target analyte concentration was less than half the reporting limit (1/2RL); therefore, re-extraction of samples was not performed.

Method(s) 625 SIM: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with preparation batch 490-487817 and analytical batch 490-487752.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Organic Prep
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Definitions/Glossary

Client: TRC Environmental Corporation.
Project/Site: MadisonKipp - GETS 292257

TestAmerica Job ID: 490-144103-1

Qualifiers

GC/MS Semi VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Client: TRC Environmental Corporation.
Project/Site: MadisonKipp - GETS 292257

TestAmerica Job ID: 490-144103-1

Client Sample ID: INFLUENT
Date Collected: 01/03/18 13:30
Date Received: 01/05/18 10:05

Lab Sample ID: 490-144103-1
Matrix: Wastewater

Method: 625 SIM - Semivolatile Organic Compounds GC/MS (SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]anthracene	<0.019		0.094	0.019	ug/L		01/05/18 12:43	01/05/18 19:34	1
Benzo[a]pyrene	<0.019		0.094	0.019	ug/L		01/05/18 12:43	01/05/18 19:34	1
Benzo[b]fluoranthene	<0.019		0.094	0.019	ug/L		01/05/18 12:43	01/05/18 19:34	1
Benzo[g,h,i]perylene	<0.019		0.094	0.019	ug/L		01/05/18 12:43	01/05/18 19:34	1
Benzo[k]fluoranthene	<0.019		0.094	0.019	ug/L		01/05/18 12:43	01/05/18 19:34	1
Chrysene	<0.019		0.094	0.019	ug/L		01/05/18 12:43	01/05/18 19:34	1
Dibenz(a,h)anthracene	<0.019		0.094	0.019	ug/L		01/05/18 12:43	01/05/18 19:34	1
Fluoranthene	<0.028		0.094	0.028	ug/L		01/05/18 12:43	01/05/18 19:34	1
Indeno[1,2,3-cd]pyrene	<0.019		0.094	0.019	ug/L		01/05/18 12:43	01/05/18 19:34	1
Naphthalene	<0.019		0.094	0.019	ug/L		01/05/18 12:43	01/05/18 19:34	1
Phenanthrene	<0.028		0.094	0.028	ug/L		01/05/18 12:43	01/05/18 19:34	1
Pyrene	<0.019		0.094	0.019	ug/L		01/05/18 12:43	01/05/18 19:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*59*		*10 - 120*	*01/05/18 12:43*	*01/05/18 19:34*	*1*
Nitrobenzene-d5	*66*		*27 - 120*	*01/05/18 12:43*	*01/05/18 19:34*	*1*
Terphenyl-d14	*95*		*13 - 120*	*01/05/18 12:43*	*01/05/18 19:34*	*1*

Client: TRC Environmental Corporation.
Project/Site: MadisonKipp - GETS 292257

TestAmerica Job ID: 490-144103-1

Client Sample ID: EFFLUENT
Date Collected: 01/03/18 13:20
Date Received: 01/05/18 10:05

Lab Sample ID: 490-144103-2
Matrix: Wastewater

Method: 625 SIM - Semivolatile Organic Compounds GC/MS (SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]anthracene	<0.019		0.093	0.019	ug/L		01/05/18 12:43	01/05/18 19:54	1
Benzo[a]pyrene	<0.019		0.093	0.019	ug/L		01/05/18 12:43	01/05/18 19:54	1
Benzo[b]fluoranthene	<0.019		0.093	0.019	ug/L		01/05/18 12:43	01/05/18 19:54	1
Benzo[g,h,i]perylene	<0.019		0.093	0.019	ug/L		01/05/18 12:43	01/05/18 19:54	1
Benzo[k]fluoranthene	<0.019		0.093	0.019	ug/L		01/05/18 12:43	01/05/18 19:54	1
Chrysene	<0.019		0.093	0.019	ug/L		01/05/18 12:43	01/05/18 19:54	1
Dibenz(a,h)anthracene	<0.019		0.093	0.019	ug/L		01/05/18 12:43	01/05/18 19:54	1
Fluoranthene	<0.028		0.093	0.028	ug/L		01/05/18 12:43	01/05/18 19:54	1
Indeno[1,2,3-cd]pyrene	<0.019		0.093	0.019	ug/L		01/05/18 12:43	01/05/18 19:54	1
Naphthalene	<0.019		0.093	0.019	ug/L		01/05/18 12:43	01/05/18 19:54	1
Phenanthrene	<0.028		0.093	0.028	ug/L		01/05/18 12:43	01/05/18 19:54	1
Pyrene	<0.019		0.093	0.019	ug/L		01/05/18 12:43	01/05/18 19:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*63*		*10 - 120*	*01/05/18 12:43*	*01/05/18 19:54*	*1*
Nitrobenzene-d5	*71*		*27 - 120*	*01/05/18 12:43*	*01/05/18 19:54*	*1*
Terphenyl-d14	*95*		*13 - 120*	*01/05/18 12:43*	*01/05/18 19:54*	*1*

Method: 625 SIM - Semivolatile Organic Compounds GC/MS (SIM)

Lab Sample ID: MB 490-487817/1-A
Matrix: Water
Analysis Batch: 487752

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 487817

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]anthracene	<0.020		0.10	0.020	ug/L		01/05/18 12:43	01/05/18 18:34	1
Benzo[a]pyrene	0.0208	J	0.10	0.020	ug/L		01/05/18 12:43	01/05/18 18:34	1
Benzo[b]fluoranthene	0.0209	J	0.10	0.020	ug/L		01/05/18 12:43	01/05/18 18:34	1
Benzo[g,h,i]perylene	0.0418	J	0.10	0.020	ug/L		01/05/18 12:43	01/05/18 18:34	1
Benzo[k]fluoranthene	<0.020		0.10	0.020	ug/L		01/05/18 12:43	01/05/18 18:34	1
Chrysene	<0.020		0.10	0.020	ug/L		01/05/18 12:43	01/05/18 18:34	1
Dibenz(a,h)anthracene	<0.020		0.10	0.020	ug/L		01/05/18 12:43	01/05/18 18:34	1
Fluoranthene	<0.030		0.10	0.030	ug/L		01/05/18 12:43	01/05/18 18:34	1
Indeno[1,2,3-cd]pyrene	0.0209	J	0.10	0.020	ug/L		01/05/18 12:43	01/05/18 18:34	1
Naphthalene	<0.020		0.10	0.020	ug/L		01/05/18 12:43	01/05/18 18:34	1
Phenanthrene	<0.030		0.10	0.030	ug/L		01/05/18 12:43	01/05/18 18:34	1
Pyrene	<0.020		0.10	0.020	ug/L		01/05/18 12:43	01/05/18 18:34	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*60*		*10 - 120*	*01/05/18 12:43*	*01/05/18 18:34*	*1*
Nitrobenzene-d5	*71*		*27 - 120*	*01/05/18 12:43*	*01/05/18 18:34*	*1*
Terphenyl-d14	*83*		*13 - 120*	*01/05/18 12:43*	*01/05/18 18:34*	*1*

Lab Sample ID: LCS 490-487817/2-A
Matrix: Water
Analysis Batch: 487752

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 487817

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzo[a]anthracene	2.00	1.58		ug/L		79	33 - 143
Benzo[a]pyrene	2.00	1.42		ug/L		71	17 - 163
Benzo[b]fluoranthene	2.00	1.70		ug/L		85	24 - 159
Benzo[g,h,i]perylene	2.00	1.42		ug/L		71	10 - 219
Benzo[k]fluoranthene	2.00	1.34		ug/L		67	11 - 162
Chrysene	2.00	1.66		ug/L		83	17 - 168
Dibenz(a,h)anthracene	2.00	1.43		ug/L		72	10 - 227
Fluoranthene	2.00	1.29		ug/L		65	26 - 137
Indeno[1,2,3-cd]pyrene	2.00	1.51		ug/L		75	10 - 171
Naphthalene	2.00	1.30		ug/L		65	21 - 133
Phenanthrene	2.00	1.46		ug/L		73	54 - 120
Pyrene	2.00	1.74		ug/L		87	52 - 115

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2-Fluorobiphenyl (Surr)	*67*		*10 - 120*
Nitrobenzene-d5	*62*		*27 - 120*
Terphenyl-d14	*93*		*13 - 120*

Lab Sample ID: LCSD 490-487817/3-A
Matrix: Water
Analysis Batch: 487752

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 487817

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzo[a]anthracene	2.00	1.46		ug/L		73	33 - 143	8	30

Method: 625 SIM - Semivolatile Organic Compounds GC/MS (SIM) (Continued)

Lab Sample ID: LCSD 490-487817/3-A
Matrix: Water
Analysis Batch: 487752

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 487817

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzo[a]pyrene			2.00	1.31		ug/L		65	17 - 163	9	30
Benzo[b]fluoranthene			2.00	1.66		ug/L		83	24 - 159	2	30
Benzo[g,h,i]perylene			2.00	1.39		ug/L		69	10 - 219	2	30
Benzo[k]fluoranthene			2.00	1.27		ug/L		64	11 - 162	5	30
Chrysene			2.00	1.59		ug/L		80	17 - 168	5	30
Dibenz(a,h)anthracene			2.00	1.39		ug/L		70	10 - 227	3	30
Fluoranthene			2.00	1.23		ug/L		62	26 - 137	5	30
Indeno[1,2,3-cd]pyrene			2.00	1.44		ug/L		72	10 - 171	4	30
Naphthalene			2.00	1.18		ug/L		59	21 - 133	10	30
Phenanthrene			2.00	1.40		ug/L		70	54 - 120	4	30
Pyrene			2.00	1.66		ug/L		83	52 - 115	4	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
2-Fluorobiphenyl (Surr)	*67*		*10 - 120*
Nitrobenzene-d5	*58*		*27 - 120*
Terphenyl-d14	*87*		*13 - 120*

QC Association Summary

Client: TRC Environmental Corporation.
Project/Site: MadisonKipp - GETS 292257

TestAmerica Job ID: 490-144103-1

GC/MS Semi VOA

Analysis Batch: 487752

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-144103-1	INFLUENT	Total/NA	Wastewater	625 SIM	487817
490-144103-2	EFFLUENT	Total/NA	Wastewater	625 SIM	487817
MB 490-487817/1-A	Method Blank	Total/NA	Water	625 SIM	487817
LCS 490-487817/2-A	Lab Control Sample	Total/NA	Water	625 SIM	487817
LCSD 490-487817/3-A	Lab Control Sample Dup	Total/NA	Water	625 SIM	487817

Prep Batch: 487817

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-144103-1	INFLUENT	Total/NA	Wastewater	625	
490-144103-2	EFFLUENT	Total/NA	Wastewater	625	
MB 490-487817/1-A	Method Blank	Total/NA	Water	625	
LCS 490-487817/2-A	Lab Control Sample	Total/NA	Water	625	
LCSD 490-487817/3-A	Lab Control Sample Dup	Total/NA	Water	625	

Lab Chronicle

Client: TRC Environmental Corporation.
Project/Site: MadisonKipp - GETS 292257

TestAmerica Job ID: 490-144103-1

Client Sample ID: INFLUENT

Lab Sample ID: 490-144103-1

Date Collected: 01/03/18 13:30

Matrix: Wastewater

Date Received: 01/05/18 10:05

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	625			1060 mL	1 mL	487817	01/05/18 12:43	SCR	TAL NSH
Total/NA	Analysis	625 SIM		1			487752	01/05/18 19:34	ZLN	TAL NSH

Client Sample ID: EFFLUENT

Lab Sample ID: 490-144103-2

Date Collected: 01/03/18 13:20

Matrix: Wastewater

Date Received: 01/05/18 10:05

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	625			1070 mL	1 mL	487817	01/05/18 12:43	SCR	TAL NSH
Total/NA	Analysis	625 SIM		1			487752	01/05/18 19:54	ZLN	TAL NSH

Laboratory References:

TAL NSH = TestAmerica Nashville, 2960 Foster Creighton Drive, Nashville, TN 37204, TEL (615)726-0177

Method Summary

Client: TRC Environmental Corporation.
Project/Site: MadisonKipp - GETS 292257

TestAmerica Job ID: 490-144103-1

Method	Method Description	Protocol	Laboratory
625 SIM	Semivolatile Organic Compounds GC/MS (SIM)	40CFR136A	TAL NSH

Protocol References:

40CFR136A = "Methods for Organic Chemical Analysis of Municipal Industrial Wastewater", 40CFR, Part 136, Appendix A, October 26, 1984 and subsequent revisions.

Laboratory References:

TAL NSH = TestAmerica Nashville, 2960 Foster Creighton Drive, Nashville, TN 37204, TEL (615)726-0177

Accreditation/Certification Summary

Client: TRC Environmental Corporation. TestAmerica Job ID: 490-144103-1
Project/Site: MadisonKipp - GETS 292257

Laboratory: TestAmerica Nashville

The accreditations/certifications listed below are applicable to this report.

Authority	Program	EPA Region	Identification Number	Expiration Date
Wisconsin	State Program	5	998020430	08-31-18

Laboratory: TestAmerica Chicago

The accreditations/certifications listed below are applicable to this report.

Authority	Program	EPA Region	Identification Number	Expiration Date
Wisconsin	State Program	5	999580010	08-31-18

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
Nashville, TN

COOLER RECEIPT FORM

490-144103 Chain of Custody

Cooler Received/Opened On 01-05-2018 @ 10:05

Time Samples Removed From Cooler 11:07 Time Samples Placed In Storage 11:16 (2 Hour Window)

1. Tracking # 9964 (last 4 digits, FedEx) Courier: FedEx

IR Gun ID 31470366 pH Strip Lot N/A Chlorine Strip Lot 0726178

2. Temperature of rep. sample or temp blank when opened: 2.1 Degrees Celsius

3. If Item #2 temperature is 0°C or less, was the representative sample or temp blank frozen? YES NO NA

4. Were custody seals on outside of cooler? YES...NO...NA

If yes, how many and where: 2 (front)

5. Were the seals intact, signed, and dated correctly? YES...NO...NA

6. Were custody papers inside cooler? YES...NO...NA

I certify that I opened the cooler and answered questions 1-6 (intial) KD

7. Were custody seals on containers: YES NO and Intact YES...NO...NA

Were these signed and dated correctly? YES...NO...NA

8. Packing mat'l used? Bubblewrap Plastic bag Peanuts Vermiculite Foam Insert Paper Other None

9. Cooling process: Ice Ice-pack Ice (direct contact) Dry ice Other None

10. Did all containers arrive in good condition (unbroken)? YES...NO...NA

11. Were all container labels complete (#, date, signed, pres., etc)? YES...NO...NA

12. Did all container labels and tags agree with custody papers? YES...NO...NA

13a. Were VOA vials received? YES...NO...NA

b. Was there any observable headspace present in any VOA vial? YES...NO...NA

● Larger than this.

14. Was there a Trip Blank in this cooler? YES...NO...NA If multiple coolers, sequence # _____

I certify that I unloaded the cooler and answered questions 7-14 (intial) KD

15a. On pres'd bottles, did pH test strips suggest preservation reached the correct pH level? YES...NO...NA

b. Did the bottle labels indicate that the correct preservatives were used YES...NO...NA

16. Was residual chlorine present? YES...NO...NA

I certify that I checked for chlorine and pH as per SOP and answered questions 15-16 (intial) KD

17. Were custody papers properly filled out (ink, signed, etc)? YES...NO...NA

18. Did you sign the custody papers in the appropriate place? YES...NO...NA

19. Were correct containers used for the analysis requested? YES...NO...NA

20. Was sufficient amount of sample sent in each container? YES...NO...NA

I certify that I entered this project into LIMS and answered questions 17-20 (intial) KD

I certify that I attached a label with the unique LIMS number to each container (intial) KD

21. Were there Non-Conformance issues at login? YES...NO Was a NCM generated? YES...NO...#_____

BIS = Broken in shipment
Cooler Receipt Form.doc

LF-1
End of Form

Revised 8/23/17

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

2417 Bond Street, University Park, IL 60484
Phone: 708.534.5200 Fax: 708.534.5211

Chain of Custody Record

(optional) Report To		(optional) Bill To	
Contact:	ANDREW STEHN	Contact:	Same as
Company:	TRC	Company:	Report To
Address:	708 Heartland Trail	Address:	
Address:	Suite 3000	Address:	
Phone:	608-826-3665	Phone:	
Fax:		Fax:	
E-Mail:	astehn@trcsolutions.com	PO#/Reference#	

Lab Job #:

Chain of Custody Number:

Page 1 of 1

Temperature °C of Cooler:

Client	Client Project #	Preservative	8									
TRC/MKC	292257											
Project Name: MKC GETS MONITORING		Parameter	PAHs									
Project Location/State: Madison / WI	Lab Project #											
Sampler: A. STEHN	Lab PM											

Loc: 490
144103

Preservative Key
1. HCL, Cool to 4°
2. H2SO4, Cool to 4°
3. HNO3, Cool to 4°
4. NaOH, Cool to 4°
5. NaOH/Zn, Cool to 4°
6. NaHSO4
7. Cool to 4°
8. None
9. Other

Lab ID	MS/MSD	Sample ID	Sampling Date	Sampling Time	# of Containers	Matrix		Comments
		INFLUENT	01/03/18	1330	2	W	X	
		EFFLUENT	01/03/18	13:20	2	W	X	

Turnaround Time Required (Business Days)
X 1 Day ___ 2 Days ___ 5 Days ___ 7 Days ___ 10 Days ___ 15 Days _____ Other
Requested Due Date _____

Sample Disposal
[ ] Return to Client [X] Disposal by Lab [ ] Archive for _____ Months (A fee may be assessed if samples are retained longer than 1 month)

Relinquished By	Company	Date	Time	Received By	Company	Date	Time
Andrew St	TRC	01/03/18	14:00	Seth Dawson	TA-NAS	01-05-2018	10:05
Relinquished By	Company	Date	Time	Received By	Company	Date	Time
Relinquished By	Company	Date	Time	Received By	Company	Date	Time

Lab Courier
Shipped FED EX
Hand Delivered

Matrix Key
WW – Wastewater
W – Water
S – Soil
SL – Sludge
MS – Miscellaneous
OL – Oil
A – Air
SE – Sediment
SO – Soil
L – Leachate
Wi – Wipe
DW – Drinking Water
O – Other

Client Comments
SEE ATTACHED PAH LIST

Lab Comments:
2.8

TAL-4124-500 (1209)

PAHs (Group of 10)	
Benzo(a)anthracene	625 SIM
Benzo(b)fluoranthene	
Benzo(g,h,i)perylene	
Benzo(k)fluoranthene	
Chrysene	
Dibenzo(a,h)anthracene	
Fluoranthene	
Indeno(1,2,3-cd)pyrene	
Phenanthrene	
Pyrene	
PAHs	
Benzo(a)pyrene	625 SIM
Naphthalene	
Oil and Grease	
Oil and Grease	1664
BOD_5	
BOD_5	5210B
Anions	
Chloride	300

Loc: 490
144103

Appendix D
Monthly SVE/GETS Influent and Effluent Vapor Laboratory Analytical Reports (on CD)

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7/26/2017
Ms. Alina Satkoski
Madison-Kipp Corporation
201 Waubesa Street

Madison WI 53704

Project Name: GETS/SVE
Project #:
Workorder #: 1707241

Dear Ms. Alina Satkoski

The following report includes the data for the above referenced project for sample(s) received on 7/17/2017 at Air Toxics Ltd.

The data and associated QC analyzed by TO-15 are compliant with the project requirements or laboratory criteria with the exception of the deviations noted in the attached case narrative.

Thank you for choosing Eurofins Air Toxics Inc. for your air analysis needs. Eurofins Air Toxics Inc. is committed to providing accurate data of the highest quality. Please feel free to contact the Project Manager: Ausha Scott at 916-985-1000 if you have any questions regarding the data in this report.

Regards,

Ausha Scott

Project Manager

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WORK ORDER #: 1707241

Work Order Summary

CLIENT:	Ms. Alina Satkoski Madison-Kipp Corporation 201 Waubesa Street Madison, WI 53704	**BILL TO:**	Ms. Alina Satkoski Madison-Kipp Corporation 201 Waubesa Street Madison, WI 53704
PHONE:	608-244-3511	**P.O. #**	107418
FAX:		**PROJECT #**	GETS/SVE
DATE RECEIVED:	07/17/2017	**CONTACT:**	Ausha Scott
DATE COMPLETED:	07/26/2017		

FRACTION #	NAME	TEST	RECEIPT VAC./PRES.	FINAL PRESSURE
01A	Influent	TO-15	6.5 "Hg	14.7 psi
02A	Effluent	TO-15	7.3 "Hg	15.1 psi
03A	Lab Blank	TO-15	NA	NA
04A	CCV	TO-15	NA	NA
05A	LCS	TO-15	NA	NA
05AA	LCSD	TO-15	NA	NA

CERTIFIED BY: Heidi Hayes DATE: 07/26/17

Technical Director

Certification numbers: AZ Licensure AZ0775, NJ NELAP - CA016, NY NELAP - 11291,
TX NELAP - T104704434-16-11, UT NELAP CA0093332016-7, VA NELAP - 8113, WA NELAP - C935
Name of Accreditation Body: NELAP/ORELAP (Oregon Environmental Laboratory Accreditation Program)
Accreditation number: CA300005, Effective date: 10/18/2016, Expiration date: 10/17/2017.
Eurofins Air Toxics Inc.. certifies that the test results contained in this report meet all requirements of the NELAC standards

LABORATORY NARRATIVE
EPA Method TO-15
Madison-Kipp Corporation
Workorder# 1707241

Two 1 Liter Summa Canister samples were received on July 17, 2017. The laboratory performed analysis via EPA Method TO-15 using GC/MS in the full scan mode.

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.

Receiving Notes

There were no receiving discrepancies.

Analytical Notes

Dilution was performed on samples Influent and Effluent due to the presence of high level target species.

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 not 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, LOD, or MDL value. See data page for project specific U-flag definition.

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

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

Client Sample ID: Influent

Lab ID#: 1707241-01A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
cis-1,2-Dichloroethene	10	870	40	3400
Trichloroethene	10	530	55	2800
Tetrachloroethene	10	2300	69	16000

Client Sample ID: Effluent

Lab ID#: 1707241-02A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Vinyl Chloride	2.7	2.9	6.8	7.5
cis-1,2-Dichloroethene	2.7	770	11	3000
Trichloroethene	2.7	430	14	2300
Tetrachloroethene	2.7	280	18	1900

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Client Sample ID: Influent

Lab ID#: 1707241-01A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**a071907**	**Date of Collection: 7/11/17 11:50:00 AM**	
Dil. Factor:	**20.4**	**Date of Analysis: 7/19/17 02:37 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	10	Not Detected	50	Not Detected
Freon 114	10	Not Detected	71	Not Detected
Chloromethane	100	Not Detected	210	Not Detected
Vinyl Chloride	10	Not Detected	26	Not Detected
Bromomethane	100	Not Detected	400	Not Detected
Chloroethane	41	Not Detected	110	Not Detected
Freon 11	10	Not Detected	57	Not Detected
Freon 113	10	Not Detected	78	Not Detected
1,1-Dichloroethene	10	Not Detected	40	Not Detected
Methylene Chloride	100	Not Detected	350	Not Detected
Methyl tert-butyl ether	41	Not Detected	150	Not Detected
1,1-Dichloroethane	10	Not Detected	41	Not Detected
cis-1,2-Dichloroethene	10	870	40	3400
Chloroform	10	Not Detected	50	Not Detected
1,1,1-Trichloroethane	10	Not Detected	56	Not Detected
Carbon Tetrachloride	10	Not Detected	64	Not Detected
Benzene	10	Not Detected	32	Not Detected
1,2-Dichloroethane	10	Not Detected	41	Not Detected
Trichloroethene	10	530	55	2800
1,2-Dichloropropane	10	Not Detected	47	Not Detected
cis-1,3-Dichloropropene	10	Not Detected	46	Not Detected
Toluene	10	Not Detected	38	Not Detected
trans-1,3-Dichloropropene	10	Not Detected	46	Not Detected
1,1,2-Trichloroethane	10	Not Detected	56	Not Detected
Tetrachloroethene	10	2300	69	16000
1,2-Dibromoethane (EDB)	10	Not Detected	78	Not Detected
Chlorobenzene	10	Not Detected	47	Not Detected
Ethyl Benzene	10	Not Detected	44	Not Detected
m,p-Xylene	10	Not Detected	44	Not Detected
o-Xylene	10	Not Detected	44	Not Detected
Styrene	10	Not Detected	43	Not Detected
1,1,2,2-Tetrachloroethane	10	Not Detected	70	Not Detected
1,3,5-Trimethylbenzene	10	Not Detected	50	Not Detected
1,2,4-Trimethylbenzene	10	Not Detected	50	Not Detected
1,3-Dichlorobenzene	10	Not Detected	61	Not Detected
1,4-Dichlorobenzene	10	Not Detected	61	Not Detected
alpha-Chlorotoluene	10	Not Detected	53	Not Detected
1,2-Dichlorobenzene	10	Not Detected	61	Not Detected
1,2,4-Trichlorobenzene	41	Not Detected	300	Not Detected
Hexachlorobutadiene	41	Not Detected	440	Not Detected

Container Type: 1 Liter Summa Canister

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Client Sample ID: Influent

Lab ID#: 1707241-01A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**a071907**	**Date of Collection: 7/11/17 11:50:00 AM**	
Dil. Factor:	**20.4**	**Date of Analysis: 7/19/17 02:37 PM**	

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

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Client Sample ID: Effluent

Lab ID#: 1707241-02A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**a071908**	**Date of Collection:**	**7/11/17 11:45:00 AM**
Dil. Factor:	**5.36**	**Date of Analysis:**	**7/19/17 03:02 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	2.7	Not Detected	13	Not Detected
Freon 114	2.7	Not Detected	19	Not Detected
Chloromethane	27	Not Detected	55	Not Detected
Vinyl Chloride	2.7	2.9	6.8	7.5
Bromomethane	27	Not Detected	100	Not Detected
Chloroethane	11	Not Detected	28	Not Detected
Freon 11	2.7	Not Detected	15	Not Detected
Freon 113	2.7	Not Detected	20	Not Detected
1,1-Dichloroethene	2.7	Not Detected	11	Not Detected
Methylene Chloride	27	Not Detected	93	Not Detected
Methyl tert-butyl ether	11	Not Detected	39	Not Detected
1,1-Dichloroethane	2.7	Not Detected	11	Not Detected
cis-1,2-Dichloroethene	2.7	770	11	3000
Chloroform	2.7	Not Detected	13	Not Detected
1,1,1-Trichloroethane	2.7	Not Detected	15	Not Detected
Carbon Tetrachloride	2.7	Not Detected	17	Not Detected
Benzene	2.7	Not Detected	8.6	Not Detected
1,2-Dichloroethane	2.7	Not Detected	11	Not Detected
Trichloroethene	2.7	430	14	2300
1,2-Dichloropropane	2.7	Not Detected	12	Not Detected
cis-1,3-Dichloropropene	2.7	Not Detected	12	Not Detected
Toluene	2.7	Not Detected	10	Not Detected
trans-1,3-Dichloropropene	2.7	Not Detected	12	Not Detected
1,1,2-Trichloroethane	2.7	Not Detected	15	Not Detected
Tetrachloroethene	2.7	280	18	1900
1,2-Dibromoethane (EDB)	2.7	Not Detected	20	Not Detected
Chlorobenzene	2.7	Not Detected	12	Not Detected
Ethyl Benzene	2.7	Not Detected	12	Not Detected
m,p-Xylene	2.7	Not Detected	12	Not Detected
o-Xylene	2.7	Not Detected	12	Not Detected
Styrene	2.7	Not Detected	11	Not Detected
1,1,2,2-Tetrachloroethane	2.7	Not Detected	18	Not Detected
1,3,5-Trimethylbenzene	2.7	Not Detected	13	Not Detected
1,2,4-Trimethylbenzene	2.7	Not Detected	13	Not Detected
1,3-Dichlorobenzene	2.7	Not Detected	16	Not Detected
1,4-Dichlorobenzene	2.7	Not Detected	16	Not Detected
alpha-Chlorotoluene	2.7	Not Detected	14	Not Detected
1,2-Dichlorobenzene	2.7	Not Detected	16	Not Detected
1,2,4-Trichlorobenzene	11	Not Detected	80	Not Detected
Hexachlorobutadiene	11	Not Detected	110	Not Detected

Container Type: 1 Liter Summa Canister

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Client Sample ID: Effluent

Lab ID#: 1707241-02A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**a071908**	**Date of Collection: 7/11/17 11:45:00 AM**	
Dil. Factor:	**5.36**	**Date of Analysis: 7/19/17 03:02 PM**	

Surrogates	%Recovery	Method Limits
Toluene-d8	102	70-130
1,2-Dichloroethane-d4	104	70-130
4-Bromofluorobenzene	97	70-130

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Client Sample ID: Lab Blank

Lab ID#: 1707241-03A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**a071906**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 7/19/17 11:24 AM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.50	Not Detected	2.5	Not Detected
Freon 114	0.50	Not Detected	3.5	Not Detected
Chloromethane	5.0	Not Detected	10	Not Detected
Vinyl Chloride	0.50	Not Detected	1.3	Not Detected
Bromomethane	5.0	Not Detected	19	Not Detected
Chloroethane	2.0	Not Detected	5.3	Not Detected
Freon 11	0.50	Not Detected	2.8	Not Detected
Freon 113	0.50	Not Detected	3.8	Not Detected
1,1-Dichloroethene	0.50	Not Detected	2.0	Not Detected
Methylene Chloride	5.0	Not Detected	17	Not Detected
Methyl tert-butyl ether	2.0	Not Detected	7.2	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
Chloroform	0.50	Not Detected	2.4	Not Detected
1,1,1-Trichloroethane	0.50	Not Detected	2.7	Not Detected
Carbon Tetrachloride	0.50	Not Detected	3.1	Not Detected
Benzene	0.50	Not Detected	1.6	Not Detected
1,2-Dichloroethane	0.50	Not Detected	2.0	Not Detected
Trichloroethene	0.50	Not Detected	2.7	Not Detected
1,2-Dichloropropane	0.50	Not Detected	2.3	Not Detected
cis-1,3-Dichloropropene	0.50	Not Detected	2.3	Not Detected
Toluene	0.50	Not Detected	1.9	Not Detected
trans-1,3-Dichloropropene	0.50	Not Detected	2.3	Not Detected
1,1,2-Trichloroethane	0.50	Not Detected	2.7	Not Detected
Tetrachloroethene	0.50	Not Detected	3.4	Not Detected
1,2-Dibromoethane (EDB)	0.50	Not Detected	3.8	Not Detected
Chlorobenzene	0.50	Not Detected	2.3	Not Detected
Ethyl Benzene	0.50	Not Detected	2.2	Not Detected
m,p-Xylene	0.50	Not Detected	2.2	Not Detected
o-Xylene	0.50	Not Detected	2.2	Not Detected
Styrene	0.50	Not Detected	2.1	Not Detected
1,1,2,2-Tetrachloroethane	0.50	Not Detected	3.4	Not Detected
1,3,5-Trimethylbenzene	0.50	Not Detected	2.4	Not Detected
1,2,4-Trimethylbenzene	0.50	Not Detected	2.4	Not Detected
1,3-Dichlorobenzene	0.50	Not Detected	3.0	Not Detected
1,4-Dichlorobenzene	0.50	Not Detected	3.0	Not Detected
alpha-Chlorotoluene	0.50	Not Detected	2.6	Not Detected
1,2-Dichlorobenzene	0.50	Not Detected	3.0	Not Detected
1,2,4-Trichlorobenzene	2.0	Not Detected	15	Not Detected
Hexachlorobutadiene	2.0	Not Detected	21	Not Detected

Container Type: NA - Not Applicable

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Client Sample ID: Lab Blank

Lab ID#: 1707241-03A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**a071906**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 7/19/17 11:24 AM**	

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

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Client Sample ID: CCV

Lab ID#: 1707241-04A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**a071902**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 7/19/17 09:22 AM**	

Compound	%Recovery
Freon 12	92
Freon 114	89
Chloromethane	108
Vinyl Chloride	98
Bromomethane	92
Chloroethane	97
Freon 11	92
Freon 113	89
1,1-Dichloroethene	92
Methylene Chloride	104
Methyl tert-butyl ether	92
1,1-Dichloroethane	96
cis-1,2-Dichloroethene	96
Chloroform	93
1,1,1-Trichloroethane	89
Carbon Tetrachloride	92
Benzene	93
1,2-Dichloroethane	96
Trichloroethene	91
1,2-Dichloropropane	98
cis-1,3-Dichloropropene	105
Toluene	94
trans-1,3-Dichloropropene	99
1,1,2-Trichloroethane	96
Tetrachloroethene	90
1,2-Dibromoethane (EDB)	93
Chlorobenzene	95
Ethyl Benzene	96
m,p-Xylene	101
o-Xylene	102
Styrene	100
1,1,2,2-Tetrachloroethane	103
1,3,5-Trimethylbenzene	100
1,2,4-Trimethylbenzene	94
1,3-Dichlorobenzene	93
1,4-Dichlorobenzene	93
alpha-Chlorotoluene	98
1,2-Dichlorobenzene	90
1,2,4-Trichlorobenzene	86
Hexachlorobutadiene	85

Container Type: NA - Not Applicable

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Client Sample ID: CCV

Lab ID#: 1707241-04A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**a071902**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 7/19/17 09:22 AM**	

Surrogates	%Recovery	Method Limits
Toluene-d8	102	70-130
1,2-Dichloroethane-d4	103	70-130
4-Bromofluorobenzene	99	70-130

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Client Sample ID: LCS

Lab ID#: 1707241-05A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**a071903**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 7/19/17 09:47 AM**	

Compound	%Recovery	Method Limits
Freon 12	96	70-130
Freon 114	95	70-130
Chloromethane	112	70-130
Vinyl Chloride	102	70-130
Bromomethane	97	70-130
Chloroethane	105	70-130
Freon 11	98	70-130
Freon 113	90	70-130
1,1-Dichloroethene	99	70-130
Methylene Chloride	109	70-130
Methyl tert-butyl ether	94	70-130
1,1-Dichloroethane	101	70-130
cis-1,2-Dichloroethene	121	70-130
Chloroform	94	70-130
1,1,1-Trichloroethane	91	70-130
Carbon Tetrachloride	94	70-130
Benzene	97	70-130
1,2-Dichloroethane	96	70-130
Trichloroethene	94	70-130
1,2-Dichloropropane	101	70-130
cis-1,3-Dichloropropene	99	70-130
Toluene	94	70-130
trans-1,3-Dichloropropene	103	70-130
1,1,2-Trichloroethane	102	70-130
Tetrachloroethene	96	70-130
1,2-Dibromoethane (EDB)	98	70-130
Chlorobenzene	97	70-130
Ethyl Benzene	101	70-130
m,p-Xylene	105	70-130
o-Xylene	106	70-130
Styrene	104	70-130
1,1,2,2-Tetrachloroethane	107	70-130
1,3,5-Trimethylbenzene	101	70-130
1,2,4-Trimethylbenzene	98	70-130
1,3-Dichlorobenzene	97	70-130
1,4-Dichlorobenzene	96	70-130
alpha-Chlorotoluene	106	70-130
1,2-Dichlorobenzene	95	70-130
1,2,4-Trichlorobenzene	94	70-130
Hexachlorobutadiene	91	70-130

Container Type: NA - Not Applicable

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Client Sample ID: LCS

Lab ID#: 1707241-05A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**a071903**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 7/19/17 09:47 AM**	

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

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Client Sample ID: LCSD

Lab ID#: 1707241-05AA

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**a071904**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 7/19/17 10:12 AM**	

Compound	%Recovery	Method Limits
Freon 12	94	70-130
Freon 114	94	70-130
Chloromethane	106	70-130
Vinyl Chloride	101	70-130
Bromomethane	96	70-130
Chloroethane	100	70-130
Freon 11	96	70-130
Freon 113	90	70-130
1,1-Dichloroethene	98	70-130
Methylene Chloride	105	70-130
Methyl tert-butyl ether	93	70-130
1,1-Dichloroethane	96	70-130
cis-1,2-Dichloroethene	120	70-130
Chloroform	93	70-130
1,1,1-Trichloroethane	89	70-130
Carbon Tetrachloride	91	70-130
Benzene	95	70-130
1,2-Dichloroethane	95	70-130
Trichloroethene	92	70-130
1,2-Dichloropropane	100	70-130
cis-1,3-Dichloropropene	100	70-130
Toluene	94	70-130
trans-1,3-Dichloropropene	97	70-130
1,1,2-Trichloroethane	97	70-130
Tetrachloroethene	91	70-130
1,2-Dibromoethane (EDB)	91	70-130
Chlorobenzene	92	70-130
Ethyl Benzene	95	70-130
m,p-Xylene	100	70-130
o-Xylene	104	70-130
Styrene	100	70-130
1,1,2,2-Tetrachloroethane	102	70-130
1,3,5-Trimethylbenzene	95	70-130
1,2,4-Trimethylbenzene	94	70-130
1,3-Dichlorobenzene	93	70-130
1,4-Dichlorobenzene	91	70-130
alpha-Chlorotoluene	100	70-130
1,2-Dichlorobenzene	92	70-130
1,2,4-Trichlorobenzene	90	70-130
Hexachlorobutadiene	88	70-130

Container Type: NA - Not Applicable

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Client Sample ID: LCSD

Lab ID#: 1707241-05AA

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**a071904**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 7/19/17 10:12 AM**	

Surrogates	%Recovery	Method Limits
Toluene-d8	102	70-130
1,2-Dichloroethane-d4	101	70-130
4-Bromofluorobenzene	96	70-130

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Sample Transportation Notice

Relinquishing signature on this document indicates that sample is being shipped in compliance with all applicable local, State, Federal, national, and international laws, regulations and ordinances of any kind. Air Toxics Limited assumes no liability with respect to the collection, handling or shipping of these samples. Relinquishing signature also indicates agreement to hold harmless, defend, and indemnify Air Toxics Limited against any claim, demand, or action, of any kind, related to the collection, handling, or shipping of samples. D.O.T. Hotline (800) 467-4922

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

Project Manager Alina Satkoski

Collected by: (Print and Sign) Alina Satkoski Alina Satkoski

Company MKC Email

Address 201 Waubosa St. City Madison State WI Zip 53704

Phone 608 242 5200 Fax

Project Info:

P.O. # 107418

Project #

Project Name GETS/SVE

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)
01A	Influent	1L2294	7/11/17	1150	TO-15	-29	-6		
02A	Effluent	1L2889	7/11/17	1145	TO-15	-18	-5		

Relinquished by: (signature) Date/Time	Received by: (signature) Date/Time
Alina Satkoski 7/11/17 1200	alun GAT 07/17/17 1115
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 #
	UPS		NA	Good	Yes No (None)	1707242

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8/23/2017
Ms. Alina Satkoski
Madison-Kipp Corporation
201 Waubesa Street

Madison WI 53704

Project Name: GETS/SVE
Project #:
Workorder #: 1708203

Dear Ms. Alina Satkoski

The following report includes the data for the above referenced project for sample(s) received on 8/11/2017 at Air Toxics Ltd.

The data and associated QC analyzed by TO-15 are compliant with the project requirements or laboratory criteria with the exception of the deviations noted in the attached case narrative.

Thank you for choosing Eurofins Air Toxics Inc. for your air analysis needs. Eurofins Air Toxics Inc. is committed to providing accurate data of the highest quality. Please feel free to contact the Project Manager: Ausha Scott at 916-985-1000 if you have any questions regarding the data in this report.

Regards,

Ausha Scott

Project Manager

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WORK ORDER #: 1708203

Work Order Summary

CLIENT:	Ms. Alina Satkoski Madison-Kipp Corporation 201 Waubesa Street Madison, WI 53704	**BILL TO:**	Ms. Alina Satkoski Madison-Kipp Corporation 201 Waubesa Street Madison, WI 53704
PHONE:	608-244-3511	**P.O. #**	107418
FAX:		**PROJECT #**	GETS/SVE
DATE RECEIVED:	08/11/2017	**CONTACT:**	Ausha Scott
DATE COMPLETED:	08/23/2017		

FRACTION #	NAME	TEST	RECEIPT VAC./PRES.	FINAL PRESSURE
01A	Influent	TO-15	5.7 "Hg	15 psi
02A	Effluent	TO-15	1.6 "Hg	14.9 psi
03A	Lab Blank	TO-15	NA	NA
04A	CCV	TO-15	NA	NA
05A	LCS	TO-15	NA	NA
05AA	LCSD	TO-15	NA	NA

CERTIFIED BY: Heidi Hayes DATE: 08/23/17

Technical Director

Certification numbers: AZ Licensure AZ0775, NJ NELAP - CA016, NY NELAP - 11291,
TX NELAP - T104704434-16-11, UT NELAP CA0093332016-7, VA NELAP - 8113, WA NELAP - C935
Name of Accreditation Body: NELAP/ORELAP (Oregon Environmental Laboratory Accreditation Program)
Accreditation number: CA300005, Effective date: 10/18/2016, Expiration date: 10/17/2017.
Eurofins Air Toxics Inc.. certifies that the test results contained in this report meet all requirements of the NELAC standards

LABORATORY NARRATIVE
EPA Method TO-15
Madison-Kipp Corporation
Workorder# 1708203

Two 1 Liter Summa Canister samples were received on August 11, 2017. The laboratory performed analysis via EPA Method TO-15 using GC/MS in the full scan mode.

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.

Receiving Notes

There were no receiving discrepancies.

Analytical Notes

Dilution was performed on samples Influent and Effluent due to the presence of high level target species.

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 not 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, LOD, or MDL value. See data page for project specific U-flag definition.

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

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

Client Sample ID: Influent

Lab ID#: 1708203-01A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
cis-1,2-Dichloroethene	12	730	49	2900
Trichloroethene	12	570	67	3100
Tetrachloroethene	12	2700	84	18000

Client Sample ID: Effluent

Lab ID#: 1708203-02A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Vinyl Chloride	4.2	4.5	11	11
cis-1,2-Dichloroethene	4.2	470	17	1900
Trichloroethene	4.2	700	23	3700
Tetrachloroethene	4.2	260	29	1800

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Client Sample ID: Influent

Lab ID#: 1708203-01A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**p081513**	**Date of Collection:**	**8/7/17 8:10:00 AM**
Dil. Factor:	**24.9**	**Date of Analysis:**	**8/15/17 07:06 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	12	Not Detected	62	Not Detected
Freon 114	12	Not Detected	87	Not Detected
Chloromethane	120	Not Detected	260	Not Detected
Vinyl Chloride	12	Not Detected	32	Not Detected
Bromomethane	120	Not Detected	480	Not Detected
Chloroethane	50	Not Detected	130	Not Detected
Freon 11	12	Not Detected	70	Not Detected
Freon 113	12	Not Detected	95	Not Detected
1,1-Dichloroethene	12	Not Detected	49	Not Detected
Methylene Chloride	120	Not Detected	430	Not Detected
Methyl tert-butyl ether	50	Not Detected	180	Not Detected
1,1-Dichloroethane	12	Not Detected	50	Not Detected
cis-1,2-Dichloroethene	12	730	49	2900
Chloroform	12	Not Detected	61	Not Detected
1,1,1-Trichloroethane	12	Not Detected	68	Not Detected
Carbon Tetrachloride	12	Not Detected	78	Not Detected
Benzene	12	Not Detected	40	Not Detected
1,2-Dichloroethane	12	Not Detected	50	Not Detected
Trichloroethene	12	570	67	3100
1,2-Dichloropropane	12	Not Detected	58	Not Detected
cis-1,3-Dichloropropene	12	Not Detected	56	Not Detected
Toluene	12	Not Detected	47	Not Detected
trans-1,3-Dichloropropene	12	Not Detected	56	Not Detected
1,1,2-Trichloroethane	12	Not Detected	68	Not Detected
Tetrachloroethene	12	2700	84	18000
1,2-Dibromoethane (EDB)	12	Not Detected	96	Not Detected
Chlorobenzene	12	Not Detected	57	Not Detected
Ethyl Benzene	12	Not Detected	54	Not Detected
m,p-Xylene	12	Not Detected	54	Not Detected
o-Xylene	12	Not Detected	54	Not Detected
Styrene	12	Not Detected	53	Not Detected
1,1,2,2-Tetrachloroethane	12	Not Detected	85	Not Detected
1,3,5-Trimethylbenzene	12	Not Detected	61	Not Detected
1,2,4-Trimethylbenzene	12	Not Detected	61	Not Detected
1,3-Dichlorobenzene	12	Not Detected	75	Not Detected
1,4-Dichlorobenzene	12	Not Detected	75	Not Detected
alpha-Chlorotoluene	12	Not Detected	64	Not Detected
1,2-Dichlorobenzene	12	Not Detected	75	Not Detected
1,2,4-Trichlorobenzene	50	Not Detected	370	Not Detected
Hexachlorobutadiene	50	Not Detected	530	Not Detected

Container Type: 1 Liter Summa Canister

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Client Sample ID: Influent

Lab ID#: 1708203-01A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**p081513**	**Date of Collection: 8/7/17 8:10:00 AM**	
Dil. Factor:	**24.9**	**Date of Analysis: 8/15/17 07:06 PM**	

Surrogates	%Recovery	Method Limits
Toluene-d8	99	70-130
1,2-Dichloroethane-d4	100	70-130
4-Bromofluorobenzene	98	70-130

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Client Sample ID: Effluent

Lab ID#: 1708203-02A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**p081514**	**Date of Collection: 8/7/17 8:00:00 AM**	
Dil. Factor:	**8.51**	**Date of Analysis: 8/15/17 07:31 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	4.2	Not Detected	21	Not Detected
Freon 114	4.2	Not Detected	30	Not Detected
Chloromethane	42	Not Detected	88	Not Detected
Vinyl Chloride	4.2	4.5	11	11
Bromomethane	42	Not Detected	160	Not Detected
Chloroethane	17	Not Detected	45	Not Detected
Freon 11	4.2	Not Detected	24	Not Detected
Freon 113	4.2	Not Detected	33	Not Detected
1,1-Dichloroethene	4.2	Not Detected	17	Not Detected
Methylene Chloride	42	Not Detected	150	Not Detected
Methyl tert-butyl ether	17	Not Detected	61	Not Detected
1,1-Dichloroethane	4.2	Not Detected	17	Not Detected
cis-1,2-Dichloroethene	4.2	470	17	1900
Chloroform	4.2	Not Detected	21	Not Detected
1,1,1-Trichloroethane	4.2	Not Detected	23	Not Detected
Carbon Tetrachloride	4.2	Not Detected	27	Not Detected
Benzene	4.2	Not Detected	14	Not Detected
1,2-Dichloroethane	4.2	Not Detected	17	Not Detected
Trichloroethene	4.2	700	23	3700
1,2-Dichloropropane	4.2	Not Detected	20	Not Detected
cis-1,3-Dichloropropene	4.2	Not Detected	19	Not Detected
Toluene	4.2	Not Detected	16	Not Detected
trans-1,3-Dichloropropene	4.2	Not Detected	19	Not Detected
1,1,2-Trichloroethane	4.2	Not Detected	23	Not Detected
Tetrachloroethene	4.2	260	29	1800
1,2-Dibromoethane (EDB)	4.2	Not Detected	33	Not Detected
Chlorobenzene	4.2	Not Detected	20	Not Detected
Ethyl Benzene	4.2	Not Detected	18	Not Detected
m,p-Xylene	4.2	Not Detected	18	Not Detected
o-Xylene	4.2	Not Detected	18	Not Detected
Styrene	4.2	Not Detected	18	Not Detected
1,1,2,2-Tetrachloroethane	4.2	Not Detected	29	Not Detected
1,3,5-Trimethylbenzene	4.2	Not Detected	21	Not Detected
1,2,4-Trimethylbenzene	4.2	Not Detected	21	Not Detected
1,3-Dichlorobenzene	4.2	Not Detected	26	Not Detected
1,4-Dichlorobenzene	4.2	Not Detected	26	Not Detected
alpha-Chlorotoluene	4.2	Not Detected	22	Not Detected
1,2-Dichlorobenzene	4.2	Not Detected	26	Not Detected
1,2,4-Trichlorobenzene	17	Not Detected	130	Not Detected
Hexachlorobutadiene	17	Not Detected	180	Not Detected

Container Type: 1 Liter Summa Canister

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Client Sample ID: Effluent

Lab ID#: 1708203-02A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**p081514**	**Date of Collection: 8/7/17 8:00:00 AM**	
Dil. Factor:	**8.51**	**Date of Analysis: 8/15/17 07:31 PM**	

Surrogates	%Recovery	Method Limits
Toluene-d8	99	70-130
1,2-Dichloroethane-d4	99	70-130
4-Bromofluorobenzene	98	70-130

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Client Sample ID: Lab Blank

Lab ID#: 1708203-03A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**p081507**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 8/15/17 01:27 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.50	Not Detected	2.5	Not Detected
Freon 114	0.50	Not Detected	3.5	Not Detected
Chloromethane	5.0	Not Detected	10	Not Detected
Vinyl Chloride	0.50	Not Detected	1.3	Not Detected
Bromomethane	5.0	Not Detected	19	Not Detected
Chloroethane	2.0	Not Detected	5.3	Not Detected
Freon 11	0.50	Not Detected	2.8	Not Detected
Freon 113	0.50	Not Detected	3.8	Not Detected
1,1-Dichloroethene	0.50	Not Detected	2.0	Not Detected
Methylene Chloride	5.0	Not Detected	17	Not Detected
Methyl tert-butyl ether	2.0	Not Detected	7.2	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
Chloroform	0.50	Not Detected	2.4	Not Detected
1,1,1-Trichloroethane	0.50	Not Detected	2.7	Not Detected
Carbon Tetrachloride	0.50	Not Detected	3.1	Not Detected
Benzene	0.50	Not Detected	1.6	Not Detected
1,2-Dichloroethane	0.50	Not Detected	2.0	Not Detected
Trichloroethene	0.50	Not Detected	2.7	Not Detected
1,2-Dichloropropane	0.50	Not Detected	2.3	Not Detected
cis-1,3-Dichloropropene	0.50	Not Detected	2.3	Not Detected
Toluene	0.50	Not Detected	1.9	Not Detected
trans-1,3-Dichloropropene	0.50	Not Detected	2.3	Not Detected
1,1,2-Trichloroethane	0.50	Not Detected	2.7	Not Detected
Tetrachloroethene	0.50	Not Detected	3.4	Not Detected
1,2-Dibromoethane (EDB)	0.50	Not Detected	3.8	Not Detected
Chlorobenzene	0.50	Not Detected	2.3	Not Detected
Ethyl Benzene	0.50	Not Detected	2.2	Not Detected
m,p-Xylene	0.50	Not Detected	2.2	Not Detected
o-Xylene	0.50	Not Detected	2.2	Not Detected
Styrene	0.50	Not Detected	2.1	Not Detected
1,1,2,2-Tetrachloroethane	0.50	Not Detected	3.4	Not Detected
1,3,5-Trimethylbenzene	0.50	Not Detected	2.4	Not Detected
1,2,4-Trimethylbenzene	0.50	Not Detected	2.4	Not Detected
1,3-Dichlorobenzene	0.50	Not Detected	3.0	Not Detected
1,4-Dichlorobenzene	0.50	Not Detected	3.0	Not Detected
alpha-Chlorotoluene	0.50	Not Detected	2.6	Not Detected
1,2-Dichlorobenzene	0.50	Not Detected	3.0	Not Detected
1,2,4-Trichlorobenzene	2.0	Not Detected	15	Not Detected
Hexachlorobutadiene	2.0	Not Detected	21	Not Detected

Container Type: NA - Not Applicable

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Client Sample ID: Lab Blank

Lab ID#: 1708203-03A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**p081507**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 8/15/17 01:27 PM**	

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

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Client Sample ID: CCV

Lab ID#: 1708203-04A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**p081505**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 8/15/17 12:37 PM**	

Compound	%Recovery
Freon 12	111
Freon 114	104
Chloromethane	106
Vinyl Chloride	110
Bromomethane	107
Chloroethane	107
Freon 11	109
Freon 113	100
1,1-Dichloroethene	97
Methylene Chloride	110
Methyl tert-butyl ether	97
1,1-Dichloroethane	106
cis-1,2-Dichloroethene	100
Chloroform	107
1,1,1-Trichloroethane	101
Carbon Tetrachloride	99
Benzene	101
1,2-Dichloroethane	103
Trichloroethene	98
1,2-Dichloropropane	96
cis-1,3-Dichloropropene	102
Toluene	98
trans-1,3-Dichloropropene	102
1,1,2-Trichloroethane	102
Tetrachloroethene	100
1,2-Dibromoethane (EDB)	103
Chlorobenzene	101
Ethyl Benzene	96
m,p-Xylene	96
o-Xylene	95
Styrene	93
1,1,2,2-Tetrachloroethane	96
1,3,5-Trimethylbenzene	95
1,2,4-Trimethylbenzene	94
1,3-Dichlorobenzene	97
1,4-Dichlorobenzene	97
alpha-Chlorotoluene	93
1,2-Dichlorobenzene	96
1,2,4-Trichlorobenzene	94
Hexachlorobutadiene	97

Container Type: NA - Not Applicable

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Client Sample ID: CCV

Lab ID#: 1708203-04A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**p081505**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 8/15/17 12:37 PM**	

Surrogates	%Recovery	Method Limits
Toluene-d8	99	70-130
1,2-Dichloroethane-d4	104	70-130
4-Bromofluorobenzene	101	70-130

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Client Sample ID: LCS

Lab ID#: 1708203-05A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**p081503**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 8/15/17 11:08 AM**	

Compound	%Recovery	Method Limits
Freon 12	113	70-130
Freon 114	112	70-130
Chloromethane	85	70-130
Vinyl Chloride	122	70-130
Bromomethane	107	70-130
Chloroethane	111	70-130
Freon 11	113	70-130
Freon 113	101	70-130
1,1-Dichloroethene	99	70-130
Methylene Chloride	110	70-130
Methyl tert-butyl ether	98	70-130
1,1-Dichloroethane	107	70-130
cis-1,2-Dichloroethene	112	70-130
Chloroform	108	70-130
1,1,1-Trichloroethane	101	70-130
Carbon Tetrachloride	101	70-130
Benzene	105	70-130
1,2-Dichloroethane	109	70-130
Trichloroethene	105	70-130
1,2-Dichloropropane	101	70-130
cis-1,3-Dichloropropene	99	70-130
Toluene	101	70-130
trans-1,3-Dichloropropene	104	70-130
1,1,2-Trichloroethane	104	70-130
Tetrachloroethene	104	70-130
1,2-Dibromoethane (EDB)	105	70-130
Chlorobenzene	101	70-130
Ethyl Benzene	98	70-130
m,p-Xylene	96	70-130
o-Xylene	97	70-130
Styrene	90	70-130
1,1,2,2-Tetrachloroethane	98	70-130
1,3,5-Trimethylbenzene	94	70-130
1,2,4-Trimethylbenzene	91	70-130
1,3-Dichlorobenzene	99	70-130
1,4-Dichlorobenzene	99	70-130
alpha-Chlorotoluene	89	70-130
1,2-Dichlorobenzene	98	70-130
1,2,4-Trichlorobenzene	98	70-130
Hexachlorobutadiene	101	70-130

Container Type: NA - Not Applicable

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Client Sample ID: LCS

Lab ID#: 1708203-05A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**p081503**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 8/15/17 11:08 AM**	

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

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Client Sample ID: LCSD

Lab ID#: 1708203-05AA

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**p081504**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 8/15/17 11:34 AM**	

Compound	%Recovery	Method Limits
Freon 12	115	70-130
Freon 114	114	70-130
Chloromethane	86	70-130
Vinyl Chloride	133 Q	70-130
Bromomethane	106	70-130
Chloroethane	111	70-130
Freon 11	115	70-130
Freon 113	102	70-130
1,1-Dichloroethene	101	70-130
Methylene Chloride	111	70-130
Methyl tert-butyl ether	99	70-130
1,1-Dichloroethane	108	70-130
cis-1,2-Dichloroethene	114	70-130
Chloroform	109	70-130
1,1,1-Trichloroethane	103	70-130
Carbon Tetrachloride	101	70-130
Benzene	104	70-130
1,2-Dichloroethane	106	70-130
Trichloroethene	104	70-130
1,2-Dichloropropane	101	70-130
cis-1,3-Dichloropropene	97	70-130
Toluene	101	70-130
trans-1,3-Dichloropropene	103	70-130
1,1,2-Trichloroethane	104	70-130
Tetrachloroethene	102	70-130
1,2-Dibromoethane (EDB)	104	70-130
Chlorobenzene	100	70-130
Ethyl Benzene	97	70-130
m,p-Xylene	97	70-130
o-Xylene	97	70-130
Styrene	90	70-130
1,1,2,2-Tetrachloroethane	97	70-130
1,3,5-Trimethylbenzene	92	70-130
1,2,4-Trimethylbenzene	93	70-130
1,3-Dichlorobenzene	100	70-130
1,4-Dichlorobenzene	100	70-130
alpha-Chlorotoluene	88	70-130
1,2-Dichlorobenzene	99	70-130
1,2,4-Trichlorobenzene	100	70-130
Hexachlorobutadiene	104	70-130

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Client Sample ID: LCSD

Lab ID#: 1708203-05AA

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**p081504**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 8/15/17 11:34 AM**	

Q = Exceeds Quality Control limits.

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	98	70-130
1,2-Dichloroethane-d4	102	70-130
4-Bromofluorobenzene	101	70-130

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Sample Transportation Notice
Relinquishing signature on this document indicates that sample is being shipped in compliance with all applicable local, State, Federal, national, and international laws, regulations and ordinances of any kind. Air Toxics Limited assumes no liability with respect to the collection, handling or shipping of these samples. Relinquishing signature also indicates agreement to hold harmless, defend, and indemnify Air Toxics Limited against any claim, demand, or action, of any kind, related to the collection, handling, or shipping of samples. D.O.T. Hotline (800) 467-4922

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

Project Manager Alina Satkoski
Collected by: (Print and Sign) Alina Satkoski Alinadatkoski
Company MKC Email asatkoski@madison-kipp.com
Address 201 Waubesa St. City Madison State WI Zip 53704
Phone 6082425200 Fax —

Project Info:
P.O. # 107418
Project # _____
Project Name GETS/SVE

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)
01A	Influent	3036	8/7/17	810	TO-15	-26	-5		
02A	Effluent	40892	8/7/17	800	TO-15	-28	-3		

Relinquished by: (signature) Date/Time	Received by: (signature) Date/Time	Notes:
Alinadatkoski 8/7/17 16:00	MO FAT 08/11/17 RE 08/11/17 08 1030	
Relinquished by: (signature) Date/Time	Received by: (signature) Date/Time	
Relinquished by: (signature) Date/Time	Received by: (signature) Date/Time	

Lab Use Only	Shipper Name	Air Bill #	Temp (°C)	Condition	Custody Seals Intact?	Work Order #
	UPS		NA	Good	Yes No (None)	1708203

Form 1293 rev.11

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10/2/2017
Ms. Alina Satkoski
Madison-Kipp Corporation
201 Waubesa Street

Madison WI 53704

Project Name: SVE
Project #:
Workorder #: 1709370

Dear Ms. Alina Satkoski

The following report includes the data for the above referenced project for sample(s) received on 9/20/2017 at Air Toxics Ltd.

The data and associated QC analyzed by TO-15 are compliant with the project requirements or laboratory criteria with the exception of the deviations noted in the attached case narrative.

Thank you for choosing Eurofins Air Toxics Inc. for your air analysis needs. Eurofins Air Toxics Inc. is committed to providing accurate data of the highest quality. Please feel free to contact the Project Manager: Ausha Scott at 916-985-1000 if you have any questions regarding the data in this report.

Regards,

Ausha Scott

Project Manager

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WORK ORDER #: 1709370

Work Order Summary

CLIENT:	Ms. Alina Satkoski Madison-Kipp Corporation 201 Waubesa Street Madison, WI 53704	**BILL TO:**	Ms. Alina Satkoski Madison-Kipp Corporation 201 Waubesa Street Madison, WI 53704
PHONE:	608-244-3511	**P.O. #**	107418
FAX:		**PROJECT #**	SVE
DATE RECEIVED:	09/20/2017	**CONTACT:**	Ausha Scott
DATE COMPLETED:	10/02/2017		

FRACTION #	NAME	TEST	RECEIPT VAC./PRES.	FINAL PRESSURE
01A	Combined Influent	TO-15	3.9 "Hg	14.9 psi
02A	Combined Effluent	TO-15	3.5 "Hg	15 psi
03A	GETS Influent	TO-15	7.3 "Hg	14.8 psi
04A	SVE Influent	TO-15	8.6 "Hg	15 psi
05A	SVE-2	TO-15	7.3 "Hg	15.1 psi
06A	Lab Blank	TO-15	NA	NA
07A	CCV	TO-15	NA	NA
08A	LCS	TO-15	NA	NA
08AA	LCSD	TO-15	NA	NA

CERTIFIED BY: Heidi Hayes DATE: 10/02/17

Technical Director

Certification numbers: AZ Licensure AZ0775, NJ NELAP - CA016, NY NELAP - 11291,
TX NELAP - T104704434-16-11, UT NELAP CA0093332016-7, VA NELAP - 8113, WA NELAP - C935
Name of Accreditation Body: NELAP/ORELAP (Oregon Environmental Laboratory Accreditation Program)
Accreditation number: CA300005, Effective date: 10/18/2016, Expiration date: 10/17/2017.
Eurofins Air Toxics Inc.. certifies that the test results contained in this report meet all requirements of the NELAC standards

LABORATORY NARRATIVE
EPA Method TO-15
Madison-Kipp Corporation
Workorder# 1709370

Five 1 Liter Summa Canister samples were received on September 20, 2017. The laboratory performed analysis via EPA Method TO-15 using GC/MS in the full scan mode.

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.

Receiving Notes

There were no receiving discrepancies.

Analytical Notes

Dilution was performed on samples Combined Influent, Combined Effluent and GETS Influent due to the presence of high level target species.

Definition of Data Qualifying Flags

Ten 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 not 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, LOD, or MDL value. See data page for project specific U-flag definition.

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

N - The identification is based on presumptive evidence.

M - Reported value may be biased due to apparent matrix interferences.

CN - See Case Narrative.

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

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

Client Sample ID: Combined Influent

Lab ID#: 1709370-01A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
cis-1,2-Dichloroethene	15	440	61	1700
Trichloroethene	15	490	83	2600
Tetrachloroethene	15	2900	100	20000

Client Sample ID: Combined Effluent

Lab ID#: 1709370-02A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Vinyl Chloride	4.6	5.3	12	13
cis-1,2-Dichloroethene	4.6	450	18	1800
Trichloroethene	4.6	1500	24	8000
Tetrachloroethene	4.6	230	31	1600

Client Sample ID: GETS Influent

Lab ID#: 1709370-03A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
cis-1,2-Dichloroethene	26	740	100	2900
Trichloroethene	26	920	140	5000
Tetrachloroethene	26	6000	180	41000

Client Sample ID: SVE Influent

Lab ID#: 1709370-04A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
cis-1,2-Dichloroethene	1.4	45	5.6	180
Trichloroethene	1.4	16	7.6	85
Toluene	1.4	2.7	5.3	10
Tetrachloroethene	1.4	38	9.6	260

Client Sample ID: SVE-2

Lab ID#: 1709370-05A

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

Client Sample ID: SVE-2

Lab ID#: 1709370-05A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Vinyl Chloride	1.3	1.6	3.4	4.0
cis-1,2-Dichloroethene	1.3	110	5.3	430
Trichloroethene	1.3	58	7.2	310
Tetrachloroethene	1.3	130	9.1	870

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Client Sample ID: Combined Influent

Lab ID#: 1709370-01A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3092206**	**Date of Collection:**	**9/14/17 7:30:00 AM**
Dil. Factor:	**30.8**	**Date of Analysis:**	**9/22/17 01:03 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	15	Not Detected	76	Not Detected
Freon 114	15	Not Detected	110	Not Detected
Chloromethane	150	Not Detected	320	Not Detected
Vinyl Chloride	15	Not Detected	39	Not Detected
Bromomethane	150	Not Detected	600	Not Detected
Chloroethane	62	Not Detected	160	Not Detected
Freon 11	15	Not Detected	86	Not Detected
Freon 113	15	Not Detected	120	Not Detected
1,1-Dichloroethene	15	Not Detected	61	Not Detected
Methylene Chloride	150	Not Detected	540	Not Detected
Methyl tert-butyl ether	62	Not Detected	220	Not Detected
1,1-Dichloroethane	15	Not Detected	62	Not Detected
cis-1,2-Dichloroethene	15	440	61	1700
Chloroform	15	Not Detected	75	Not Detected
1,1,1-Trichloroethane	15	Not Detected	84	Not Detected
Carbon Tetrachloride	15	Not Detected	97	Not Detected
Benzene	15	Not Detected	49	Not Detected
1,2-Dichloroethane	15	Not Detected	62	Not Detected
Trichloroethene	15	490	83	2600
1,2-Dichloropropane	15	Not Detected	71	Not Detected
cis-1,3-Dichloropropene	15	Not Detected	70	Not Detected
Toluene	15	Not Detected	58	Not Detected
trans-1,3-Dichloropropene	15	Not Detected	70	Not Detected
1,1,2-Trichloroethane	15	Not Detected	84	Not Detected
Tetrachloroethene	15	2900	100	20000
1,2-Dibromoethane (EDB)	15	Not Detected	120	Not Detected
Chlorobenzene	15	Not Detected	71	Not Detected
Ethyl Benzene	15	Not Detected	67	Not Detected
m,p-Xylene	15	Not Detected	67	Not Detected
o-Xylene	15	Not Detected	67	Not Detected
Styrene	15	Not Detected	66	Not Detected
1,1,2,2-Tetrachloroethane	15	Not Detected	100	Not Detected
1,3,5-Trimethylbenzene	15	Not Detected	76	Not Detected
1,2,4-Trimethylbenzene	15	Not Detected	76	Not Detected
1,3-Dichlorobenzene	15	Not Detected	92	Not Detected
1,4-Dichlorobenzene	15	Not Detected	92	Not Detected
alpha-Chlorotoluene	15	Not Detected	80	Not Detected
1,2-Dichlorobenzene	15	Not Detected	92	Not Detected
1,2,4-Trichlorobenzene	62	Not Detected	460	Not Detected
Hexachlorobutadiene	62	Not Detected	660	Not Detected

Container Type: 1 Liter Summa Canister

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Client Sample ID: Combined Influent

Lab ID#: 1709370-01A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3092206**	**Date of Collection: 9/14/17 7:30:00 AM**	
Dil. Factor:	**30.8**	**Date of Analysis: 9/22/17 01:03 PM**	

Surrogates	%Recovery	Method Limits
Toluene-d8	97	70-130
1,2-Dichloroethane-d4	86	70-130
4-Bromofluorobenzene	94	70-130

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Client Sample ID: Combined Effluent

Lab ID#: 1709370-02A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3092207**	**Date of Collection:**	**9/14/17 7:35:00 AM**
Dil. Factor:	**9.15**	**Date of Analysis:**	**9/22/17 01:28 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	4.6	Not Detected	23	Not Detected
Freon 114	4.6	Not Detected	32	Not Detected
Chloromethane	46	Not Detected	94	Not Detected
Vinyl Chloride	4.6	5.3	12	13
Bromomethane	46	Not Detected	180	Not Detected
Chloroethane	18	Not Detected	48	Not Detected
Freon 11	4.6	Not Detected	26	Not Detected
Freon 113	4.6	Not Detected	35	Not Detected
1,1-Dichloroethene	4.6	Not Detected	18	Not Detected
Methylene Chloride	46	Not Detected	160	Not Detected
Methyl tert-butyl ether	18	Not Detected	66	Not Detected
1,1-Dichloroethane	4.6	Not Detected	18	Not Detected
cis-1,2-Dichloroethene	4.6	450	18	1800
Chloroform	4.6	Not Detected	22	Not Detected
1,1,1-Trichloroethane	4.6	Not Detected	25	Not Detected
Carbon Tetrachloride	4.6	Not Detected	29	Not Detected
Benzene	4.6	Not Detected	15	Not Detected
1,2-Dichloroethane	4.6	Not Detected	18	Not Detected
Trichloroethene	4.6	1500	24	8000
1,2-Dichloropropane	4.6	Not Detected	21	Not Detected
cis-1,3-Dichloropropene	4.6	Not Detected	21	Not Detected
Toluene	4.6	Not Detected	17	Not Detected
trans-1,3-Dichloropropene	4.6	Not Detected	21	Not Detected
1,1,2-Trichloroethane	4.6	Not Detected	25	Not Detected
Tetrachloroethene	4.6	230	31	1600
1,2-Dibromoethane (EDB)	4.6	Not Detected	35	Not Detected
Chlorobenzene	4.6	Not Detected	21	Not Detected
Ethyl Benzene	4.6	Not Detected	20	Not Detected
m,p-Xylene	4.6	Not Detected	20	Not Detected
o-Xylene	4.6	Not Detected	20	Not Detected
Styrene	4.6	Not Detected	19	Not Detected
1,1,2,2-Tetrachloroethane	4.6	Not Detected	31	Not Detected
1,3,5-Trimethylbenzene	4.6	Not Detected	22	Not Detected
1,2,4-Trimethylbenzene	4.6	Not Detected	22	Not Detected
1,3-Dichlorobenzene	4.6	Not Detected	28	Not Detected
1,4-Dichlorobenzene	4.6	Not Detected	28	Not Detected
alpha-Chlorotoluene	4.6	Not Detected	24	Not Detected
1,2-Dichlorobenzene	4.6	Not Detected	28	Not Detected
1,2,4-Trichlorobenzene	18	Not Detected	140	Not Detected
Hexachlorobutadiene	18	Not Detected	200	Not Detected

Container Type: 1 Liter Summa Canister

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Client Sample ID: Combined Effluent

Lab ID#: 1709370-02A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3092207**	**Date of Collection: 9/14/17 7:35:00 AM**	
Dil. Factor:	**9.15**	**Date of Analysis: 9/22/17 01:28 PM**	

Surrogates	%Recovery	Method Limits
Toluene-d8	101	70-130
1,2-Dichloroethane-d4	87	70-130
4-Bromofluorobenzene	96	70-130

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Client Sample ID: GETS Influent

Lab ID#: 1709370-03A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3092208**	**Date of Collection:**	**9/14/17 7:40:00 AM**
Dil. Factor:	**53.0**	**Date of Analysis:**	**9/22/17 01:52 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	26	Not Detected	130	Not Detected
Freon 114	26	Not Detected	180	Not Detected
Chloromethane	260	Not Detected	550	Not Detected
Vinyl Chloride	26	Not Detected	68	Not Detected
Bromomethane	260	Not Detected	1000	Not Detected
Chloroethane	110	Not Detected	280	Not Detected
Freon 11	26	Not Detected	150	Not Detected
Freon 113	26	Not Detected	200	Not Detected
1,1-Dichloroethene	26	Not Detected	100	Not Detected
Methylene Chloride	260	Not Detected	920	Not Detected
Methyl tert-butyl ether	110	Not Detected	380	Not Detected
1,1-Dichloroethane	26	Not Detected	110	Not Detected
cis-1,2-Dichloroethene	26	740	100	2900
Chloroform	26	Not Detected	130	Not Detected
1,1,1-Trichloroethane	26	Not Detected	140	Not Detected
Carbon Tetrachloride	26	Not Detected	170	Not Detected
Benzene	26	Not Detected	85	Not Detected
1,2-Dichloroethane	26	Not Detected	110	Not Detected
Trichloroethene	26	920	140	5000
1,2-Dichloropropane	26	Not Detected	120	Not Detected
cis-1,3-Dichloropropene	26	Not Detected	120	Not Detected
Toluene	26	Not Detected	100	Not Detected
trans-1,3-Dichloropropene	26	Not Detected	120	Not Detected
1,1,2-Trichloroethane	26	Not Detected	140	Not Detected
Tetrachloroethene	26	6000	180	41000
1,2-Dibromoethane (EDB)	26	Not Detected	200	Not Detected
Chlorobenzene	26	Not Detected	120	Not Detected
Ethyl Benzene	26	Not Detected	120	Not Detected
m,p-Xylene	26	Not Detected	120	Not Detected
o-Xylene	26	Not Detected	120	Not Detected
Styrene	26	Not Detected	110	Not Detected
1,1,2,2-Tetrachloroethane	26	Not Detected	180	Not Detected
1,3,5-Trimethylbenzene	26	Not Detected	130	Not Detected
1,2,4-Trimethylbenzene	26	Not Detected	130	Not Detected
1,3-Dichlorobenzene	26	Not Detected	160	Not Detected
1,4-Dichlorobenzene	26	Not Detected	160	Not Detected
alpha-Chlorotoluene	26	Not Detected	140	Not Detected
1,2-Dichlorobenzene	26	Not Detected	160	Not Detected
1,2,4-Trichlorobenzene	110	Not Detected	790	Not Detected
Hexachlorobutadiene	110	Not Detected	1100	Not Detected

Container Type: 1 Liter Summa Canister

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Client Sample ID: GETS Influent

Lab ID#: 1709370-03A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3092208**	**Date of Collection: 9/14/17 7:40:00 AM**	
Dil. Factor:	**53.0**	**Date of Analysis: 9/22/17 01:52 PM**	

Surrogates	%Recovery	Method Limits
Toluene-d8	97	70-130
1,2-Dichloroethane-d4	88	70-130
4-Bromofluorobenzene	94	70-130

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Client Sample ID: SVE Influent

Lab ID#: 1709370-04A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3092210**	**Date of Collection:**	**9/14/17 9:35:00 AM**
Dil. Factor:	**2.83**	**Date of Analysis:**	**9/22/17 02:46 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	1.4	Not Detected	7.0	Not Detected
Freon 114	1.4	Not Detected	9.9	Not Detected
Chloromethane	14	Not Detected	29	Not Detected
Vinyl Chloride	1.4	Not Detected	3.6	Not Detected
Bromomethane	14	Not Detected	55	Not Detected
Chloroethane	5.7	Not Detected	15	Not Detected
Freon 11	1.4	Not Detected	8.0	Not Detected
Freon 113	1.4	Not Detected	11	Not Detected
1,1-Dichloroethene	1.4	Not Detected	5.6	Not Detected
Methylene Chloride	14	Not Detected	49	Not Detected
Methyl tert-butyl ether	5.7	Not Detected	20	Not Detected
1,1-Dichloroethane	1.4	Not Detected	5.7	Not Detected
cis-1,2-Dichloroethene	1.4	45	5.6	180
Chloroform	1.4	Not Detected	6.9	Not Detected
1,1,1-Trichloroethane	1.4	Not Detected	7.7	Not Detected
Carbon Tetrachloride	1.4	Not Detected	8.9	Not Detected
Benzene	1.4	Not Detected	4.5	Not Detected
1,2-Dichloroethane	1.4	Not Detected	5.7	Not Detected
Trichloroethene	1.4	16	7.6	85
1,2-Dichloropropane	1.4	Not Detected	6.5	Not Detected
cis-1,3-Dichloropropene	1.4	Not Detected	6.4	Not Detected
Toluene	1.4	2.7	5.3	10
trans-1,3-Dichloropropene	1.4	Not Detected	6.4	Not Detected
1,1,2-Trichloroethane	1.4	Not Detected	7.7	Not Detected
Tetrachloroethene	1.4	38	9.6	260
1,2-Dibromoethane (EDB)	1.4	Not Detected	11	Not Detected
Chlorobenzene	1.4	Not Detected	6.5	Not Detected
Ethyl Benzene	1.4	Not Detected	6.1	Not Detected
m,p-Xylene	1.4	Not Detected	6.1	Not Detected
o-Xylene	1.4	Not Detected	6.1	Not Detected
Styrene	1.4	Not Detected	6.0	Not Detected
1,1,2,2-Tetrachloroethane	1.4	Not Detected	9.7	Not Detected
1,3,5-Trimethylbenzene	1.4	Not Detected	7.0	Not Detected
1,2,4-Trimethylbenzene	1.4	Not Detected	7.0	Not Detected
1,3-Dichlorobenzene	1.4	Not Detected	8.5	Not Detected
1,4-Dichlorobenzene	1.4	Not Detected	8.5	Not Detected
alpha-Chlorotoluene	1.4	Not Detected	7.3	Not Detected
1,2-Dichlorobenzene	1.4	Not Detected	8.5	Not Detected
1,2,4-Trichlorobenzene	5.7	Not Detected	42	Not Detected
Hexachlorobutadiene	5.7	Not Detected	60	Not Detected

Container Type: 1 Liter Summa Canister

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Client Sample ID: SVE Influent

Lab ID#: 1709370-04A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3092210**	**Date of Collection: 9/14/17 9:35:00 AM**	
Dil. Factor:	**2.83**	**Date of Analysis: 9/22/17 02:46 PM**	

Surrogates	%Recovery	Method Limits
Toluene-d8	95	70-130
1,2-Dichloroethane-d4	88	70-130
4-Bromofluorobenzene	96	70-130

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Client Sample ID: SVE-2

Lab ID#: 1709370-05A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3092211**	**Date of Collection:**	**9/14/17 8:45:00 AM**
Dil. Factor:	**2.68**	**Date of Analysis:**	**9/22/17 03:13 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	1.3	Not Detected	6.6	Not Detected
Freon 114	1.3	Not Detected	9.4	Not Detected
Chloromethane	13	Not Detected	28	Not Detected
Vinyl Chloride	1.3	1.6	3.4	4.0
Bromomethane	13	Not Detected	52	Not Detected
Chloroethane	5.4	Not Detected	14	Not Detected
Freon 11	1.3	Not Detected	7.5	Not Detected
Freon 113	1.3	Not Detected	10	Not Detected
1,1-Dichloroethene	1.3	Not Detected	5.3	Not Detected
Methylene Chloride	13	Not Detected	46	Not Detected
Methyl tert-butyl ether	5.4	Not Detected	19	Not Detected
1,1-Dichloroethane	1.3	Not Detected	5.4	Not Detected
cis-1,2-Dichloroethene	1.3	110	5.3	430
Chloroform	1.3	Not Detected	6.5	Not Detected
1,1,1-Trichloroethane	1.3	Not Detected	7.3	Not Detected
Carbon Tetrachloride	1.3	Not Detected	8.4	Not Detected
Benzene	1.3	Not Detected	4.3	Not Detected
1,2-Dichloroethane	1.3	Not Detected	5.4	Not Detected
Trichloroethene	1.3	58	7.2	310
1,2-Dichloropropane	1.3	Not Detected	6.2	Not Detected
cis-1,3-Dichloropropene	1.3	Not Detected	6.1	Not Detected
Toluene	1.3	Not Detected	5.0	Not Detected
trans-1,3-Dichloropropene	1.3	Not Detected	6.1	Not Detected
1,1,2-Trichloroethane	1.3	Not Detected	7.3	Not Detected
Tetrachloroethene	1.3	130	9.1	870
1,2-Dibromoethane (EDB)	1.3	Not Detected	10	Not Detected
Chlorobenzene	1.3	Not Detected	6.2	Not Detected
Ethyl Benzene	1.3	Not Detected	5.8	Not Detected
m,p-Xylene	1.3	Not Detected	5.8	Not Detected
o-Xylene	1.3	Not Detected	5.8	Not Detected
Styrene	1.3	Not Detected	5.7	Not Detected
1,1,2,2-Tetrachloroethane	1.3	Not Detected	9.2	Not Detected
1,3,5-Trimethylbenzene	1.3	Not Detected	6.6	Not Detected
1,2,4-Trimethylbenzene	1.3	Not Detected	6.6	Not Detected
1,3-Dichlorobenzene	1.3	Not Detected	8.0	Not Detected
1,4-Dichlorobenzene	1.3	Not Detected	8.0	Not Detected
alpha-Chlorotoluene	1.3	Not Detected	6.9	Not Detected
1,2-Dichlorobenzene	1.3	Not Detected	8.0	Not Detected
1,2,4-Trichlorobenzene	5.4	Not Detected	40	Not Detected
Hexachlorobutadiene	5.4	Not Detected	57	Not Detected

Container Type: 1 Liter Summa Canister

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Client Sample ID: SVE-2

Lab ID#: 1709370-05A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3092211**	**Date of Collection:**	**9/14/17 8:45:00 AM**
Dil. Factor:	**2.68**	**Date of Analysis:**	**9/22/17 03:13 PM**

Surrogates	%Recovery	Method Limits
Toluene-d8	98	70-130
1,2-Dichloroethane-d4	91	70-130
4-Bromofluorobenzene	93	70-130

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Client Sample ID: Lab Blank

Lab ID#: 1709370-06A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3092205**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 9/22/17 10:37 AM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.50	Not Detected	2.5	Not Detected
Freon 114	0.50	Not Detected	3.5	Not Detected
Chloromethane	5.0	Not Detected	10	Not Detected
Vinyl Chloride	0.50	Not Detected	1.3	Not Detected
Bromomethane	5.0	Not Detected	19	Not Detected
Chloroethane	2.0	Not Detected	5.3	Not Detected
Freon 11	0.50	Not Detected	2.8	Not Detected
Freon 113	0.50	Not Detected	3.8	Not Detected
1,1-Dichloroethene	0.50	Not Detected	2.0	Not Detected
Methylene Chloride	5.0	Not Detected	17	Not Detected
Methyl tert-butyl ether	2.0	Not Detected	7.2	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
Chloroform	0.50	Not Detected	2.4	Not Detected
1,1,1-Trichloroethane	0.50	Not Detected	2.7	Not Detected
Carbon Tetrachloride	0.50	Not Detected	3.1	Not Detected
Benzene	0.50	Not Detected	1.6	Not Detected
1,2-Dichloroethane	0.50	Not Detected	2.0	Not Detected
Trichloroethene	0.50	Not Detected	2.7	Not Detected
1,2-Dichloropropane	0.50	Not Detected	2.3	Not Detected
cis-1,3-Dichloropropene	0.50	Not Detected	2.3	Not Detected
Toluene	0.50	Not Detected	1.9	Not Detected
trans-1,3-Dichloropropene	0.50	Not Detected	2.3	Not Detected
1,1,2-Trichloroethane	0.50	Not Detected	2.7	Not Detected
Tetrachloroethene	0.50	Not Detected	3.4	Not Detected
1,2-Dibromoethane (EDB)	0.50	Not Detected	3.8	Not Detected
Chlorobenzene	0.50	Not Detected	2.3	Not Detected
Ethyl Benzene	0.50	Not Detected	2.2	Not Detected
m,p-Xylene	0.50	Not Detected	2.2	Not Detected
o-Xylene	0.50	Not Detected	2.2	Not Detected
Styrene	0.50	Not Detected	2.1	Not Detected
1,1,2,2-Tetrachloroethane	0.50	Not Detected	3.4	Not Detected
1,3,5-Trimethylbenzene	0.50	Not Detected	2.4	Not Detected
1,2,4-Trimethylbenzene	0.50	Not Detected	2.4	Not Detected
1,3-Dichlorobenzene	0.50	Not Detected	3.0	Not Detected
1,4-Dichlorobenzene	0.50	Not Detected	3.0	Not Detected
alpha-Chlorotoluene	0.50	Not Detected	2.6	Not Detected
1,2-Dichlorobenzene	0.50	Not Detected	3.0	Not Detected
1,2,4-Trichlorobenzene	2.0	Not Detected	15	Not Detected
Hexachlorobutadiene	2.0	Not Detected	21	Not Detected

Container Type: NA - Not Applicable

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Client Sample ID: Lab Blank

Lab ID#: 1709370-06A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3092205**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 9/22/17 10:37 AM**	

Surrogates	%Recovery	Method Limits
Toluene-d8	98	70-130
1,2-Dichloroethane-d4	89	70-130
4-Bromofluorobenzene	94	70-130

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Client Sample ID: CCV

Lab ID#: 1709370-07A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3092202**	**Date of Collection: NA**
Dil. Factor:	**1.00**	**Date of Analysis: 9/22/17 08:40 AM**

Compound	%Recovery
Freon 12	84
Freon 114	92
Chloromethane	86
Vinyl Chloride	86
Bromomethane	94
Chloroethane	86
Freon 11	84
Freon 113	92
1,1-Dichloroethene	85
Methylene Chloride	86
Methyl tert-butyl ether	76
1,1-Dichloroethane	87
cis-1,2-Dichloroethene	81
Chloroform	87
1,1,1-Trichloroethane	85
Carbon Tetrachloride	89
Benzene	97
1,2-Dichloroethane	90
Trichloroethene	94
1,2-Dichloropropane	98
cis-1,3-Dichloropropene	95
Toluene	97
trans-1,3-Dichloropropene	87
1,1,2-Trichloroethane	99
Tetrachloroethene	97
1,2-Dibromoethane (EDB)	97
Chlorobenzene	97
Ethyl Benzene	97
m,p-Xylene	98
o-Xylene	94
Styrene	108
1,1,2,2-Tetrachloroethane	99
1,3,5-Trimethylbenzene	104
1,2,4-Trimethylbenzene	95
1,3-Dichlorobenzene	102
1,4-Dichlorobenzene	101
alpha-Chlorotoluene	98
1,2-Dichlorobenzene	103
1,2,4-Trichlorobenzene	101
Hexachlorobutadiene	104

Container Type: NA - Not Applicable

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Client Sample ID: CCV

Lab ID#: 1709370-07A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3092202**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 9/22/17 08:40 AM**	

Surrogates	%Recovery	Method Limits
Toluene-d8	103	70-130
1,2-Dichloroethane-d4	84	70-130
4-Bromofluorobenzene	102	70-130

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Client Sample ID: LCS

Lab ID#: 1709370-08A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3092203**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 9/22/17 09:20 AM**	

Compound	%Recovery	Method Limits
Freon 12	90	70-130
Freon 114	101	70-130
Chloromethane	89	70-130
Vinyl Chloride	94	70-130
Bromomethane	99	70-130
Chloroethane	93	70-130
Freon 11	90	70-130
Freon 113	94	70-130
1,1-Dichloroethene	88	70-130
Methylene Chloride	88	70-130
Methyl tert-butyl ether	78	70-130
1,1-Dichloroethane	89	70-130
cis-1,2-Dichloroethene	91	70-130
Chloroform	90	70-130
1,1,1-Trichloroethane	88	70-130
Carbon Tetrachloride	91	70-130
Benzene	102	70-130
1,2-Dichloroethane	92	70-130
Trichloroethene	101	70-130
1,2-Dichloropropane	102	70-130
cis-1,3-Dichloropropene	93	70-130
Toluene	101	70-130
trans-1,3-Dichloropropene	90	70-130
1,1,2-Trichloroethane	101	70-130
Tetrachloroethene	100	70-130
1,2-Dibromoethane (EDB)	100	70-130
Chlorobenzene	98	70-130
Ethyl Benzene	98	70-130
m,p-Xylene	99	70-130
o-Xylene	99	70-130
Styrene	109	70-130
1,1,2,2-Tetrachloroethane	100	70-130
1,3,5-Trimethylbenzene	104	70-130
1,2,4-Trimethylbenzene	98	70-130
1,3-Dichlorobenzene	105	70-130
1,4-Dichlorobenzene	104	70-130
alpha-Chlorotoluene	103	70-130
1,2-Dichlorobenzene	105	70-130
1,2,4-Trichlorobenzene	106	70-130
Hexachlorobutadiene	106	70-130

Container Type: NA - Not Applicable

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Client Sample ID: LCS

Lab ID#: 1709370-08A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3092203**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 9/22/17 09:20 AM**	

Surrogates	%Recovery	Method Limits
Toluene-d8	102	70-130
1,2-Dichloroethane-d4	84	70-130
4-Bromofluorobenzene	101	70-130

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Client Sample ID: LCSD

Lab ID#: 1709370-08AA

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3092204**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 9/22/17 09:45 AM**	

Compound	%Recovery	Method Limits
Freon 12	89	70-130
Freon 114	100	70-130
Chloromethane	90	70-130
Vinyl Chloride	93	70-130
Bromomethane	98	70-130
Chloroethane	91	70-130
Freon 11	89	70-130
Freon 113	94	70-130
1,1-Dichloroethene	88	70-130
Methylene Chloride	88	70-130
Methyl tert-butyl ether	78	70-130
1,1-Dichloroethane	89	70-130
cis-1,2-Dichloroethene	90	70-130
Chloroform	90	70-130
1,1,1-Trichloroethane	88	70-130
Carbon Tetrachloride	92	70-130
Benzene	101	70-130
1,2-Dichloroethane	92	70-130
Trichloroethene	102	70-130
1,2-Dichloropropane	100	70-130
cis-1,3-Dichloropropene	94	70-130
Toluene	101	70-130
trans-1,3-Dichloropropene	90	70-130
1,1,2-Trichloroethane	102	70-130
Tetrachloroethene	100	70-130
1,2-Dibromoethane (EDB)	100	70-130
Chlorobenzene	99	70-130
Ethyl Benzene	99	70-130
m,p-Xylene	98	70-130
o-Xylene	99	70-130
Styrene	109	70-130
1,1,2,2-Tetrachloroethane	100	70-130
1,3,5-Trimethylbenzene	106	70-130
1,2,4-Trimethylbenzene	98	70-130
1,3-Dichlorobenzene	106	70-130
1,4-Dichlorobenzene	104	70-130
alpha-Chlorotoluene	104	70-130
1,2-Dichlorobenzene	105	70-130
1,2,4-Trichlorobenzene	109	70-130
Hexachlorobutadiene	110	70-130

Container Type: NA - Not Applicable

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Client Sample ID: LCSD

Lab ID#: 1709370-08AA

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3092204**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 9/22/17 09:45 AM**	

Surrogates	%Recovery	Method Limits
Toluene-d8	102	70-130
1,2-Dichloroethane-d4	85	70-130
4-Bromofluorobenzene	101	70-130

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Sample Transportation Notice
Relinquishing signature on this document indicates that sample is being shipped in compliance with all applicable local, State, Federal, national, and international laws, regulations and ordinances of any kind. Air Toxics Limited assumes no liability with respect to the collection, handling or shipping of these samples. Relinquishing signature also indicates agreement to hold harmless, defend, and indemnify Air Toxics Limited against any claim, demand, or action, of any kind, related to the collection, handling, or shipping of samples. D.O.T. Hotline (800) 467-4922

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

Project Manager: Alina Satkoski
Collected by: (Print and Sign) Alina Satkoski
Company: Madison-Kipp Email: asatkoski@madison-kipp.com
Address: 201 Waubesa St. City: Madison State: WI Zip: 53704
Phone: 6082425200 Fax: —

Project Info:
P.O. # 107418
Project #
Project Name: SVE/GETS

Turn Around Time:
☒ Normal
☐ Rush
specify

Lab Use Only
Pressurized by:
Date:
Pressurization Gas: N 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)
01A	Combined Influent	1L1505	9/14/17	730	TO-15	-27	-5		
02A	Combined Effluent	36518	9/14/17	735	TO-15	-30	-4.5		
03A	GETS Influent	1L2624	9/14/17	740	TO-15	-29.5	-7		
04A	SVE Influent	1L2462	9/14/17	935	TO-15	-28	-7		
05A	SVE-2	1L1617	9/14/17	845	TO-15	-25	-6.5		

Relinquished by: (signature)	Date/Time	Received by: (signature)	Date/Time
[signature]	9/14/17 12:00	[signature]	09/20/17 1125
Relinquished by: (signature)	Date/Time	Received by: (signature)	Date/Time
Relinquished by: (signature)	Date/Time	Received by: (signature)	Date/Time

Notes:
Report to Alina Satkoski + Andy Stehn (CRC)

2 Boxes Shipped

Lab Use Only	Shipper Name	Air Bill #	Temp (°C)	Condition	Custody Seals Intact?	Work Order #
	CAS		NA	Good	Yes No (None)	1709370

Form 1005 rev 1

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10/23/2017
Ms. Alina Satkoski
Madison-Kipp Corporation
201 Waubesa Street

Madison WI 53704

Project Name: GETS/SVE
Project #:
Workorder #: 1710219

Dear Ms. Alina Satkoski

The following report includes the data for the above referenced project for sample(s) received on 10/11/2017 at Air Toxics Ltd.

The data and associated QC analyzed by TO-15 are compliant with the project requirements or laboratory criteria with the exception of the deviations noted in the attached case narrative.

Thank you for choosing Eurofins Air Toxics Inc. for your air analysis needs. Eurofins Air Toxics Inc. is committed to providing accurate data of the highest quality. Please feel free to contact the Project Manager: Ausha Scott at 916-985-1000 if you have any questions regarding the data in this report.

Regards,

Ausha Scott

Project Manager

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WORK ORDER #: 1710219

Work Order Summary

CLIENT:	Ms. Alina Satkoski Madison-Kipp Corporation 201 Waubesa Street Madison, WI 53704	**BILL TO:**	Ms. Alina Satkoski Madison-Kipp Corporation 201 Waubesa Street Madison, WI 53704
PHONE:	608-244-3511	**P.O. #**	107418
FAX:		**PROJECT #**	GETS/SVE
DATE RECEIVED:	10/11/2017	**CONTACT:**	Ausha Scott
DATE COMPLETED:	10/23/2017		

FRACTION #	NAME	TEST	RECEIPT VAC./PRES.	FINAL PRESSURE
01A	Combined Influent	TO-15	4.3 "Hg	14.8 psi
02A	Combined Effluent	TO-15	2 "Hg	14.4 psi
03A	GETS Influent	TO-15	3.1 "Hg	15 psi
04A	Lab Blank	TO-15	NA	NA
04B	Lab Blank	TO-15	NA	NA
05A	CCV	TO-15	NA	NA
05B	CCV	TO-15	NA	NA
06A	LCS	TO-15	NA	NA
06AA	LCSD	TO-15	NA	NA
06B	LCS	TO-15	NA	NA
06BB	LCSD	TO-15	NA	NA

CERTIFIED BY: Heidi Hayes DATE: 10/23/17

Technical Director

Certification numbers: AZ Licensure AZ0775, NJ NELAP - CA016, NY NELAP - 11291,
TX NELAP - T104704434-16-11, UT NELAP CA0093332016-7, VA NELAP - 8113, WA NELAP - C935
Name of Accreditation Body: NELAP/ORELAP (Oregon Environmental Laboratory Accreditation Program)
Accreditation number: CA300005, Effective date: 10/18/2016, Expiration date: 10/17/2017.
Eurofins Air Toxics Inc.. certifies that the test results contained in this report meet all requirements of the NELAC standards

LABORATORY NARRATIVE
EPA Method TO-15
Madison-Kipp Corporation
Workorder# 1710219

Three 1 Liter Summa Canister samples were received on October 11, 2017. The laboratory performed analysis via EPA Method TO-15 using GC/MS in the full scan mode.

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.

Receiving Notes

There were no receiving discrepancies.

Analytical Notes

Dilution was performed on samples Combined Influent, Combined Effluent and GETS Influent due to the presence of high level target species.

Definition of Data Qualifying Flags

Ten 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 not 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, LOD, or MDL value. See data page for project specific U-flag definition.

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

N - The identification is based on presumptive evidence.

M - Reported value may be biased due to apparent matrix interferences.

CN - See Case Narrative.

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

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

Client Sample ID: Combined Influent

Lab ID#: 1710219-01A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
cis-1,2-Dichloroethene	4.7	280	18	1100
Trichloroethene	4.7	270	25	1400
Tetrachloroethene	4.7	1300	32	9100

Client Sample ID: Combined Effluent

Lab ID#: 1710219-02A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Vinyl Chloride	2.6	6.8	6.8	17
cis-1,2-Dichloroethene	2.6	720	10	2900
Trichloroethene	2.6	1000	14	5500
Tetrachloroethene	2.6	200	18	1400

Client Sample ID: GETS Influent

Lab ID#: 1710219-03A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
cis-1,2-Dichloroethene	22	790	89	3100
Trichloroethene	22	900	120	4800
Tetrachloroethene	22	5700	150	39000

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Client Sample ID: Combined Influent

Lab ID#: 1710219-01A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3101711**	**Date of Collection: 10/5/17 9:15:00 AM**	
Dil. Factor:	**9.37**	**Date of Analysis: 10/17/17 05:07 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	4.7	Not Detected	23	Not Detected
Freon 114	4.7	Not Detected	33	Not Detected
Chloromethane	47	Not Detected	97	Not Detected
Vinyl Chloride	4.7	Not Detected	12	Not Detected
Bromomethane	47	Not Detected	180	Not Detected
Chloroethane	19	Not Detected	49	Not Detected
Freon 11	4.7	Not Detected	26	Not Detected
Freon 113	4.7	Not Detected	36	Not Detected
1,1-Dichloroethene	4.7	Not Detected	18	Not Detected
Methylene Chloride	47	Not Detected	160	Not Detected
Methyl tert-butyl ether	19	Not Detected	68	Not Detected
1,1-Dichloroethane	4.7	Not Detected	19	Not Detected
cis-1,2-Dichloroethene	4.7	280	18	1100
Chloroform	4.7	Not Detected	23	Not Detected
1,1,1-Trichloroethane	4.7	Not Detected	26	Not Detected
Carbon Tetrachloride	4.7	Not Detected	29	Not Detected
Benzene	4.7	Not Detected	15	Not Detected
1,2-Dichloroethane	4.7	Not Detected	19	Not Detected
Trichloroethene	4.7	270	25	1400
1,2-Dichloropropane	4.7	Not Detected	22	Not Detected
cis-1,3-Dichloropropene	4.7	Not Detected	21	Not Detected
Toluene	4.7	Not Detected	18	Not Detected
trans-1,3-Dichloropropene	4.7	Not Detected	21	Not Detected
1,1,2-Trichloroethane	4.7	Not Detected	26	Not Detected
Tetrachloroethene	4.7	1300	32	9100
1,2-Dibromoethane (EDB)	4.7	Not Detected	36	Not Detected
Chlorobenzene	4.7	Not Detected	22	Not Detected
Ethyl Benzene	4.7	Not Detected	20	Not Detected
m,p-Xylene	4.7	Not Detected	20	Not Detected
o-Xylene	4.7	Not Detected	20	Not Detected
Styrene	4.7	Not Detected	20	Not Detected
1,1,2,2-Tetrachloroethane	4.7	Not Detected	32	Not Detected
1,3,5-Trimethylbenzene	4.7	Not Detected	23	Not Detected
1,2,4-Trimethylbenzene	4.7	Not Detected	23	Not Detected
1,3-Dichlorobenzene	4.7	Not Detected	28	Not Detected
1,4-Dichlorobenzene	4.7	Not Detected	28	Not Detected
alpha-Chlorotoluene	4.7	Not Detected	24	Not Detected
1,2-Dichlorobenzene	4.7	Not Detected	28	Not Detected
1,2,4-Trichlorobenzene	19	Not Detected	140	Not Detected
Hexachlorobutadiene	19	Not Detected	200	Not Detected

Container Type: 1 Liter Summa Canister

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Client Sample ID: Combined Influent

Lab ID#: 1710219-01A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3101711**	**Date of Collection: 10/5/17 9:15:00 AM**	
Dil. Factor:	**9.37**	**Date of Analysis: 10/17/17 05:07 PM**	

Surrogates	%Recovery	Method Limits
Toluene-d8	99	70-130
1,2-Dichloroethane-d4	83	70-130
4-Bromofluorobenzene	95	70-130

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Client Sample ID: Combined Effluent

Lab ID#: 1710219-02A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3101321**	**Date of Collection: 10/5/17 8:25:00 AM**	
Dil. Factor:	**5.30**	**Date of Analysis: 10/13/17 11:01 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	2.6	Not Detected	13	Not Detected
Freon 114	2.6	Not Detected	18	Not Detected
Chloromethane	26	Not Detected	55	Not Detected
Vinyl Chloride	2.6	6.8	6.8	17
Bromomethane	26	Not Detected	100	Not Detected
Chloroethane	11	Not Detected	28	Not Detected
Freon 11	2.6	Not Detected	15	Not Detected
Freon 113	2.6	Not Detected	20	Not Detected
1,1-Dichloroethene	2.6	Not Detected	10	Not Detected
Methylene Chloride	26	Not Detected	92	Not Detected
Methyl tert-butyl ether	11	Not Detected	38	Not Detected
1,1-Dichloroethane	2.6	Not Detected	11	Not Detected
cis-1,2-Dichloroethene	2.6	720	10	2900
Chloroform	2.6	Not Detected	13	Not Detected
1,1,1-Trichloroethane	2.6	Not Detected	14	Not Detected
Carbon Tetrachloride	2.6	Not Detected	17	Not Detected
Benzene	2.6	Not Detected	8.5	Not Detected
1,2-Dichloroethane	2.6	Not Detected	11	Not Detected
Trichloroethene	2.6	1000	14	5500
1,2-Dichloropropane	2.6	Not Detected	12	Not Detected
cis-1,3-Dichloropropene	2.6	Not Detected	12	Not Detected
Toluene	2.6	Not Detected	10	Not Detected
trans-1,3-Dichloropropene	2.6	Not Detected	12	Not Detected
1,1,2-Trichloroethane	2.6	Not Detected	14	Not Detected
Tetrachloroethene	2.6	200	18	1400
1,2-Dibromoethane (EDB)	2.6	Not Detected	20	Not Detected
Chlorobenzene	2.6	Not Detected	12	Not Detected
Ethyl Benzene	2.6	Not Detected	12	Not Detected
m,p-Xylene	2.6	Not Detected	12	Not Detected
o-Xylene	2.6	Not Detected	12	Not Detected
Styrene	2.6	Not Detected	11	Not Detected
1,1,2,2-Tetrachloroethane	2.6	Not Detected	18	Not Detected
1,3,5-Trimethylbenzene	2.6	Not Detected	13	Not Detected
1,2,4-Trimethylbenzene	2.6	Not Detected	13	Not Detected
1,3-Dichlorobenzene	2.6	Not Detected	16	Not Detected
1,4-Dichlorobenzene	2.6	Not Detected	16	Not Detected
alpha-Chlorotoluene	2.6	Not Detected	14	Not Detected
1,2-Dichlorobenzene	2.6	Not Detected	16	Not Detected
1,2,4-Trichlorobenzene	11	Not Detected	79	Not Detected
Hexachlorobutadiene	11	Not Detected	110	Not Detected

Container Type: 1 Liter Summa Canister

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Client Sample ID: Combined Effluent

Lab ID#: 1710219-02A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3101321**	**Date of Collection: 10/5/17 8:25:00 AM**	
Dil. Factor:	**5.30**	**Date of Analysis: 10/13/17 11:01 PM**	

Surrogates	%Recovery	Method Limits
Toluene-d8	103	70-130
1,2-Dichloroethane-d4	90	70-130
4-Bromofluorobenzene	99	70-130

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Client Sample ID: GETS Influent

Lab ID#: 1710219-03A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3101322**	**Date of Collection: 10/5/17 9:25:00 AM**	
Dil. Factor:	**45.1**	**Date of Analysis: 10/13/17 11:24 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	22	Not Detected	110	Not Detected
Freon 114	22	Not Detected	160	Not Detected
Chloromethane	220	Not Detected	460	Not Detected
Vinyl Chloride	22	Not Detected	58	Not Detected
Bromomethane	220	Not Detected	880	Not Detected
Chloroethane	90	Not Detected	240	Not Detected
Freon 11	22	Not Detected	130	Not Detected
Freon 113	22	Not Detected	170	Not Detected
1,1-Dichloroethene	22	Not Detected	89	Not Detected
Methylene Chloride	220	Not Detected	780	Not Detected
Methyl tert-butyl ether	90	Not Detected	320	Not Detected
1,1-Dichloroethane	22	Not Detected	91	Not Detected
cis-1,2-Dichloroethene	22	790	89	3100
Chloroform	22	Not Detected	110	Not Detected
1,1,1-Trichloroethane	22	Not Detected	120	Not Detected
Carbon Tetrachloride	22	Not Detected	140	Not Detected
Benzene	22	Not Detected	72	Not Detected
1,2-Dichloroethane	22	Not Detected	91	Not Detected
Trichloroethene	22	900	120	4800
1,2-Dichloropropane	22	Not Detected	100	Not Detected
cis-1,3-Dichloropropene	22	Not Detected	100	Not Detected
Toluene	22	Not Detected	85	Not Detected
trans-1,3-Dichloropropene	22	Not Detected	100	Not Detected
1,1,2-Trichloroethane	22	Not Detected	120	Not Detected
Tetrachloroethene	22	5700	150	39000
1,2-Dibromoethane (EDB)	22	Not Detected	170	Not Detected
Chlorobenzene	22	Not Detected	100	Not Detected
Ethyl Benzene	22	Not Detected	98	Not Detected
m,p-Xylene	22	Not Detected	98	Not Detected
o-Xylene	22	Not Detected	98	Not Detected
Styrene	22	Not Detected	96	Not Detected
1,1,2,2-Tetrachloroethane	22	Not Detected	150	Not Detected
1,3,5-Trimethylbenzene	22	Not Detected	110	Not Detected
1,2,4-Trimethylbenzene	22	Not Detected	110	Not Detected
1,3-Dichlorobenzene	22	Not Detected	140	Not Detected
1,4-Dichlorobenzene	22	Not Detected	140	Not Detected
alpha-Chlorotoluene	22	Not Detected	120	Not Detected
1,2-Dichlorobenzene	22	Not Detected	140	Not Detected
1,2,4-Trichlorobenzene	90	Not Detected	670	Not Detected
Hexachlorobutadiene	90	Not Detected	960	Not Detected

Container Type: 1 Liter Summa Canister

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Client Sample ID: GETS Influent

Lab ID#: 1710219-03A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3101322**	**Date of Collection: 10/5/17 9:25:00 AM**	
Dil. Factor:	**45.1**	**Date of Analysis: 10/13/17 11:24 PM**	

Surrogates	%Recovery	Method Limits
Toluene-d8	93	70-130
1,2-Dichloroethane-d4	92	70-130
4-Bromofluorobenzene	96	70-130

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Client Sample ID: Lab Blank

Lab ID#: 1710219-04A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3101305**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 10/13/17 12:18 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.50	Not Detected	2.5	Not Detected
Freon 114	0.50	Not Detected	3.5	Not Detected
Chloromethane	5.0	Not Detected	10	Not Detected
Vinyl Chloride	0.50	Not Detected	1.3	Not Detected
Bromomethane	5.0	Not Detected	19	Not Detected
Chloroethane	2.0	Not Detected	5.3	Not Detected
Freon 11	0.50	Not Detected	2.8	Not Detected
Freon 113	0.50	Not Detected	3.8	Not Detected
1,1-Dichloroethene	0.50	Not Detected	2.0	Not Detected
Methylene Chloride	5.0	Not Detected	17	Not Detected
Methyl tert-butyl ether	2.0	Not Detected	7.2	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
Chloroform	0.50	Not Detected	2.4	Not Detected
1,1,1-Trichloroethane	0.50	Not Detected	2.7	Not Detected
Carbon Tetrachloride	0.50	Not Detected	3.1	Not Detected
Benzene	0.50	Not Detected	1.6	Not Detected
1,2-Dichloroethane	0.50	Not Detected	2.0	Not Detected
Trichloroethene	0.50	Not Detected	2.7	Not Detected
1,2-Dichloropropane	0.50	Not Detected	2.3	Not Detected
cis-1,3-Dichloropropene	0.50	Not Detected	2.3	Not Detected
Toluene	0.50	Not Detected	1.9	Not Detected
trans-1,3-Dichloropropene	0.50	Not Detected	2.3	Not Detected
1,1,2-Trichloroethane	0.50	Not Detected	2.7	Not Detected
Tetrachloroethene	0.50	Not Detected	3.4	Not Detected
1,2-Dibromoethane (EDB)	0.50	Not Detected	3.8	Not Detected
Chlorobenzene	0.50	Not Detected	2.3	Not Detected
Ethyl Benzene	0.50	Not Detected	2.2	Not Detected
m,p-Xylene	0.50	Not Detected	2.2	Not Detected
o-Xylene	0.50	Not Detected	2.2	Not Detected
Styrene	0.50	Not Detected	2.1	Not Detected
1,1,2,2-Tetrachloroethane	0.50	Not Detected	3.4	Not Detected
1,3,5-Trimethylbenzene	0.50	Not Detected	2.4	Not Detected
1,2,4-Trimethylbenzene	0.50	Not Detected	2.4	Not Detected
1,3-Dichlorobenzene	0.50	Not Detected	3.0	Not Detected
1,4-Dichlorobenzene	0.50	Not Detected	3.0	Not Detected
alpha-Chlorotoluene	0.50	Not Detected	2.6	Not Detected
1,2-Dichlorobenzene	0.50	Not Detected	3.0	Not Detected
1,2,4-Trichlorobenzene	2.0	Not Detected	15	Not Detected
Hexachlorobutadiene	2.0	Not Detected	21	Not Detected

Container Type: NA - Not Applicable

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Client Sample ID: Lab Blank

Lab ID#: 1710219-04A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3101305**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 10/13/17 12:18 PM**	

Surrogates	%Recovery	Method Limits
Toluene-d8	96	70-130
1,2-Dichloroethane-d4	91	70-130
4-Bromofluorobenzene	103	70-130

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Client Sample ID: Lab Blank

Lab ID#: 1710219-04B

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3101707**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 10/17/17 01:53 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.50	Not Detected	2.5	Not Detected
Freon 114	0.50	Not Detected	3.5	Not Detected
Chloromethane	5.0	Not Detected	10	Not Detected
Vinyl Chloride	0.50	Not Detected	1.3	Not Detected
Bromomethane	5.0	Not Detected	19	Not Detected
Chloroethane	2.0	Not Detected	5.3	Not Detected
Freon 11	0.50	Not Detected	2.8	Not Detected
Freon 113	0.50	Not Detected	3.8	Not Detected
1,1-Dichloroethene	0.50	Not Detected	2.0	Not Detected
Methylene Chloride	5.0	Not Detected	17	Not Detected
Methyl tert-butyl ether	2.0	Not Detected	7.2	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
Chloroform	0.50	Not Detected	2.4	Not Detected
1,1,1-Trichloroethane	0.50	Not Detected	2.7	Not Detected
Carbon Tetrachloride	0.50	Not Detected	3.1	Not Detected
Benzene	0.50	Not Detected	1.6	Not Detected
1,2-Dichloroethane	0.50	Not Detected	2.0	Not Detected
Trichloroethene	0.50	Not Detected	2.7	Not Detected
1,2-Dichloropropane	0.50	Not Detected	2.3	Not Detected
cis-1,3-Dichloropropene	0.50	Not Detected	2.3	Not Detected
Toluene	0.50	Not Detected	1.9	Not Detected
trans-1,3-Dichloropropene	0.50	Not Detected	2.3	Not Detected
1,1,2-Trichloroethane	0.50	Not Detected	2.7	Not Detected
Tetrachloroethene	0.50	Not Detected	3.4	Not Detected
1,2-Dibromoethane (EDB)	0.50	Not Detected	3.8	Not Detected
Chlorobenzene	0.50	Not Detected	2.3	Not Detected
Ethyl Benzene	0.50	Not Detected	2.2	Not Detected
m,p-Xylene	0.50	Not Detected	2.2	Not Detected
o-Xylene	0.50	Not Detected	2.2	Not Detected
Styrene	0.50	Not Detected	2.1	Not Detected
1,1,2,2-Tetrachloroethane	0.50	Not Detected	3.4	Not Detected
1,3,5-Trimethylbenzene	0.50	Not Detected	2.4	Not Detected
1,2,4-Trimethylbenzene	0.50	Not Detected	2.4	Not Detected
1,3-Dichlorobenzene	0.50	Not Detected	3.0	Not Detected
1,4-Dichlorobenzene	0.50	Not Detected	3.0	Not Detected
alpha-Chlorotoluene	0.50	Not Detected	2.6	Not Detected
1,2-Dichlorobenzene	0.50	Not Detected	3.0	Not Detected
1,2,4-Trichlorobenzene	2.0	Not Detected	15	Not Detected
Hexachlorobutadiene	2.0	Not Detected	21	Not Detected

Container Type: NA - Not Applicable

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Client Sample ID: Lab Blank

Lab ID#: 1710219-04B

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3101707**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 10/17/17 01:53 PM**	

Surrogates	%Recovery	Method Limits
Toluene-d8	98	70-130
1,2-Dichloroethane-d4	90	70-130
4-Bromofluorobenzene	97	70-130

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Client Sample ID: CCV

Lab ID#: 1710219-05A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3101302**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 10/13/17 10:53 AM**	

Compound	%Recovery
Freon 12	92
Freon 114	99
Chloromethane	87
Vinyl Chloride	92
Bromomethane	103
Chloroethane	91
Freon 11	92
Freon 113	100
1,1-Dichloroethene	95
Methylene Chloride	87
Methyl tert-butyl ether	87
1,1-Dichloroethane	91
cis-1,2-Dichloroethene	86
Chloroform	90
1,1,1-Trichloroethane	90
Carbon Tetrachloride	92
Benzene	94
1,2-Dichloroethane	90
Trichloroethene	98
1,2-Dichloropropane	92
cis-1,3-Dichloropropene	96
Toluene	95
trans-1,3-Dichloropropene	92
1,1,2-Trichloroethane	98
Tetrachloroethene	98
1,2-Dibromoethane (EDB)	97
Chlorobenzene	95
Ethyl Benzene	96
m,p-Xylene	97
o-Xylene	95
Styrene	110
1,1,2,2-Tetrachloroethane	98
1,3,5-Trimethylbenzene	110
1,2,4-Trimethylbenzene	104
1,3-Dichlorobenzene	106
1,4-Dichlorobenzene	105
alpha-Chlorotoluene	95
1,2-Dichlorobenzene	106
1,2,4-Trichlorobenzene	109
Hexachlorobutadiene	109

Container Type: NA - Not Applicable

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Client Sample ID: CCV

Lab ID#: 1710219-05A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3101302**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 10/13/17 10:53 AM**	

Surrogates	%Recovery	Method Limits
Toluene-d8	98	70-130
1,2-Dichloroethane-d4	88	70-130
4-Bromofluorobenzene	106	70-130

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Client Sample ID: CCV

Lab ID#: 1710219-05B

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3101702**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 10/17/17 09:05 AM**	

Compound	%Recovery
Freon 12	84
Freon 114	94
Chloromethane	83
Vinyl Chloride	83
Bromomethane	93
Chloroethane	82
Freon 11	85
Freon 113	92
1,1-Dichloroethene	83
Methylene Chloride	86
Methyl tert-butyl ether	78
1,1-Dichloroethane	88
cis-1,2-Dichloroethene	81
Chloroform	89
1,1,1-Trichloroethane	88
Carbon Tetrachloride	93
Benzene	95
1,2-Dichloroethane	87
Trichloroethene	100
1,2-Dichloropropane	98
cis-1,3-Dichloropropene	95
Toluene	99
trans-1,3-Dichloropropene	84
1,1,2-Trichloroethane	97
Tetrachloroethene	97
1,2-Dibromoethane (EDB)	96
Chlorobenzene	96
Ethyl Benzene	96
m,p-Xylene	97
o-Xylene	94
Styrene	110
1,1,2,2-Tetrachloroethane	95
1,3,5-Trimethylbenzene	106
1,2,4-Trimethylbenzene	98
1,3-Dichlorobenzene	104
1,4-Dichlorobenzene	104
alpha-Chlorotoluene	88
1,2-Dichlorobenzene	104
1,2,4-Trichlorobenzene	107
Hexachlorobutadiene	108

Container Type: NA - Not Applicable

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Client Sample ID: CCV

Lab ID#: 1710219-05B

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3101702**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 10/17/17 09:05 AM**	

Surrogates	%Recovery	Method Limits
Toluene-d8	104	70-130
1,2-Dichloroethane-d4	86	70-130
4-Bromofluorobenzene	101	70-130

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Client Sample ID: LCS

Lab ID#: 1710219-06A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3101303**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 10/13/17 11:16 AM**	

Compound	%Recovery	Method Limits
Freon 12	93	70-130
Freon 114	104	70-130
Chloromethane	83	70-130
Vinyl Chloride	94	70-130
Bromomethane	101	70-130
Chloroethane	93	70-130
Freon 11	95	70-130
Freon 113	98	70-130
1,1-Dichloroethene	94	70-130
Methylene Chloride	84	70-130
Methyl tert-butyl ether	83	70-130
1,1-Dichloroethane	91	70-130
cis-1,2-Dichloroethene	97	70-130
Chloroform	94	70-130
1,1,1-Trichloroethane	91	70-130
Carbon Tetrachloride	94	70-130
Benzene	102	70-130
1,2-Dichloroethane	93	70-130
Trichloroethene	102	70-130
1,2-Dichloropropane	94	70-130
cis-1,3-Dichloropropene	91	70-130
Toluene	95	70-130
trans-1,3-Dichloropropene	96	70-130
1,1,2-Trichloroethane	104	70-130
Tetrachloroethene	105	70-130
1,2-Dibromoethane (EDB)	103	70-130
Chlorobenzene	99	70-130
Ethyl Benzene	99	70-130
m,p-Xylene	99	70-130
o-Xylene	98	70-130
Styrene	103	70-130
1,1,2,2-Tetrachloroethane	97	70-130
1,3,5-Trimethylbenzene	104	70-130
1,2,4-Trimethylbenzene	99	70-130
1,3-Dichlorobenzene	107	70-130
1,4-Dichlorobenzene	106	70-130
alpha-Chlorotoluene	103	70-130
1,2-Dichlorobenzene	106	70-130
1,2,4-Trichlorobenzene	105	70-130
Hexachlorobutadiene	106	70-130

Container Type: NA - Not Applicable

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Client Sample ID: LCS

Lab ID#: 1710219-06A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3101303**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 10/13/17 11:16 AM**	

Surrogates	%Recovery	Method Limits
Toluene-d8	94	70-130
1,2-Dichloroethane-d4	86	70-130
4-Bromofluorobenzene	102	70-130

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Client Sample ID: LCSD

Lab ID#: 1710219-06AA

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3101304**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 10/13/17 11:39 AM**	

Compound	%Recovery	Method Limits
Freon 12	97	70-130
Freon 114	110	70-130
Chloromethane	87	70-130
Vinyl Chloride	99	70-130
Bromomethane	106	70-130
Chloroethane	98	70-130
Freon 11	100	70-130
Freon 113	102	70-130
1,1-Dichloroethene	99	70-130
Methylene Chloride	89	70-130
Methyl tert-butyl ether	87	70-130
1,1-Dichloroethane	92	70-130
cis-1,2-Dichloroethene	97	70-130
Chloroform	97	70-130
1,1,1-Trichloroethane	95	70-130
Carbon Tetrachloride	97	70-130
Benzene	103	70-130
1,2-Dichloroethane	94	70-130
Trichloroethene	108	70-130
1,2-Dichloropropane	100	70-130
cis-1,3-Dichloropropene	96	70-130
Toluene	101	70-130
trans-1,3-Dichloropropene	96	70-130
1,1,2-Trichloroethane	105	70-130
Tetrachloroethene	105	70-130
1,2-Dibromoethane (EDB)	103	70-130
Chlorobenzene	101	70-130
Ethyl Benzene	101	70-130
m,p-Xylene	101	70-130
o-Xylene	101	70-130
Styrene	105	70-130
1,1,2,2-Tetrachloroethane	95	70-130
1,3,5-Trimethylbenzene	102	70-130
1,2,4-Trimethylbenzene	96	70-130
1,3-Dichlorobenzene	104	70-130
1,4-Dichlorobenzene	103	70-130
alpha-Chlorotoluene	100	70-130
1,2-Dichlorobenzene	104	70-130
1,2,4-Trichlorobenzene	107	70-130
Hexachlorobutadiene	106	70-130

Container Type: NA - Not Applicable

eurofins | Air Toxics

Client Sample ID: LCSD

Lab ID#: 1710219-06AA

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3101304**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 10/13/17 11:39 AM**	

Surrogates	%Recovery	Method Limits
Toluene-d8	97	70-130
1,2-Dichloroethane-d4	88	70-130
4-Bromofluorobenzene	103	70-130

eurofins | Air Toxics

Client Sample ID: LCS

Lab ID#: 1710219-06B

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3101703**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 10/17/17 09:28 AM**	

Compound	%Recovery	Method Limits
Freon 12	87	70-130
Freon 114	100	70-130
Chloromethane	84	70-130
Vinyl Chloride	88	70-130
Bromomethane	91	70-130
Chloroethane	84	70-130
Freon 11	90	70-130
Freon 113	94	70-130
1,1-Dichloroethene	88	70-130
Methylene Chloride	84	70-130
Methyl tert-butyl ether	75	70-130
1,1-Dichloroethane	87	70-130
cis-1,2-Dichloroethene	91	70-130
Chloroform	91	70-130
1,1,1-Trichloroethane	90	70-130
Carbon Tetrachloride	93	70-130
Benzene	100	70-130
1,2-Dichloroethane	89	70-130
Trichloroethene	107	70-130
1,2-Dichloropropane	103	70-130
cis-1,3-Dichloropropene	94	70-130
Toluene	103	70-130
trans-1,3-Dichloropropene	90	70-130
1,1,2-Trichloroethane	105	70-130
Tetrachloroethene	105	70-130
1,2-Dibromoethane (EDB)	103	70-130
Chlorobenzene	101	70-130
Ethyl Benzene	100	70-130
m,p-Xylene	100	70-130
o-Xylene	99	70-130
Styrene	105	70-130
1,1,2,2-Tetrachloroethane	97	70-130
1,3,5-Trimethylbenzene	101	70-130
1,2,4-Trimethylbenzene	95	70-130
1,3-Dichlorobenzene	107	70-130
1,4-Dichlorobenzene	102	70-130
alpha-Chlorotoluene	94	70-130
1,2-Dichlorobenzene	100	70-130
1,2,4-Trichlorobenzene	96	70-130
Hexachlorobutadiene	97	70-130

Container Type: NA - Not Applicable

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Client Sample ID: LCS

Lab ID#: 1710219-06B

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3101703**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 10/17/17 09:28 AM**	

Surrogates	%Recovery	Method Limits
Toluene-d8	102	70-130
1,2-Dichloroethane-d4	82	70-130
4-Bromofluorobenzene	104	70-130

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Client Sample ID: LCSD

Lab ID#: 1710219-06BB

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3101704**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 10/17/17 09:50 AM**	

Compound	%Recovery	Method Limits
Freon 12	90	70-130
Freon 114	103	70-130
Chloromethane	83	70-130
Vinyl Chloride	91	70-130
Bromomethane	92	70-130
Chloroethane	86	70-130
Freon 11	90	70-130
Freon 113	93	70-130
1,1-Dichloroethene	87	70-130
Methylene Chloride	84	70-130
Methyl tert-butyl ether	74	70-130
1,1-Dichloroethane	87	70-130
cis-1,2-Dichloroethene	92	70-130
Chloroform	91	70-130
1,1,1-Trichloroethane	90	70-130
Carbon Tetrachloride	93	70-130
Benzene	99	70-130
1,2-Dichloroethane	90	70-130
Trichloroethene	106	70-130
1,2-Dichloropropane	102	70-130
cis-1,3-Dichloropropene	95	70-130
Toluene	102	70-130
trans-1,3-Dichloropropene	97	70-130
1,1,2-Trichloroethane	110	70-130
Tetrachloroethene	111	70-130
1,2-Dibromoethane (EDB)	102	70-130
Chlorobenzene	101	70-130
Ethyl Benzene	99	70-130
m,p-Xylene	102	70-130
o-Xylene	105	70-130
Styrene	110	70-130
1,1,2,2-Tetrachloroethane	103	70-130
1,3,5-Trimethylbenzene	107	70-130
1,2,4-Trimethylbenzene	102	70-130
1,3-Dichlorobenzene	114	70-130
1,4-Dichlorobenzene	114	70-130
alpha-Chlorotoluene	107	70-130
1,2-Dichlorobenzene	113	70-130
1,2,4-Trichlorobenzene	116	70-130
Hexachlorobutadiene	118	70-130

Container Type: NA - Not Applicable

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Client Sample ID: LCSD

Lab ID#: 1710219-06BB

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3101704**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 10/17/17 09:50 AM**	

Surrogates	%Recovery	Method Limits
Toluene-d8	101	70-130
1,2-Dichloroethane-d4	80	70-130
4-Bromofluorobenzene	110	70-130

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Sample Transportation Notice

Relinquishing signature on this document indicates that sample is being shipped in compliance with all applicable local, State, Federal, national, and international laws, regulations and ordinances of any kind. Air Toxics Limited assumes no liability with respect to the collection, handling or shipping of these samples. Relinquishing signature also indicates agreement to hold harmless, defend, and indemnify Air Toxics Limited against any claim, demand, or action, of any kind, related to the collection, handling, or shipping of samples. D.O.T. Hotline (800) 467-4922

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

Project Manager Alina Satkoski

Collected by: (Print and Sign) Alina Satkoski Alina Satkoski

Company MKC Email asatkoski@madison-kipp.com

Address 201 Waubesa St. City Madison State WI Zip 53704

Phone 608 242 5200 Fax —

Project Info:

P.O. # 107418

Project # _____

Project Name GETS/SVE

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)
01A	Combined Influent	1-2294	10/5/17	915	TO-15	-29	-5		
02A	Combined Effluent	40818	10/5/17	825	TO-15	-29	-3		
03A	GETS influent	40887	10/5/17	925	TO-15	-30	-4		

Relinquished by: (signature)	Date/Time	Received by: (signature)	Date/Time
Alina Satkoski	10/5/17 10:00	[illegible] EAZ	10/11/17 0945
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 #
	UPS		11/17	good	Yes No (None)	1710219

Form 1293 rev.11

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12/8/2017
Ms. Alina Satkoski
Madison-Kipp Corporation
201 Waubesa Street

Madison WI 53704

Project Name: GETS/SVE
Project #:
Workorder #: 1711325

Dear Ms. Alina Satkoski

The following report includes the data for the above referenced project for sample(s) received on 11/17/2017 at Air Toxics Ltd.

The data and associated QC analyzed by TO-15 are compliant with the project requirements or laboratory criteria with the exception of the deviations noted in the attached case narrative.

Thank you for choosing Eurofins Air Toxics Inc. for your air analysis needs. Eurofins Air Toxics Inc. is committed to providing accurate data of the highest quality. Please feel free to contact the Project Manager: Ausha Scott at 916-985-1000 if you have any questions regarding the data in this report.

Regards,

Ausha Scott

Project Manager

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WORK ORDER #: 1711325

Work Order Summary

CLIENT:	Ms. Alina Satkoski Madison-Kipp Corporation 201 Waubesa Street Madison, WI 53704	**BILL TO:**	Ms. Alina Satkoski Madison-Kipp Corporation 201 Waubesa Street Madison, WI 53704
PHONE:	608-244-3511	**P.O. #**	107418
FAX:		**PROJECT #**	GETS/SVE
DATE RECEIVED:	11/17/2017	**CONTACT:**	Ausha Scott
DATE COMPLETED:	12/08/2017		

FRACTION #	NAME	TEST	RECEIPT VAC./PRES.	FINAL PRESSURE
01A(cancelled)	Combined Influent	TO-15	22.8 "Hg	15.7 psi
02A(cancelled)	Effluent	TO-15	8.4 "Hg	15.4 psi
03A	GETS Influent	TO-15	7.3 "Hg	15.5 psi
04A	SVE-2	TO-15	3.9 "Hg	15.3 psi
05A	Lab Blank	TO-15	NA	NA
06A	CCV	TO-15	NA	NA
07A	LCS	TO-15	NA	NA
07AA	LCSD	TO-15	NA	NA

CERTIFIED BY: Heidi Hayes DATE: 12/08/17

Technical Director

Certification numbers: AZ Licensure AZ0775, NJ NELAP - CA016, NY NELAP - 11291,
TX NELAP - T104704434-16-11, UT NELAP CA0093332016-7, VA NELAP - 8113, WA NELAP - C935
Name of Accreditation Body: NELAP/ORELAP (Oregon Environmental Laboratory Accreditation Program)
Accreditation number: CA300005, Effective date: 10/18/2016, Expiration date: 10/17/2017.
Eurofins Air Toxics Inc.. certifies that the test results contained in this report meet all requirements of the NELAC standards

LABORATORY NARRATIVE
EPA Method TO-15
Madison-Kipp Corporation
Workorder# 1711325

Four 1 Liter Summa Canister samples were received on November 17, 2017. The laboratory performed analysis via EPA Method TO-15 using GC/MS in the full scan mode.

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.

Receiving Notes

Sample Combined Influent was received with significant vacuum remaining in the canister. The client was notified and requested the sample be cancelled.

Sample Effluent was cancelled on December 7, 2017 per client's request.

Analytical Notes

Dilution was performed on sample GETS Influent due to the presence of high level target species.

Definition of Data Qualifying Flags

Ten 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 not 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, LOD, or MDL value. See data page for project specific U-flag definition.

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

N - The identification is based on presumptive evidence.

M - Reported value may be biased due to apparent matrix interferences.

CN - See Case Narrative.

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

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

Client Sample ID: GETS Influent

Lab ID#: 1711325-03A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Vinyl Chloride	9.0	13	23	34
cis-1,2-Dichloroethene	9.0	1500	36	5900
Trichloroethene	9.0	940	49	5000
Tetrachloroethene	9.0	2900	61	20000

Client Sample ID: SVE-2

Lab ID#: 1711325-04A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Vinyl Chloride	1.2	2.8	3.0	7.2
cis-1,2-Dichloroethene	1.2	110	4.6	450
Trichloroethene	1.2	43	6.3	230
Tetrachloroethene	1.2	92	7.9	620

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Client Sample ID: GETS Influent

Lab ID#: 1711325-03A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**p111927**	**Date of Collection:**	**11/13/17 9:45:00 AM**
Dil. Factor:	**18.1**	**Date of Analysis:**	**11/19/17 09:30 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	9.0	Not Detected	45	Not Detected
Freon 114	9.0	Not Detected	63	Not Detected
Chloromethane	90	Not Detected	190	Not Detected
Vinyl Chloride	9.0	13	23	34
Bromomethane	90	Not Detected	350	Not Detected
Chloroethane	36	Not Detected	96	Not Detected
Freon 11	9.0	Not Detected	51	Not Detected
Freon 113	9.0	Not Detected	69	Not Detected
1,1-Dichloroethene	9.0	Not Detected	36	Not Detected
Methylene Chloride	90	Not Detected	310	Not Detected
Methyl tert-butyl ether	36	Not Detected	130	Not Detected
1,1-Dichloroethane	9.0	Not Detected	37	Not Detected
cis-1,2-Dichloroethene	9.0	1500	36	5900
Chloroform	9.0	Not Detected	44	Not Detected
1,1,1-Trichloroethane	9.0	Not Detected	49	Not Detected
Carbon Tetrachloride	9.0	Not Detected	57	Not Detected
Benzene	9.0	Not Detected	29	Not Detected
1,2-Dichloroethane	9.0	Not Detected	37	Not Detected
Trichloroethene	9.0	940	49	5000
1,2-Dichloropropane	9.0	Not Detected	42	Not Detected
cis-1,3-Dichloropropene	9.0	Not Detected	41	Not Detected
Toluene	9.0	Not Detected	34	Not Detected
trans-1,3-Dichloropropene	9.0	Not Detected	41	Not Detected
1,1,2-Trichloroethane	9.0	Not Detected	49	Not Detected
Tetrachloroethene	9.0	2900	61	20000
1,2-Dibromoethane (EDB)	9.0	Not Detected	70	Not Detected
Chlorobenzene	9.0	Not Detected	42	Not Detected
Ethyl Benzene	9.0	Not Detected	39	Not Detected
m,p-Xylene	9.0	Not Detected	39	Not Detected
o-Xylene	9.0	Not Detected	39	Not Detected
Styrene	9.0	Not Detected	38	Not Detected
1,1,2,2-Tetrachloroethane	9.0	Not Detected	62	Not Detected
1,3,5-Trimethylbenzene	9.0	Not Detected	44	Not Detected
1,2,4-Trimethylbenzene	9.0	Not Detected	44	Not Detected
1,3-Dichlorobenzene	9.0	Not Detected	54	Not Detected
1,4-Dichlorobenzene	9.0	Not Detected	54	Not Detected
alpha-Chlorotoluene	9.0	Not Detected	47	Not Detected
1,2-Dichlorobenzene	9.0	Not Detected	54	Not Detected
1,2,4-Trichlorobenzene	36	Not Detected	270	Not Detected
Hexachlorobutadiene	36	Not Detected	390	Not Detected

Container Type: 1 Liter Summa Canister

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Client Sample ID: GETS Influent

Lab ID#: 1711325-03A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**p111927**	**Date of Collection: 11/13/17 9:45:00 AM**	
Dil. Factor:	**18.1**	**Date of Analysis: 11/19/17 09:30 PM**	

Surrogates	%Recovery	Method Limits
Toluene-d8	95	70-130
1,2-Dichloroethane-d4	91	70-130
4-Bromofluorobenzene	96	70-130

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Client Sample ID: SVE-2

Lab ID#: 1711325-04A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**p111926**	**Date of Collection:**	**11/13/17 10:30:00 A**
Dil. Factor:	**2.34**	**Date of Analysis:**	**11/19/17 08:52 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	1.2	Not Detected	5.8	Not Detected
Freon 114	1.2	Not Detected	8.2	Not Detected
Chloromethane	12	Not Detected	24	Not Detected
Vinyl Chloride	1.2	2.8	3.0	7.2
Bromomethane	12	Not Detected	45	Not Detected
Chloroethane	4.7	Not Detected	12	Not Detected
Freon 11	1.2	Not Detected	6.6	Not Detected
Freon 113	1.2	Not Detected	9.0	Not Detected
1,1-Dichloroethene	1.2	Not Detected	4.6	Not Detected
Methylene Chloride	12	Not Detected	41	Not Detected
Methyl tert-butyl ether	4.7	Not Detected	17	Not Detected
1,1-Dichloroethane	1.2	Not Detected	4.7	Not Detected
cis-1,2-Dichloroethene	1.2	110	4.6	450
Chloroform	1.2	Not Detected	5.7	Not Detected
1,1,1-Trichloroethane	1.2	Not Detected	6.4	Not Detected
Carbon Tetrachloride	1.2	Not Detected	7.4	Not Detected
Benzene	1.2	Not Detected	3.7	Not Detected
1,2-Dichloroethane	1.2	Not Detected	4.7	Not Detected
Trichloroethene	1.2	43	6.3	230
1,2-Dichloropropane	1.2	Not Detected	5.4	Not Detected
cis-1,3-Dichloropropene	1.2	Not Detected	5.3	Not Detected
Toluene	1.2	Not Detected	4.4	Not Detected
trans-1,3-Dichloropropene	1.2	Not Detected	5.3	Not Detected
1,1,2-Trichloroethane	1.2	Not Detected	6.4	Not Detected
Tetrachloroethene	1.2	92	7.9	620
1,2-Dibromoethane (EDB)	1.2	Not Detected	9.0	Not Detected
Chlorobenzene	1.2	Not Detected	5.4	Not Detected
Ethyl Benzene	1.2	Not Detected	5.1	Not Detected
m,p-Xylene	1.2	Not Detected	5.1	Not Detected
o-Xylene	1.2	Not Detected	5.1	Not Detected
Styrene	1.2	Not Detected	5.0	Not Detected
1,1,2,2-Tetrachloroethane	1.2	Not Detected	8.0	Not Detected
1,3,5-Trimethylbenzene	1.2	Not Detected	5.8	Not Detected
1,2,4-Trimethylbenzene	1.2	Not Detected	5.8	Not Detected
1,3-Dichlorobenzene	1.2	Not Detected	7.0	Not Detected
1,4-Dichlorobenzene	1.2	Not Detected	7.0	Not Detected
alpha-Chlorotoluene	1.2	Not Detected	6.0	Not Detected
1,2-Dichlorobenzene	1.2	Not Detected	7.0	Not Detected
1,2,4-Trichlorobenzene	4.7	Not Detected	35	Not Detected
Hexachlorobutadiene	4.7	Not Detected	50	Not Detected

Container Type: 1 Liter Summa Canister

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Client Sample ID: SVE-2

Lab ID#: 1711325-04A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**p111926**	**Date of Collection: 11/13/17 10:30:00 A**	
Dil. Factor:	**2.34**	**Date of Analysis: 11/19/17 08:52 PM**	

Surrogates	%Recovery	Method Limits
Toluene-d8	100	70-130
1,2-Dichloroethane-d4	92	70-130
4-Bromofluorobenzene	96	70-130

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Client Sample ID: Lab Blank

Lab ID#: 1711325-05A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**p111906**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 11/19/17 10:36 AM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.50	Not Detected	2.5	Not Detected
Freon 114	0.50	Not Detected	3.5	Not Detected
Chloromethane	5.0	Not Detected	10	Not Detected
Vinyl Chloride	0.50	Not Detected	1.3	Not Detected
Bromomethane	5.0	Not Detected	19	Not Detected
Chloroethane	2.0	Not Detected	5.3	Not Detected
Freon 11	0.50	Not Detected	2.8	Not Detected
Freon 113	0.50	Not Detected	3.8	Not Detected
1,1-Dichloroethene	0.50	Not Detected	2.0	Not Detected
Methylene Chloride	5.0	Not Detected	17	Not Detected
Methyl tert-butyl ether	2.0	Not Detected	7.2	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
Chloroform	0.50	Not Detected	2.4	Not Detected
1,1,1-Trichloroethane	0.50	Not Detected	2.7	Not Detected
Carbon Tetrachloride	0.50	Not Detected	3.1	Not Detected
Benzene	0.50	Not Detected	1.6	Not Detected
1,2-Dichloroethane	0.50	Not Detected	2.0	Not Detected
Trichloroethene	0.50	Not Detected	2.7	Not Detected
1,2-Dichloropropane	0.50	Not Detected	2.3	Not Detected
cis-1,3-Dichloropropene	0.50	Not Detected	2.3	Not Detected
Toluene	0.50	Not Detected	1.9	Not Detected
trans-1,3-Dichloropropene	0.50	Not Detected	2.3	Not Detected
1,1,2-Trichloroethane	0.50	Not Detected	2.7	Not Detected
Tetrachloroethene	0.50	Not Detected	3.4	Not Detected
1,2-Dibromoethane (EDB)	0.50	Not Detected	3.8	Not Detected
Chlorobenzene	0.50	Not Detected	2.3	Not Detected
Ethyl Benzene	0.50	Not Detected	2.2	Not Detected
m,p-Xylene	0.50	Not Detected	2.2	Not Detected
o-Xylene	0.50	Not Detected	2.2	Not Detected
Styrene	0.50	Not Detected	2.1	Not Detected
1,1,2,2-Tetrachloroethane	0.50	Not Detected	3.4	Not Detected
1,3,5-Trimethylbenzene	0.50	Not Detected	2.4	Not Detected
1,2,4-Trimethylbenzene	0.50	Not Detected	2.4	Not Detected
1,3-Dichlorobenzene	0.50	Not Detected	3.0	Not Detected
1,4-Dichlorobenzene	0.50	Not Detected	3.0	Not Detected
alpha-Chlorotoluene	0.50	Not Detected	2.6	Not Detected
1,2-Dichlorobenzene	0.50	Not Detected	3.0	Not Detected
1,2,4-Trichlorobenzene	2.0	Not Detected	15	Not Detected
Hexachlorobutadiene	2.0	Not Detected	21	Not Detected

Container Type: NA - Not Applicable

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Client Sample ID: Lab Blank

Lab ID#: 1711325-05A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**p111906**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 11/19/17 10:36 AM**	

Surrogates	%Recovery	Method Limits
Toluene-d8	99	70-130
1,2-Dichloroethane-d4	92	70-130
4-Bromofluorobenzene	98	70-130

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Client Sample ID: CCV

Lab ID#: 1711325-06A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**p111902**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 11/19/17 08:28 AM**	

Compound	%Recovery
Freon 12	102
Freon 114	102
Chloromethane	102
Vinyl Chloride	111
Bromomethane	86
Chloroethane	95
Freon 11	99
Freon 113	98
1,1-Dichloroethene	99
Methylene Chloride	96
Methyl tert-butyl ether	98
1,1-Dichloroethane	98
cis-1,2-Dichloroethene	104
Chloroform	99
1,1,1-Trichloroethane	94
Carbon Tetrachloride	92
Benzene	91
1,2-Dichloroethane	96
Trichloroethene	98
1,2-Dichloropropane	96
cis-1,3-Dichloropropene	98
Toluene	98
trans-1,3-Dichloropropene	98
1,1,2-Trichloroethane	95
Tetrachloroethene	103
1,2-Dibromoethane (EDB)	101
Chlorobenzene	100
Ethyl Benzene	109
m,p-Xylene	113
o-Xylene	112
Styrene	114
1,1,2,2-Tetrachloroethane	95
1,3,5-Trimethylbenzene	116
1,2,4-Trimethylbenzene	115
1,3-Dichlorobenzene	104
1,4-Dichlorobenzene	108
alpha-Chlorotoluene	100
1,2-Dichlorobenzene	103
1,2,4-Trichlorobenzene	100
Hexachlorobutadiene	100

Container Type: NA - Not Applicable

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Client Sample ID: CCV

Lab ID#: 1711325-06A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**p111902**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 11/19/17 08:28 AM**	

Surrogates	%Recovery	Method Limits
Toluene-d8	101	70-130
1,2-Dichloroethane-d4	94	70-130
4-Bromofluorobenzene	107	70-130

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Client Sample ID: LCS

Lab ID#: 1711325-07A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**p111903**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 11/19/17 08:53 AM**	

Compound	%Recovery	Method Limits
Freon 12	102	70-130
Freon 114	106	70-130
Chloromethane	101	70-130
Vinyl Chloride	115	70-130
Bromomethane	84	70-130
Chloroethane	99	70-130
Freon 11	100	70-130
Freon 113	95	70-130
1,1-Dichloroethene	99	70-130
Methylene Chloride	95	70-130
Methyl tert-butyl ether	94	70-130
1,1-Dichloroethane	96	70-130
cis-1,2-Dichloroethene	115	70-130
Chloroform	101	70-130
1,1,1-Trichloroethane	93	70-130
Carbon Tetrachloride	84	70-130
Benzene	90	70-130
1,2-Dichloroethane	93	70-130
Trichloroethene	97	70-130
1,2-Dichloropropane	95	70-130
cis-1,3-Dichloropropene	91	70-130
Toluene	96	70-130
trans-1,3-Dichloropropene	93	70-130
1,1,2-Trichloroethane	90	70-130
Tetrachloroethene	99	70-130
1,2-Dibromoethane (EDB)	97	70-130
Chlorobenzene	97	70-130
Ethyl Benzene	104	70-130
m,p-Xylene	110	70-130
o-Xylene	112	70-130
Styrene	111	70-130
1,1,2,2-Tetrachloroethane	92	70-130
1,3,5-Trimethylbenzene	111	70-130
1,2,4-Trimethylbenzene	114	70-130
1,3-Dichlorobenzene	102	70-130
1,4-Dichlorobenzene	105	70-130
alpha-Chlorotoluene	100	70-130
1,2-Dichlorobenzene	102	70-130
1,2,4-Trichlorobenzene	113	70-130
Hexachlorobutadiene	112	70-130

Container Type: NA - Not Applicable

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Client Sample ID: LCS

Lab ID#: 1711325-07A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**p111903**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 11/19/17 08:53 AM**	

Surrogates	%Recovery	Method Limits
Toluene-d8	101	70-130
1,2-Dichloroethane-d4	97	70-130
4-Bromofluorobenzene	106	70-130

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Client Sample ID: LCSD

Lab ID#: 1711325-07AA

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**p111904**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 11/19/17 09:17 AM**	

Compound	%Recovery	Method Limits
Freon 12	102	70-130
Freon 114	107	70-130
Chloromethane	96	70-130
Vinyl Chloride	111	70-130
Bromomethane	91	70-130
Chloroethane	97	70-130
Freon 11	101	70-130
Freon 113	96	70-130
1,1-Dichloroethene	101	70-130
Methylene Chloride	92	70-130
Methyl tert-butyl ether	97	70-130
1,1-Dichloroethane	97	70-130
cis-1,2-Dichloroethene	113	70-130
Chloroform	100	70-130
1,1,1-Trichloroethane	93	70-130
Carbon Tetrachloride	95	70-130
Benzene	90	70-130
1,2-Dichloroethane	93	70-130
Trichloroethene	98	70-130
1,2-Dichloropropane	94	70-130
cis-1,3-Dichloropropene	92	70-130
Toluene	97	70-130
trans-1,3-Dichloropropene	95	70-130
1,1,2-Trichloroethane	92	70-130
Tetrachloroethene	102	70-130
1,2-Dibromoethane (EDB)	98	70-130
Chlorobenzene	98	70-130
Ethyl Benzene	106	70-130
m,p-Xylene	111	70-130
o-Xylene	113	70-130
Styrene	113	70-130
1,1,2,2-Tetrachloroethane	93	70-130
1,3,5-Trimethylbenzene	113	70-130
1,2,4-Trimethylbenzene	115	70-130
1,3-Dichlorobenzene	104	70-130
1,4-Dichlorobenzene	106	70-130
alpha-Chlorotoluene	102	70-130
1,2-Dichlorobenzene	104	70-130
1,2,4-Trichlorobenzene	121	70-130
Hexachlorobutadiene	119	70-130

Container Type: NA - Not Applicable

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Client Sample ID: LCSD

Lab ID#: 1711325-07AA

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**p111904**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 11/19/17 09:17 AM**	

Surrogates	%Recovery	Method Limits
Toluene-d8	101	70-130
1,2-Dichloroethane-d4	96	70-130
4-Bromofluorobenzene	107	70-130

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Sample Transportation Notice

Relinquishing signature on this document indicates that sample is being shipped in compliance with all applicable local, State, Federal, national, and international laws, regulations and ordinances of any kind. Air Toxics Limited assumes no liability with respect to the collection, handling or shipping of these samples. Relinquishing signature also indicates agreement to hold harmless, defend, and indemnify Air Toxics Limited against any claim, demand, or action, of any kind, related to the collection, handling, or shipping of samples. D.O.T. Hotline (800) 467-4922

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

Project Manager Alina Satkoski

Collected by: (Print and Sign) Alina Satkoski alinasatkoski

Company MRC Email —

Address 201 Waubesa St. City Madison State WI Zip 53704

Phone 608 242 5200 Fax —

Project Info:

P.O. # 107418

Project # —

Project Name GETS/SVE

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)
01A	Combined Influent	1L2498	11/13/17	940	TO-15	-22	-5.5		
02A	Effluent	1L2365	11/13/17	935	TO-15	-23	-7		
03A	GETS Influent	1L1522	11/13/17	945	TO-15	-27	-7		
04A	SVE-2	1L2682	11/13/17	10:30	TO-15	-28.5	-7		

Relinquished by: (signature)	Date/Time	Received by: (signature)	Date/Time
Alina Satkoski	11/13/17 14:00	[signature] ESAL	11/14/17 10:05
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 #
	UPS		N/A	Good	Yes No ~~None~~	1711325

Form 1293 rev.11

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12/20/2017
Ms. Alina Satkoski
Madison-Kipp Corporation
201 Waubesa Street

Madison WI 53704

Project Name: GETS/SVE
Project #:
Workorder #: 1712124

Dear Ms. Alina Satkoski

The following report includes the data for the above referenced project for sample(s) received on 12/7/2017 at Air Toxics Ltd.

The data and associated QC analyzed by TO-15 are compliant with the project requirements or laboratory criteria with the exception of the deviations noted in the attached case narrative.

Thank you for choosing Eurofins Air Toxics Inc. for your air analysis needs. Eurofins Air Toxics Inc. is committed to providing accurate data of the highest quality. Please feel free to contact the Project Manager: Ausha Scott at 916-985-1000 if you have any questions regarding the data in this report.

Regards,

Ausha Scott

Project Manager

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WORK ORDER #: 1712124

Work Order Summary

CLIENT:	Ms. Alina Satkoski Madison-Kipp Corporation 201 Waubesa Street Madison, WI 53704	**BILL TO:**	Ms. Alina Satkoski Madison-Kipp Corporation 201 Waubesa Street Madison, WI 53704
PHONE:	608-244-3511	**P.O. #**	107418
FAX:		**PROJECT #**	GETS/SVE
DATE RECEIVED:	12/07/2017	**CONTACT:**	Ausha Scott
DATE COMPLETED:	12/20/2017		

FRACTION #	NAME	TEST	RECEIPT VAC./PRES.	FINAL PRESSURE
01A	Combined Influent	TO-15	2.2 "Hg	14.9 psi
02A	Effluent	TO-15	4.9 "Hg	14.7 psi
03A	Lab Blank	TO-15	NA	NA
04A	CCV	TO-15	NA	NA
05A	LCS	TO-15	NA	NA
05AA	LCSD	TO-15	NA	NA

CERTIFIED BY: Heidi Hayes DATE: 12/20/17

Technical Director

Certification numbers: AZ Licensure AZ0775, NJ NELAP - CA016, NY NELAP - 11291,
TX NELAP - T104704434-16-11, UT NELAP CA0093332016-7, VA NELAP - 8113, WA NELAP - C935
Name of Accreditation Body: NELAP/ORELAP (Oregon Environmental Laboratory Accreditation Program)
Accreditation number: CA300005, Effective date: 10/18/2016, Expiration date: 10/17/2017.
Eurofins Air Toxics Inc.. certifies that the test results contained in this report meet all requirements of the NELAC standards

LABORATORY NARRATIVE
EPA Method TO-15
Madison-Kipp Corporation
Workorder# 1712124

Two 1 Liter Summa Canister samples were received on December 07, 2017. The laboratory performed analysis via EPA Method TO-15 using GC/MS in the full scan mode.

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.

Receiving Notes

There were no receiving discrepancies.

Analytical Notes

All Quality Control Limit exceedances and affected sample results are noted by flags. Each flag is defined at the bottom of this Case Narrative and on each Sample Result Summary page.

Dilution was performed on sample Combined Influent due to the presence of high level target species.

Definition of Data Qualifying Flags

Ten 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 not 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, LOD, or MDL value. See data page for project specific U-flag definition.

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

N - The identification is based on presumptive evidence.

M - Reported value may be biased due to apparent matrix interferences.

CN - See Case Narrative.

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

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

Client Sample ID: Combined Influent

Lab ID#: 1712124-01A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Vinyl Chloride	5.4	7.0	14	18
cis-1,2-Dichloroethene	5.4	430	22	1700
Trichloroethene	5.4	380	29	2100
Toluene	5.4	17	20	64
Tetrachloroethene	5.4	1600	37	11000

Client Sample ID: Effluent

Lab ID#: 1712124-02A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Vinyl Chloride	1.2	3.9	3.0	10
cis-1,2-Dichloroethene	1.2	110	4.7	420
Trichloroethene	1.2	360	6.4	2000
Tetrachloroethene	1.2	360	8.1	2400

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Client Sample ID: Combined Influent

Lab ID#: 1712124-01A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3121109**	**Date of Collection:**	**11/30/17 7:30:00 AM**
Dil. Factor:	**10.9**	**Date of Analysis:**	**12/11/17 04:49 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	5.4	Not Detected	27	Not Detected
Freon 114	5.4	Not Detected	38	Not Detected
Chloromethane	54	Not Detected	110	Not Detected
Vinyl Chloride	5.4	7.0	14	18
Bromomethane	54	Not Detected	210	Not Detected
Chloroethane	22	Not Detected	58	Not Detected
Freon 11	5.4	Not Detected	31	Not Detected
Freon 113	5.4	Not Detected	42	Not Detected
1,1-Dichloroethene	5.4	Not Detected	22	Not Detected
Methylene Chloride	54	Not Detected	190	Not Detected
Methyl tert-butyl ether	22	Not Detected UJ	78	Not Detected UJ
1,1-Dichloroethane	5.4	Not Detected	22	Not Detected
cis-1,2-Dichloroethene	5.4	430	22	1700
Chloroform	5.4	Not Detected	27	Not Detected
1,1,1-Trichloroethane	5.4	Not Detected	30	Not Detected
Carbon Tetrachloride	5.4	Not Detected	34	Not Detected
Benzene	5.4	Not Detected	17	Not Detected
1,2-Dichloroethane	5.4	Not Detected	22	Not Detected
Trichloroethene	5.4	380	29	2100
1,2-Dichloropropane	5.4	Not Detected	25	Not Detected
cis-1,3-Dichloropropene	5.4	Not Detected	25	Not Detected
Toluene	5.4	17	20	64
trans-1,3-Dichloropropene	5.4	Not Detected	25	Not Detected
1,1,2-Trichloroethane	5.4	Not Detected	30	Not Detected
Tetrachloroethene	5.4	1600	37	11000
1,2-Dibromoethane (EDB)	5.4	Not Detected	42	Not Detected
Chlorobenzene	5.4	Not Detected	25	Not Detected
Ethyl Benzene	5.4	Not Detected	24	Not Detected
m,p-Xylene	5.4	Not Detected	24	Not Detected
o-Xylene	5.4	Not Detected	24	Not Detected
Styrene	5.4	Not Detected	23	Not Detected
1,1,2,2-Tetrachloroethane	5.4	Not Detected	37	Not Detected
1,3,5-Trimethylbenzene	5.4	Not Detected	27	Not Detected
1,2,4-Trimethylbenzene	5.4	Not Detected	27	Not Detected
1,3-Dichlorobenzene	5.4	Not Detected	33	Not Detected
1,4-Dichlorobenzene	5.4	Not Detected	33	Not Detected
alpha-Chlorotoluene	5.4	Not Detected	28	Not Detected
1,2-Dichlorobenzene	5.4	Not Detected	33	Not Detected
1,2,4-Trichlorobenzene	22	Not Detected	160	Not Detected
Hexachlorobutadiene	22	Not Detected	230	Not Detected

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Client Sample ID: Combined Influent

Lab ID#: 1712124-01A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3121109**	**Date of Collection: 11/30/17 7:30:00 AM**
Dil. Factor:	**10.9**	**Date of Analysis: 12/11/17 04:49 PM**

UJ = Analyte associated with low bias in the CCV.

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	98	70-130
1,2-Dichloroethane-d4	84	70-130
4-Bromofluorobenzene	95	70-130

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Client Sample ID: Effluent

Lab ID#: 1712124-02A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3121108**	**Date of Collection:**	**11/30/17 7:45:00 AM**
Dil. Factor:	**2.39**	**Date of Analysis:**	**12/11/17 04:24 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	1.2	Not Detected	5.9	Not Detected
Freon 114	1.2	Not Detected	8.4	Not Detected
Chloromethane	12	Not Detected	25	Not Detected
Vinyl Chloride	1.2	3.9	3.0	10
Bromomethane	12	Not Detected	46	Not Detected
Chloroethane	4.8	Not Detected	13	Not Detected
Freon 11	1.2	Not Detected	6.7	Not Detected
Freon 113	1.2	Not Detected	9.2	Not Detected
1,1-Dichloroethene	1.2	Not Detected	4.7	Not Detected
Methylene Chloride	12	Not Detected	42	Not Detected
Methyl tert-butyl ether	4.8	Not Detected UJ	17	Not Detected UJ
1,1-Dichloroethane	1.2	Not Detected	4.8	Not Detected
cis-1,2-Dichloroethene	1.2	110	4.7	420
Chloroform	1.2	Not Detected	5.8	Not Detected
1,1,1-Trichloroethane	1.2	Not Detected	6.5	Not Detected
Carbon Tetrachloride	1.2	Not Detected	7.5	Not Detected
Benzene	1.2	Not Detected	3.8	Not Detected
1,2-Dichloroethane	1.2	Not Detected	4.8	Not Detected
Trichloroethene	1.2	360	6.4	2000
1,2-Dichloropropane	1.2	Not Detected	5.5	Not Detected
cis-1,3-Dichloropropene	1.2	Not Detected	5.4	Not Detected
Toluene	1.2	Not Detected	4.5	Not Detected
trans-1,3-Dichloropropene	1.2	Not Detected	5.4	Not Detected
1,1,2-Trichloroethane	1.2	Not Detected	6.5	Not Detected
Tetrachloroethene	1.2	360	8.1	2400
1,2-Dibromoethane (EDB)	1.2	Not Detected	9.2	Not Detected
Chlorobenzene	1.2	Not Detected	5.5	Not Detected
Ethyl Benzene	1.2	Not Detected	5.2	Not Detected
m,p-Xylene	1.2	Not Detected	5.2	Not Detected
o-Xylene	1.2	Not Detected	5.2	Not Detected
Styrene	1.2	Not Detected	5.1	Not Detected
1,1,2,2-Tetrachloroethane	1.2	Not Detected	8.2	Not Detected
1,3,5-Trimethylbenzene	1.2	Not Detected	5.9	Not Detected
1,2,4-Trimethylbenzene	1.2	Not Detected	5.9	Not Detected
1,3-Dichlorobenzene	1.2	Not Detected	7.2	Not Detected
1,4-Dichlorobenzene	1.2	Not Detected	7.2	Not Detected
alpha-Chlorotoluene	1.2	Not Detected	6.2	Not Detected
1,2-Dichlorobenzene	1.2	Not Detected	7.2	Not Detected
1,2,4-Trichlorobenzene	4.8	Not Detected	35	Not Detected
Hexachlorobutadiene	4.8	Not Detected	51	Not Detected

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Client Sample ID: Effluent

Lab ID#: 1712124-02A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3121108**	**Date of Collection: 11/30/17 7:45:00 AM**	
Dil. Factor:	**2.39**	**Date of Analysis: 12/11/17 04:24 PM**	

UJ = Analyte associated with low bias in the CCV.

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Toluene-d8	100	70-130
1,2-Dichloroethane-d4	86	70-130
4-Bromofluorobenzene	95	70-130

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Client Sample ID: Lab Blank

Lab ID#: 1712124-03A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3121107**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 12/11/17 11:38 AM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.50	Not Detected	2.5	Not Detected
Freon 114	0.50	Not Detected	3.5	Not Detected
Chloromethane	5.0	Not Detected	10	Not Detected
Vinyl Chloride	0.50	Not Detected	1.3	Not Detected
Bromomethane	5.0	Not Detected	19	Not Detected
Chloroethane	2.0	Not Detected	5.3	Not Detected
Freon 11	0.50	Not Detected	2.8	Not Detected
Freon 113	0.50	Not Detected	3.8	Not Detected
1,1-Dichloroethene	0.50	Not Detected	2.0	Not Detected
Methylene Chloride	5.0	Not Detected	17	Not Detected
Methyl tert-butyl ether	2.0	Not Detected UJ	7.2	Not Detected UJ
1,1-Dichloroethane	0.50	Not Detected	2.0	Not Detected
cis-1,2-Dichloroethene	0.50	Not Detected	2.0	Not Detected
Chloroform	0.50	Not Detected	2.4	Not Detected
1,1,1-Trichloroethane	0.50	Not Detected	2.7	Not Detected
Carbon Tetrachloride	0.50	Not Detected	3.1	Not Detected
Benzene	0.50	Not Detected	1.6	Not Detected
1,2-Dichloroethane	0.50	Not Detected	2.0	Not Detected
Trichloroethene	0.50	Not Detected	2.7	Not Detected
1,2-Dichloropropane	0.50	Not Detected	2.3	Not Detected
cis-1,3-Dichloropropene	0.50	Not Detected	2.3	Not Detected
Toluene	0.50	Not Detected	1.9	Not Detected
trans-1,3-Dichloropropene	0.50	Not Detected	2.3	Not Detected
1,1,2-Trichloroethane	0.50	Not Detected	2.7	Not Detected
Tetrachloroethene	0.50	Not Detected	3.4	Not Detected
1,2-Dibromoethane (EDB)	0.50	Not Detected	3.8	Not Detected
Chlorobenzene	0.50	Not Detected	2.3	Not Detected
Ethyl Benzene	0.50	Not Detected	2.2	Not Detected
m,p-Xylene	0.50	Not Detected	2.2	Not Detected
o-Xylene	0.50	Not Detected	2.2	Not Detected
Styrene	0.50	Not Detected	2.1	Not Detected
1,1,2,2-Tetrachloroethane	0.50	Not Detected	3.4	Not Detected
1,3,5-Trimethylbenzene	0.50	Not Detected	2.4	Not Detected
1,2,4-Trimethylbenzene	0.50	Not Detected	2.4	Not Detected
1,3-Dichlorobenzene	0.50	Not Detected	3.0	Not Detected
1,4-Dichlorobenzene	0.50	Not Detected	3.0	Not Detected
alpha-Chlorotoluene	0.50	Not Detected	2.6	Not Detected
1,2-Dichlorobenzene	0.50	Not Detected	3.0	Not Detected
1,2,4-Trichlorobenzene	2.0	Not Detected	15	Not Detected
Hexachlorobutadiene	2.0	Not Detected	21	Not Detected

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Client Sample ID: Lab Blank

Lab ID#: 1712124-03A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3121107**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 12/11/17 11:38 AM**	

UJ = Analyte associated with low bias in the CCV.

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	100	70-130
1,2-Dichloroethane-d4	85	70-130
4-Bromofluorobenzene	98	70-130

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Client Sample ID: CCV

Lab ID#: 1712124-04A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3121103**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 12/11/17 09:57 AM**	

Compound	%Recovery
Freon 12	84
Freon 114	93
Chloromethane	86
Vinyl Chloride	76
Bromomethane	85
Chloroethane	75
Freon 11	87
Freon 113	91
1,1-Dichloroethene	76
Methylene Chloride	79
Methyl tert-butyl ether	69 Q
1,1-Dichloroethane	83
cis-1,2-Dichloroethene	80
Chloroform	88
1,1,1-Trichloroethane	89
Carbon Tetrachloride	96
Benzene	94
1,2-Dichloroethane	91
Trichloroethene	96
1,2-Dichloropropane	97
cis-1,3-Dichloropropene	93
Toluene	102
trans-1,3-Dichloropropene	84
1,1,2-Trichloroethane	101
Tetrachloroethene	103
1,2-Dibromoethane (EDB)	100
Chlorobenzene	102
Ethyl Benzene	99
m,p-Xylene	99
o-Xylene	96
Styrene	105
1,1,2,2-Tetrachloroethane	99
1,3,5-Trimethylbenzene	109
1,2,4-Trimethylbenzene	98
1,3-Dichlorobenzene	110
1,4-Dichlorobenzene	110
alpha-Chlorotoluene	98
1,2-Dichlorobenzene	111
1,2,4-Trichlorobenzene	117
Hexachlorobutadiene	117

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Client Sample ID: CCV

Lab ID#: 1712124-04A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3121103**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 12/11/17 09:57 AM**	

Q = Exceeds Quality Control limits.

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
Toluene-d8	104	70-130
1,2-Dichloroethane-d4	85	70-130
4-Bromofluorobenzene	102	70-130

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Client Sample ID: LCS

Lab ID#: 1712124-05A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3121104**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 12/11/17 10:23 AM**	

Compound	%Recovery	Method Limits
Freon 12	90	70-130
Freon 114	103	70-130
Chloromethane	90	70-130
Vinyl Chloride	84	70-130
Bromomethane	91	70-130
Chloroethane	85	70-130
Freon 11	96	70-130
Freon 113	95	70-130
1,1-Dichloroethene	83	70-130
Methylene Chloride	83	70-130
Methyl tert-butyl ether	72	70-130
1,1-Dichloroethane	87	70-130
cis-1,2-Dichloroethene	93	70-130
Chloroform	94	70-130
1,1,1-Trichloroethane	95	70-130
Carbon Tetrachloride	101	70-130
Benzene	99	70-130
1,2-Dichloroethane	95	70-130
Trichloroethene	104	70-130
1,2-Dichloropropane	103	70-130
cis-1,3-Dichloropropene	94	70-130
Toluene	107	70-130
trans-1,3-Dichloropropene	88	70-130
1,1,2-Trichloroethane	105	70-130
Tetrachloroethene	109	70-130
1,2-Dibromoethane (EDB)	106	70-130
Chlorobenzene	106	70-130
Ethyl Benzene	104	70-130
m,p-Xylene	105	70-130
o-Xylene	103	70-130
Styrene	112	70-130
1,1,2,2-Tetrachloroethane	103	70-130
1,3,5-Trimethylbenzene	116	70-130
1,2,4-Trimethylbenzene	104	70-130
1,3-Dichlorobenzene	117	70-130
1,4-Dichlorobenzene	117	70-130
alpha-Chlorotoluene	106	70-130
1,2-Dichlorobenzene	117	70-130
1,2,4-Trichlorobenzene	129	70-130
Hexachlorobutadiene	128	70-130

Container Type: NA - Not Applicable

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Client Sample ID: LCS

Lab ID#: 1712124-05A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3121104**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 12/11/17 10:23 AM**	

Surrogates	%Recovery	Method Limits
Toluene-d8	103	70-130
1,2-Dichloroethane-d4	84	70-130
4-Bromofluorobenzene	103	70-130

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Client Sample ID: LCSD

Lab ID#: 1712124-05AA

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3121105**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 12/11/17 10:49 AM**	

Compound	%Recovery	Method Limits
Freon 12	88	70-130
Freon 114	103	70-130
Chloromethane	96	70-130
Vinyl Chloride	102	70-130
Bromomethane	88	70-130
Chloroethane	83	70-130
Freon 11	94	70-130
Freon 113	94	70-130
1,1-Dichloroethene	83	70-130
Methylene Chloride	82	70-130
Methyl tert-butyl ether	73	70-130
1,1-Dichloroethane	86	70-130
cis-1,2-Dichloroethene	90	70-130
Chloroform	92	70-130
1,1,1-Trichloroethane	92	70-130
Carbon Tetrachloride	100	70-130
Benzene	99	70-130
1,2-Dichloroethane	94	70-130
Trichloroethene	103	70-130
1,2-Dichloropropane	103	70-130
cis-1,3-Dichloropropene	94	70-130
Toluene	105	70-130
trans-1,3-Dichloropropene	89	70-130
1,1,2-Trichloroethane	105	70-130
Tetrachloroethene	107	70-130
1,2-Dibromoethane (EDB)	105	70-130
Chlorobenzene	105	70-130
Ethyl Benzene	103	70-130
m,p-Xylene	103	70-130
o-Xylene	103	70-130
Styrene	110	70-130
1,1,2,2-Tetrachloroethane	103	70-130
1,3,5-Trimethylbenzene	115	70-130
1,2,4-Trimethylbenzene	104	70-130
1,3-Dichlorobenzene	116	70-130
1,4-Dichlorobenzene	117	70-130
alpha-Chlorotoluene	105	70-130
1,2-Dichlorobenzene	116	70-130
1,2,4-Trichlorobenzene	129	70-130
Hexachlorobutadiene	127	70-130

Container Type: NA - Not Applicable

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Client Sample ID: LCSD

Lab ID#: 1712124-05AA

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**3121105**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 12/11/17 10:49 AM**	

Surrogates	%Recovery	Method Limits
Toluene-d8	102	70-130
1,2-Dichloroethane-d4	82	70-130
4-Bromofluorobenzene	104	70-130

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Sample Transportation Notice
Relinquishing signature on this document indicates that sample is being shipped in compliance with all applicable local, State, Federal, national, and international laws, regulations and ordinances of any kind. Air Toxics Limited assumes no liability with respect to the collection, handling or shipping of these samples. Relinquishing signature also indicates agreement to hold harmless, defend, and indemnify Air Toxics Limited against any claim, demand, or action, of any kind, related to the collection, handling, or shipping of samples. D.O.T. Hotline (800) 467-4922

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

Project Manager Alina Satkoski
Collected by: (Print and Sign) Alina Satkoski
Company MKE Email asatkoski@madison-kipp.com
Address 201 Waubesa St. City Madison State WI Zip 53704
Phone 608 242 5200 Fax —

Project Info:
P.O. # 107418
Project # —
Project Name GETS/SVE

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)
01A	Combined Influent	1L3012	11/30/17	7:30	TO-15	-30	-7		
02A	Effluent	14810	11/30/17	7:45	TO-15	-29.5	-5		

Relinquished by: (signature)	Date/Time	Received by: (signature)	Date/Time
Alina Satkoski	11/30/17 12:00	Alex Ben GATE	12/07/17 0940
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 #
	UPS		NA	Good	Yes No (None)	1712124

Form 1293 rev.11

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12/28/2017
Ms. Alina Satkoski
Madison-Kipp Corporation
201 Waubesa Street

Madison WI 53704

Project Name: GETS/SVE
Project #:
Workorder #: 1712274

Dear Ms. Alina Satkoski

The following report includes the data for the above referenced project for sample(s) received on 12/14/2017 at Air Toxics Ltd.

The data and associated QC analyzed by TO-15 are compliant with the project requirements or laboratory criteria with the exception of the deviations noted in the attached case narrative.

Thank you for choosing Eurofins Air Toxics Inc. for your air analysis needs. Eurofins Air Toxics Inc. is committed to providing accurate data of the highest quality. Please feel free to contact the Project Manager: Ausha Scott at 916-985-1000 if you have any questions regarding the data in this report.

Regards,

Ausha Scott

Project Manager

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WORK ORDER #: 1712274

Work Order Summary

CLIENT:	Ms. Alina Satkoski Madison-Kipp Corporation 201 Waubesa Street Madison, WI 53704	**BILL TO:**	Ms. Alina Satkoski Madison-Kipp Corporation 201 Waubesa Street Madison, WI 53704
PHONE:	608-244-3511	**P.O. #**	107418
FAX:		**PROJECT #**	GETS/SVE
DATE RECEIVED:	12/14/2017	**CONTACT:**	Ausha Scott
DATE COMPLETED:	12/28/2017		

FRACTION #	NAME	TEST	RECEIPT VAC./PRES.	FINAL PRESSURE
01A	Effluent	TO-15	6.9 "Hg	15 psi
02A	Combined Influent	TO-15	6.5 "Hg	15 psi
03A	GETS Influent	TO-15	7.3 "Hg	15 psi
04A	SVE-2	TO-15	1.6 "Hg	15.2 psi
05A	Lab Blank	TO-15	NA	NA
06A	CCV	TO-15	NA	NA
07A	LCS	TO-15	NA	NA
07AA	LCSD	TO-15	NA	NA

CERTIFIED BY: Heidi Hayes DATE: 12/28/17

Technical Director

Certification numbers: AZ Licensure AZ0775, NJ NELAP - CA016, NY NELAP - 11291,
TX NELAP - T104704434-16-11, UT NELAP CA0093332016-7, VA NELAP - 8113, WA NELAP - C935
Name of Accreditation Body: NELAP/ORELAP (Oregon Environmental Laboratory Accreditation Program)
Accreditation number: CA300005, Effective date: 10/18/2016, Expiration date: 10/17/2017.
Eurofins Air Toxics Inc.. certifies that the test results contained in this report meet all requirements of the NELAC standards

LABORATORY NARRATIVE
EPA Method TO-15
Madison-Kipp Corporation
Workorder# 1712274

Four 1 Liter Summa Canister samples were received on December 14, 2017. The laboratory performed analysis via EPA Method TO-15 using GC/MS in the full scan mode.

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.

Receiving Notes

There were no receiving discrepancies.

Analytical Notes

Dilution was performed on samples Effluent, Combined Influent, and GETS Influent due to the presence of high level target species.

Definition of Data Qualifying Flags

Ten 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 not 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, LOD, or MDL value. See data page for project specific U-flag definition.

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

N - The identification is based on presumptive evidence.

M - Reported value may be biased due to apparent matrix interferences.

CN - See Case Narrative.

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

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

Client Sample ID: Effluent

Lab ID#: 1712274-01A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Vinyl Chloride	2.6	8.5	6.7	22
cis-1,2-Dichloroethene	2.6	270	10	1100
Trichloroethene	2.6	750	14	4000
Tetrachloroethene	2.6	730	18	5000

Client Sample ID: Combined Influent

Lab ID#: 1712274-02A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Vinyl Chloride	6.4	10	16	26
cis-1,2-Dichloroethene	6.4	720	26	2900
Trichloroethene	6.4	540	35	2900
Tetrachloroethene	6.4	2400	44	16000

Client Sample ID: GETS Influent

Lab ID#: 1712274-03A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Vinyl Chloride	13	14	34	35
cis-1,2-Dichloroethene	13	1200	53	4600
Trichloroethene	13	870	72	4700
Tetrachloroethene	13	4000	90	27000

Client Sample ID: SVE-2

Lab ID#: 1712274-04A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Vinyl Chloride	1.1	5.1	2.7	13
cis-1,2-Dichloroethene	1.1	93	4.3	370
Trichloroethene	1.1	20	5.8	110
Tetrachloroethene	1.1	50	7.3	340

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Client Sample ID: Effluent

Lab ID#: 1712274-01A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**a121506**	**Date of Collection:**	**12/8/17 11:15:00 AM**
Dil. Factor:	**5.25**	**Date of Analysis:**	**12/15/17 02:48 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	2.6	Not Detected	13	Not Detected
Freon 114	2.6	Not Detected	18	Not Detected
Chloromethane	26	Not Detected	54	Not Detected
Vinyl Chloride	2.6	8.5	6.7	22
Bromomethane	26	Not Detected	100	Not Detected
Chloroethane	10	Not Detected	28	Not Detected
Freon 11	2.6	Not Detected	15	Not Detected
Freon 113	2.6	Not Detected	20	Not Detected
1,1-Dichloroethene	2.6	Not Detected	10	Not Detected
Methylene Chloride	26	Not Detected	91	Not Detected
Methyl tert-butyl ether	10	Not Detected	38	Not Detected
1,1-Dichloroethane	2.6	Not Detected	11	Not Detected
cis-1,2-Dichloroethene	2.6	270	10	1100
Chloroform	2.6	Not Detected	13	Not Detected
1,1,1-Trichloroethane	2.6	Not Detected	14	Not Detected
Carbon Tetrachloride	2.6	Not Detected	16	Not Detected
Benzene	2.6	Not Detected	8.4	Not Detected
1,2-Dichloroethane	2.6	Not Detected	11	Not Detected
Trichloroethene	2.6	750	14	4000
1,2-Dichloropropane	2.6	Not Detected	12	Not Detected
cis-1,3-Dichloropropene	2.6	Not Detected	12	Not Detected
Toluene	2.6	Not Detected	9.9	Not Detected
trans-1,3-Dichloropropene	2.6	Not Detected	12	Not Detected
1,1,2-Trichloroethane	2.6	Not Detected	14	Not Detected
Tetrachloroethene	2.6	730	18	5000
1,2-Dibromoethane (EDB)	2.6	Not Detected	20	Not Detected
Chlorobenzene	2.6	Not Detected	12	Not Detected
Ethyl Benzene	2.6	Not Detected	11	Not Detected
m,p-Xylene	2.6	Not Detected	11	Not Detected
o-Xylene	2.6	Not Detected	11	Not Detected
Styrene	2.6	Not Detected	11	Not Detected
1,1,2,2-Tetrachloroethane	2.6	Not Detected	18	Not Detected
1,3,5-Trimethylbenzene	2.6	Not Detected	13	Not Detected
1,2,4-Trimethylbenzene	2.6	Not Detected	13	Not Detected
1,3-Dichlorobenzene	2.6	Not Detected	16	Not Detected
1,4-Dichlorobenzene	2.6	Not Detected	16	Not Detected
alpha-Chlorotoluene	2.6	Not Detected	14	Not Detected
1,2-Dichlorobenzene	2.6	Not Detected	16	Not Detected
1,2,4-Trichlorobenzene	10	Not Detected	78	Not Detected
Hexachlorobutadiene	10	Not Detected	110	Not Detected

Container Type: 1 Liter Summa Canister

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Client Sample ID: Effluent

Lab ID#: 1712274-01A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**a121506**	**Date of Collection: 12/8/17 11:15:00 AM**	
Dil. Factor:	**5.25**	**Date of Analysis: 12/15/17 02:48 PM**	

Surrogates	%Recovery	Method Limits
Toluene-d8	94	70-130
1,2-Dichloroethane-d4	90	70-130
4-Bromofluorobenzene	89	70-130

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Client Sample ID: Combined Influent

Lab ID#: 1712274-02A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**a121507**	**Date of Collection:**	**12/8/17 11:25:00 AM**
Dil. Factor:	**12.9**	**Date of Analysis:**	**12/15/17 03:12 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	6.4	Not Detected	32	Not Detected
Freon 114	6.4	Not Detected	45	Not Detected
Chloromethane	64	Not Detected	130	Not Detected
Vinyl Chloride	6.4	10	16	26
Bromomethane	64	Not Detected	250	Not Detected
Chloroethane	26	Not Detected	68	Not Detected
Freon 11	6.4	Not Detected	36	Not Detected
Freon 113	6.4	Not Detected	49	Not Detected
1,1-Dichloroethene	6.4	Not Detected	26	Not Detected
Methylene Chloride	64	Not Detected	220	Not Detected
Methyl tert-butyl ether	26	Not Detected	93	Not Detected
1,1-Dichloroethane	6.4	Not Detected	26	Not Detected
cis-1,2-Dichloroethene	6.4	720	26	2900
Chloroform	6.4	Not Detected	31	Not Detected
1,1,1-Trichloroethane	6.4	Not Detected	35	Not Detected
Carbon Tetrachloride	6.4	Not Detected	40	Not Detected
Benzene	6.4	Not Detected	21	Not Detected
1,2-Dichloroethane	6.4	Not Detected	26	Not Detected
Trichloroethene	6.4	540	35	2900
1,2-Dichloropropane	6.4	Not Detected	30	Not Detected
cis-1,3-Dichloropropene	6.4	Not Detected	29	Not Detected
Toluene	6.4	Not Detected	24	Not Detected
trans-1,3-Dichloropropene	6.4	Not Detected	29	Not Detected
1,1,2-Trichloroethane	6.4	Not Detected	35	Not Detected
Tetrachloroethene	6.4	2400	44	16000
1,2-Dibromoethane (EDB)	6.4	Not Detected	50	Not Detected
Chlorobenzene	6.4	Not Detected	30	Not Detected
Ethyl Benzene	6.4	Not Detected	28	Not Detected
m,p-Xylene	6.4	Not Detected	28	Not Detected
o-Xylene	6.4	Not Detected	28	Not Detected
Styrene	6.4	Not Detected	27	Not Detected
1,1,2,2-Tetrachloroethane	6.4	Not Detected	44	Not Detected
1,3,5-Trimethylbenzene	6.4	Not Detected	32	Not Detected
1,2,4-Trimethylbenzene	6.4	Not Detected	32	Not Detected
1,3-Dichlorobenzene	6.4	Not Detected	39	Not Detected
1,4-Dichlorobenzene	6.4	Not Detected	39	Not Detected
alpha-Chlorotoluene	6.4	Not Detected	33	Not Detected
1,2-Dichlorobenzene	6.4	Not Detected	39	Not Detected
1,2,4-Trichlorobenzene	26	Not Detected	190	Not Detected
Hexachlorobutadiene	26	Not Detected	280	Not Detected

Container Type: 1 Liter Summa Canister

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Client Sample ID: Combined Influent

Lab ID#: 1712274-02A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**a121507**	**Date of Collection: 12/8/17 11:25:00 AM**	
Dil. Factor:	**12.9**	**Date of Analysis: 12/15/17 03:12 PM**	

Surrogates	%Recovery	Method Limits
Toluene-d8	94	70-130
1,2-Dichloroethane-d4	91	70-130
4-Bromofluorobenzene	91	70-130

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Client Sample ID: GETS Influent

Lab ID#: 1712274-03A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**a121508**	**Date of Collection:**	**12/8/17 11:30:00 AM**
Dil. Factor:	**26.7**	**Date of Analysis:**	**12/15/17 03:35 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	13	Not Detected	66	Not Detected
Freon 114	13	Not Detected	93	Not Detected
Chloromethane	130	Not Detected	280	Not Detected
Vinyl Chloride	13	14	34	35
Bromomethane	130	Not Detected	520	Not Detected
Chloroethane	53	Not Detected	140	Not Detected
Freon 11	13	Not Detected	75	Not Detected
Freon 113	13	Not Detected	100	Not Detected
1,1-Dichloroethene	13	Not Detected	53	Not Detected
Methylene Chloride	130	Not Detected	460	Not Detected
Methyl tert-butyl ether	53	Not Detected	190	Not Detected
1,1-Dichloroethane	13	Not Detected	54	Not Detected
cis-1,2-Dichloroethene	13	1200	53	4600
Chloroform	13	Not Detected	65	Not Detected
1,1,1-Trichloroethane	13	Not Detected	73	Not Detected
Carbon Tetrachloride	13	Not Detected	84	Not Detected
Benzene	13	Not Detected	43	Not Detected
1,2-Dichloroethane	13	Not Detected	54	Not Detected
Trichloroethene	13	870	72	4700
1,2-Dichloropropane	13	Not Detected	62	Not Detected
cis-1,3-Dichloropropene	13	Not Detected	60	Not Detected
Toluene	13	Not Detected	50	Not Detected
trans-1,3-Dichloropropene	13	Not Detected	60	Not Detected
1,1,2-Trichloroethane	13	Not Detected	73	Not Detected
Tetrachloroethene	13	4000	90	27000
1,2-Dibromoethane (EDB)	13	Not Detected	100	Not Detected
Chlorobenzene	13	Not Detected	61	Not Detected
Ethyl Benzene	13	Not Detected	58	Not Detected
m,p-Xylene	13	Not Detected	58	Not Detected
o-Xylene	13	Not Detected	58	Not Detected
Styrene	13	Not Detected	57	Not Detected
1,1,2,2-Tetrachloroethane	13	Not Detected	92	Not Detected
1,3,5-Trimethylbenzene	13	Not Detected	66	Not Detected
1,2,4-Trimethylbenzene	13	Not Detected	66	Not Detected
1,3-Dichlorobenzene	13	Not Detected	80	Not Detected
1,4-Dichlorobenzene	13	Not Detected	80	Not Detected
alpha-Chlorotoluene	13	Not Detected	69	Not Detected
1,2-Dichlorobenzene	13	Not Detected	80	Not Detected
1,2,4-Trichlorobenzene	53	Not Detected	400	Not Detected
Hexachlorobutadiene	53	Not Detected	570	Not Detected

Container Type: 1 Liter Summa Canister

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Client Sample ID: GETS Influent

Lab ID#: 1712274-03A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**a121508**	**Date of Collection: 12/8/17 11:30:00 AM**	
Dil. Factor:	**26.7**	**Date of Analysis: 12/15/17 03:35 PM**	

Surrogates	%Recovery	Method Limits
Toluene-d8	95	70-130
1,2-Dichloroethane-d4	90	70-130
4-Bromofluorobenzene	91	70-130

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Client Sample ID: SVE-2

Lab ID#: 1712274-04A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**a121509**	**Date of Collection: 12/8/17 12:00:00 PM**	
Dil. Factor:	**2.15**	**Date of Analysis: 12/15/17 04:01 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	1.1	Not Detected	5.3	Not Detected
Freon 114	1.1	Not Detected	7.5	Not Detected
Chloromethane	11	Not Detected	22	Not Detected
Vinyl Chloride	1.1	5.1	2.7	13
Bromomethane	11	Not Detected	42	Not Detected
Chloroethane	4.3	Not Detected	11	Not Detected
Freon 11	1.1	Not Detected	6.0	Not Detected
Freon 113	1.1	Not Detected	8.2	Not Detected
1,1-Dichloroethene	1.1	Not Detected	4.3	Not Detected
Methylene Chloride	11	Not Detected	37	Not Detected
Methyl tert-butyl ether	4.3	Not Detected	16	Not Detected
1,1-Dichloroethane	1.1	Not Detected	4.4	Not Detected
cis-1,2-Dichloroethene	1.1	93	4.3	370
Chloroform	1.1	Not Detected	5.2	Not Detected
1,1,1-Trichloroethane	1.1	Not Detected	5.9	Not Detected
Carbon Tetrachloride	1.1	Not Detected	6.8	Not Detected
Benzene	1.1	Not Detected	3.4	Not Detected
1,2-Dichloroethane	1.1	Not Detected	4.4	Not Detected
Trichloroethene	1.1	20	5.8	110
1,2-Dichloropropane	1.1	Not Detected	5.0	Not Detected
cis-1,3-Dichloropropene	1.1	Not Detected	4.9	Not Detected
Toluene	1.1	Not Detected	4.0	Not Detected
trans-1,3-Dichloropropene	1.1	Not Detected	4.9	Not Detected
1,1,2-Trichloroethane	1.1	Not Detected	5.9	Not Detected
Tetrachloroethene	1.1	50	7.3	340
1,2-Dibromoethane (EDB)	1.1	Not Detected	8.3	Not Detected
Chlorobenzene	1.1	Not Detected	4.9	Not Detected
Ethyl Benzene	1.1	Not Detected	4.7	Not Detected
m,p-Xylene	1.1	Not Detected	4.7	Not Detected
o-Xylene	1.1	Not Detected	4.7	Not Detected
Styrene	1.1	Not Detected	4.6	Not Detected
1,1,2,2-Tetrachloroethane	1.1	Not Detected	7.4	Not Detected
1,3,5-Trimethylbenzene	1.1	Not Detected	5.3	Not Detected
1,2,4-Trimethylbenzene	1.1	Not Detected	5.3	Not Detected
1,3-Dichlorobenzene	1.1	Not Detected	6.5	Not Detected
1,4-Dichlorobenzene	1.1	Not Detected	6.5	Not Detected
alpha-Chlorotoluene	1.1	Not Detected	5.6	Not Detected
1,2-Dichlorobenzene	1.1	Not Detected	6.5	Not Detected
1,2,4-Trichlorobenzene	4.3	Not Detected	32	Not Detected
Hexachlorobutadiene	4.3	Not Detected	46	Not Detected

Container Type: 1 Liter Summa Canister

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Client Sample ID: SVE-2

Lab ID#: 1712274-04A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**a121509**	**Date of Collection: 12/8/17 12:00:00 PM**	
Dil. Factor:	**2.15**	**Date of Analysis: 12/15/17 04:01 PM**	

Surrogates	%Recovery	Method Limits
Toluene-d8	94	70-130
1,2-Dichloroethane-d4	90	70-130
4-Bromofluorobenzene	89	70-130

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Client Sample ID: Lab Blank

Lab ID#: 1712274-05A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**a121505**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 12/15/17 12:33 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.50	Not Detected	2.5	Not Detected
Freon 114	0.50	Not Detected	3.5	Not Detected
Chloromethane	5.0	Not Detected	10	Not Detected
Vinyl Chloride	0.50	Not Detected	1.3	Not Detected
Bromomethane	5.0	Not Detected	19	Not Detected
Chloroethane	2.0	Not Detected	5.3	Not Detected
Freon 11	0.50	Not Detected	2.8	Not Detected
Freon 113	0.50	Not Detected	3.8	Not Detected
1,1-Dichloroethene	0.50	Not Detected	2.0	Not Detected
Methylene Chloride	5.0	Not Detected	17	Not Detected
Methyl tert-butyl ether	2.0	Not Detected	7.2	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
Chloroform	0.50	Not Detected	2.4	Not Detected
1,1,1-Trichloroethane	0.50	Not Detected	2.7	Not Detected
Carbon Tetrachloride	0.50	Not Detected	3.1	Not Detected
Benzene	0.50	Not Detected	1.6	Not Detected
1,2-Dichloroethane	0.50	Not Detected	2.0	Not Detected
Trichloroethene	0.50	Not Detected	2.7	Not Detected
1,2-Dichloropropane	0.50	Not Detected	2.3	Not Detected
cis-1,3-Dichloropropene	0.50	Not Detected	2.3	Not Detected
Toluene	0.50	Not Detected	1.9	Not Detected
trans-1,3-Dichloropropene	0.50	Not Detected	2.3	Not Detected
1,1,2-Trichloroethane	0.50	Not Detected	2.7	Not Detected
Tetrachloroethene	0.50	Not Detected	3.4	Not Detected
1,2-Dibromoethane (EDB)	0.50	Not Detected	3.8	Not Detected
Chlorobenzene	0.50	Not Detected	2.3	Not Detected
Ethyl Benzene	0.50	Not Detected	2.2	Not Detected
m,p-Xylene	0.50	Not Detected	2.2	Not Detected
o-Xylene	0.50	Not Detected	2.2	Not Detected
Styrene	0.50	Not Detected	2.1	Not Detected
1,1,2,2-Tetrachloroethane	0.50	Not Detected	3.4	Not Detected
1,3,5-Trimethylbenzene	0.50	Not Detected	2.4	Not Detected
1,2,4-Trimethylbenzene	0.50	Not Detected	2.4	Not Detected
1,3-Dichlorobenzene	0.50	Not Detected	3.0	Not Detected
1,4-Dichlorobenzene	0.50	Not Detected	3.0	Not Detected
alpha-Chlorotoluene	0.50	Not Detected	2.6	Not Detected
1,2-Dichlorobenzene	0.50	Not Detected	3.0	Not Detected
1,2,4-Trichlorobenzene	2.0	Not Detected	15	Not Detected
Hexachlorobutadiene	2.0	Not Detected	21	Not Detected

Container Type: NA - Not Applicable

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Client Sample ID: Lab Blank

Lab ID#: 1712274-05A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**a121505**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 12/15/17 12:33 PM**	

Surrogates	%Recovery	Method Limits
Toluene-d8	95	70-130
1,2-Dichloroethane-d4	91	70-130
4-Bromofluorobenzene	90	70-130

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Client Sample ID: CCV

Lab ID#: 1712274-06A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**a121502**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 12/15/17 10:47 AM**	

Compound	%Recovery
Freon 12	90
Freon 114	98
Chloromethane	98
Vinyl Chloride	90
Bromomethane	96
Chloroethane	89
Freon 11	92
Freon 113	93
1,1-Dichloroethene	92
Methylene Chloride	96
Methyl tert-butyl ether	83
1,1-Dichloroethane	90
cis-1,2-Dichloroethene	95
Chloroform	92
1,1,1-Trichloroethane	91
Carbon Tetrachloride	100
Benzene	88
1,2-Dichloroethane	98
Trichloroethene	100
1,2-Dichloropropane	91
cis-1,3-Dichloropropene	85
Toluene	95
trans-1,3-Dichloropropene	91
1,1,2-Trichloroethane	102
Tetrachloroethene	102
1,2-Dibromoethane (EDB)	104
Chlorobenzene	104
Ethyl Benzene	92
m,p-Xylene	96
o-Xylene	98
Styrene	100
1,1,2,2-Tetrachloroethane	88
1,3,5-Trimethylbenzene	101
1,2,4-Trimethylbenzene	101
1,3-Dichlorobenzene	100
1,4-Dichlorobenzene	101
alpha-Chlorotoluene	94
1,2-Dichlorobenzene	99
1,2,4-Trichlorobenzene	88
Hexachlorobutadiene	86

Container Type: NA - Not Applicable

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Client Sample ID: CCV

Lab ID#: 1712274-06A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**a121502**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 12/15/17 10:47 AM**	

Surrogates	%Recovery	Method Limits
Toluene-d8	96	70-130
1,2-Dichloroethane-d4	91	70-130
4-Bromofluorobenzene	80	70-130

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Client Sample ID: LCS

Lab ID#: 1712274-07A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**a121503**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 12/15/17 11:12 AM**	

Compound	%Recovery	Method Limits
Freon 12	89	70-130
Freon 114	100	70-130
Chloromethane	95	70-130
Vinyl Chloride	90	70-130
Bromomethane	94	70-130
Chloroethane	91	70-130
Freon 11	93	70-130
Freon 113	90	70-130
1,1-Dichloroethene	92	70-130
Methylene Chloride	94	70-130
Methyl tert-butyl ether	80	70-130
1,1-Dichloroethane	88	70-130
cis-1,2-Dichloroethene	99	70-130
Chloroform	88	70-130
1,1,1-Trichloroethane	88	70-130
Carbon Tetrachloride	94	70-130
Benzene	84	70-130
1,2-Dichloroethane	95	70-130
Trichloroethene	96	70-130
1,2-Dichloropropane	90	70-130
cis-1,3-Dichloropropene	78	70-130
Toluene	91	70-130
trans-1,3-Dichloropropene	85	70-130
1,1,2-Trichloroethane	96	70-130
Tetrachloroethene	97	70-130
1,2-Dibromoethane (EDB)	98	70-130
Chlorobenzene	97	70-130
Ethyl Benzene	87	70-130
m,p-Xylene	90	70-130
o-Xylene	94	70-130
Styrene	93	70-130
1,1,2,2-Tetrachloroethane	87	70-130
1,3,5-Trimethylbenzene	91	70-130
1,2,4-Trimethylbenzene	90	70-130
1,3-Dichlorobenzene	91	70-130
1,4-Dichlorobenzene	90	70-130
alpha-Chlorotoluene	86	70-130
1,2-Dichlorobenzene	88	70-130
1,2,4-Trichlorobenzene	72	70-130
Hexachlorobutadiene	75	70-130

Container Type: NA - Not Applicable

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Client Sample ID: LCS

Lab ID#: 1712274-07A

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**a121503**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 12/15/17 11:12 AM**	

Surrogates	%Recovery	Method Limits
Toluene-d8	94	70-130
1,2-Dichloroethane-d4	89	70-130
4-Bromofluorobenzene	87	70-130

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Client Sample ID: LCSD

Lab ID#: 1712274-07AA

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**a121504**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 12/15/17 11:37 AM**	

Compound	%Recovery	Method Limits
Freon 12	85	70-130
Freon 114	97	70-130
Chloromethane	93	70-130
Vinyl Chloride	87	70-130
Bromomethane	93	70-130
Chloroethane	88	70-130
Freon 11	88	70-130
Freon 113	87	70-130
1,1-Dichloroethene	89	70-130
Methylene Chloride	89	70-130
Methyl tert-butyl ether	76	70-130
1,1-Dichloroethane	84	70-130
cis-1,2-Dichloroethene	96	70-130
Chloroform	86	70-130
1,1,1-Trichloroethane	85	70-130
Carbon Tetrachloride	92	70-130
Benzene	81	70-130
1,2-Dichloroethane	91	70-130
Trichloroethene	92	70-130
1,2-Dichloropropane	86	70-130
cis-1,3-Dichloropropene	76	70-130
Toluene	88	70-130
trans-1,3-Dichloropropene	82	70-130
1,1,2-Trichloroethane	90	70-130
Tetrachloroethene	92	70-130
1,2-Dibromoethane (EDB)	92	70-130
Chlorobenzene	92	70-130
Ethyl Benzene	82	70-130
m,p-Xylene	85	70-130
o-Xylene	87	70-130
Styrene	86	70-130
1,1,2,2-Tetrachloroethane	79	70-130
1,3,5-Trimethylbenzene	87	70-130
1,2,4-Trimethylbenzene	86	70-130
1,3-Dichlorobenzene	85	70-130
1,4-Dichlorobenzene	85	70-130
alpha-Chlorotoluene	81	70-130
1,2-Dichlorobenzene	83	70-130
1,2,4-Trichlorobenzene	70	70-130
Hexachlorobutadiene	70	70-130

Container Type: NA - Not Applicable

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Client Sample ID: LCSD

Lab ID#: 1712274-07AA

EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**a121504**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 12/15/17 11:37 AM**	

Surrogates	%Recovery	Method Limits
Toluene-d8	95	70-130
1,2-Dichloroethane-d4	91	70-130
4-Bromofluorobenzene	89	70-130

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Sample Transportation Notice
Relinquishing signature on this document indicates that sample is being shipped in compliance with all applicable local, State, Federal, national, and international laws, regulations and ordinances of any kind. Air Toxics Limited assumes no liability with respect to the collection, handling or shipping of these samples. Relinquishing signature also indicates agreement to hold harmless, defend, and indemnify Air Toxics Limited against any claim, demand, or action, of any kind, related to the collection, handling, or shipping of samples. D.O.T. Hotline (800) 467-4922

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

Project Manager: Alina Satkoski
Collected by: (Print and Sign) Alina Satkoski [signature]
Company: MKC   Email:
Address: 201 Waubesa   City: Madison   State: WI   Zip: 53718
Phone: 608 242 5200   Fax:

Project Info:
P.O. # 107418
Project #
Project Name: GETS SVE

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)
01A	Effluent	40865	12/8/17	1115	TO-15	-28.5	-8.5		
02A	Combined Influent	1L3038	12/8/17	1125	TO-15	-29	-7.5		
03A	GETS Influent	3038	12/8/17	1130	TO-15	-28	-8		
04A	SVE-2	1L2451	12/8/17	1200	TO-15	-28	-2		

Relinquished by: (signature) Date/Time	Received by: (signature) Date/Time
[signature] 12/8/17 1200	Andrea Augustin EATL 12/14/17 1050
Relinquished by: (signature) Date/Time	Received by: (signature) Date/Time
Relinquished by: (signature) Date/Time	Received by: (signature) Date/Time

Notes: ANALYZE SVE-2 IF POSSIBLE VAC (FINAL) at -2 in Hg.

Lab Use Only	Shipper Name	Air Bill #	Temp (°C)	Condition	Custody Seals Intact?	Work Order #
	UPS		NA	Good	Yes No (None)	~~1712213~~ 12/14/17 1712274

Form 1293 rev.11

Appendix E
Soil Vapor Extraction Influent Summary Data

Table E-1
Estimate of SVE System Removal - Total Volatile Organic Compounds
Madison-Kipp Corporation
201 Waubesa Street
Madison, Wisconsin

DATE	TOTAL VOC CONCENTRATION[(1)] µg/m^3	SYSTEM FLOW RATE CFM	REMOVAL RATE lb/year
9/9/2016	3368	188.4	21
12/7/2016	652	195.9	4.2
3/7/2017	296	189.7	1.8
5/5/2017	486	182.6	2.9
9/14/2017	775	189.4	4.8
Average			6.9

Notes:

VOCs = Volatile Organic Compounds

SVE = Soil Vapor Extraction

GETS = Groundwater extraction and treatment system.

CFM = cubic feet per minute

µg/m^3 = micrograms per cubic meters

lb/hr = pounds per hour

Updated By: B. Wachholz 1/30/2018

Checked By: T. Perkins 1/31/2018

Footnotes:

1. Total VOC concentrations were calculated based on analytes reported above and below the method reporting limit. For detected analytes, the reported concentrations were used. For all other analytes detected below the method reporting limit, half of the reporting limit was used.

Table E-2
Estimate of Extraction Well SVE - 2 Removal Rates
Madison-Kipp Corporation
201 Waubesa Street
Madison, Wisconsin

PARAMETER	DATE	CONCENTRATION (ug/m3)	SYSTEM FLOW RATE (CFM)	REMOVAL RATE (lb/yr)
PCE				
PCE	9/14/2017	870	28.1	0.80
	11/13/2017	620	28.7	0.58
	12/8/2017	340	34.3	0.38
TCE				
TCE	9/14/2017	310	28.1	0.29
	11/13/2017	230	28.7	0.22
	12/8/2017	110	34.3	0.12
cis-1,2-DCE				
cis-1,2-DCE	9/14/2017	430	28.1	0.40
	11/13/2017	450	28.7	0.42
	12/8/2017	370	34.3	0.42
Vinyl Chloride				
VC	9/14/2017	4	28.1	0.0037
	11/13/2017	7.2	28.7	0.0068
	12/8/2017	13	34.3	0.015
Total VOCs Detected				
Total VOCs Detected	9/14/2017	1614	28.1	1.5
	11/13/2017	1307	28.7	1.2
	12/8/2017	833	34.3	0.94

Notes:

VOCs = Volatile Organic Compounds

SVE = Soil Vapor Extraction

CFM = cubic feet per minute

$\mu g/m^3$ = micrograms per cubic meters

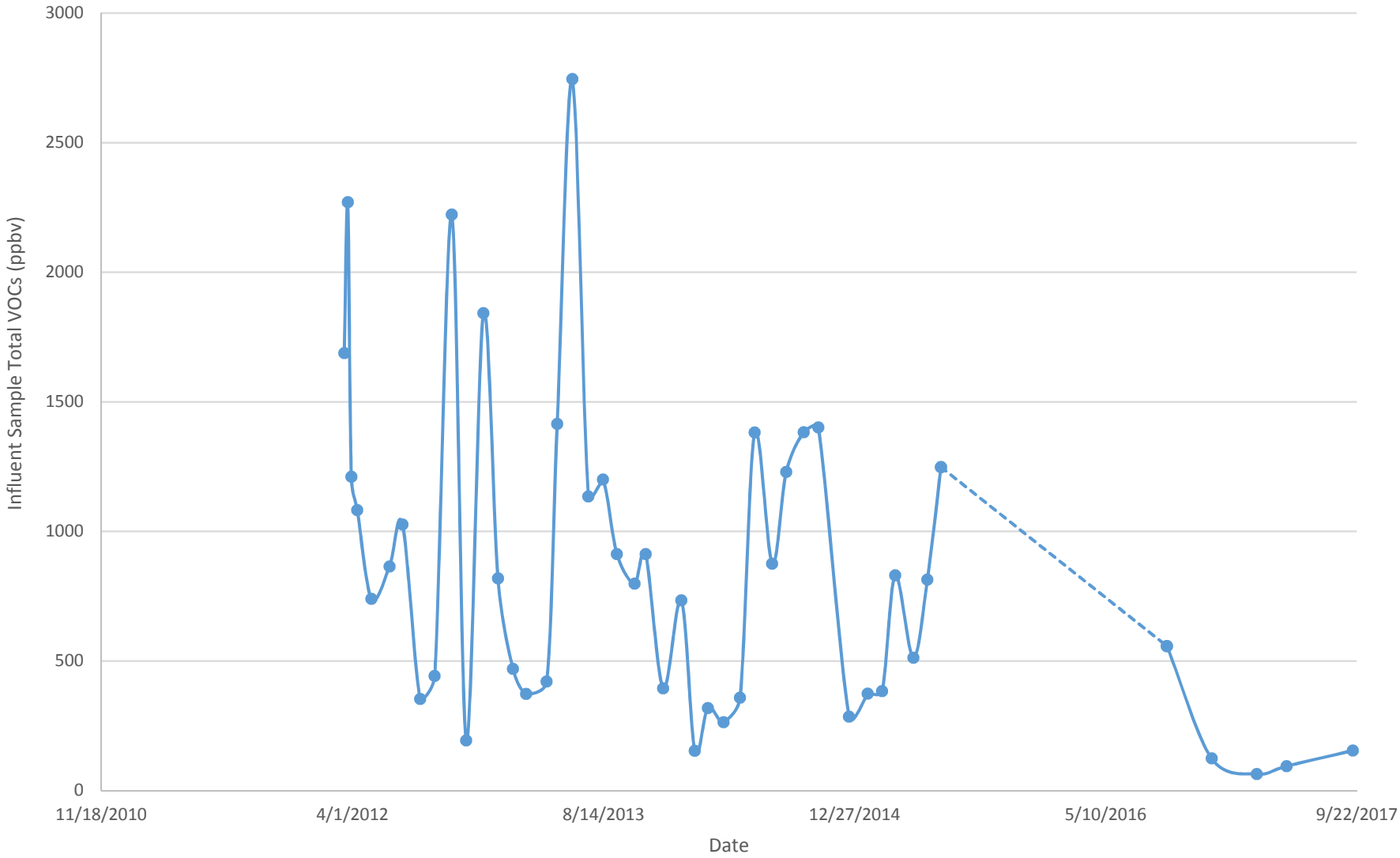
lb/hr = pounds per hour

Created By: A. Stehn (1/24/18)

Checked By: B. Wachholz (1/30/18)

Footnotes:

1. Total VOC concentrations were calculated based on analytes reported above and below the method reporting limit. For detected analytes, the reported concentrations were used. For all other analytes detected below the method reporting limit, half of the reporting limit was used.



Note: The influent data from November 2014 did not correlate with the effluent data or with the data collected during the previous or subsequent months and was not included in this summary.

---------- Dashed Where Inferred

Plot Date: 8/29/2017, 10:10:17 AM by BDEEGAN -- LAYOUT: ANSI B (11"x17")
Path: E:\MadisonKIPPCorp\2017_266431\266431-010.mxd

Coordinate System: NAD 1983 StatePlane Wisconsin South FIPS 4803 Feet (Foot US)
Map Rotation: 0

TRC - GIS

BASE MAP FROM ESRI, "WORLD IMAGERY" WEB BASEMAP SERVICE LAYER.
PARCELS FROM WI SCO.

LEGEND

- SITE PROPERTY BOUNDARY
- SOIL EXTRACTION WELL
- VAPOR MONITORING POINT
- VAPOR MONITORING POINT (LOST)

0 100 200 FEET

1 " = 100 '
1:1,200

N

TRC
708 Heartland Trail
Suite 3000
Madison, WI 53717
Phone: 608.826.3600

PROJECT:

MADISON-KIPP CORPORATION
201 WAUBESA STREET
MADISON, WISCONSIN

TITLE:

SOIL VAPOR EXTRACTION WELL AND VAPOR MONITORING POINT LOCATION MAP

DRAWN BY:	B DEEGAN
CHECKED BY:	A STEHN
APPROVED BY:	K VATER
DATE:	AUGUST 2017
PROJ. NO.:	266431
FILE:	266431-010.mxd

FIGURE E-1

Appendix F
Groundwater Monitoring
Laboratory Analytical Reports (on CD)

Pace Analytical®
ECCS Mobile Lab Services

2525 Advance Road
Madison, WI 53718
608.221.8700 Phone
608.221.4889 Fax

October 19, 2017

Andrew Stehn
TRC Environmental Corporation, Inc.
708 Heartland Trail, Ste 3000
Madison, WI 53717

RE: Madison Kipp Corp. Semi-Annual Sampling

Enclosed are the analytical results for the samples received by the laboratory on 10/05/2017.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. These results are in compliance with the 2009 NELAC Standards and the appropriate agencies listed below, unless otherwise noted in the case narrative. This analytical report should be reproduced in its entirety.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Jessica Esser
Project Manager

Certification List			Expires
ADEQ	Arkansas Department of Environmental Quality	17-065-0	09/26/2018
DODELAP	DOD ELAP Accreditation (A2LA)	3269.01	03/31/2018
ILEPA	Illinois Secondary NELAP Accreditation	003174	04/30/2018
KDHE	Kansas Secondary NELAP Accreditation	E-10384	04/30/2018
LELAP	Louisiana Primary NELAP Accreditation	04165	06/30/2018
NCDEQ	North Carolina Dept. of Environmental Quality Accreditation	688	12/31/2017
NJDEP	New Jersey Secondary NELAP Accreditation	WI004	06/30/2018
ODEQ	Oklahoma Department of Environmental Quality Accreditation	2017-154	08/31/2018
TCEQ	Texas Secondary NELAP Accreditation	T104704504-16-7	11/30/2017
WDNR	Wisconsin Certification under NR 149	113289110	08/31/2018

Pace Analytical®
ECCS Mobile Lab Services

2525 Advance Road
Madison, WI 53718
608.221.8700 Phone
608.221.4889 Fax

TRC Environmental Corporation, Inc.
708 Heartland Trail, Ste 3000
Madison WI, 53717

Project: Madison Kipp Corp. Semi-Annual Sampling
Project Number: 266431
Project Manager: Andrew Stehn

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MP-14 Port 1 (170-178)	A174009-01	Water	10/02/2017	10/05/2017
MP-14 Port 2 (135-140)	A174009-02	Water	10/02/2017	10/05/2017
MP-14 Port 3 (100-105)	A174009-03	Water	10/02/2017	10/05/2017
MP-16 Port 1 (175-179)	A174009-04	Water	10/02/2017	10/05/2017
MP-16 Port 2 (140-144)	A174009-05	Water	10/02/2017	10/05/2017
MP-16 Port 3 (106-116)	A174009-06	Water	10/02/2017	10/05/2017
MP-15 Port 1 (177-187)	A174009-07	Water	10/03/2017	10/05/2017
MP-15 Port 2 (142-146)	A174009-08	Water	10/03/2017	10/05/2017
MP-15 Port 3 (120-125)	A174009-09	Water	10/03/2017	10/05/2017
MP-15 Port 4 (100-105)	A174009-10	Water	10/03/2017	10/05/2017
MP-15 Port 5 (88-92)	A174009-11	Water	10/03/2017	10/05/2017
MP-13 Port 1 (163-167)	A174009-12	Water	10/03/2017	10/05/2017
MP-13 Port 2 (135-139)	A174009-13	Water	10/03/2017	10/05/2017
MP-13 Port 3 (121-125)	A174009-14	Water	10/03/2017	10/05/2017
MP-13 Port 4 (102-106)	A174009-15	Water	10/03/2017	10/05/2017
MP-13 Port 5 (81-85)	A174009-16	Water	10/03/2017	10/05/2017
MP-13 Port 6 (67-71)	A174009-17	Water	10/03/2017	10/05/2017
MP-13 Port 7 (44-48)	A174009-18	Water	10/03/2017	10/05/2017
MW-25D2	A174009-19	Water	10/03/2017	10/05/2017
MW-25D	A174009-20	Water	10/03/2017	10/05/2017
MW-27D2	A174009-21	Water	10/04/2017	10/05/2017
MW-27D	A174009-22	Water	10/04/2017	10/05/2017
MW-5D3	A174009-23	Water	10/04/2017	10/05/2017
MW-5S	A174009-24	Water	10/04/2017	10/05/2017
MW-5D	A174009-25	Water	10/04/2017	10/05/2017
MW-5D2	A174009-26	Water	10/04/2017	10/05/2017
MW-9D2	A174009-27	Water	10/04/2017	10/05/2017
MW-1	A174009-28	Water	10/04/2017	10/05/2017
MW-9D	A174009-29	Water	10/04/2017	10/05/2017
MW-2D	A174009-30	Water	10/04/2017	10/05/2017

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Madison, WI 53718
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TRC Environmental Corporation, Inc.	Project: Madison Kipp Corp. Semi-Annual Sampling
708 Heartland Trail, Ste 3000	Project Number: 266431
Madison WI, 53717	Project Manager: Andrew Stehn

CASE NARRATIVE

Sample Receipt Information:
30 samples were received on 10/05/2017. Samples were received at 2.3 degrees Celsius. Samples were received in acceptable condition with the exception of one label discrepancy.

Sample A174009-06 had a discrepancy between the sample description on the chain of custody (COC) and the sample description on the container. Per the client, the container sample description is correct.

Please see the COC document at the end of this report for additional information.

Continuing Calibration Verification (CCV):
CCV indicates a potential high bias for chloromethane and vinyl chloride for samples A174009-01, A174009-02, A174009-07, A174009-08, A174009-11 through A174009-14, A174009-16, A174009-19, A174009-20, A174009-22, A174009-23 and A174009-26 through A174009-29. The upper control limits are 130% and 120%. The highest recoveries were 132% and 127%, respectively. Any detections are footnoted with an HC. For the samples where results were less than the reporting limit no further action is required.

CCV also indicates a potential high bias for 1,1-dichloroethene and bromomethane for the samples listed above. All samples were less than the reporting limit for these analytes so no further action is required.

CCV indicates a potential high bias for acetone for samples A174009-04 and A174009-05. Samples were less than the reporting limit for this analyte so no further action is required.

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708 Heartland Trail, Ste 3000	Project Number: 266431
Madison WI, 53717	Project Manager: Andrew Stehn

MP-14 Port 1 (170-178)

A174009-01 (Water)

Date Sampled
10/02/2017 13:35

Pace Analytical - Madison

Volatile Organic Compounds by Method 8260 - Purge and Trap — **Preparation Batch: A710028**

Analyte	Result	Limit of Detection	Limit of Quantitation	Units	Dilution	Prepared	Analyzed	Method	Qualifiers
1,1,1,2-Tetrachloroethane	ND	2.2	10	ug/L	20	10/10/2017	10/10/2017 19:19	EPA 8260B	
1,1,1-Trichloroethane	ND	2.0	10	ug/L	20	10/10/2017	10/10/2017 19:19	EPA 8260B	
1,1,2,2-Tetrachloroethane	ND	2.0	10	ug/L	20	10/10/2017	10/10/2017 19:19	EPA 8260B	
1,1,2-Trichloroethane	ND	2.0	10	ug/L	20	10/10/2017	10/10/2017 19:19	EPA 8260B	
1,1,2-Trichlorotrifluoroethane	ND	2.6	10	ug/L	20	10/10/2017	10/10/2017 19:19	EPA 8260B	
1,1-Dichloroethane	ND	2.4	10	ug/L	20	10/10/2017	10/10/2017 19:19	EPA 8260B	
1,1-Dichloroethene	ND	2.8	10	ug/L	20	10/10/2017	10/10/2017 19:19	EPA 8260B	
1,1-Dichloropropene	ND	2.2	10	ug/L	20	10/10/2017	10/10/2017 19:19	EPA 8260B	
1,2,3-Trichlorobenzene	ND	0.90	40	ug/L	20	10/10/2017	10/10/2017 19:19	EPA 8260B	
1,2,3-Trichloropropane	ND	3.0	20	ug/L	20	10/10/2017	10/10/2017 19:19	EPA 8260B	
1,2,4-Trichlorobenzene	ND	1.5	40	ug/L	20	10/10/2017	10/10/2017 19:19	EPA 8260B	
1,2,4-Trimethylbenzene	ND	1.2	10	ug/L	20	10/10/2017	10/10/2017 19:19	EPA 8260B	
1,2-Dibromo-3-chloropropane	ND	5.0	10	ug/L	20	10/10/2017	10/10/2017 19:19	EPA 8260B	
1,2-Dibromoethane (EDB)	ND	2.6	10	ug/L	20	10/10/2017	10/10/2017 19:19	EPA 8260B	
1,2-Dichlorobenzene	ND	1.5	10	ug/L	20	10/10/2017	10/10/2017 19:19	EPA 8260B	
1,2-Dichloroethane	ND	1.6	10	ug/L	20	10/10/2017	10/10/2017 19:19	EPA 8260B	
1,2-Dichloropropane	ND	2.0	10	ug/L	20	10/10/2017	10/10/2017 19:19	EPA 8260B	
1,3,5-Trimethylbenzene	ND	1.5	10	ug/L	20	10/10/2017	10/10/2017 19:19	EPA 8260B	
1,3-Dichlorobenzene	ND	1.9	10	ug/L	20	10/10/2017	10/10/2017 19:19	EPA 8260B	
1,3-Dichloropropane	ND	2.2	10	ug/L	20	10/10/2017	10/10/2017 19:19	EPA 8260B	
1,4-Dichlorobenzene	ND	1.4	10	ug/L	20	10/10/2017	10/10/2017 19:19	EPA 8260B	
2,2-Dichloropropane	ND	2.8	10	ug/L	20	10/10/2017	10/10/2017 19:19	EPA 8260B	
2-Butanone	ND	60	400	ug/L	20	10/10/2017	10/10/2017 19:19	EPA 8260B	
2-Chlorotoluene	ND	1.5	10	ug/L	20	10/10/2017	10/10/2017 19:19	EPA 8260B	
2-Hexanone	ND	19	400	ug/L	20	10/10/2017	10/10/2017 19:19	EPA 8260B	
4-Chlorotoluene	ND	1.5	10	ug/L	20	10/10/2017	10/10/2017 19:19	EPA 8260B	
4-Methyl-2-pentanone	ND	15	400	ug/L	20	10/10/2017	10/10/2017 19:19	EPA 8260B	
Acetone	ND	68	400	ug/L	20	10/10/2017	10/10/2017 19:19	EPA 8260B	
Benzene	ND	1.8	10	ug/L	20	10/10/2017	10/10/2017 19:19	EPA 8260B	
Bromobenzene	ND	1.7	10	ug/L	20	10/10/2017	10/10/2017 19:19	EPA 8260B	
Bromochloromethane	ND	6.2	10	ug/L	20	10/10/2017	10/10/2017 19:19	EPA 8260B	
Bromodichloromethane	ND	1.5	10	ug/L	20	10/10/2017	10/10/2017 19:19	EPA 8260B	
Bromoform	ND	1.8	10	ug/L	20	10/10/2017	10/10/2017 19:19	EPA 8260B	
Bromomethane	ND	12	100	ug/L	20	10/10/2017	10/10/2017 19:19	EPA 8260B	
Carbon disulfide	ND	1.1	10	ug/L	20	10/10/2017	10/10/2017 19:19	EPA 8260B	
Carbon tetrachloride	ND	0.76	10	ug/L	20	10/10/2017	10/10/2017 19:19	EPA 8260B	
Chlorobenzene	ND	1.5	10	ug/L	20	10/10/2017	10/10/2017 19:19	EPA 8260B	
Chloroethane	ND	5.0	100	ug/L	20	10/10/2017	10/10/2017 19:19	EPA 8260B	
Chloroform	**1.2**	1.2	10	ug/L	20	10/10/2017	10/10/2017 19:19	EPA 8260B	J, D
Chloromethane	**5.2**	3.2	40	ug/L	20	10/10/2017	10/10/2017 19:19	EPA 8260B	HC, J, D

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MP-14 Port 1 (170-178)

A174009-01 (Water)

Date Sampled
10/02/2017 13:35

Pace Analytical - Madison

Volatile Organic Compounds by Method 8260 - Purge and Trap — **Preparation Batch: A710028**

Analyte	Result	Limit of Detection	Limit of Quantitation	Units	Dilution	Prepared	Analyzed	Method	Qualifiers
cis-1,2-Dichloroethene	**32**	2.2	10	ug/L	20	10/10/2017	10/10/2017 19:19	EPA 8260B	D
cis-1,3-Dichloropropene	ND	1.2	10	ug/L	20	10/10/2017	10/10/2017 19:19	EPA 8260B	
Dibromochloromethane	ND	1.8	10	ug/L	20	10/10/2017	10/10/2017 19:19	EPA 8260B	
Dibromomethane	ND	2.8	10	ug/L	20	10/10/2017	10/10/2017 19:19	EPA 8260B	
Dichlorodifluoromethane	ND	2.2	10	ug/L	20	10/10/2017	10/10/2017 19:19	EPA 8260B	
Diisopropyl Ether	ND	3.0	10	ug/L	20	10/10/2017	10/10/2017 19:19	EPA 8260B	
Ethylbenzene	ND	1.1	10	ug/L	20	10/10/2017	10/10/2017 19:19	EPA 8260B	
Hexachlorobutadiene	ND	2.6	40	ug/L	20	10/10/2017	10/10/2017 19:19	EPA 8260B	
Isopropylbenzene	ND	1.6	10	ug/L	20	10/10/2017	10/10/2017 19:19	EPA 8260B	
m,p-Xylene	**1.2**	1.1	20	ug/L	20	10/10/2017	10/10/2017 19:19	EPA 8260B	B, J, D
Methyl t-Butyl Ether	ND	2.8	10	ug/L	20	10/10/2017	10/10/2017 19:19	EPA 8260B	
Methylene chloride	ND	2.8	40	ug/L	20	10/10/2017	10/10/2017 19:19	EPA 8260B	
Naphthalene	ND	1.8	100	ug/L	20	10/10/2017	10/10/2017 19:19	EPA 8260B	
n-Butyl Benzene	ND	2.8	10	ug/L	20	10/10/2017	10/10/2017 19:19	EPA 8260B	
n-Hexane	ND	4.2	10	ug/L	20	10/10/2017	10/10/2017 19:19	EPA 8260B	
n-Propyl Benzene	ND	2.0	10	ug/L	20	10/10/2017	10/10/2017 19:19	EPA 8260B	
o-Xylene	ND	1.2	10	ug/L	20	10/10/2017	10/10/2017 19:19	EPA 8260B	
p-Isopropyltoluene	ND	1.7	10	ug/L	20	10/10/2017	10/10/2017 19:19	EPA 8260B	
sec-Butyl Benzene	ND	2.6	10	ug/L	20	10/10/2017	10/10/2017 19:19	EPA 8260B	
Styrene	**1.6**	1.3	10	ug/L	20	10/10/2017	10/10/2017 19:19	EPA 8260B	B, J, D
tert-Butylbenzene	ND	2.4	10	ug/L	20	10/10/2017	10/10/2017 19:19	EPA 8260B	
Tetrachloroethene	**840**	1.6	10	ug/L	20	10/10/2017	10/10/2017 19:19	EPA 8260B	D
Tetrahydrofuran	ND	24	200	ug/L	20	10/10/2017	10/10/2017 19:19	EPA 8260B	
Toluene	ND	1.1	10	ug/L	20	10/10/2017	10/10/2017 19:19	EPA 8260B	
trans-1,2-Dichloroethene	ND	2.2	10	ug/L	20	10/10/2017	10/10/2017 19:19	EPA 8260B	
trans-1,3-Dichloropropene	ND	1.9	10	ug/L	20	10/10/2017	10/10/2017 19:19	EPA 8260B	
Trichloroethene	**60**	1.2	10	ug/L	20	10/10/2017	10/10/2017 19:19	EPA 8260B	D
Trichlorofluoromethane	ND	2.6	10	ug/L	20	10/10/2017	10/10/2017 19:19	EPA 8260B	
Vinyl chloride	ND	3.2	10	ug/L	20	10/10/2017	10/10/2017 19:19	EPA 8260B	
Xylenes, total	ND	2.3	30	ug/L	20	10/10/2017	10/10/2017 19:19	EPA 8260B	
Surrogate: Dibromofluoromethane			*107 %*	*68.9-141*		*10/10/2017*	*10/10/2017 19:19*	*EPA 8260B*	
Surrogate: Toluene-d8			*97.8 %*	*73.3-114*		*10/10/2017*	*10/10/2017 19:19*	*EPA 8260B*	
Surrogate: 4-Bromofluorobenzene			*91.9 %*	*72.2-114*		*10/10/2017*	*10/10/2017 19:19*	*EPA 8260B*	

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Madison WI, 53717	Project Manager: Andrew Stehn

MP-14 Port 2 (135-140)

A174009-02 (Water)

Date Sampled
10/02/2017 14:34

Pace Analytical - Madison

Volatile Organic Compounds by Method 8260 - Purge and Trap — **Preparation Batch: A710028**

Analyte	Result	Limit of Detection	Limit of Quantitation	Units	Dilution	Prepared	Analyzed	Method	Qualifiers
1,1,1,2-Tetrachloroethane	ND	1.1	5.0	ug/L	10	10/10/2017	10/10/2017 17:54	EPA 8260B	
1,1,1-Trichloroethane	ND	1.0	5.0	ug/L	10	10/10/2017	10/10/2017 17:54	EPA 8260B	
1,1,2,2-Tetrachloroethane	ND	0.99	5.0	ug/L	10	10/10/2017	10/10/2017 17:54	EPA 8260B	
1,1,2-Trichloroethane	ND	1.0	5.0	ug/L	10	10/10/2017	10/10/2017 17:54	EPA 8260B	
1,1,2-Trichlorotrifluoroethane	ND	1.3	5.0	ug/L	10	10/10/2017	10/10/2017 17:54	EPA 8260B	
1,1-Dichloroethane	ND	1.2	5.0	ug/L	10	10/10/2017	10/10/2017 17:54	EPA 8260B	
1,1-Dichloroethene	ND	1.4	5.0	ug/L	10	10/10/2017	10/10/2017 17:54	EPA 8260B	
1,1-Dichloropropene	ND	1.1	5.0	ug/L	10	10/10/2017	10/10/2017 17:54	EPA 8260B	
1,2,3-Trichlorobenzene	ND	0.45	20	ug/L	10	10/10/2017	10/10/2017 17:54	EPA 8260B	
1,2,3-Trichloropropane	ND	1.5	10	ug/L	10	10/10/2017	10/10/2017 17:54	EPA 8260B	
1,2,4-Trichlorobenzene	ND	0.77	20	ug/L	10	10/10/2017	10/10/2017 17:54	EPA 8260B	
1,2,4-Trimethylbenzene	ND	0.60	5.0	ug/L	10	10/10/2017	10/10/2017 17:54	EPA 8260B	
1,2-Dibromo-3-chloropropane	ND	2.5	5.0	ug/L	10	10/10/2017	10/10/2017 17:54	EPA 8260B	
1,2-Dibromoethane (EDB)	ND	1.3	5.0	ug/L	10	10/10/2017	10/10/2017 17:54	EPA 8260B	
1,2-Dichlorobenzene	ND	0.76	5.0	ug/L	10	10/10/2017	10/10/2017 17:54	EPA 8260B	
1,2-Dichloroethane	ND	0.78	5.0	ug/L	10	10/10/2017	10/10/2017 17:54	EPA 8260B	
1,2-Dichloropropane	ND	1.0	5.0	ug/L	10	10/10/2017	10/10/2017 17:54	EPA 8260B	
1,3,5-Trimethylbenzene	ND	0.75	5.0	ug/L	10	10/10/2017	10/10/2017 17:54	EPA 8260B	
1,3-Dichlorobenzene	ND	0.96	5.0	ug/L	10	10/10/2017	10/10/2017 17:54	EPA 8260B	
1,3-Dichloropropane	ND	1.1	5.0	ug/L	10	10/10/2017	10/10/2017 17:54	EPA 8260B	
1,4-Dichlorobenzene	ND	0.70	5.0	ug/L	10	10/10/2017	10/10/2017 17:54	EPA 8260B	
2,2-Dichloropropane	ND	1.4	5.0	ug/L	10	10/10/2017	10/10/2017 17:54	EPA 8260B	
2-Butanone	ND	30	200	ug/L	10	10/10/2017	10/10/2017 17:54	EPA 8260B	
2-Chlorotoluene	ND	0.75	5.0	ug/L	10	10/10/2017	10/10/2017 17:54	EPA 8260B	
2-Hexanone	ND	9.5	200	ug/L	10	10/10/2017	10/10/2017 17:54	EPA 8260B	
4-Chlorotoluene	ND	0.73	5.0	ug/L	10	10/10/2017	10/10/2017 17:54	EPA 8260B	
4-Methyl-2-pentanone	ND	7.7	200	ug/L	10	10/10/2017	10/10/2017 17:54	EPA 8260B	
Acetone	ND	34	200	ug/L	10	10/10/2017	10/10/2017 17:54	EPA 8260B	
Benzene	ND	0.89	5.0	ug/L	10	10/10/2017	10/10/2017 17:54	EPA 8260B	
Bromobenzene	ND	0.84	5.0	ug/L	10	10/10/2017	10/10/2017 17:54	EPA 8260B	
Bromochloromethane	ND	3.1	5.0	ug/L	10	10/10/2017	10/10/2017 17:54	EPA 8260B	
Bromodichloromethane	ND	0.77	5.0	ug/L	10	10/10/2017	10/10/2017 17:54	EPA 8260B	
Bromoform	ND	0.88	5.0	ug/L	10	10/10/2017	10/10/2017 17:54	EPA 8260B	
Bromomethane	ND	5.9	50	ug/L	10	10/10/2017	10/10/2017 17:54	EPA 8260B	
Carbon disulfide	ND	0.53	5.0	ug/L	10	10/10/2017	10/10/2017 17:54	EPA 8260B	
Carbon tetrachloride	ND	0.38	5.0	ug/L	10	10/10/2017	10/10/2017 17:54	EPA 8260B	
Chlorobenzene	ND	0.73	5.0	ug/L	10	10/10/2017	10/10/2017 17:54	EPA 8260B	
Chloroethane	ND	2.5	50	ug/L	10	10/10/2017	10/10/2017 17:54	EPA 8260B	
Chloroform	ND	0.62	5.0	ug/L	10	10/10/2017	10/10/2017 17:54	EPA 8260B	
Chloromethane	**3.4**	1.6	20	ug/L	10	10/10/2017	10/10/2017 17:54	EPA 8260B	HC, J, D

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MP-14 Port 2 (135-140)

A174009-02 (Water)

Date Sampled
10/02/2017 14:34

Pace Analytical - Madison

Volatile Organic Compounds by Method 8260 - Purge and Trap — **Preparation Batch: A710028**

Analyte	Result	Limit of Detection	Limit of Quantitation	Units	Dilution	Prepared	Analyzed	Method	Qualifiers
cis-1,2-Dichloroethene	**11**	1.1	5.0	ug/L	10	10/10/2017	10/10/2017 17:54	EPA 8260B	D
cis-1,3-Dichloropropene	ND	0.61	5.0	ug/L	10	10/10/2017	10/10/2017 17:54	EPA 8260B	
Dibromochloromethane	ND	0.91	5.0	ug/L	10	10/10/2017	10/10/2017 17:54	EPA 8260B	
Dibromomethane	ND	1.4	5.0	ug/L	10	10/10/2017	10/10/2017 17:54	EPA 8260B	
Dichlorodifluoromethane	ND	1.1	5.0	ug/L	10	10/10/2017	10/10/2017 17:54	EPA 8260B	
Diisopropyl Ether	ND	1.5	5.0	ug/L	10	10/10/2017	10/10/2017 17:54	EPA 8260B	
Ethylbenzene	ND	0.54	5.0	ug/L	10	10/10/2017	10/10/2017 17:54	EPA 8260B	
Hexachlorobutadiene	ND	1.3	20	ug/L	10	10/10/2017	10/10/2017 17:54	EPA 8260B	
Isopropylbenzene	ND	0.81	5.0	ug/L	10	10/10/2017	10/10/2017 17:54	EPA 8260B	
m,p-Xylene	ND	0.57	10	ug/L	10	10/10/2017	10/10/2017 17:54	EPA 8260B	
Methyl t-Butyl Ether	ND	1.4	5.0	ug/L	10	10/10/2017	10/10/2017 17:54	EPA 8260B	
Methylene chloride	ND	1.4	20	ug/L	10	10/10/2017	10/10/2017 17:54	EPA 8260B	
Naphthalene	ND	0.88	50	ug/L	10	10/10/2017	10/10/2017 17:54	EPA 8260B	
n-Butyl Benzene	ND	1.4	5.0	ug/L	10	10/10/2017	10/10/2017 17:54	EPA 8260B	
n-Hexane	ND	2.1	5.0	ug/L	10	10/10/2017	10/10/2017 17:54	EPA 8260B	
n-Propyl Benzene	ND	1.0	5.0	ug/L	10	10/10/2017	10/10/2017 17:54	EPA 8260B	
o-Xylene	ND	0.58	5.0	ug/L	10	10/10/2017	10/10/2017 17:54	EPA 8260B	
p-Isopropyltoluene	ND	0.85	5.0	ug/L	10	10/10/2017	10/10/2017 17:54	EPA 8260B	
sec-Butyl Benzene	ND	1.3	5.0	ug/L	10	10/10/2017	10/10/2017 17:54	EPA 8260B	
Styrene	ND	0.65	5.0	ug/L	10	10/10/2017	10/10/2017 17:54	EPA 8260B	
tert-Butylbenzene	ND	1.2	5.0	ug/L	10	10/10/2017	10/10/2017 17:54	EPA 8260B	
Tetrachloroethene	**250**	0.81	5.0	ug/L	10	10/10/2017	10/10/2017 17:54	EPA 8260B	D
Tetrahydrofuran	ND	12	100	ug/L	10	10/10/2017	10/10/2017 17:54	EPA 8260B	
Toluene	ND	0.53	5.0	ug/L	10	10/10/2017	10/10/2017 17:54	EPA 8260B	
trans-1,2-Dichloroethene	ND	1.1	5.0	ug/L	10	10/10/2017	10/10/2017 17:54	EPA 8260B	
trans-1,3-Dichloropropene	ND	0.96	5.0	ug/L	10	10/10/2017	10/10/2017 17:54	EPA 8260B	
Trichloroethene	**20**	0.62	5.0	ug/L	10	10/10/2017	10/10/2017 17:54	EPA 8260B	D
Trichlorofluoromethane	ND	1.3	5.0	ug/L	10	10/10/2017	10/10/2017 17:54	EPA 8260B	
Vinyl chloride	ND	1.6	5.0	ug/L	10	10/10/2017	10/10/2017 17:54	EPA 8260B	
Xylenes, total	ND	1.2	15	ug/L	10	10/10/2017	10/10/2017 17:54	EPA 8260B	
Surrogate: Dibromofluoromethane			*108 %*	*68.9-141*		*10/10/2017*	*10/10/2017 17:54*	*EPA 8260B*	
Surrogate: Toluene-d8			*96.2 %*	*73.3-114*		*10/10/2017*	*10/10/2017 17:54*	*EPA 8260B*	
Surrogate: 4-Bromofluorobenzene			*92.1 %*	*72.2-114*		*10/10/2017*	*10/10/2017 17:54*	*EPA 8260B*	

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708 Heartland Trail, Ste 3000	Project Number: 266431
Madison WI, 53717	Project Manager: Andrew Stehn

MP-14 Port 3 (100-105)

A174009-03 (Water)

Date Sampled
10/02/2017 14:55

Pace Analytical - Madison

Volatile Organic Compounds by Method 8260 - Purge and Trap — **Preparation Batch: A710028**

Analyte	Result	Limit of Detection	Limit of Quantitation	Units	Dilution	Prepared	Analyzed	Method	Qualifiers
1,1,1,2-Tetrachloroethane	ND	0.11	0.50	ug/L	1	10/09/2017	10/09/2017 17:58	EPA 8260B	
1,1,1-Trichloroethane	ND	0.10	0.50	ug/L	1	10/09/2017	10/09/2017 17:58	EPA 8260B	
1,1,2,2-Tetrachloroethane	ND	0.099	0.50	ug/L	1	10/09/2017	10/09/2017 17:58	EPA 8260B	
1,1,2-Trichloroethane	ND	0.10	0.50	ug/L	1	10/09/2017	10/09/2017 17:58	EPA 8260B	
1,1,2-Trichlorotrifluoroethane	ND	0.13	0.50	ug/L	1	10/09/2017	10/09/2017 17:58	EPA 8260B	
1,1-Dichloroethane	ND	0.12	0.50	ug/L	1	10/09/2017	10/09/2017 17:58	EPA 8260B	
1,1-Dichloroethene	ND	0.14	0.50	ug/L	1	10/09/2017	10/09/2017 17:58	EPA 8260B	
1,1-Dichloropropene	ND	0.11	0.50	ug/L	1	10/09/2017	10/09/2017 17:58	EPA 8260B	
1,2,3-Trichlorobenzene	ND	0.045	2.0	ug/L	1	10/09/2017	10/09/2017 17:58	EPA 8260B	
1,2,3-Trichloropropane	ND	0.15	1.0	ug/L	1	10/09/2017	10/09/2017 17:58	EPA 8260B	
1,2,4-Trichlorobenzene	ND	0.077	2.0	ug/L	1	10/09/2017	10/09/2017 17:58	EPA 8260B	
1,2,4-Trimethylbenzene	ND	0.060	0.50	ug/L	1	10/09/2017	10/09/2017 17:58	EPA 8260B	
1,2-Dibromo-3-chloropropane	ND	0.25	0.50	ug/L	1	10/09/2017	10/09/2017 17:58	EPA 8260B	
1,2-Dibromoethane (EDB)	ND	0.13	0.50	ug/L	1	10/09/2017	10/09/2017 17:58	EPA 8260B	
1,2-Dichlorobenzene	ND	0.076	0.50	ug/L	1	10/09/2017	10/09/2017 17:58	EPA 8260B	
1,2-Dichloroethane	ND	0.078	0.50	ug/L	1	10/09/2017	10/09/2017 17:58	EPA 8260B	
1,2-Dichloropropane	ND	0.10	0.50	ug/L	1	10/09/2017	10/09/2017 17:58	EPA 8260B	
1,3,5-Trimethylbenzene	ND	0.075	0.50	ug/L	1	10/09/2017	10/09/2017 17:58	EPA 8260B	
1,3-Dichlorobenzene	ND	0.096	0.50	ug/L	1	10/09/2017	10/09/2017 17:58	EPA 8260B	
1,3-Dichloropropane	ND	0.11	0.50	ug/L	1	10/09/2017	10/09/2017 17:58	EPA 8260B	
1,4-Dichlorobenzene	ND	0.070	0.50	ug/L	1	10/09/2017	10/09/2017 17:58	EPA 8260B	
2,2-Dichloropropane	ND	0.14	0.50	ug/L	1	10/09/2017	10/09/2017 17:58	EPA 8260B	
2-Butanone	ND	3.0	20	ug/L	1	10/09/2017	10/09/2017 17:58	EPA 8260B	
2-Chlorotoluene	ND	0.075	0.50	ug/L	1	10/09/2017	10/09/2017 17:58	EPA 8260B	
2-Hexanone	ND	0.95	20	ug/L	1	10/09/2017	10/09/2017 17:58	EPA 8260B	
4-Chlorotoluene	ND	0.073	0.50	ug/L	1	10/09/2017	10/09/2017 17:58	EPA 8260B	
4-Methyl-2-pentanone	ND	0.77	20	ug/L	1	10/09/2017	10/09/2017 17:58	EPA 8260B	
Acetone	**8.4**	3.4	20	ug/L	1	10/09/2017	10/09/2017 17:58	EPA 8260B	B, J
Benzene	ND	0.089	0.50	ug/L	1	10/09/2017	10/09/2017 17:58	EPA 8260B	
Bromobenzene	ND	0.084	0.50	ug/L	1	10/09/2017	10/09/2017 17:58	EPA 8260B	
Bromochloromethane	ND	0.31	0.50	ug/L	1	10/09/2017	10/09/2017 17:58	EPA 8260B	
Bromodichloromethane	ND	0.077	0.50	ug/L	1	10/09/2017	10/09/2017 17:58	EPA 8260B	
Bromoform	ND	0.088	0.50	ug/L	1	10/09/2017	10/09/2017 17:58	EPA 8260B	
Bromomethane	ND	0.59	5.0	ug/L	1	10/09/2017	10/09/2017 17:58	EPA 8260B	
Carbon disulfide	ND	0.053	0.50	ug/L	1	10/09/2017	10/09/2017 17:58	EPA 8260B	
Carbon tetrachloride	ND	0.038	0.50	ug/L	1	10/09/2017	10/09/2017 17:58	EPA 8260B	
Chlorobenzene	ND	0.073	0.50	ug/L	1	10/09/2017	10/09/2017 17:58	EPA 8260B	
Chloroethane	ND	0.25	5.0	ug/L	1	10/09/2017	10/09/2017 17:58	EPA 8260B	
Chloroform	ND	0.062	0.50	ug/L	1	10/09/2017	10/09/2017 17:58	EPA 8260B	
Chloromethane	**1.3**	0.16	2.0	ug/L	1	10/09/2017	10/09/2017 17:58	EPA 8260B	J

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TRC Environmental Corporation, Inc.	Project: Madison Kipp Corp. Semi-Annual Sampling
708 Heartland Trail, Ste 3000	Project Number: 266431
Madison WI, 53717	Project Manager: Andrew Stehn

MP-14 Port 3 (100-105)

A174009-03 (Water)

Date Sampled
10/02/2017 14:55

Pace Analytical - Madison

Volatile Organic Compounds by Method 8260 - Purge and Trap — **Preparation Batch: A710028**

Analyte	Result	Limit of Detection	Limit of Quantitation	Units	Dilution	Prepared	Analyzed	Method	Qualifiers
cis-1,2-Dichloroethene	ND	0.11	0.50	ug/L	1	10/09/2017	10/09/2017 17:58	EPA 8260B	
cis-1,3-Dichloropropene	ND	0.061	0.50	ug/L	1	10/09/2017	10/09/2017 17:58	EPA 8260B	
Dibromochloromethane	ND	0.091	0.50	ug/L	1	10/09/2017	10/09/2017 17:58	EPA 8260B	
Dibromomethane	ND	0.14	0.50	ug/L	1	10/09/2017	10/09/2017 17:58	EPA 8260B	
Dichlorodifluoromethane	ND	0.11	0.50	ug/L	1	10/09/2017	10/09/2017 17:58	EPA 8260B	
Diisopropyl Ether	ND	0.15	0.50	ug/L	1	10/09/2017	10/09/2017 17:58	EPA 8260B	
Ethylbenzene	ND	0.054	0.50	ug/L	1	10/09/2017	10/09/2017 17:58	EPA 8260B	
Hexachlorobutadiene	ND	0.13	2.0	ug/L	1	10/09/2017	10/09/2017 17:58	EPA 8260B	
Isopropylbenzene	ND	0.081	0.50	ug/L	1	10/09/2017	10/09/2017 17:58	EPA 8260B	
m,p-Xylene	ND	0.057	1.0	ug/L	1	10/09/2017	10/09/2017 17:58	EPA 8260B	
Methyl t-Butyl Ether	ND	0.14	0.50	ug/L	1	10/09/2017	10/09/2017 17:58	EPA 8260B	
Methylene chloride	ND	0.14	2.0	ug/L	1	10/09/2017	10/09/2017 17:58	EPA 8260B	
Naphthalene	ND	0.088	5.0	ug/L	1	10/09/2017	10/09/2017 17:58	EPA 8260B	
n-Butyl Benzene	ND	0.14	0.50	ug/L	1	10/09/2017	10/09/2017 17:58	EPA 8260B	
n-Hexane	ND	0.21	0.50	ug/L	1	10/09/2017	10/09/2017 17:58	EPA 8260B	
n-Propyl Benzene	ND	0.10	0.50	ug/L	1	10/09/2017	10/09/2017 17:58	EPA 8260B	
o-Xylene	ND	0.058	0.50	ug/L	1	10/09/2017	10/09/2017 17:58	EPA 8260B	
p-Isopropyltoluene	ND	0.085	0.50	ug/L	1	10/09/2017	10/09/2017 17:58	EPA 8260B	
sec-Butyl Benzene	ND	0.13	0.50	ug/L	1	10/09/2017	10/09/2017 17:58	EPA 8260B	
Styrene	**0.070**	0.065	0.50	ug/L	1	10/09/2017	10/09/2017 17:58	EPA 8260B	B, J
tert-Butylbenzene	ND	0.12	0.50	ug/L	1	10/09/2017	10/09/2017 17:58	EPA 8260B	
Tetrachloroethene	**0.45**	0.081	0.50	ug/L	1	10/09/2017	10/09/2017 17:58	EPA 8260B	J
Tetrahydrofuran	ND	1.2	10	ug/L	1	10/09/2017	10/09/2017 17:58	EPA 8260B	
Toluene	ND	0.053	0.50	ug/L	1	10/09/2017	10/09/2017 17:58	EPA 8260B	
trans-1,2-Dichloroethene	ND	0.11	0.50	ug/L	1	10/09/2017	10/09/2017 17:58	EPA 8260B	
trans-1,3-Dichloropropene	ND	0.096	0.50	ug/L	1	10/09/2017	10/09/2017 17:58	EPA 8260B	
Trichloroethene	ND	0.062	0.50	ug/L	1	10/09/2017	10/09/2017 17:58	EPA 8260B	
Trichlorofluoromethane	ND	0.13	0.50	ug/L	1	10/09/2017	10/09/2017 17:58	EPA 8260B	
Vinyl chloride	ND	0.16	0.50	ug/L	1	10/09/2017	10/09/2017 17:58	EPA 8260B	
Xylenes, total	ND	0.12	1.5	ug/L	1	10/09/2017	10/09/2017 17:58	EPA 8260B	
Surrogate: Dibromofluoromethane			*94.5 %*	*68.9-141*		*10/09/2017*	*10/09/2017 17:58*	*EPA 8260B*	
Surrogate: Toluene-d8			*95.0 %*	*73.3-114*		*10/09/2017*	*10/09/2017 17:58*	*EPA 8260B*	
Surrogate: 4-Bromofluorobenzene			*88.5 %*	*72.2-114*		*10/09/2017*	*10/09/2017 17:58*	*EPA 8260B*	

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708 Heartland Trail, Ste 3000	Project Number: 266431
Madison WI, 53717	Project Manager: Andrew Stehn

MP-16 Port 1 (175-179)

A174009-04 (Water)

Date Sampled
10/02/2017 15:39

Pace Analytical - Madison

Volatile Organic Compounds by Method 8260 - Purge and Trap — **Preparation Batch: A710036**

Analyte	Result	Limit of Detection	Limit of Quantitation	Units	Dilution	Prepared	Analyzed	Method	Qualifiers
1,1,1,2-Tetrachloroethane	ND	0.11	0.50	ug/L	1	10/12/2017	10/12/2017 15:32	EPA 8260B	
1,1,1-Trichloroethane	ND	0.10	0.50	ug/L	1	10/12/2017	10/12/2017 15:32	EPA 8260B	
1,1,2,2-Tetrachloroethane	ND	0.099	0.50	ug/L	1	10/12/2017	10/12/2017 15:32	EPA 8260B	
1,1,2-Trichloroethane	ND	0.10	0.50	ug/L	1	10/12/2017	10/12/2017 15:32	EPA 8260B	
1,1,2-Trichlorotrifluoroethane	ND	0.13	0.50	ug/L	1	10/12/2017	10/12/2017 15:32	EPA 8260B	
1,1-Dichloroethane	ND	0.12	0.50	ug/L	1	10/12/2017	10/12/2017 15:32	EPA 8260B	
1,1-Dichloroethene	ND	0.14	0.50	ug/L	1	10/12/2017	10/12/2017 15:32	EPA 8260B	
1,1-Dichloropropene	ND	0.11	0.50	ug/L	1	10/12/2017	10/12/2017 15:32	EPA 8260B	
1,2,3-Trichlorobenzene	ND	0.045	2.0	ug/L	1	10/12/2017	10/12/2017 15:32	EPA 8260B	
1,2,3-Trichloropropane	ND	0.15	1.0	ug/L	1	10/12/2017	10/12/2017 15:32	EPA 8260B	
1,2,4-Trichlorobenzene	ND	0.077	2.0	ug/L	1	10/12/2017	10/12/2017 15:32	EPA 8260B	
1,2,4-Trimethylbenzene	ND	0.060	0.50	ug/L	1	10/12/2017	10/12/2017 15:32	EPA 8260B	
1,2-Dibromo-3-chloropropane	ND	0.25	0.50	ug/L	1	10/12/2017	10/12/2017 15:32	EPA 8260B	
1,2-Dibromoethane (EDB)	ND	0.13	0.50	ug/L	1	10/12/2017	10/12/2017 15:32	EPA 8260B	
1,2-Dichlorobenzene	ND	0.076	0.50	ug/L	1	10/12/2017	10/12/2017 15:32	EPA 8260B	
1,2-Dichloroethane	ND	0.078	0.50	ug/L	1	10/12/2017	10/12/2017 15:32	EPA 8260B	
1,2-Dichloropropane	ND	0.10	0.50	ug/L	1	10/12/2017	10/12/2017 15:32	EPA 8260B	
1,3,5-Trimethylbenzene	ND	0.075	0.50	ug/L	1	10/12/2017	10/12/2017 15:32	EPA 8260B	
1,3-Dichlorobenzene	ND	0.096	0.50	ug/L	1	10/12/2017	10/12/2017 15:32	EPA 8260B	
1,3-Dichloropropane	ND	0.11	0.50	ug/L	1	10/12/2017	10/12/2017 15:32	EPA 8260B	
1,4-Dichlorobenzene	ND	0.070	0.50	ug/L	1	10/12/2017	10/12/2017 15:32	EPA 8260B	
2,2-Dichloropropane	ND	0.14	0.50	ug/L	1	10/12/2017	10/12/2017 15:32	EPA 8260B	
2-Butanone	ND	3.0	20	ug/L	1	10/12/2017	10/12/2017 15:32	EPA 8260B	
2-Chlorotoluene	ND	0.075	0.50	ug/L	1	10/12/2017	10/12/2017 15:32	EPA 8260B	
2-Hexanone	ND	0.95	20	ug/L	1	10/12/2017	10/12/2017 15:32	EPA 8260B	
4-Chlorotoluene	ND	0.073	0.50	ug/L	1	10/12/2017	10/12/2017 15:32	EPA 8260B	
4-Methyl-2-pentanone	ND	0.77	20	ug/L	1	10/12/2017	10/12/2017 15:32	EPA 8260B	
Acetone	ND	3.4	20	ug/L	1	10/12/2017	10/12/2017 15:32	EPA 8260B	
Benzene	ND	0.089	0.50	ug/L	1	10/12/2017	10/12/2017 15:32	EPA 8260B	
Bromobenzene	ND	0.084	0.50	ug/L	1	10/12/2017	10/12/2017 15:32	EPA 8260B	
Bromochloromethane	ND	0.31	0.50	ug/L	1	10/12/2017	10/12/2017 15:32	EPA 8260B	
Bromodichloromethane	ND	0.077	0.50	ug/L	1	10/12/2017	10/12/2017 15:32	EPA 8260B	
Bromoform	ND	0.088	0.50	ug/L	1	10/12/2017	10/12/2017 15:32	EPA 8260B	
Bromomethane	ND	0.59	5.0	ug/L	1	10/12/2017	10/12/2017 15:32	EPA 8260B	
Carbon disulfide	ND	0.053	0.50	ug/L	1	10/12/2017	10/12/2017 15:32	EPA 8260B	
Carbon tetrachloride	ND	0.038	0.50	ug/L	1	10/12/2017	10/12/2017 15:32	EPA 8260B	
Chlorobenzene	ND	0.073	0.50	ug/L	1	10/12/2017	10/12/2017 15:32	EPA 8260B	
Chloroethane	ND	0.25	5.0	ug/L	1	10/12/2017	10/12/2017 15:32	EPA 8260B	
Chloroform	ND	0.062	0.50	ug/L	1	10/12/2017	10/12/2017 15:32	EPA 8260B	
Chloromethane	**0.81**	0.16	2.0	ug/L	1	10/12/2017	10/12/2017 15:32	EPA 8260B	J

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708 Heartland Trail, Ste 3000	Project Number: 266431
Madison WI, 53717	Project Manager: Andrew Stehn

MP-16 Port 1 (175-179)

A174009-04 (Water)

Date Sampled
10/02/2017 15:39

Pace Analytical - Madison

Volatile Organic Compounds by Method 8260 - Purge and Trap — **Preparation Batch: A710036**

Analyte	Result	Limit of Detection	Limit of Quantitation	Units	Dilution	Prepared	Analyzed	Method	Qualifiers
cis-1,2-Dichloroethene	ND	0.11	0.50	ug/L	1	10/12/2017	10/12/2017 15:32	EPA 8260B	
cis-1,3-Dichloropropene	ND	0.061	0.50	ug/L	1	10/12/2017	10/12/2017 15:32	EPA 8260B	
Dibromochloromethane	ND	0.091	0.50	ug/L	1	10/12/2017	10/12/2017 15:32	EPA 8260B	
Dibromomethane	ND	0.14	0.50	ug/L	1	10/12/2017	10/12/2017 15:32	EPA 8260B	
Dichlorodifluoromethane	ND	0.11	0.50	ug/L	1	10/12/2017	10/12/2017 15:32	EPA 8260B	
Diisopropyl Ether	ND	0.15	0.50	ug/L	1	10/12/2017	10/12/2017 15:32	EPA 8260B	
Ethylbenzene	ND	0.054	0.50	ug/L	1	10/12/2017	10/12/2017 15:32	EPA 8260B	
Hexachlorobutadiene	ND	0.13	2.0	ug/L	1	10/12/2017	10/12/2017 15:32	EPA 8260B	
Isopropylbenzene	ND	0.081	0.50	ug/L	1	10/12/2017	10/12/2017 15:32	EPA 8260B	
m,p-Xylene	ND	0.057	1.0	ug/L	1	10/12/2017	10/12/2017 15:32	EPA 8260B	
Methyl t-Butyl Ether	ND	0.14	0.50	ug/L	1	10/12/2017	10/12/2017 15:32	EPA 8260B	
Methylene chloride	**0.16**	0.14	2.0	ug/L	1	10/12/2017	10/12/2017 15:32	EPA 8260B	B, J
Naphthalene	ND	0.088	5.0	ug/L	1	10/12/2017	10/12/2017 15:32	EPA 8260B	
n-Butyl Benzene	ND	0.14	0.50	ug/L	1	10/12/2017	10/12/2017 15:32	EPA 8260B	
n-Hexane	ND	0.21	0.50	ug/L	1	10/12/2017	10/12/2017 15:32	EPA 8260B	
n-Propyl Benzene	ND	0.10	0.50	ug/L	1	10/12/2017	10/12/2017 15:32	EPA 8260B	
o-Xylene	ND	0.058	0.50	ug/L	1	10/12/2017	10/12/2017 15:32	EPA 8260B	
p-Isopropyltoluene	ND	0.085	0.50	ug/L	1	10/12/2017	10/12/2017 15:32	EPA 8260B	
sec-Butyl Benzene	ND	0.13	0.50	ug/L	1	10/12/2017	10/12/2017 15:32	EPA 8260B	
Styrene	**0.070**	0.065	0.50	ug/L	1	10/12/2017	10/12/2017 15:32	EPA 8260B	B, J
tert-Butylbenzene	ND	0.12	0.50	ug/L	1	10/12/2017	10/12/2017 15:32	EPA 8260B	
Tetrachloroethene	**4.2**	0.081	0.50	ug/L	1	10/12/2017	10/12/2017 15:32	EPA 8260B	
Tetrahydrofuran	ND	1.2	10	ug/L	1	10/12/2017	10/12/2017 15:32	EPA 8260B	
Toluene	ND	0.053	0.50	ug/L	1	10/12/2017	10/12/2017 15:32	EPA 8260B	
trans-1,2-Dichloroethene	ND	0.11	0.50	ug/L	1	10/12/2017	10/12/2017 15:32	EPA 8260B	
trans-1,3-Dichloropropene	ND	0.096	0.50	ug/L	1	10/12/2017	10/12/2017 15:32	EPA 8260B	
Trichloroethene	**0.64**	0.062	0.50	ug/L	1	10/12/2017	10/12/2017 15:32	EPA 8260B	
Trichlorofluoromethane	ND	0.13	0.50	ug/L	1	10/12/2017	10/12/2017 15:32	EPA 8260B	
Vinyl chloride	ND	0.16	0.50	ug/L	1	10/12/2017	10/12/2017 15:32	EPA 8260B	
Xylenes, total	ND	0.12	1.5	ug/L	1	10/12/2017	10/12/2017 15:32	EPA 8260B	
Surrogate: Dibromofluoromethane			*98.4 %*	*68.9-141*		*10/12/2017*	*10/12/2017 15:32*	*EPA 8260B*	
Surrogate: Toluene-d8			*94.7 %*	*73.3-114*		*10/12/2017*	*10/12/2017 15:32*	*EPA 8260B*	
Surrogate: 4-Bromofluorobenzene			*95.3 %*	*72.2-114*		*10/12/2017*	*10/12/2017 15:32*	*EPA 8260B*	

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708 Heartland Trail, Ste 3000	Project Number: 266431
Madison WI, 53717	Project Manager: Andrew Stehn

MP-16 Port 2 (140-144)

A174009-05 (Water)

Date Sampled
10/02/2017 16:00

Pace Analytical - Madison

Volatile Organic Compounds by Method 8260 - Purge and Trap — **Preparation Batch: A710036**

Analyte	Result	Limit of Detection	Limit of Quantitation	Units	Dilution	Prepared	Analyzed	Method	Qualifiers
1,1,1,2-Tetrachloroethane	ND	0.11	0.50	ug/L	1	10/12/2017	10/12/2017 16:01	EPA 8260B	
1,1,1-Trichloroethane	ND	0.10	0.50	ug/L	1	10/12/2017	10/12/2017 16:01	EPA 8260B	
1,1,2,2-Tetrachloroethane	ND	0.099	0.50	ug/L	1	10/12/2017	10/12/2017 16:01	EPA 8260B	
1,1,2-Trichloroethane	ND	0.10	0.50	ug/L	1	10/12/2017	10/12/2017 16:01	EPA 8260B	
1,1,2-Trichlorotrifluoroethane	ND	0.13	0.50	ug/L	1	10/12/2017	10/12/2017 16:01	EPA 8260B	
1,1-Dichloroethane	ND	0.12	0.50	ug/L	1	10/12/2017	10/12/2017 16:01	EPA 8260B	
1,1-Dichloroethene	ND	0.14	0.50	ug/L	1	10/12/2017	10/12/2017 16:01	EPA 8260B	
1,1-Dichloropropene	ND	0.11	0.50	ug/L	1	10/12/2017	10/12/2017 16:01	EPA 8260B	
1,2,3-Trichlorobenzene	ND	0.045	2.0	ug/L	1	10/12/2017	10/12/2017 16:01	EPA 8260B	
1,2,3-Trichloropropane	ND	0.15	1.0	ug/L	1	10/12/2017	10/12/2017 16:01	EPA 8260B	
1,2,4-Trichlorobenzene	ND	0.077	2.0	ug/L	1	10/12/2017	10/12/2017 16:01	EPA 8260B	
1,2,4-Trimethylbenzene	ND	0.060	0.50	ug/L	1	10/12/2017	10/12/2017 16:01	EPA 8260B	
1,2-Dibromo-3-chloropropane	ND	0.25	0.50	ug/L	1	10/12/2017	10/12/2017 16:01	EPA 8260B	
1,2-Dibromoethane (EDB)	ND	0.13	0.50	ug/L	1	10/12/2017	10/12/2017 16:01	EPA 8260B	
1,2-Dichlorobenzene	ND	0.076	0.50	ug/L	1	10/12/2017	10/12/2017 16:01	EPA 8260B	
1,2-Dichloroethane	ND	0.078	0.50	ug/L	1	10/12/2017	10/12/2017 16:01	EPA 8260B	
1,2-Dichloropropane	ND	0.10	0.50	ug/L	1	10/12/2017	10/12/2017 16:01	EPA 8260B	
1,3,5-Trimethylbenzene	ND	0.075	0.50	ug/L	1	10/12/2017	10/12/2017 16:01	EPA 8260B	
1,3-Dichlorobenzene	ND	0.096	0.50	ug/L	1	10/12/2017	10/12/2017 16:01	EPA 8260B	
1,3-Dichloropropane	ND	0.11	0.50	ug/L	1	10/12/2017	10/12/2017 16:01	EPA 8260B	
1,4-Dichlorobenzene	ND	0.070	0.50	ug/L	1	10/12/2017	10/12/2017 16:01	EPA 8260B	
2,2-Dichloropropane	ND	0.14	0.50	ug/L	1	10/12/2017	10/12/2017 16:01	EPA 8260B	
2-Butanone	ND	3.0	20	ug/L	1	10/12/2017	10/12/2017 16:01	EPA 8260B	
2-Chlorotoluene	ND	0.075	0.50	ug/L	1	10/12/2017	10/12/2017 16:01	EPA 8260B	
2-Hexanone	ND	0.95	20	ug/L	1	10/12/2017	10/12/2017 16:01	EPA 8260B	
4-Chlorotoluene	ND	0.073	0.50	ug/L	1	10/12/2017	10/12/2017 16:01	EPA 8260B	
4-Methyl-2-pentanone	ND	0.77	20	ug/L	1	10/12/2017	10/12/2017 16:01	EPA 8260B	
Acetone	ND	3.4	20	ug/L	1	10/12/2017	10/12/2017 16:01	EPA 8260B	
Benzene	ND	0.089	0.50	ug/L	1	10/12/2017	10/12/2017 16:01	EPA 8260B	
Bromobenzene	ND	0.084	0.50	ug/L	1	10/12/2017	10/12/2017 16:01	EPA 8260B	
Bromochloromethane	ND	0.31	0.50	ug/L	1	10/12/2017	10/12/2017 16:01	EPA 8260B	
Bromodichloromethane	ND	0.077	0.50	ug/L	1	10/12/2017	10/12/2017 16:01	EPA 8260B	
Bromoform	ND	0.088	0.50	ug/L	1	10/12/2017	10/12/2017 16:01	EPA 8260B	
Bromomethane	ND	0.59	5.0	ug/L	1	10/12/2017	10/12/2017 16:01	EPA 8260B	
Carbon disulfide	ND	0.053	0.50	ug/L	1	10/12/2017	10/12/2017 16:01	EPA 8260B	
Carbon tetrachloride	ND	0.038	0.50	ug/L	1	10/12/2017	10/12/2017 16:01	EPA 8260B	
Chlorobenzene	ND	0.073	0.50	ug/L	1	10/12/2017	10/12/2017 16:01	EPA 8260B	
Chloroethane	ND	0.25	5.0	ug/L	1	10/12/2017	10/12/2017 16:01	EPA 8260B	
Chloroform	ND	0.062	0.50	ug/L	1	10/12/2017	10/12/2017 16:01	EPA 8260B	
Chloromethane	**0.40**	0.16	2.0	ug/L	1	10/12/2017	10/12/2017 16:01	EPA 8260B	J

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TRC Environmental Corporation, Inc.	Project: Madison Kipp Corp. Semi-Annual Sampling
708 Heartland Trail, Ste 3000	Project Number: 266431
Madison WI, 53717	Project Manager: Andrew Stehn

MP-16 Port 2 (140-144)

A174009-05 (Water)

Date Sampled
10/02/2017 16:00

Pace Analytical - Madison

Volatile Organic Compounds by Method 8260 - Purge and Trap — **Preparation Batch: A710036**

Analyte	Result	Limit of Detection	Limit of Quantitation	Units	Dilution	Prepared	Analyzed	Method	Qualifiers
cis-1,2-Dichloroethene	**1.8**	0.11	0.50	ug/L	1	10/12/2017	10/12/2017 16:01	EPA 8260B	
cis-1,3-Dichloropropene	ND	0.061	0.50	ug/L	1	10/12/2017	10/12/2017 16:01	EPA 8260B	
Dibromochloromethane	ND	0.091	0.50	ug/L	1	10/12/2017	10/12/2017 16:01	EPA 8260B	
Dibromomethane	ND	0.14	0.50	ug/L	1	10/12/2017	10/12/2017 16:01	EPA 8260B	
Dichlorodifluoromethane	ND	0.11	0.50	ug/L	1	10/12/2017	10/12/2017 16:01	EPA 8260B	
Diisopropyl Ether	ND	0.15	0.50	ug/L	1	10/12/2017	10/12/2017 16:01	EPA 8260B	
Ethylbenzene	ND	0.054	0.50	ug/L	1	10/12/2017	10/12/2017 16:01	EPA 8260B	
Hexachlorobutadiene	ND	0.13	2.0	ug/L	1	10/12/2017	10/12/2017 16:01	EPA 8260B	
Isopropylbenzene	ND	0.081	0.50	ug/L	1	10/12/2017	10/12/2017 16:01	EPA 8260B	
m,p-Xylene	ND	0.057	1.0	ug/L	1	10/12/2017	10/12/2017 16:01	EPA 8260B	
Methyl t-Butyl Ether	ND	0.14	0.50	ug/L	1	10/12/2017	10/12/2017 16:01	EPA 8260B	
Methylene chloride	ND	0.14	2.0	ug/L	1	10/12/2017	10/12/2017 16:01	EPA 8260B	
Naphthalene	ND	0.088	5.0	ug/L	1	10/12/2017	10/12/2017 16:01	EPA 8260B	
n-Butyl Benzene	ND	0.14	0.50	ug/L	1	10/12/2017	10/12/2017 16:01	EPA 8260B	
n-Hexane	ND	0.21	0.50	ug/L	1	10/12/2017	10/12/2017 16:01	EPA 8260B	
n-Propyl Benzene	ND	0.10	0.50	ug/L	1	10/12/2017	10/12/2017 16:01	EPA 8260B	
o-Xylene	ND	0.058	0.50	ug/L	1	10/12/2017	10/12/2017 16:01	EPA 8260B	
p-Isopropyltoluene	ND	0.085	0.50	ug/L	1	10/12/2017	10/12/2017 16:01	EPA 8260B	
sec-Butyl Benzene	ND	0.13	0.50	ug/L	1	10/12/2017	10/12/2017 16:01	EPA 8260B	
Styrene	ND	0.065	0.50	ug/L	1	10/12/2017	10/12/2017 16:01	EPA 8260B	
tert-Butylbenzene	ND	0.12	0.50	ug/L	1	10/12/2017	10/12/2017 16:01	EPA 8260B	
Tetrachloroethene	**30**	0.081	0.50	ug/L	1	10/12/2017	10/12/2017 16:01	EPA 8260B	M, X
Tetrahydrofuran	ND	1.2	10	ug/L	1	10/12/2017	10/12/2017 16:01	EPA 8260B	
Toluene	ND	0.053	0.50	ug/L	1	10/12/2017	10/12/2017 16:01	EPA 8260B	
trans-1,2-Dichloroethene	ND	0.11	0.50	ug/L	1	10/12/2017	10/12/2017 16:01	EPA 8260B	
trans-1,3-Dichloropropene	ND	0.096	0.50	ug/L	1	10/12/2017	10/12/2017 16:01	EPA 8260B	
Trichloroethene	**6.3**	0.062	0.50	ug/L	1	10/12/2017	10/12/2017 16:01	EPA 8260B	
Trichlorofluoromethane	ND	0.13	0.50	ug/L	1	10/12/2017	10/12/2017 16:01	EPA 8260B	
Vinyl chloride	ND	0.16	0.50	ug/L	1	10/12/2017	10/12/2017 16:01	EPA 8260B	
Xylenes, total	ND	0.12	1.5	ug/L	1	10/12/2017	10/12/2017 16:01	EPA 8260B	
Surrogate: Dibromofluoromethane			*98.9 %*	*68.9-141*		*10/12/2017*	*10/12/2017 16:01*	*EPA 8260B*	
Surrogate: Toluene-d8			*96.2 %*	*73.3-114*		*10/12/2017*	*10/12/2017 16:01*	*EPA 8260B*	
Surrogate: 4-Bromofluorobenzene			*95.5 %*	*72.2-114*		*10/12/2017*	*10/12/2017 16:01*	*EPA 8260B*	

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TRC Environmental Corporation, Inc.
708 Heartland Trail, Ste 3000
Madison WI, 53717

Project: Madison Kipp Corp. Semi-Annual Sampling
Project Number: 266431
Project Manager: Andrew Stehn

MP-16 Port 3 (106-116)

A174009-06 (Water)

Date Sampled
10/02/2017 16:20

Pace Analytical - Madison

Volatile Organic Compounds by Method 8260 - Purge and Trap — **Preparation Batch: A710045**

Analyte	Result	Limit of Detection	Limit of Quantitation	Units	Dilution	Prepared	Analyzed	Method	Qualifiers
1,1,1,2-Tetrachloroethane	ND	0.11	0.50	ug/L	1	10/10/2017	10/11/2017 16:02	EPA 8260B	
1,1,1-Trichloroethane	ND	0.10	0.50	ug/L	1	10/10/2017	10/11/2017 16:02	EPA 8260B	
1,1,2,2-Tetrachloroethane	ND	0.099	0.50	ug/L	1	10/10/2017	10/11/2017 16:02	EPA 8260B	
1,1,2-Trichloroethane	ND	0.10	0.50	ug/L	1	10/10/2017	10/11/2017 16:02	EPA 8260B	
1,1,2-Trichlorotrifluoroethane	ND	0.13	0.50	ug/L	1	10/10/2017	10/11/2017 16:02	EPA 8260B	
1,1-Dichloroethane	ND	0.12	0.50	ug/L	1	10/10/2017	10/11/2017 16:02	EPA 8260B	
1,1-Dichloroethene	ND	0.14	0.50	ug/L	1	10/10/2017	10/11/2017 16:02	EPA 8260B	
1,1-Dichloropropene	ND	0.11	0.50	ug/L	1	10/10/2017	10/11/2017 16:02	EPA 8260B	
1,2,3-Trichlorobenzene	ND	0.045	2.0	ug/L	1	10/10/2017	10/11/2017 16:02	EPA 8260B	
1,2,3-Trichloropropane	ND	0.15	1.0	ug/L	1	10/10/2017	10/11/2017 16:02	EPA 8260B	
1,2,4-Trichlorobenzene	ND	0.077	2.0	ug/L	1	10/10/2017	10/11/2017 16:02	EPA 8260B	
1,2,4-Trimethylbenzene	ND	0.060	0.50	ug/L	1	10/10/2017	10/11/2017 16:02	EPA 8260B	
1,2-Dibromo-3-chloropropane	ND	0.25	0.50	ug/L	1	10/10/2017	10/11/2017 16:02	EPA 8260B	
1,2-Dibromoethane (EDB)	ND	0.13	0.50	ug/L	1	10/10/2017	10/11/2017 16:02	EPA 8260B	
1,2-Dichlorobenzene	ND	0.076	0.50	ug/L	1	10/10/2017	10/11/2017 16:02	EPA 8260B	
1,2-Dichloroethane	ND	0.078	0.50	ug/L	1	10/10/2017	10/11/2017 16:02	EPA 8260B	
1,2-Dichloropropane	ND	0.10	0.50	ug/L	1	10/10/2017	10/11/2017 16:02	EPA 8260B	
1,3,5-Trimethylbenzene	ND	0.075	0.50	ug/L	1	10/10/2017	10/11/2017 16:02	EPA 8260B	
1,3-Dichlorobenzene	ND	0.096	0.50	ug/L	1	10/10/2017	10/11/2017 16:02	EPA 8260B	
1,3-Dichloropropane	ND	0.11	0.50	ug/L	1	10/10/2017	10/11/2017 16:02	EPA 8260B	
1,4-Dichlorobenzene	ND	0.070	0.50	ug/L	1	10/10/2017	10/11/2017 16:02	EPA 8260B	
2,2-Dichloropropane	ND	0.14	0.50	ug/L	1	10/10/2017	10/11/2017 16:02	EPA 8260B	
2-Butanone	ND	3.0	20	ug/L	1	10/10/2017	10/11/2017 16:02	EPA 8260B	
2-Chlorotoluene	ND	0.075	0.50	ug/L	1	10/10/2017	10/11/2017 16:02	EPA 8260B	
2-Hexanone	ND	0.95	20	ug/L	1	10/10/2017	10/11/2017 16:02	EPA 8260B	
4-Chlorotoluene	ND	0.073	0.50	ug/L	1	10/10/2017	10/11/2017 16:02	EPA 8260B	
4-Methyl-2-pentanone	ND	0.77	20	ug/L	1	10/10/2017	10/11/2017 16:02	EPA 8260B	
Acetone	**6.2**	3.4	20	ug/L	1	10/10/2017	10/11/2017 16:02	EPA 8260B	J
Benzene	ND	0.089	0.50	ug/L	1	10/10/2017	10/11/2017 16:02	EPA 8260B	
Bromobenzene	ND	0.084	0.50	ug/L	1	10/10/2017	10/11/2017 16:02	EPA 8260B	
Bromochloromethane	ND	0.31	0.50	ug/L	1	10/10/2017	10/11/2017 16:02	EPA 8260B	
Bromodichloromethane	ND	0.077	0.50	ug/L	1	10/10/2017	10/11/2017 16:02	EPA 8260B	
Bromoform	ND	0.088	0.50	ug/L	1	10/10/2017	10/11/2017 16:02	EPA 8260B	
Bromomethane	ND	0.59	5.0	ug/L	1	10/10/2017	10/11/2017 16:02	EPA 8260B	
Carbon disulfide	ND	0.053	0.50	ug/L	1	10/10/2017	10/11/2017 16:02	EPA 8260B	
Carbon tetrachloride	ND	0.038	0.50	ug/L	1	10/10/2017	10/11/2017 16:02	EPA 8260B	
Chlorobenzene	ND	0.073	0.50	ug/L	1	10/10/2017	10/11/2017 16:02	EPA 8260B	
Chloroethane	ND	0.25	5.0	ug/L	1	10/10/2017	10/11/2017 16:02	EPA 8260B	
Chloroform	ND	0.062	0.50	ug/L	1	10/10/2017	10/11/2017 16:02	EPA 8260B	
Chloromethane	**1.6**	0.16	2.0	ug/L	1	10/10/2017	10/11/2017 16:02	EPA 8260B	J

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TRC Environmental Corporation, Inc.
708 Heartland Trail, Ste 3000
Madison WI, 53717

Project: Madison Kipp Corp. Semi-Annual Sampling
Project Number: 266431
Project Manager: Andrew Stehn

MP-16 Port 3 (106-116)

A174009-06 (Water)

Date Sampled
10/02/2017 16:20

Pace Analytical - Madison

Volatile Organic Compounds by Method 8260 - Purge and Trap — **Preparation Batch: A710045**

Analyte	Result	Limit of Detection	Limit of Quantitation	Units	Dilution	Prepared	Analyzed	Method	Qualifiers
cis-1,2-Dichloroethene	**4.5**	0.11	0.50	ug/L	1	10/10/2017	10/11/2017 16:02	EPA 8260B	
cis-1,3-Dichloropropene	ND	0.061	0.50	ug/L	1	10/10/2017	10/11/2017 16:02	EPA 8260B	
Dibromochloromethane	ND	0.091	0.50	ug/L	1	10/10/2017	10/11/2017 16:02	EPA 8260B	
Dibromomethane	ND	0.14	0.50	ug/L	1	10/10/2017	10/11/2017 16:02	EPA 8260B	
Dichlorodifluoromethane	ND	0.11	0.50	ug/L	1	10/10/2017	10/11/2017 16:02	EPA 8260B	
Diisopropyl Ether	ND	0.15	0.50	ug/L	1	10/10/2017	10/11/2017 16:02	EPA 8260B	
Ethylbenzene	ND	0.054	0.50	ug/L	1	10/10/2017	10/11/2017 16:02	EPA 8260B	
Hexachlorobutadiene	ND	0.13	2.0	ug/L	1	10/10/2017	10/11/2017 16:02	EPA 8260B	
Isopropylbenzene	ND	0.081	0.50	ug/L	1	10/10/2017	10/11/2017 16:02	EPA 8260B	
m,p-Xylene	**0.060**	0.057	1.0	ug/L	1	10/10/2017	10/11/2017 16:02	EPA 8260B	B, J
Methyl t-Butyl Ether	ND	0.14	0.50	ug/L	1	10/10/2017	10/11/2017 16:02	EPA 8260B	
Methylene chloride	ND	0.14	2.0	ug/L	1	10/10/2017	10/11/2017 16:02	EPA 8260B	
Naphthalene	ND	0.088	5.0	ug/L	1	10/10/2017	10/11/2017 16:02	EPA 8260B	
n-Butyl Benzene	ND	0.14	0.50	ug/L	1	10/10/2017	10/11/2017 16:02	EPA 8260B	
n-Hexane	ND	0.21	0.50	ug/L	1	10/10/2017	10/11/2017 16:02	EPA 8260B	
n-Propyl Benzene	ND	0.10	0.50	ug/L	1	10/10/2017	10/11/2017 16:02	EPA 8260B	
o-Xylene	ND	0.058	0.50	ug/L	1	10/10/2017	10/11/2017 16:02	EPA 8260B	
p-Isopropyltoluene	ND	0.085	0.50	ug/L	1	10/10/2017	10/11/2017 16:02	EPA 8260B	
sec-Butyl Benzene	ND	0.13	0.50	ug/L	1	10/10/2017	10/11/2017 16:02	EPA 8260B	
Styrene	ND	0.065	0.50	ug/L	1	10/10/2017	10/11/2017 16:02	EPA 8260B	
tert-Butylbenzene	ND	0.12	0.50	ug/L	1	10/10/2017	10/11/2017 16:02	EPA 8260B	
Tetrachloroethene	**45**	0.16	1.0	ug/L	2	10/10/2017	10/10/2017 16:01	EPA 8260B	D
Tetrahydrofuran	ND	1.2	10	ug/L	1	10/10/2017	10/11/2017 16:02	EPA 8260B	
Toluene	ND	0.053	0.50	ug/L	1	10/10/2017	10/11/2017 16:02	EPA 8260B	
trans-1,2-Dichloroethene	ND	0.11	0.50	ug/L	1	10/10/2017	10/11/2017 16:02	EPA 8260B	
trans-1,3-Dichloropropene	ND	0.096	0.50	ug/L	1	10/10/2017	10/11/2017 16:02	EPA 8260B	
Trichloroethene	**7.1**	0.062	0.50	ug/L	1	10/10/2017	10/11/2017 16:02	EPA 8260B	
Trichlorofluoromethane	ND	0.13	0.50	ug/L	1	10/10/2017	10/11/2017 16:02	EPA 8260B	
Vinyl chloride	ND	0.16	0.50	ug/L	1	10/10/2017	10/11/2017 16:02	EPA 8260B	
Xylenes, total	ND	0.12	1.5	ug/L	1	10/10/2017	10/11/2017 16:02	EPA 8260B	
Surrogate: Dibromofluoromethane			*95.1 %*	*68.9-141*		*10/10/2017*	*10/11/2017 16:02*	*EPA 8260B*	
Surrogate: Toluene-d8			*90.2 %*	*73.3-114*		*10/10/2017*	*10/11/2017 16:02*	*EPA 8260B*	
Surrogate: 4-Bromofluorobenzene			*88.0 %*	*72.2-114*		*10/10/2017*	*10/11/2017 16:02*	*EPA 8260B*	

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708 Heartland Trail, Ste 3000	Project Number: 266431
Madison WI, 53717	Project Manager: Andrew Stehn

MP-15 Port 1 (177-187)

A174009-07 (Water)

Date Sampled
10/03/2017 07:55

Pace Analytical - Madison

Volatile Organic Compounds by Method 8260 - Purge and Trap — **Preparation Batch: A710028**

Analyte	Result	Limit of Detection	Limit of Quantitation	Units	Dilution	Prepared	Analyzed	Method	Qualifiers
1,1,1,2-Tetrachloroethane	ND	0.11	0.50	ug/L	1	10/10/2017	10/10/2017 11:17	EPA 8260B	
1,1,1-Trichloroethane	ND	0.10	0.50	ug/L	1	10/10/2017	10/10/2017 11:17	EPA 8260B	
1,1,2,2-Tetrachloroethane	ND	0.099	0.50	ug/L	1	10/10/2017	10/10/2017 11:17	EPA 8260B	
1,1,2-Trichloroethane	ND	0.10	0.50	ug/L	1	10/10/2017	10/10/2017 11:17	EPA 8260B	
1,1,2-Trichlorotrifluoroethane	ND	0.13	0.50	ug/L	1	10/10/2017	10/10/2017 11:17	EPA 8260B	
1,1-Dichloroethane	ND	0.12	0.50	ug/L	1	10/10/2017	10/10/2017 11:17	EPA 8260B	
1,1-Dichloroethene	ND	0.14	0.50	ug/L	1	10/10/2017	10/10/2017 11:17	EPA 8260B	
1,1-Dichloropropene	ND	0.11	0.50	ug/L	1	10/10/2017	10/10/2017 11:17	EPA 8260B	
1,2,3-Trichlorobenzene	ND	0.045	2.0	ug/L	1	10/10/2017	10/10/2017 11:17	EPA 8260B	
1,2,3-Trichloropropane	ND	0.15	1.0	ug/L	1	10/10/2017	10/10/2017 11:17	EPA 8260B	
1,2,4-Trichlorobenzene	ND	0.077	2.0	ug/L	1	10/10/2017	10/10/2017 11:17	EPA 8260B	
1,2,4-Trimethylbenzene	ND	0.060	0.50	ug/L	1	10/10/2017	10/10/2017 11:17	EPA 8260B	
1,2-Dibromo-3-chloropropane	ND	0.25	0.50	ug/L	1	10/10/2017	10/10/2017 11:17	EPA 8260B	
1,2-Dibromoethane (EDB)	ND	0.13	0.50	ug/L	1	10/10/2017	10/10/2017 11:17	EPA 8260B	
1,2-Dichlorobenzene	ND	0.076	0.50	ug/L	1	10/10/2017	10/10/2017 11:17	EPA 8260B	
1,2-Dichloroethane	ND	0.078	0.50	ug/L	1	10/10/2017	10/10/2017 11:17	EPA 8260B	
1,2-Dichloropropane	ND	0.10	0.50	ug/L	1	10/10/2017	10/10/2017 11:17	EPA 8260B	
1,3,5-Trimethylbenzene	ND	0.075	0.50	ug/L	1	10/10/2017	10/10/2017 11:17	EPA 8260B	
1,3-Dichlorobenzene	ND	0.096	0.50	ug/L	1	10/10/2017	10/10/2017 11:17	EPA 8260B	
1,3-Dichloropropane	ND	0.11	0.50	ug/L	1	10/10/2017	10/10/2017 11:17	EPA 8260B	
1,4-Dichlorobenzene	ND	0.070	0.50	ug/L	1	10/10/2017	10/10/2017 11:17	EPA 8260B	
2,2-Dichloropropane	ND	0.14	0.50	ug/L	1	10/10/2017	10/10/2017 11:17	EPA 8260B	
2-Butanone	ND	3.0	20	ug/L	1	10/10/2017	10/10/2017 11:17	EPA 8260B	
2-Chlorotoluene	ND	0.075	0.50	ug/L	1	10/10/2017	10/10/2017 11:17	EPA 8260B	
2-Hexanone	ND	0.95	20	ug/L	1	10/10/2017	10/10/2017 11:17	EPA 8260B	
4-Chlorotoluene	ND	0.073	0.50	ug/L	1	10/10/2017	10/10/2017 11:17	EPA 8260B	
4-Methyl-2-pentanone	ND	0.77	20	ug/L	1	10/10/2017	10/10/2017 11:17	EPA 8260B	
Acetone	ND	3.4	20	ug/L	1	10/10/2017	10/10/2017 11:17	EPA 8260B	
Benzene	ND	0.089	0.50	ug/L	1	10/10/2017	10/10/2017 11:17	EPA 8260B	
Bromobenzene	ND	0.084	0.50	ug/L	1	10/10/2017	10/10/2017 11:17	EPA 8260B	
Bromochloromethane	ND	0.31	0.50	ug/L	1	10/10/2017	10/10/2017 11:17	EPA 8260B	
Bromodichloromethane	ND	0.077	0.50	ug/L	1	10/10/2017	10/10/2017 11:17	EPA 8260B	
Bromoform	ND	0.088	0.50	ug/L	1	10/10/2017	10/10/2017 11:17	EPA 8260B	
Bromomethane	ND	0.59	5.0	ug/L	1	10/10/2017	10/10/2017 11:17	EPA 8260B	
Carbon disulfide	ND	0.053	0.50	ug/L	1	10/10/2017	10/10/2017 11:17	EPA 8260B	
Carbon tetrachloride	ND	0.038	0.50	ug/L	1	10/10/2017	10/10/2017 11:17	EPA 8260B	
Chlorobenzene	ND	0.073	0.50	ug/L	1	10/10/2017	10/10/2017 11:17	EPA 8260B	
Chloroethane	ND	0.25	5.0	ug/L	1	10/10/2017	10/10/2017 11:17	EPA 8260B	
Chloroform	ND	0.062	0.50	ug/L	1	10/10/2017	10/10/2017 11:17	EPA 8260B	
Chloromethane	**0.37**	0.16	2.0	ug/L	1	10/10/2017	10/10/2017 11:17	EPA 8260B	HC, J

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708 Heartland Trail, Ste 3000	Project Number: 266431
Madison WI, 53717	Project Manager: Andrew Stehn

MP-15 Port 1 (177-187)

A174009-07 (Water)

Date Sampled
10/03/2017 07:55

Pace Analytical - Madison

Volatile Organic Compounds by Method 8260 - Purge and Trap — **Preparation Batch: A710028**

Analyte	Result	Limit of Detection	Limit of Quantitation	Units	Dilution	Prepared	Analyzed	Method	Qualifiers
cis-1,2-Dichloroethene	**0.48**	0.11	0.50	ug/L	1	10/10/2017	10/10/2017 11:17	EPA 8260B	J
cis-1,3-Dichloropropene	ND	0.061	0.50	ug/L	1	10/10/2017	10/10/2017 11:17	EPA 8260B	
Dibromochloromethane	ND	0.091	0.50	ug/L	1	10/10/2017	10/10/2017 11:17	EPA 8260B	
Dibromomethane	ND	0.14	0.50	ug/L	1	10/10/2017	10/10/2017 11:17	EPA 8260B	
Dichlorodifluoromethane	ND	0.11	0.50	ug/L	1	10/10/2017	10/10/2017 11:17	EPA 8260B	
Diisopropyl Ether	ND	0.15	0.50	ug/L	1	10/10/2017	10/10/2017 11:17	EPA 8260B	
Ethylbenzene	ND	0.054	0.50	ug/L	1	10/10/2017	10/10/2017 11:17	EPA 8260B	
Hexachlorobutadiene	ND	0.13	2.0	ug/L	1	10/10/2017	10/10/2017 11:17	EPA 8260B	
Isopropylbenzene	ND	0.081	0.50	ug/L	1	10/10/2017	10/10/2017 11:17	EPA 8260B	
m,p-Xylene	ND	0.057	1.0	ug/L	1	10/10/2017	10/10/2017 11:17	EPA 8260B	
Methyl t-Butyl Ether	ND	0.14	0.50	ug/L	1	10/10/2017	10/10/2017 11:17	EPA 8260B	
Methylene chloride	ND	0.14	2.0	ug/L	1	10/10/2017	10/10/2017 11:17	EPA 8260B	
Naphthalene	ND	0.088	5.0	ug/L	1	10/10/2017	10/10/2017 11:17	EPA 8260B	
n-Butyl Benzene	ND	0.14	0.50	ug/L	1	10/10/2017	10/10/2017 11:17	EPA 8260B	
n-Hexane	ND	0.21	0.50	ug/L	1	10/10/2017	10/10/2017 11:17	EPA 8260B	
n-Propyl Benzene	ND	0.10	0.50	ug/L	1	10/10/2017	10/10/2017 11:17	EPA 8260B	
o-Xylene	ND	0.058	0.50	ug/L	1	10/10/2017	10/10/2017 11:17	EPA 8260B	
p-Isopropyltoluene	ND	0.085	0.50	ug/L	1	10/10/2017	10/10/2017 11:17	EPA 8260B	
sec-Butyl Benzene	ND	0.13	0.50	ug/L	1	10/10/2017	10/10/2017 11:17	EPA 8260B	
Styrene	**0.070**	0.065	0.50	ug/L	1	10/10/2017	10/10/2017 11:17	EPA 8260B	B, J
tert-Butylbenzene	ND	0.12	0.50	ug/L	1	10/10/2017	10/10/2017 11:17	EPA 8260B	
Tetrachloroethene	**8.9**	0.081	0.50	ug/L	1	10/10/2017	10/10/2017 11:17	EPA 8260B	
Tetrahydrofuran	ND	1.2	10	ug/L	1	10/10/2017	10/10/2017 11:17	EPA 8260B	
Toluene	ND	0.053	0.50	ug/L	1	10/10/2017	10/10/2017 11:17	EPA 8260B	
trans-1,2-Dichloroethene	ND	0.11	0.50	ug/L	1	10/10/2017	10/10/2017 11:17	EPA 8260B	
trans-1,3-Dichloropropene	ND	0.096	0.50	ug/L	1	10/10/2017	10/10/2017 11:17	EPA 8260B	
Trichloroethene	**0.95**	0.062	0.50	ug/L	1	10/10/2017	10/10/2017 11:17	EPA 8260B	
Trichlorofluoromethane	ND	0.13	0.50	ug/L	1	10/10/2017	10/10/2017 11:17	EPA 8260B	
Vinyl chloride	ND	0.16	0.50	ug/L	1	10/10/2017	10/10/2017 11:17	EPA 8260B	
Xylenes, total	ND	0.12	1.5	ug/L	1	10/10/2017	10/10/2017 11:17	EPA 8260B	
Surrogate: Dibromofluoromethane			*95.9 %*	*68.9-141*		*10/10/2017*	*10/10/2017 11:17*	*EPA 8260B*	
Surrogate: Toluene-d8			*92.5 %*	*73.3-114*		*10/10/2017*	*10/10/2017 11:17*	*EPA 8260B*	
Surrogate: 4-Bromofluorobenzene			*88.2 %*	*72.2-114*		*10/10/2017*	*10/10/2017 11:17*	*EPA 8260B*	

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708 Heartland Trail, Ste 3000	Project Number: 266431
Madison WI, 53717	Project Manager: Andrew Stehn

MP-15 Port 2 (142-146)

A174009-08 (Water)

Date Sampled
10/03/2017 08:35

Pace Analytical - Madison

Volatile Organic Compounds by Method 8260 - Purge and Trap — **Preparation Batch: A710045**

Analyte	Result	Limit of Detection	Limit of Quantitation	Units	Dilution	Prepared	Analyzed	Method	Qualifiers
1,1,1,2-Tetrachloroethane	ND	5.5	25	ug/L	50	10/10/2017	10/11/2017 00:29	EPA 8260B	
1,1,1-Trichloroethane	ND	5.0	25	ug/L	50	10/10/2017	10/11/2017 00:29	EPA 8260B	
1,1,2,2-Tetrachloroethane	ND	5.0	25	ug/L	50	10/10/2017	10/11/2017 00:29	EPA 8260B	
1,1,2-Trichloroethane	ND	5.0	25	ug/L	50	10/10/2017	10/11/2017 00:29	EPA 8260B	
1,1,2-Trichlorotrifluoroethane	ND	6.5	25	ug/L	50	10/10/2017	10/11/2017 00:29	EPA 8260B	
1,1-Dichloroethane	ND	6.0	25	ug/L	50	10/10/2017	10/11/2017 00:29	EPA 8260B	
1,1-Dichloroethene	ND	7.0	25	ug/L	50	10/10/2017	10/11/2017 00:29	EPA 8260B	
1,1-Dichloropropene	ND	5.5	25	ug/L	50	10/10/2017	10/11/2017 00:29	EPA 8260B	
1,2,3-Trichlorobenzene	ND	2.3	100	ug/L	50	10/10/2017	10/11/2017 00:29	EPA 8260B	
1,2,3-Trichloropropane	ND	7.5	50	ug/L	50	10/10/2017	10/11/2017 00:29	EPA 8260B	
1,2,4-Trichlorobenzene	ND	3.9	100	ug/L	50	10/10/2017	10/11/2017 00:29	EPA 8260B	
1,2,4-Trimethylbenzene	ND	3.0	25	ug/L	50	10/10/2017	10/11/2017 00:29	EPA 8260B	
1,2-Dibromo-3-chloropropane	ND	13	25	ug/L	50	10/10/2017	10/11/2017 00:29	EPA 8260B	
1,2-Dibromoethane (EDB)	ND	6.5	25	ug/L	50	10/10/2017	10/11/2017 00:29	EPA 8260B	
1,2-Dichlorobenzene	ND	3.8	25	ug/L	50	10/10/2017	10/11/2017 00:29	EPA 8260B	
1,2-Dichloroethane	ND	3.9	25	ug/L	50	10/10/2017	10/11/2017 00:29	EPA 8260B	
1,2-Dichloropropane	ND	5.0	25	ug/L	50	10/10/2017	10/11/2017 00:29	EPA 8260B	
1,3,5-Trimethylbenzene	ND	3.8	25	ug/L	50	10/10/2017	10/11/2017 00:29	EPA 8260B	
1,3-Dichlorobenzene	ND	4.8	25	ug/L	50	10/10/2017	10/11/2017 00:29	EPA 8260B	
1,3-Dichloropropane	ND	5.5	25	ug/L	50	10/10/2017	10/11/2017 00:29	EPA 8260B	
1,4-Dichlorobenzene	ND	3.5	25	ug/L	50	10/10/2017	10/11/2017 00:29	EPA 8260B	
2,2-Dichloropropane	ND	7.0	25	ug/L	50	10/10/2017	10/11/2017 00:29	EPA 8260B	
2-Butanone	ND	150	1000	ug/L	50	10/10/2017	10/11/2017 00:29	EPA 8260B	
2-Chlorotoluene	ND	3.8	25	ug/L	50	10/10/2017	10/11/2017 00:29	EPA 8260B	
2-Hexanone	ND	48	1000	ug/L	50	10/10/2017	10/11/2017 00:29	EPA 8260B	
4-Chlorotoluene	ND	3.7	25	ug/L	50	10/10/2017	10/11/2017 00:29	EPA 8260B	
4-Methyl-2-pentanone	ND	39	1000	ug/L	50	10/10/2017	10/11/2017 00:29	EPA 8260B	
Acetone	**230**	170	1000	ug/L	50	10/10/2017	10/11/2017 00:29	EPA 8260B	J, D
Benzene	ND	4.5	25	ug/L	50	10/10/2017	10/11/2017 00:29	EPA 8260B	
Bromobenzene	ND	4.2	25	ug/L	50	10/10/2017	10/11/2017 00:29	EPA 8260B	
Bromochloromethane	ND	16	25	ug/L	50	10/10/2017	10/11/2017 00:29	EPA 8260B	
Bromodichloromethane	ND	3.9	25	ug/L	50	10/10/2017	10/11/2017 00:29	EPA 8260B	
Bromoform	ND	4.4	25	ug/L	50	10/10/2017	10/11/2017 00:29	EPA 8260B	
Bromomethane	ND	30	250	ug/L	50	10/10/2017	10/11/2017 00:29	EPA 8260B	
Carbon disulfide	ND	2.7	25	ug/L	50	10/10/2017	10/11/2017 00:29	EPA 8260B	
Carbon tetrachloride	ND	1.9	25	ug/L	50	10/10/2017	10/11/2017 00:29	EPA 8260B	
Chlorobenzene	ND	3.7	25	ug/L	50	10/10/2017	10/11/2017 00:29	EPA 8260B	
Chloroethane	ND	13	250	ug/L	50	10/10/2017	10/11/2017 00:29	EPA 8260B	
Chloroform	ND	3.1	25	ug/L	50	10/10/2017	10/11/2017 00:29	EPA 8260B	
Chloromethane	**9.5**	8.0	100	ug/L	50	10/10/2017	10/11/2017 00:29	EPA 8260B	HC, J, D

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Madison WI, 53717

Project: Madison Kipp Corp. Semi-Annual Sampling
Project Number: 266431
Project Manager: Andrew Stehn

MP-15 Port 2 (142-146)

A174009-08 (Water)

Date Sampled
10/03/2017 08:35

Pace Analytical - Madison

Volatile Organic Compounds by Method 8260 - Purge and Trap — **Preparation Batch: A710045**

Analyte	Result	Limit of Detection	Limit of Quantitation	Units	Dilution	Prepared	Analyzed	Method	Qualifiers
cis-1,2-Dichloroethene	**180**	5.5	25	ug/L	50	10/10/2017	10/11/2017 00:29	EPA 8260B	D
cis-1,3-Dichloropropene	ND	3.1	25	ug/L	50	10/10/2017	10/11/2017 00:29	EPA 8260B	
Dibromochloromethane	ND	4.6	25	ug/L	50	10/10/2017	10/11/2017 00:29	EPA 8260B	
Dibromomethane	ND	7.0	25	ug/L	50	10/10/2017	10/11/2017 00:29	EPA 8260B	
Dichlorodifluoromethane	ND	5.5	25	ug/L	50	10/10/2017	10/11/2017 00:29	EPA 8260B	
Diisopropyl Ether	ND	7.5	25	ug/L	50	10/10/2017	10/11/2017 00:29	EPA 8260B	
Ethylbenzene	ND	2.7	25	ug/L	50	10/10/2017	10/11/2017 00:29	EPA 8260B	
Hexachlorobutadiene	ND	6.5	100	ug/L	50	10/10/2017	10/11/2017 00:29	EPA 8260B	
Isopropylbenzene	ND	4.1	25	ug/L	50	10/10/2017	10/11/2017 00:29	EPA 8260B	
m,p-Xylene	**3.0**	2.9	50	ug/L	50	10/10/2017	10/11/2017 00:29	EPA 8260B	B, J, D
Methyl t-Butyl Ether	ND	7.0	25	ug/L	50	10/10/2017	10/11/2017 00:29	EPA 8260B	
Methylene chloride	ND	7.0	100	ug/L	50	10/10/2017	10/11/2017 00:29	EPA 8260B	
Naphthalene	ND	4.4	250	ug/L	50	10/10/2017	10/11/2017 00:29	EPA 8260B	
n-Butyl Benzene	ND	7.0	25	ug/L	50	10/10/2017	10/11/2017 00:29	EPA 8260B	
n-Hexane	ND	11	25	ug/L	50	10/10/2017	10/11/2017 00:29	EPA 8260B	
n-Propyl Benzene	ND	5.0	25	ug/L	50	10/10/2017	10/11/2017 00:29	EPA 8260B	
o-Xylene	ND	2.9	25	ug/L	50	10/10/2017	10/11/2017 00:29	EPA 8260B	
p-Isopropyltoluene	ND	4.3	25	ug/L	50	10/10/2017	10/11/2017 00:29	EPA 8260B	
sec-Butyl Benzene	ND	6.5	25	ug/L	50	10/10/2017	10/11/2017 00:29	EPA 8260B	
Styrene	**3.5**	3.3	25	ug/L	50	10/10/2017	10/11/2017 00:29	EPA 8260B	B, J, D
tert-Butylbenzene	ND	6.0	25	ug/L	50	10/10/2017	10/11/2017 00:29	EPA 8260B	
Tetrachloroethene	**1800**	4.1	25	ug/L	50	10/10/2017	10/11/2017 00:29	EPA 8260B	D
Tetrahydrofuran	ND	60	500	ug/L	50	10/10/2017	10/11/2017 00:29	EPA 8260B	
Toluene	**3.0**	2.7	25	ug/L	50	10/10/2017	10/11/2017 00:29	EPA 8260B	J, D
trans-1,2-Dichloroethene	ND	5.5	25	ug/L	50	10/10/2017	10/11/2017 00:29	EPA 8260B	
trans-1,3-Dichloropropene	ND	4.8	25	ug/L	50	10/10/2017	10/11/2017 00:29	EPA 8260B	
Trichloroethene	**180**	3.1	25	ug/L	50	10/10/2017	10/11/2017 00:29	EPA 8260B	D
Trichlorofluoromethane	ND	6.5	25	ug/L	50	10/10/2017	10/11/2017 00:29	EPA 8260B	
Vinyl chloride	ND	8.0	25	ug/L	50	10/10/2017	10/11/2017 00:29	EPA 8260B	
Xylenes, total	ND	5.8	75	ug/L	50	10/10/2017	10/11/2017 00:29	EPA 8260B	
Surrogate: Dibromofluoromethane			*106 %*	*68.9-141*		*10/10/2017*	*10/11/2017 00:29*	*EPA 8260B*	
Surrogate: Toluene-d8			*95.1 %*	*73.3-114*		*10/10/2017*	*10/11/2017 00:29*	*EPA 8260B*	
Surrogate: 4-Bromofluorobenzene			*90.4 %*	*72.2-114*		*10/10/2017*	*10/11/2017 00:29*	*EPA 8260B*	

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Project: Madison Kipp Corp. Semi-Annual Sampling
Project Number: 266431
Project Manager: Andrew Stehn

MP-15 Port 3 (120-125)

A174009-09 (Water)

Date Sampled
10/03/2017 08:55

Pace Analytical - Madison

Volatile Organic Compounds by Method 8260 - Purge and Trap — **Preparation Batch: A710036**

Analyte	Result	Limit of Detection	Limit of Quantitation	Units	Dilution	Prepared	Analyzed	Method	Qualifiers
1,1,1,2-Tetrachloroethane	ND	5.5	25	ug/L	50	10/11/2017	10/11/2017 21:21	EPA 8260B	
1,1,1-Trichloroethane	ND	5.0	25	ug/L	50	10/11/2017	10/11/2017 21:21	EPA 8260B	
1,1,2,2-Tetrachloroethane	ND	5.0	25	ug/L	50	10/11/2017	10/11/2017 21:21	EPA 8260B	
1,1,2-Trichloroethane	ND	5.0	25	ug/L	50	10/11/2017	10/11/2017 21:21	EPA 8260B	
1,1,2-Trichlorotrifluoroethane	ND	6.5	25	ug/L	50	10/11/2017	10/11/2017 21:21	EPA 8260B	
1,1-Dichloroethane	ND	6.0	25	ug/L	50	10/11/2017	10/11/2017 21:21	EPA 8260B	
1,1-Dichloroethene	ND	7.0	25	ug/L	50	10/11/2017	10/11/2017 21:21	EPA 8260B	
1,1-Dichloropropene	ND	5.5	25	ug/L	50	10/11/2017	10/11/2017 21:21	EPA 8260B	
1,2,3-Trichlorobenzene	ND	2.3	100	ug/L	50	10/11/2017	10/11/2017 21:21	EPA 8260B	
1,2,3-Trichloropropane	ND	7.5	50	ug/L	50	10/11/2017	10/11/2017 21:21	EPA 8260B	
1,2,4-Trichlorobenzene	ND	3.9	100	ug/L	50	10/11/2017	10/11/2017 21:21	EPA 8260B	
1,2,4-Trimethylbenzene	ND	3.0	25	ug/L	50	10/11/2017	10/11/2017 21:21	EPA 8260B	
1,2-Dibromo-3-chloropropane	ND	13	25	ug/L	50	10/11/2017	10/11/2017 21:21	EPA 8260B	
1,2-Dibromoethane (EDB)	ND	6.5	25	ug/L	50	10/11/2017	10/11/2017 21:21	EPA 8260B	
1,2-Dichlorobenzene	ND	3.8	25	ug/L	50	10/11/2017	10/11/2017 21:21	EPA 8260B	
1,2-Dichloroethane	ND	3.9	25	ug/L	50	10/11/2017	10/11/2017 21:21	EPA 8260B	
1,2-Dichloropropane	ND	5.0	25	ug/L	50	10/11/2017	10/11/2017 21:21	EPA 8260B	
1,3,5-Trimethylbenzene	ND	3.8	25	ug/L	50	10/11/2017	10/11/2017 21:21	EPA 8260B	
1,3-Dichlorobenzene	ND	4.8	25	ug/L	50	10/11/2017	10/11/2017 21:21	EPA 8260B	
1,3-Dichloropropane	ND	5.5	25	ug/L	50	10/11/2017	10/11/2017 21:21	EPA 8260B	
1,4-Dichlorobenzene	ND	3.5	25	ug/L	50	10/11/2017	10/11/2017 21:21	EPA 8260B	
2,2-Dichloropropane	ND	7.0	25	ug/L	50	10/11/2017	10/11/2017 21:21	EPA 8260B	
2-Butanone	ND	150	1000	ug/L	50	10/11/2017	10/11/2017 21:21	EPA 8260B	
2-Chlorotoluene	ND	3.8	25	ug/L	50	10/11/2017	10/11/2017 21:21	EPA 8260B	
2-Hexanone	ND	48	1000	ug/L	50	10/11/2017	10/11/2017 21:21	EPA 8260B	
4-Chlorotoluene	ND	3.7	25	ug/L	50	10/11/2017	10/11/2017 21:21	EPA 8260B	
4-Methyl-2-pentanone	ND	39	1000	ug/L	50	10/11/2017	10/11/2017 21:21	EPA 8260B	
Acetone	ND	170	1000	ug/L	50	10/11/2017	10/11/2017 21:21	EPA 8260B	
Benzene	ND	4.5	25	ug/L	50	10/11/2017	10/11/2017 21:21	EPA 8260B	
Bromobenzene	ND	4.2	25	ug/L	50	10/11/2017	10/11/2017 21:21	EPA 8260B	
Bromochloromethane	ND	16	25	ug/L	50	10/11/2017	10/11/2017 21:21	EPA 8260B	
Bromodichloromethane	ND	3.9	25	ug/L	50	10/11/2017	10/11/2017 21:21	EPA 8260B	
Bromoform	ND	4.4	25	ug/L	50	10/11/2017	10/11/2017 21:21	EPA 8260B	
Bromomethane	ND	30	250	ug/L	50	10/11/2017	10/11/2017 21:21	EPA 8260B	
Carbon disulfide	ND	2.7	25	ug/L	50	10/11/2017	10/11/2017 21:21	EPA 8260B	
Carbon tetrachloride	ND	1.9	25	ug/L	50	10/11/2017	10/11/2017 21:21	EPA 8260B	
Chlorobenzene	ND	3.7	25	ug/L	50	10/11/2017	10/11/2017 21:21	EPA 8260B	
Chloroethane	ND	13	250	ug/L	50	10/11/2017	10/11/2017 21:21	EPA 8260B	
Chloroform	ND	3.1	25	ug/L	50	10/11/2017	10/11/2017 21:21	EPA 8260B	
Chloromethane	ND	8.0	100	ug/L	50	10/11/2017	10/11/2017 21:21	EPA 8260B	

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TRC Environmental Corporation, Inc.
708 Heartland Trail, Ste 3000
Madison WI, 53717

Project: Madison Kipp Corp. Semi-Annual Sampling
Project Number: 266431
Project Manager: Andrew Stehn

MP-15 Port 3 (120-125)

A174009-09 (Water)

Date Sampled
10/03/2017 08:55

Pace Analytical - Madison

Volatile Organic Compounds by Method 8260 - Purge and Trap — **Preparation Batch: A710036**

Analyte	Result	Limit of Detection	Limit of Quantitation	Units	Dilution	Prepared	Analyzed	Method	Qualifiers
cis-1,2-Dichloroethene	**140**	5.5	25	ug/L	50	10/11/2017	10/11/2017 21:21	EPA 8260B	D
cis-1,3-Dichloropropene	ND	3.1	25	ug/L	50	10/11/2017	10/11/2017 21:21	EPA 8260B	
Dibromochloromethane	ND	4.6	25	ug/L	50	10/11/2017	10/11/2017 21:21	EPA 8260B	
Dibromomethane	ND	7.0	25	ug/L	50	10/11/2017	10/11/2017 21:21	EPA 8260B	
Dichlorodifluoromethane	ND	5.5	25	ug/L	50	10/11/2017	10/11/2017 21:21	EPA 8260B	
Diisopropyl Ether	ND	7.5	25	ug/L	50	10/11/2017	10/11/2017 21:21	EPA 8260B	
Ethylbenzene	ND	2.7	25	ug/L	50	10/11/2017	10/11/2017 21:21	EPA 8260B	
Hexachlorobutadiene	ND	6.5	100	ug/L	50	10/11/2017	10/11/2017 21:21	EPA 8260B	
Isopropylbenzene	ND	4.1	25	ug/L	50	10/11/2017	10/11/2017 21:21	EPA 8260B	
m,p-Xylene	ND	2.9	50	ug/L	50	10/11/2017	10/11/2017 21:21	EPA 8260B	
Methyl t-Butyl Ether	ND	7.0	25	ug/L	50	10/11/2017	10/11/2017 21:21	EPA 8260B	
Methylene chloride	ND	7.0	100	ug/L	50	10/11/2017	10/11/2017 21:21	EPA 8260B	
Naphthalene	ND	4.4	250	ug/L	50	10/11/2017	10/11/2017 21:21	EPA 8260B	
n-Butyl Benzene	ND	7.0	25	ug/L	50	10/11/2017	10/11/2017 21:21	EPA 8260B	
n-Hexane	ND	11	25	ug/L	50	10/11/2017	10/11/2017 21:21	EPA 8260B	
n-Propyl Benzene	ND	5.0	25	ug/L	50	10/11/2017	10/11/2017 21:21	EPA 8260B	
o-Xylene	ND	2.9	25	ug/L	50	10/11/2017	10/11/2017 21:21	EPA 8260B	
p-Isopropyltoluene	ND	4.3	25	ug/L	50	10/11/2017	10/11/2017 21:21	EPA 8260B	
sec-Butyl Benzene	ND	6.5	25	ug/L	50	10/11/2017	10/11/2017 21:21	EPA 8260B	
Styrene	**4.0**	3.3	25	ug/L	50	10/11/2017	10/11/2017 21:21	EPA 8260B	B, J, D
tert-Butylbenzene	ND	6.0	25	ug/L	50	10/11/2017	10/11/2017 21:21	EPA 8260B	
Tetrachloroethene	**2300**	8.1	50	ug/L	100	10/11/2017	10/12/2017 09:36	EPA 8260B	D
Tetrahydrofuran	ND	60	500	ug/L	50	10/11/2017	10/11/2017 21:21	EPA 8260B	
Toluene	ND	2.7	25	ug/L	50	10/11/2017	10/11/2017 21:21	EPA 8260B	
trans-1,2-Dichloroethene	ND	5.5	25	ug/L	50	10/11/2017	10/11/2017 21:21	EPA 8260B	
trans-1,3-Dichloropropene	ND	4.8	25	ug/L	50	10/11/2017	10/11/2017 21:21	EPA 8260B	
Trichloroethene	**190**	3.1	25	ug/L	50	10/11/2017	10/11/2017 21:21	EPA 8260B	D
Trichlorofluoromethane	ND	6.5	25	ug/L	50	10/11/2017	10/11/2017 21:21	EPA 8260B	
Vinyl chloride	ND	8.0	25	ug/L	50	10/11/2017	10/11/2017 21:21	EPA 8260B	
Xylenes, total	ND	5.8	75	ug/L	50	10/11/2017	10/11/2017 21:21	EPA 8260B	
Surrogate: Dibromofluoromethane			*103 %*	*68.9-141*		*10/11/2017*	*10/11/2017 21:21*	*EPA 8260B*	
Surrogate: Toluene-d8			*97.2 %*	*73.3-114*		*10/11/2017*	*10/11/2017 21:21*	*EPA 8260B*	
Surrogate: 4-Bromofluorobenzene			*95.5 %*	*72.2-114*		*10/11/2017*	*10/11/2017 21:21*	*EPA 8260B*	

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Project: Madison Kipp Corp. Semi-Annual Sampling
Project Number: 266431
Project Manager: Andrew Stehn

MP-15 Port 4 (100-105)

A174009-10 (Water)

Date Sampled
10/03/2017 09:20

Pace Analytical - Madison

Volatile Organic Compounds by Method 8260 - Purge and Trap — **Preparation Batch: A710036**

Analyte	Result	Limit of Detection	Limit of Quantitation	Units	Dilution	Prepared	Analyzed	Method	Qualifiers
1,1,1,2-Tetrachloroethane	ND	2.2	10	ug/L	20	10/11/2017	10/11/2017 20:25	EPA 8260B	
1,1,1-Trichloroethane	ND	2.0	10	ug/L	20	10/11/2017	10/11/2017 20:25	EPA 8260B	
1,1,2,2-Tetrachloroethane	ND	2.0	10	ug/L	20	10/11/2017	10/11/2017 20:25	EPA 8260B	
1,1,2-Trichloroethane	ND	2.0	10	ug/L	20	10/11/2017	10/11/2017 20:25	EPA 8260B	
1,1,2-Trichlorotrifluoroethane	ND	2.6	10	ug/L	20	10/11/2017	10/11/2017 20:25	EPA 8260B	
1,1-Dichloroethane	ND	2.4	10	ug/L	20	10/11/2017	10/11/2017 20:25	EPA 8260B	
1,1-Dichloroethene	ND	2.8	10	ug/L	20	10/11/2017	10/11/2017 20:25	EPA 8260B	
1,1-Dichloropropene	ND	2.2	10	ug/L	20	10/11/2017	10/11/2017 20:25	EPA 8260B	
1,2,3-Trichlorobenzene	ND	0.90	40	ug/L	20	10/11/2017	10/11/2017 20:25	EPA 8260B	
1,2,3-Trichloropropane	ND	3.0	20	ug/L	20	10/11/2017	10/11/2017 20:25	EPA 8260B	
1,2,4-Trichlorobenzene	ND	1.5	40	ug/L	20	10/11/2017	10/11/2017 20:25	EPA 8260B	
1,2,4-Trimethylbenzene	ND	1.2	10	ug/L	20	10/11/2017	10/11/2017 20:25	EPA 8260B	
1,2-Dibromo-3-chloropropane	ND	5.0	10	ug/L	20	10/11/2017	10/11/2017 20:25	EPA 8260B	
1,2-Dibromoethane (EDB)	ND	2.6	10	ug/L	20	10/11/2017	10/11/2017 20:25	EPA 8260B	
1,2-Dichlorobenzene	ND	1.5	10	ug/L	20	10/11/2017	10/11/2017 20:25	EPA 8260B	
1,2-Dichloroethane	ND	1.6	10	ug/L	20	10/11/2017	10/11/2017 20:25	EPA 8260B	
1,2-Dichloropropane	ND	2.0	10	ug/L	20	10/11/2017	10/11/2017 20:25	EPA 8260B	
1,3,5-Trimethylbenzene	ND	1.5	10	ug/L	20	10/11/2017	10/11/2017 20:25	EPA 8260B	
1,3-Dichlorobenzene	ND	1.9	10	ug/L	20	10/11/2017	10/11/2017 20:25	EPA 8260B	
1,3-Dichloropropane	ND	2.2	10	ug/L	20	10/11/2017	10/11/2017 20:25	EPA 8260B	
1,4-Dichlorobenzene	ND	1.4	10	ug/L	20	10/11/2017	10/11/2017 20:25	EPA 8260B	
2,2-Dichloropropane	ND	2.8	10	ug/L	20	10/11/2017	10/11/2017 20:25	EPA 8260B	
2-Butanone	ND	60	400	ug/L	20	10/11/2017	10/11/2017 20:25	EPA 8260B	
2-Chlorotoluene	ND	1.5	10	ug/L	20	10/11/2017	10/11/2017 20:25	EPA 8260B	
2-Hexanone	ND	19	400	ug/L	20	10/11/2017	10/11/2017 20:25	EPA 8260B	
4-Chlorotoluene	ND	1.5	10	ug/L	20	10/11/2017	10/11/2017 20:25	EPA 8260B	
4-Methyl-2-pentanone	ND	15	400	ug/L	20	10/11/2017	10/11/2017 20:25	EPA 8260B	
Acetone	ND	68	400	ug/L	20	10/11/2017	10/11/2017 20:25	EPA 8260B	
Benzene	ND	1.8	10	ug/L	20	10/11/2017	10/11/2017 20:25	EPA 8260B	
Bromobenzene	ND	1.7	10	ug/L	20	10/11/2017	10/11/2017 20:25	EPA 8260B	
Bromochloromethane	ND	6.2	10	ug/L	20	10/11/2017	10/11/2017 20:25	EPA 8260B	
Bromodichloromethane	ND	1.5	10	ug/L	20	10/11/2017	10/11/2017 20:25	EPA 8260B	
Bromoform	ND	1.8	10	ug/L	20	10/11/2017	10/11/2017 20:25	EPA 8260B	
Bromomethane	ND	12	100	ug/L	20	10/11/2017	10/11/2017 20:25	EPA 8260B	
Carbon disulfide	ND	1.1	10	ug/L	20	10/11/2017	10/11/2017 20:25	EPA 8260B	
Carbon tetrachloride	ND	0.76	10	ug/L	20	10/11/2017	10/11/2017 20:25	EPA 8260B	
Chlorobenzene	ND	1.5	10	ug/L	20	10/11/2017	10/11/2017 20:25	EPA 8260B	
Chloroethane	ND	5.0	100	ug/L	20	10/11/2017	10/11/2017 20:25	EPA 8260B	
Chloroform	ND	1.2	10	ug/L	20	10/11/2017	10/11/2017 20:25	EPA 8260B	
Chloromethane	ND	3.2	40	ug/L	20	10/11/2017	10/11/2017 20:25	EPA 8260B	

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708 Heartland Trail, Ste 3000	Project Number: 266431
Madison WI, 53717	Project Manager: Andrew Stehn

MP-15 Port 4 (100-105)

A174009-10 (Water)

Date Sampled
10/03/2017 09:20

Pace Analytical - Madison

Volatile Organic Compounds by Method 8260 - Purge and Trap — **Preparation Batch: A710036**

Analyte	Result	Limit of Detection	Limit of Quantitation	Units	Dilution	Prepared	Analyzed	Method	Qualifiers
cis-1,2-Dichloroethene	**79**	2.2	10	ug/L	20	10/11/2017	10/11/2017 20:25	EPA 8260B	D
cis-1,3-Dichloropropene	ND	1.2	10	ug/L	20	10/11/2017	10/11/2017 20:25	EPA 8260B	
Dibromochloromethane	ND	1.8	10	ug/L	20	10/11/2017	10/11/2017 20:25	EPA 8260B	
Dibromomethane	ND	2.8	10	ug/L	20	10/11/2017	10/11/2017 20:25	EPA 8260B	
Dichlorodifluoromethane	ND	2.2	10	ug/L	20	10/11/2017	10/11/2017 20:25	EPA 8260B	
Diisopropyl Ether	ND	3.0	10	ug/L	20	10/11/2017	10/11/2017 20:25	EPA 8260B	
Ethylbenzene	ND	1.1	10	ug/L	20	10/11/2017	10/11/2017 20:25	EPA 8260B	
Hexachlorobutadiene	ND	2.6	40	ug/L	20	10/11/2017	10/11/2017 20:25	EPA 8260B	
Isopropylbenzene	ND	1.6	10	ug/L	20	10/11/2017	10/11/2017 20:25	EPA 8260B	
m,p-Xylene	ND	1.1	20	ug/L	20	10/11/2017	10/11/2017 20:25	EPA 8260B	
Methyl t-Butyl Ether	ND	2.8	10	ug/L	20	10/11/2017	10/11/2017 20:25	EPA 8260B	
Methylene chloride	ND	2.8	40	ug/L	20	10/11/2017	10/11/2017 20:25	EPA 8260B	
Naphthalene	ND	1.8	100	ug/L	20	10/11/2017	10/11/2017 20:25	EPA 8260B	
n-Butyl Benzene	ND	2.8	10	ug/L	20	10/11/2017	10/11/2017 20:25	EPA 8260B	
n-Hexane	ND	4.2	10	ug/L	20	10/11/2017	10/11/2017 20:25	EPA 8260B	
n-Propyl Benzene	ND	2.0	10	ug/L	20	10/11/2017	10/11/2017 20:25	EPA 8260B	
o-Xylene	ND	1.2	10	ug/L	20	10/11/2017	10/11/2017 20:25	EPA 8260B	
p-Isopropyltoluene	ND	1.7	10	ug/L	20	10/11/2017	10/11/2017 20:25	EPA 8260B	
sec-Butyl Benzene	ND	2.6	10	ug/L	20	10/11/2017	10/11/2017 20:25	EPA 8260B	
Styrene	**1.6**	1.3	10	ug/L	20	10/11/2017	10/11/2017 20:25	EPA 8260B	B, J, D
tert-Butylbenzene	ND	2.4	10	ug/L	20	10/11/2017	10/11/2017 20:25	EPA 8260B	
Tetrachloroethene	**820**	1.6	10	ug/L	20	10/11/2017	10/11/2017 20:25	EPA 8260B	D
Tetrahydrofuran	ND	24	200	ug/L	20	10/11/2017	10/11/2017 20:25	EPA 8260B	
Toluene	ND	1.1	10	ug/L	20	10/11/2017	10/11/2017 20:25	EPA 8260B	
trans-1,2-Dichloroethene	ND	2.2	10	ug/L	20	10/11/2017	10/11/2017 20:25	EPA 8260B	
trans-1,3-Dichloropropene	ND	1.9	10	ug/L	20	10/11/2017	10/11/2017 20:25	EPA 8260B	
Trichloroethene	**85**	1.2	10	ug/L	20	10/11/2017	10/11/2017 20:25	EPA 8260B	D
Trichlorofluoromethane	ND	2.6	10	ug/L	20	10/11/2017	10/11/2017 20:25	EPA 8260B	
Vinyl chloride	ND	3.2	10	ug/L	20	10/11/2017	10/11/2017 20:25	EPA 8260B	
Xylenes, total	ND	2.3	30	ug/L	20	10/11/2017	10/11/2017 20:25	EPA 8260B	
Surrogate: Dibromofluoromethane			*104 %*	*68.9-141*		*10/11/2017*	*10/11/2017 20:25*	*EPA 8260B*	
Surrogate: Toluene-d8			*99.4 %*	*73.3-114*		*10/11/2017*	*10/11/2017 20:25*	*EPA 8260B*	
Surrogate: 4-Bromofluorobenzene			*96.6 %*	*72.2-114*		*10/11/2017*	*10/11/2017 20:25*	*EPA 8260B*	

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Project: Madison Kipp Corp. Semi-Annual Sampling
Project Number: 266431
Project Manager: Andrew Stehn

MP-15 Port 5 (88-92)

A174009-11 (Water)

Date Sampled
10/03/2017 09:36

Pace Analytical - Madison

Volatile Organic Compounds by Method 8260 - Purge and Trap — **Preparation Batch: A710028**

Analyte	Result	Limit of Detection	Limit of Quantitation	Units	Dilution	Prepared	Analyzed	Method	Qualifiers
1,1,1,2-Tetrachloroethane	ND	0.55	2.5	ug/L	5	10/10/2017	10/10/2017 17:26	EPA 8260B	
1,1,1-Trichloroethane	ND	0.50	2.5	ug/L	5	10/10/2017	10/10/2017 17:26	EPA 8260B	
1,1,2,2-Tetrachloroethane	ND	0.50	2.5	ug/L	5	10/10/2017	10/10/2017 17:26	EPA 8260B	
1,1,2-Trichloroethane	ND	0.50	2.5	ug/L	5	10/10/2017	10/10/2017 17:26	EPA 8260B	
1,1,2-Trichlorotrifluoroethane	ND	0.65	2.5	ug/L	5	10/10/2017	10/10/2017 17:26	EPA 8260B	
1,1-Dichloroethane	ND	0.60	2.5	ug/L	5	10/10/2017	10/10/2017 17:26	EPA 8260B	
1,1-Dichloroethene	ND	0.70	2.5	ug/L	5	10/10/2017	10/10/2017 17:26	EPA 8260B	
1,1-Dichloropropene	ND	0.55	2.5	ug/L	5	10/10/2017	10/10/2017 17:26	EPA 8260B	
1,2,3-Trichlorobenzene	ND	0.23	10	ug/L	5	10/10/2017	10/10/2017 17:26	EPA 8260B	
1,2,3-Trichloropropane	ND	0.75	5.0	ug/L	5	10/10/2017	10/10/2017 17:26	EPA 8260B	
1,2,4-Trichlorobenzene	ND	0.39	10	ug/L	5	10/10/2017	10/10/2017 17:26	EPA 8260B	
1,2,4-Trimethylbenzene	ND	0.30	2.5	ug/L	5	10/10/2017	10/10/2017 17:26	EPA 8260B	
1,2-Dibromo-3-chloropropane	ND	1.3	2.5	ug/L	5	10/10/2017	10/10/2017 17:26	EPA 8260B	
1,2-Dibromoethane (EDB)	ND	0.65	2.5	ug/L	5	10/10/2017	10/10/2017 17:26	EPA 8260B	
1,2-Dichlorobenzene	ND	0.38	2.5	ug/L	5	10/10/2017	10/10/2017 17:26	EPA 8260B	
1,2-Dichloroethane	ND	0.39	2.5	ug/L	5	10/10/2017	10/10/2017 17:26	EPA 8260B	
1,2-Dichloropropane	ND	0.50	2.5	ug/L	5	10/10/2017	10/10/2017 17:26	EPA 8260B	
1,3,5-Trimethylbenzene	ND	0.38	2.5	ug/L	5	10/10/2017	10/10/2017 17:26	EPA 8260B	
1,3-Dichlorobenzene	ND	0.48	2.5	ug/L	5	10/10/2017	10/10/2017 17:26	EPA 8260B	
1,3-Dichloropropane	ND	0.55	2.5	ug/L	5	10/10/2017	10/10/2017 17:26	EPA 8260B	
1,4-Dichlorobenzene	ND	0.35	2.5	ug/L	5	10/10/2017	10/10/2017 17:26	EPA 8260B	
2,2-Dichloropropane	ND	0.70	2.5	ug/L	5	10/10/2017	10/10/2017 17:26	EPA 8260B	
2-Butanone	ND	15	100	ug/L	5	10/10/2017	10/10/2017 17:26	EPA 8260B	
2-Chlorotoluene	ND	0.38	2.5	ug/L	5	10/10/2017	10/10/2017 17:26	EPA 8260B	
2-Hexanone	ND	4.8	100	ug/L	5	10/10/2017	10/10/2017 17:26	EPA 8260B	
4-Chlorotoluene	ND	0.37	2.5	ug/L	5	10/10/2017	10/10/2017 17:26	EPA 8260B	
4-Methyl-2-pentanone	ND	3.9	100	ug/L	5	10/10/2017	10/10/2017 17:26	EPA 8260B	
Acetone	**26**	17	100	ug/L	5	10/10/2017	10/10/2017 17:26	EPA 8260B	B, J, D
Benzene	ND	0.45	2.5	ug/L	5	10/10/2017	10/10/2017 17:26	EPA 8260B	
Bromobenzene	ND	0.42	2.5	ug/L	5	10/10/2017	10/10/2017 17:26	EPA 8260B	
Bromochloromethane	ND	1.6	2.5	ug/L	5	10/10/2017	10/10/2017 17:26	EPA 8260B	
Bromodichloromethane	ND	0.39	2.5	ug/L	5	10/10/2017	10/10/2017 17:26	EPA 8260B	
Bromoform	ND	0.44	2.5	ug/L	5	10/10/2017	10/10/2017 17:26	EPA 8260B	
Bromomethane	ND	3.0	25	ug/L	5	10/10/2017	10/10/2017 17:26	EPA 8260B	
Carbon disulfide	ND	0.27	2.5	ug/L	5	10/10/2017	10/10/2017 17:26	EPA 8260B	
Carbon tetrachloride	ND	0.19	2.5	ug/L	5	10/10/2017	10/10/2017 17:26	EPA 8260B	
Chlorobenzene	ND	0.37	2.5	ug/L	5	10/10/2017	10/10/2017 17:26	EPA 8260B	
Chloroethane	ND	1.3	25	ug/L	5	10/10/2017	10/10/2017 17:26	EPA 8260B	
Chloroform	ND	0.31	2.5	ug/L	5	10/10/2017	10/10/2017 17:26	EPA 8260B	
Chloromethane	**1.3**	0.80	10	ug/L	5	10/10/2017	10/10/2017 17:26	EPA 8260B	HC, J, D

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Madison WI, 53717

Project: Madison Kipp Corp. Semi-Annual Sampling
Project Number: 266431
Project Manager: Andrew Stehn

MP-15 Port 5 (88-92)

A174009-11 (Water)

Date Sampled
10/03/2017 09:36

Pace Analytical - Madison

Volatile Organic Compounds by Method 8260 - Purge and Trap — **Preparation Batch: A710028**

Analyte	Result	Limit of Detection	Limit of Quantitation	Units	Dilution	Prepared	Analyzed	Method	Qualifiers
cis-1,2-Dichloroethene	**17**	0.55	2.5	ug/L	5	10/10/2017	10/10/2017 17:26	EPA 8260B	D
cis-1,3-Dichloropropene	ND	0.31	2.5	ug/L	5	10/10/2017	10/10/2017 17:26	EPA 8260B	
Dibromochloromethane	ND	0.46	2.5	ug/L	5	10/10/2017	10/10/2017 17:26	EPA 8260B	
Dibromomethane	ND	0.70	2.5	ug/L	5	10/10/2017	10/10/2017 17:26	EPA 8260B	
Dichlorodifluoromethane	ND	0.55	2.5	ug/L	5	10/10/2017	10/10/2017 17:26	EPA 8260B	
Diisopropyl Ether	ND	0.75	2.5	ug/L	5	10/10/2017	10/10/2017 17:26	EPA 8260B	
Ethylbenzene	ND	0.27	2.5	ug/L	5	10/10/2017	10/10/2017 17:26	EPA 8260B	
Hexachlorobutadiene	ND	0.65	10	ug/L	5	10/10/2017	10/10/2017 17:26	EPA 8260B	
Isopropylbenzene	ND	0.41	2.5	ug/L	5	10/10/2017	10/10/2017 17:26	EPA 8260B	
m,p-Xylene	**0.30**	0.29	5.0	ug/L	5	10/10/2017	10/10/2017 17:26	EPA 8260B	B, J, D
Methyl t-Butyl Ether	ND	0.70	2.5	ug/L	5	10/10/2017	10/10/2017 17:26	EPA 8260B	
Methylene chloride	ND	0.70	10	ug/L	5	10/10/2017	10/10/2017 17:26	EPA 8260B	
Naphthalene	ND	0.44	25	ug/L	5	10/10/2017	10/10/2017 17:26	EPA 8260B	
n-Butyl Benzene	ND	0.70	2.5	ug/L	5	10/10/2017	10/10/2017 17:26	EPA 8260B	
n-Hexane	ND	1.1	2.5	ug/L	5	10/10/2017	10/10/2017 17:26	EPA 8260B	
n-Propyl Benzene	ND	0.50	2.5	ug/L	5	10/10/2017	10/10/2017 17:26	EPA 8260B	
o-Xylene	ND	0.29	2.5	ug/L	5	10/10/2017	10/10/2017 17:26	EPA 8260B	
p-Isopropyltoluene	ND	0.43	2.5	ug/L	5	10/10/2017	10/10/2017 17:26	EPA 8260B	
sec-Butyl Benzene	ND	0.65	2.5	ug/L	5	10/10/2017	10/10/2017 17:26	EPA 8260B	
Styrene	**0.35**	0.33	2.5	ug/L	5	10/10/2017	10/10/2017 17:26	EPA 8260B	B, J, D
tert-Butylbenzene	ND	0.60	2.5	ug/L	5	10/10/2017	10/10/2017 17:26	EPA 8260B	
Tetrachloroethene	**160**	0.41	2.5	ug/L	5	10/10/2017	10/10/2017 17:26	EPA 8260B	D
Tetrahydrofuran	ND	6.0	50	ug/L	5	10/10/2017	10/10/2017 17:26	EPA 8260B	
Toluene	ND	0.27	2.5	ug/L	5	10/10/2017	10/10/2017 17:26	EPA 8260B	
trans-1,2-Dichloroethene	ND	0.55	2.5	ug/L	5	10/10/2017	10/10/2017 17:26	EPA 8260B	
trans-1,3-Dichloropropene	ND	0.48	2.5	ug/L	5	10/10/2017	10/10/2017 17:26	EPA 8260B	
Trichloroethene	**14**	0.31	2.5	ug/L	5	10/10/2017	10/10/2017 17:26	EPA 8260B	D
Trichlorofluoromethane	ND	0.65	2.5	ug/L	5	10/10/2017	10/10/2017 17:26	EPA 8260B	
Vinyl chloride	ND	0.80	2.5	ug/L	5	10/10/2017	10/10/2017 17:26	EPA 8260B	
Xylenes, total	ND	0.58	7.5	ug/L	5	10/10/2017	10/10/2017 17:26	EPA 8260B	
Surrogate: Dibromofluoromethane			*108 %*	*68.9-141*		*10/10/2017*	*10/10/2017 17:26*	*EPA 8260B*	
Surrogate: Toluene-d8			*95.3 %*	*73.3-114*		*10/10/2017*	*10/10/2017 17:26*	*EPA 8260B*	
Surrogate: 4-Bromofluorobenzene			*89.8 %*	*72.2-114*		*10/10/2017*	*10/10/2017 17:26*	*EPA 8260B*	

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708 Heartland Trail, Ste 3000	Project Number: 266431
Madison WI, 53717	Project Manager: Andrew Stehn

MP-13 Port 1 (163-167)

A174009-12 (Water)

Date Sampled
10/03/2017 10:45

Pace Analytical - Madison

Volatile Organic Compounds by Method 8260 - Purge and Trap — **Preparation Batch: A710028**

Analyte	Result	Limit of Detection	Limit of Quantitation	Units	Dilution	Prepared	Analyzed	Method	Qualifiers
1,1,1,2-Tetrachloroethane	ND	0.11	0.50	ug/L	1	10/10/2017	10/10/2017 11:46	EPA 8260B	
1,1,1-Trichloroethane	ND	0.10	0.50	ug/L	1	10/10/2017	10/10/2017 11:46	EPA 8260B	
1,1,2,2-Tetrachloroethane	ND	0.099	0.50	ug/L	1	10/10/2017	10/10/2017 11:46	EPA 8260B	
1,1,2-Trichloroethane	ND	0.10	0.50	ug/L	1	10/10/2017	10/10/2017 11:46	EPA 8260B	
1,1,2-Trichlorotrifluoroethane	ND	0.13	0.50	ug/L	1	10/10/2017	10/10/2017 11:46	EPA 8260B	
1,1-Dichloroethane	ND	0.12	0.50	ug/L	1	10/10/2017	10/10/2017 11:46	EPA 8260B	
1,1-Dichloroethene	ND	0.14	0.50	ug/L	1	10/10/2017	10/10/2017 11:46	EPA 8260B	
1,1-Dichloropropene	ND	0.11	0.50	ug/L	1	10/10/2017	10/10/2017 11:46	EPA 8260B	
1,2,3-Trichlorobenzene	ND	0.045	2.0	ug/L	1	10/10/2017	10/10/2017 11:46	EPA 8260B	
1,2,3-Trichloropropane	ND	0.15	1.0	ug/L	1	10/10/2017	10/10/2017 11:46	EPA 8260B	
1,2,4-Trichlorobenzene	ND	0.077	2.0	ug/L	1	10/10/2017	10/10/2017 11:46	EPA 8260B	
1,2,4-Trimethylbenzene	ND	0.060	0.50	ug/L	1	10/10/2017	10/10/2017 11:46	EPA 8260B	
1,2-Dibromo-3-chloropropane	ND	0.25	0.50	ug/L	1	10/10/2017	10/10/2017 11:46	EPA 8260B	
1,2-Dibromoethane (EDB)	ND	0.13	0.50	ug/L	1	10/10/2017	10/10/2017 11:46	EPA 8260B	
1,2-Dichlorobenzene	ND	0.076	0.50	ug/L	1	10/10/2017	10/10/2017 11:46	EPA 8260B	
1,2-Dichloroethane	ND	0.078	0.50	ug/L	1	10/10/2017	10/10/2017 11:46	EPA 8260B	
1,2-Dichloropropane	ND	0.10	0.50	ug/L	1	10/10/2017	10/10/2017 11:46	EPA 8260B	
1,3,5-Trimethylbenzene	ND	0.075	0.50	ug/L	1	10/10/2017	10/10/2017 11:46	EPA 8260B	
1,3-Dichlorobenzene	ND	0.096	0.50	ug/L	1	10/10/2017	10/10/2017 11:46	EPA 8260B	
1,3-Dichloropropane	ND	0.11	0.50	ug/L	1	10/10/2017	10/10/2017 11:46	EPA 8260B	
1,4-Dichlorobenzene	ND	0.070	0.50	ug/L	1	10/10/2017	10/10/2017 11:46	EPA 8260B	
2,2-Dichloropropane	ND	0.14	0.50	ug/L	1	10/10/2017	10/10/2017 11:46	EPA 8260B	
2-Butanone	ND	3.0	20	ug/L	1	10/10/2017	10/10/2017 11:46	EPA 8260B	
2-Chlorotoluene	ND	0.075	0.50	ug/L	1	10/10/2017	10/10/2017 11:46	EPA 8260B	
2-Hexanone	ND	0.95	20	ug/L	1	10/10/2017	10/10/2017 11:46	EPA 8260B	
4-Chlorotoluene	ND	0.073	0.50	ug/L	1	10/10/2017	10/10/2017 11:46	EPA 8260B	
4-Methyl-2-pentanone	ND	0.77	20	ug/L	1	10/10/2017	10/10/2017 11:46	EPA 8260B	
Acetone	**5.2**	3.4	20	ug/L	1	10/10/2017	10/10/2017 11:46	EPA 8260B	B, J
Benzene	ND	0.089	0.50	ug/L	1	10/10/2017	10/10/2017 11:46	EPA 8260B	
Bromobenzene	ND	0.084	0.50	ug/L	1	10/10/2017	10/10/2017 11:46	EPA 8260B	
Bromochloromethane	ND	0.31	0.50	ug/L	1	10/10/2017	10/10/2017 11:46	EPA 8260B	
Bromodichloromethane	ND	0.077	0.50	ug/L	1	10/10/2017	10/10/2017 11:46	EPA 8260B	
Bromoform	ND	0.088	0.50	ug/L	1	10/10/2017	10/10/2017 11:46	EPA 8260B	
Bromomethane	ND	0.59	5.0	ug/L	1	10/10/2017	10/10/2017 11:46	EPA 8260B	
Carbon disulfide	ND	0.053	0.50	ug/L	1	10/10/2017	10/10/2017 11:46	EPA 8260B	
Carbon tetrachloride	ND	0.038	0.50	ug/L	1	10/10/2017	10/10/2017 11:46	EPA 8260B	
Chlorobenzene	ND	0.073	0.50	ug/L	1	10/10/2017	10/10/2017 11:46	EPA 8260B	
Chloroethane	ND	0.25	5.0	ug/L	1	10/10/2017	10/10/2017 11:46	EPA 8260B	
Chloroform	ND	0.062	0.50	ug/L	1	10/10/2017	10/10/2017 11:46	EPA 8260B	
Chloromethane	**0.46**	0.16	2.0	ug/L	1	10/10/2017	10/10/2017 11:46	EPA 8260B	HC, J

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708 Heartland Trail, Ste 3000	Project Number: 266431
Madison WI, 53717	Project Manager: Andrew Stehn

MP-13 Port 1 (163-167)

A174009-12 (Water)

Date Sampled
10/03/2017 10:45

Pace Analytical - Madison

Volatile Organic Compounds by Method 8260 - Purge and Trap — **Preparation Batch: A710028**

Analyte	Result	Limit of Detection	Limit of Quantitation	Units	Dilution	Prepared	Analyzed	Method	Qualifiers
cis-1,2-Dichloroethene	**3.6**	0.11	0.50	ug/L	1	10/10/2017	10/10/2017 11:46	EPA 8260B	
cis-1,3-Dichloropropene	ND	0.061	0.50	ug/L	1	10/10/2017	10/10/2017 11:46	EPA 8260B	
Dibromochloromethane	ND	0.091	0.50	ug/L	1	10/10/2017	10/10/2017 11:46	EPA 8260B	
Dibromomethane	ND	0.14	0.50	ug/L	1	10/10/2017	10/10/2017 11:46	EPA 8260B	
Dichlorodifluoromethane	ND	0.11	0.50	ug/L	1	10/10/2017	10/10/2017 11:46	EPA 8260B	
Diisopropyl Ether	ND	0.15	0.50	ug/L	1	10/10/2017	10/10/2017 11:46	EPA 8260B	
Ethylbenzene	ND	0.054	0.50	ug/L	1	10/10/2017	10/10/2017 11:46	EPA 8260B	
Hexachlorobutadiene	ND	0.13	2.0	ug/L	1	10/10/2017	10/10/2017 11:46	EPA 8260B	
Isopropylbenzene	ND	0.081	0.50	ug/L	1	10/10/2017	10/10/2017 11:46	EPA 8260B	
m,p-Xylene	ND	0.057	1.0	ug/L	1	10/10/2017	10/10/2017 11:46	EPA 8260B	
Methyl t-Butyl Ether	ND	0.14	0.50	ug/L	1	10/10/2017	10/10/2017 11:46	EPA 8260B	
Methylene chloride	ND	0.14	2.0	ug/L	1	10/10/2017	10/10/2017 11:46	EPA 8260B	
Naphthalene	ND	0.088	5.0	ug/L	1	10/10/2017	10/10/2017 11:46	EPA 8260B	
n-Butyl Benzene	ND	0.14	0.50	ug/L	1	10/10/2017	10/10/2017 11:46	EPA 8260B	
n-Hexane	ND	0.21	0.50	ug/L	1	10/10/2017	10/10/2017 11:46	EPA 8260B	
n-Propyl Benzene	ND	0.10	0.50	ug/L	1	10/10/2017	10/10/2017 11:46	EPA 8260B	
o-Xylene	ND	0.058	0.50	ug/L	1	10/10/2017	10/10/2017 11:46	EPA 8260B	
p-Isopropyltoluene	ND	0.085	0.50	ug/L	1	10/10/2017	10/10/2017 11:46	EPA 8260B	
sec-Butyl Benzene	ND	0.13	0.50	ug/L	1	10/10/2017	10/10/2017 11:46	EPA 8260B	
Styrene	ND	0.065	0.50	ug/L	1	10/10/2017	10/10/2017 11:46	EPA 8260B	
tert-Butylbenzene	ND	0.12	0.50	ug/L	1	10/10/2017	10/10/2017 11:46	EPA 8260B	
Tetrachloroethene	**45**	0.081	0.50	ug/L	1	10/10/2017	10/10/2017 11:46	EPA 8260B	
Tetrahydrofuran	ND	1.2	10	ug/L	1	10/10/2017	10/10/2017 11:46	EPA 8260B	
Toluene	**0.080**	0.053	0.50	ug/L	1	10/10/2017	10/10/2017 11:46	EPA 8260B	B, J
trans-1,2-Dichloroethene	ND	0.11	0.50	ug/L	1	10/10/2017	10/10/2017 11:46	EPA 8260B	
trans-1,3-Dichloropropene	ND	0.096	0.50	ug/L	1	10/10/2017	10/10/2017 11:46	EPA 8260B	
Trichloroethene	**4.4**	0.062	0.50	ug/L	1	10/10/2017	10/10/2017 11:46	EPA 8260B	
Trichlorofluoromethane	ND	0.13	0.50	ug/L	1	10/10/2017	10/10/2017 11:46	EPA 8260B	
Vinyl chloride	ND	0.16	0.50	ug/L	1	10/10/2017	10/10/2017 11:46	EPA 8260B	
Xylenes, total	ND	0.12	1.5	ug/L	1	10/10/2017	10/10/2017 11:46	EPA 8260B	
Surrogate: Dibromofluoromethane			*99.7 %*	*68.9-141*		*10/10/2017*	*10/10/2017 11:46*	*EPA 8260B*	
Surrogate: Toluene-d8			*95.1 %*	*73.3-114*		*10/10/2017*	*10/10/2017 11:46*	*EPA 8260B*	
Surrogate: 4-Bromofluorobenzene			*88.8 %*	*72.2-114*		*10/10/2017*	*10/10/2017 11:46*	*EPA 8260B*	

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708 Heartland Trail, Ste 3000	Project Number: 266431
Madison WI, 53717	Project Manager: Andrew Stehn

MP-13 Port 2 (135-139)

A174009-13 (Water)

Date Sampled
10/03/2017 11:03

Pace Analytical - Madison

Volatile Organic Compounds by Method 8260 - Purge and Trap — **Preparation Batch: A710045**

Analyte	Result	Limit of Detection	Limit of Quantitation	Units	Dilution	Prepared	Analyzed	Method	Qualifiers
1,1,1,2-Tetrachloroethane	ND	5.5	25	ug/L	50	10/10/2017	10/11/2017 00:57	EPA 8260B	
1,1,1-Trichloroethane	ND	5.0	25	ug/L	50	10/10/2017	10/11/2017 00:57	EPA 8260B	
1,1,2,2-Tetrachloroethane	ND	5.0	25	ug/L	50	10/10/2017	10/11/2017 00:57	EPA 8260B	
1,1,2-Trichloroethane	ND	5.0	25	ug/L	50	10/10/2017	10/11/2017 00:57	EPA 8260B	
1,1,2-Trichlorotrifluoroethane	ND	6.5	25	ug/L	50	10/10/2017	10/11/2017 00:57	EPA 8260B	
1,1-Dichloroethane	ND	6.0	25	ug/L	50	10/10/2017	10/11/2017 00:57	EPA 8260B	
1,1-Dichloroethene	ND	7.0	25	ug/L	50	10/10/2017	10/11/2017 00:57	EPA 8260B	
1,1-Dichloropropene	ND	5.5	25	ug/L	50	10/10/2017	10/11/2017 00:57	EPA 8260B	
1,2,3-Trichlorobenzene	ND	2.3	100	ug/L	50	10/10/2017	10/11/2017 00:57	EPA 8260B	
1,2,3-Trichloropropane	ND	7.5	50	ug/L	50	10/10/2017	10/11/2017 00:57	EPA 8260B	
1,2,4-Trichlorobenzene	ND	3.9	100	ug/L	50	10/10/2017	10/11/2017 00:57	EPA 8260B	
1,2,4-Trimethylbenzene	ND	3.0	25	ug/L	50	10/10/2017	10/11/2017 00:57	EPA 8260B	
1,2-Dibromo-3-chloropropane	ND	13	25	ug/L	50	10/10/2017	10/11/2017 00:57	EPA 8260B	
1,2-Dibromoethane (EDB)	ND	6.5	25	ug/L	50	10/10/2017	10/11/2017 00:57	EPA 8260B	
1,2-Dichlorobenzene	ND	3.8	25	ug/L	50	10/10/2017	10/11/2017 00:57	EPA 8260B	
1,2-Dichloroethane	ND	3.9	25	ug/L	50	10/10/2017	10/11/2017 00:57	EPA 8260B	
1,2-Dichloropropane	ND	5.0	25	ug/L	50	10/10/2017	10/11/2017 00:57	EPA 8260B	
1,3,5-Trimethylbenzene	ND	3.8	25	ug/L	50	10/10/2017	10/11/2017 00:57	EPA 8260B	
1,3-Dichlorobenzene	ND	4.8	25	ug/L	50	10/10/2017	10/11/2017 00:57	EPA 8260B	
1,3-Dichloropropane	ND	5.5	25	ug/L	50	10/10/2017	10/11/2017 00:57	EPA 8260B	
1,4-Dichlorobenzene	ND	3.5	25	ug/L	50	10/10/2017	10/11/2017 00:57	EPA 8260B	
2,2-Dichloropropane	ND	7.0	25	ug/L	50	10/10/2017	10/11/2017 00:57	EPA 8260B	
2-Butanone	ND	150	1000	ug/L	50	10/10/2017	10/11/2017 00:57	EPA 8260B	
2-Chlorotoluene	ND	3.8	25	ug/L	50	10/10/2017	10/11/2017 00:57	EPA 8260B	
2-Hexanone	ND	48	1000	ug/L	50	10/10/2017	10/11/2017 00:57	EPA 8260B	
4-Chlorotoluene	ND	3.7	25	ug/L	50	10/10/2017	10/11/2017 00:57	EPA 8260B	
4-Methyl-2-pentanone	ND	39	1000	ug/L	50	10/10/2017	10/11/2017 00:57	EPA 8260B	
Acetone	**260**	170	1000	ug/L	50	10/10/2017	10/11/2017 00:57	EPA 8260B	J, D
Benzene	ND	4.5	25	ug/L	50	10/10/2017	10/11/2017 00:57	EPA 8260B	
Bromobenzene	ND	4.2	25	ug/L	50	10/10/2017	10/11/2017 00:57	EPA 8260B	
Bromochloromethane	ND	16	25	ug/L	50	10/10/2017	10/11/2017 00:57	EPA 8260B	
Bromodichloromethane	ND	3.9	25	ug/L	50	10/10/2017	10/11/2017 00:57	EPA 8260B	
Bromoform	ND	4.4	25	ug/L	50	10/10/2017	10/11/2017 00:57	EPA 8260B	
Bromomethane	ND	30	250	ug/L	50	10/10/2017	10/11/2017 00:57	EPA 8260B	
Carbon disulfide	ND	2.7	25	ug/L	50	10/10/2017	10/11/2017 00:57	EPA 8260B	
Carbon tetrachloride	ND	1.9	25	ug/L	50	10/10/2017	10/11/2017 00:57	EPA 8260B	
Chlorobenzene	ND	3.7	25	ug/L	50	10/10/2017	10/11/2017 00:57	EPA 8260B	
Chloroethane	ND	13	250	ug/L	50	10/10/2017	10/11/2017 00:57	EPA 8260B	
Chloroform	ND	3.1	25	ug/L	50	10/10/2017	10/11/2017 00:57	EPA 8260B	
Chloromethane	**11**	8.0	100	ug/L	50	10/10/2017	10/11/2017 00:57	EPA 8260B	HC, J, D

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708 Heartland Trail, Ste 3000	Project Number: 266431
Madison WI, 53717	Project Manager: Andrew Stehn

MP-13 Port 2 (135-139)

A174009-13 (Water)

Date Sampled
10/03/2017 11:03

Pace Analytical - Madison

Volatile Organic Compounds by Method 8260 - Purge and Trap — **Preparation Batch: A710045**

Analyte	Result	Limit of Detection	Limit of Quantitation	Units	Dilution	Prepared	Analyzed	Method	Qualifiers
cis-1,2-Dichloroethene	**190**	5.5	25	ug/L	50	10/10/2017	10/11/2017 00:57	EPA 8260B	D
cis-1,3-Dichloropropene	ND	3.1	25	ug/L	50	10/10/2017	10/11/2017 00:57	EPA 8260B	
Dibromochloromethane	ND	4.6	25	ug/L	50	10/10/2017	10/11/2017 00:57	EPA 8260B	
Dibromomethane	ND	7.0	25	ug/L	50	10/10/2017	10/11/2017 00:57	EPA 8260B	
Dichlorodifluoromethane	ND	5.5	25	ug/L	50	10/10/2017	10/11/2017 00:57	EPA 8260B	
Diisopropyl Ether	ND	7.5	25	ug/L	50	10/10/2017	10/11/2017 00:57	EPA 8260B	
Ethylbenzene	ND	2.7	25	ug/L	50	10/10/2017	10/11/2017 00:57	EPA 8260B	
Hexachlorobutadiene	ND	6.5	100	ug/L	50	10/10/2017	10/11/2017 00:57	EPA 8260B	
Isopropylbenzene	ND	4.1	25	ug/L	50	10/10/2017	10/11/2017 00:57	EPA 8260B	
m,p-Xylene	ND	2.9	50	ug/L	50	10/10/2017	10/11/2017 00:57	EPA 8260B	
Methyl t-Butyl Ether	ND	7.0	25	ug/L	50	10/10/2017	10/11/2017 00:57	EPA 8260B	
Methylene chloride	ND	7.0	100	ug/L	50	10/10/2017	10/11/2017 00:57	EPA 8260B	
Naphthalene	ND	4.4	250	ug/L	50	10/10/2017	10/11/2017 00:57	EPA 8260B	
n-Butyl Benzene	ND	7.0	25	ug/L	50	10/10/2017	10/11/2017 00:57	EPA 8260B	
n-Hexane	ND	11	25	ug/L	50	10/10/2017	10/11/2017 00:57	EPA 8260B	
n-Propyl Benzene	ND	5.0	25	ug/L	50	10/10/2017	10/11/2017 00:57	EPA 8260B	
o-Xylene	ND	2.9	25	ug/L	50	10/10/2017	10/11/2017 00:57	EPA 8260B	
p-Isopropyltoluene	ND	4.3	25	ug/L	50	10/10/2017	10/11/2017 00:57	EPA 8260B	
sec-Butyl Benzene	ND	6.5	25	ug/L	50	10/10/2017	10/11/2017 00:57	EPA 8260B	
Styrene	**3.5**	3.3	25	ug/L	50	10/10/2017	10/11/2017 00:57	EPA 8260B	B, J, D
tert-Butylbenzene	ND	6.0	25	ug/L	50	10/10/2017	10/11/2017 00:57	EPA 8260B	
Tetrachloroethene	**4100**	8.1	50	ug/L	100	10/10/2017	10/11/2017 21:49	EPA 8260B	D
Tetrahydrofuran	ND	60	500	ug/L	50	10/10/2017	10/11/2017 00:57	EPA 8260B	
Toluene	ND	2.7	25	ug/L	50	10/10/2017	10/11/2017 00:57	EPA 8260B	
trans-1,2-Dichloroethene	ND	5.5	25	ug/L	50	10/10/2017	10/11/2017 00:57	EPA 8260B	
trans-1,3-Dichloropropene	ND	4.8	25	ug/L	50	10/10/2017	10/11/2017 00:57	EPA 8260B	
Trichloroethene	**250**	3.1	25	ug/L	50	10/10/2017	10/11/2017 00:57	EPA 8260B	D
Trichlorofluoromethane	ND	6.5	25	ug/L	50	10/10/2017	10/11/2017 00:57	EPA 8260B	
Vinyl chloride	ND	8.0	25	ug/L	50	10/10/2017	10/11/2017 00:57	EPA 8260B	
Xylenes, total	ND	5.8	75	ug/L	50	10/10/2017	10/11/2017 00:57	EPA 8260B	
Surrogate: Dibromofluoromethane			*107 %*	*68.9-141*		*10/10/2017*	*10/11/2017 00:57*	*EPA 8260B*	
Surrogate: Toluene-d8			*95.4 %*	*73.3-114*		*10/10/2017*	*10/11/2017 00:57*	*EPA 8260B*	
Surrogate: 4-Bromofluorobenzene			*87.1 %*	*72.2-114*		*10/10/2017*	*10/11/2017 00:57*	*EPA 8260B*	

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708 Heartland Trail, Ste 3000	Project Number: 266431
Madison WI, 53717	Project Manager: Andrew Stehn

MP-13 Port 3 (121-125)

A174009-14 (Water)

Date Sampled
10/03/2017 11:15

Pace Analytical - Madison

Volatile Organic Compounds by Method 8260 - Purge and Trap — **Preparation Batch: A710028**

Analyte	Result	Limit of Detection	Limit of Quantitation	Units	Dilution	Prepared	Analyzed	Method	Qualifiers
1,1,1,2-Tetrachloroethane	ND	5.5	25	ug/L	50	10/10/2017	10/11/2017 01:25	EPA 8260B	
1,1,1-Trichloroethane	ND	5.0	25	ug/L	50	10/10/2017	10/11/2017 01:25	EPA 8260B	
1,1,2,2-Tetrachloroethane	ND	5.0	25	ug/L	50	10/10/2017	10/11/2017 01:25	EPA 8260B	
1,1,2-Trichloroethane	ND	5.0	25	ug/L	50	10/10/2017	10/11/2017 01:25	EPA 8260B	
1,1,2-Trichlorotrifluoroethane	ND	6.5	25	ug/L	50	10/10/2017	10/11/2017 01:25	EPA 8260B	
1,1-Dichloroethane	ND	6.0	25	ug/L	50	10/10/2017	10/11/2017 01:25	EPA 8260B	
1,1-Dichloroethene	ND	7.0	25	ug/L	50	10/10/2017	10/11/2017 01:25	EPA 8260B	
1,1-Dichloropropene	ND	5.5	25	ug/L	50	10/10/2017	10/11/2017 01:25	EPA 8260B	
1,2,3-Trichlorobenzene	ND	2.3	100	ug/L	50	10/10/2017	10/11/2017 01:25	EPA 8260B	
1,2,3-Trichloropropane	ND	7.5	50	ug/L	50	10/10/2017	10/11/2017 01:25	EPA 8260B	
1,2,4-Trichlorobenzene	ND	3.9	100	ug/L	50	10/10/2017	10/11/2017 01:25	EPA 8260B	
1,2,4-Trimethylbenzene	ND	3.0	25	ug/L	50	10/10/2017	10/11/2017 01:25	EPA 8260B	
1,2-Dibromo-3-chloropropane	ND	13	25	ug/L	50	10/10/2017	10/11/2017 01:25	EPA 8260B	
1,2-Dibromoethane (EDB)	ND	6.5	25	ug/L	50	10/10/2017	10/11/2017 01:25	EPA 8260B	
1,2-Dichlorobenzene	ND	3.8	25	ug/L	50	10/10/2017	10/11/2017 01:25	EPA 8260B	
1,2-Dichloroethane	ND	3.9	25	ug/L	50	10/10/2017	10/11/2017 01:25	EPA 8260B	
1,2-Dichloropropane	ND	5.0	25	ug/L	50	10/10/2017	10/11/2017 01:25	EPA 8260B	
1,3,5-Trimethylbenzene	ND	3.8	25	ug/L	50	10/10/2017	10/11/2017 01:25	EPA 8260B	
1,3-Dichlorobenzene	ND	4.8	25	ug/L	50	10/10/2017	10/11/2017 01:25	EPA 8260B	
1,3-Dichloropropane	ND	5.5	25	ug/L	50	10/10/2017	10/11/2017 01:25	EPA 8260B	
1,4-Dichlorobenzene	ND	3.5	25	ug/L	50	10/10/2017	10/11/2017 01:25	EPA 8260B	
2,2-Dichloropropane	ND	7.0	25	ug/L	50	10/10/2017	10/11/2017 01:25	EPA 8260B	
2-Butanone	ND	150	1000	ug/L	50	10/10/2017	10/11/2017 01:25	EPA 8260B	
2-Chlorotoluene	ND	3.8	25	ug/L	50	10/10/2017	10/11/2017 01:25	EPA 8260B	
2-Hexanone	ND	48	1000	ug/L	50	10/10/2017	10/11/2017 01:25	EPA 8260B	
4-Chlorotoluene	ND	3.7	25	ug/L	50	10/10/2017	10/11/2017 01:25	EPA 8260B	
4-Methyl-2-pentanone	ND	39	1000	ug/L	50	10/10/2017	10/11/2017 01:25	EPA 8260B	
Acetone	**280**	170	1000	ug/L	50	10/10/2017	10/11/2017 01:25	EPA 8260B	B, J, D
Benzene	ND	4.5	25	ug/L	50	10/10/2017	10/11/2017 01:25	EPA 8260B	
Bromobenzene	ND	4.2	25	ug/L	50	10/10/2017	10/11/2017 01:25	EPA 8260B	
Bromochloromethane	ND	16	25	ug/L	50	10/10/2017	10/11/2017 01:25	EPA 8260B	
Bromodichloromethane	ND	3.9	25	ug/L	50	10/10/2017	10/11/2017 01:25	EPA 8260B	
Bromoform	ND	4.4	25	ug/L	50	10/10/2017	10/11/2017 01:25	EPA 8260B	
Bromomethane	ND	30	250	ug/L	50	10/10/2017	10/11/2017 01:25	EPA 8260B	
Carbon disulfide	ND	2.7	25	ug/L	50	10/10/2017	10/11/2017 01:25	EPA 8260B	
Carbon tetrachloride	ND	1.9	25	ug/L	50	10/10/2017	10/11/2017 01:25	EPA 8260B	
Chlorobenzene	ND	3.7	25	ug/L	50	10/10/2017	10/11/2017 01:25	EPA 8260B	
Chloroethane	ND	13	250	ug/L	50	10/10/2017	10/11/2017 01:25	EPA 8260B	
Chloroform	ND	3.1	25	ug/L	50	10/10/2017	10/11/2017 01:25	EPA 8260B	
Chloromethane	**9.5**	8.0	100	ug/L	50	10/10/2017	10/11/2017 01:25	EPA 8260B	HC, J, D

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Project: Madison Kipp Corp. Semi-Annual Sampling
Project Number: 266431
Project Manager: Andrew Stehn

MP-13 Port 3 (121-125)

A174009-14 (Water)

Date Sampled
10/03/2017 11:15

Pace Analytical - Madison

Volatile Organic Compounds by Method 8260 - Purge and Trap — **Preparation Batch: A710028**

Analyte	Result	Limit of Detection	Limit of Quantitation	Units	Dilution	Prepared	Analyzed	Method	Qualifiers
cis-1,2-Dichloroethene	**240**	5.5	25	ug/L	50	10/10/2017	10/11/2017 01:25	EPA 8260B	D
cis-1,3-Dichloropropene	ND	3.1	25	ug/L	50	10/10/2017	10/11/2017 01:25	EPA 8260B	
Dibromochloromethane	ND	4.6	25	ug/L	50	10/10/2017	10/11/2017 01:25	EPA 8260B	
Dibromomethane	ND	7.0	25	ug/L	50	10/10/2017	10/11/2017 01:25	EPA 8260B	
Dichlorodifluoromethane	ND	5.5	25	ug/L	50	10/10/2017	10/11/2017 01:25	EPA 8260B	
Diisopropyl Ether	ND	7.5	25	ug/L	50	10/10/2017	10/11/2017 01:25	EPA 8260B	
Ethylbenzene	ND	2.7	25	ug/L	50	10/10/2017	10/11/2017 01:25	EPA 8260B	
Hexachlorobutadiene	ND	6.5	100	ug/L	50	10/10/2017	10/11/2017 01:25	EPA 8260B	
Isopropylbenzene	ND	4.1	25	ug/L	50	10/10/2017	10/11/2017 01:25	EPA 8260B	
m,p-Xylene	**3.0**	2.9	50	ug/L	50	10/10/2017	10/11/2017 01:25	EPA 8260B	B, J, D
Methyl t-Butyl Ether	ND	7.0	25	ug/L	50	10/10/2017	10/11/2017 01:25	EPA 8260B	
Methylene chloride	ND	7.0	100	ug/L	50	10/10/2017	10/11/2017 01:25	EPA 8260B	
Naphthalene	ND	4.4	250	ug/L	50	10/10/2017	10/11/2017 01:25	EPA 8260B	
n-Butyl Benzene	ND	7.0	25	ug/L	50	10/10/2017	10/11/2017 01:25	EPA 8260B	
n-Hexane	ND	11	25	ug/L	50	10/10/2017	10/11/2017 01:25	EPA 8260B	
n-Propyl Benzene	ND	5.0	25	ug/L	50	10/10/2017	10/11/2017 01:25	EPA 8260B	
o-Xylene	ND	2.9	25	ug/L	50	10/10/2017	10/11/2017 01:25	EPA 8260B	
p-Isopropyltoluene	ND	4.3	25	ug/L	50	10/10/2017	10/11/2017 01:25	EPA 8260B	
sec-Butyl Benzene	ND	6.5	25	ug/L	50	10/10/2017	10/11/2017 01:25	EPA 8260B	
Styrene	**3.5**	3.3	25	ug/L	50	10/10/2017	10/11/2017 01:25	EPA 8260B	B, J, D
tert-Butylbenzene	ND	6.0	25	ug/L	50	10/10/2017	10/11/2017 01:25	EPA 8260B	
Tetrachloroethene	**3000**	8.1	50	ug/L	100	10/10/2017	10/11/2017 22:17	EPA 8260B	D
Tetrahydrofuran	ND	60	500	ug/L	50	10/10/2017	10/11/2017 01:25	EPA 8260B	
Toluene	ND	2.7	25	ug/L	50	10/10/2017	10/11/2017 01:25	EPA 8260B	
trans-1,2-Dichloroethene	**6.0**	5.5	25	ug/L	50	10/10/2017	10/11/2017 01:25	EPA 8260B	J, D
trans-1,3-Dichloropropene	ND	4.8	25	ug/L	50	10/10/2017	10/11/2017 01:25	EPA 8260B	
Trichloroethene	**460**	3.1	25	ug/L	50	10/10/2017	10/11/2017 01:25	EPA 8260B	D
Trichlorofluoromethane	ND	6.5	25	ug/L	50	10/10/2017	10/11/2017 01:25	EPA 8260B	
Vinyl chloride	ND	8.0	25	ug/L	50	10/10/2017	10/11/2017 01:25	EPA 8260B	
Xylenes, total	ND	5.8	75	ug/L	50	10/10/2017	10/11/2017 01:25	EPA 8260B	
Surrogate: Dibromofluoromethane			*109 %*	*68.9-141*		*10/10/2017*	*10/11/2017 01:25*	*EPA 8260B*	
Surrogate: Toluene-d8			*96.1 %*	*73.3-114*		*10/10/2017*	*10/11/2017 01:25*	*EPA 8260B*	
Surrogate: 4-Bromofluorobenzene			*89.7 %*	*72.2-114*		*10/10/2017*	*10/11/2017 01:25*	*EPA 8260B*	

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Project Number: 266431
Project Manager: Andrew Stehn

MP-13 Port 4 (102-106)

A174009-15 (Water)

Date Sampled
10/03/2017 11:35

Pace Analytical - Madison

Volatile Organic Compounds by Method 8260 - Purge and Trap — **Preparation Batch: A710036**

Analyte	Result	Limit of Detection	Limit of Quantitation	Units	Dilution	Prepared	Analyzed	Method	Qualifiers
1,1,1,2-Tetrachloroethane	ND	2.8	13	ug/L	25	10/11/2017	10/11/2017 20:53	EPA 8260B	
1,1,1-Trichloroethane	ND	2.5	13	ug/L	25	10/11/2017	10/11/2017 20:53	EPA 8260B	
1,1,2,2-Tetrachloroethane	ND	2.5	13	ug/L	25	10/11/2017	10/11/2017 20:53	EPA 8260B	
1,1,2-Trichloroethane	ND	2.5	13	ug/L	25	10/11/2017	10/11/2017 20:53	EPA 8260B	
1,1,2-Trichlorotrifluoroethane	ND	3.3	13	ug/L	25	10/11/2017	10/11/2017 20:53	EPA 8260B	
1,1-Dichloroethane	ND	3.0	13	ug/L	25	10/11/2017	10/11/2017 20:53	EPA 8260B	
1,1-Dichloroethene	ND	3.5	13	ug/L	25	10/11/2017	10/11/2017 20:53	EPA 8260B	
1,1-Dichloropropene	ND	2.8	13	ug/L	25	10/11/2017	10/11/2017 20:53	EPA 8260B	
1,2,3-Trichlorobenzene	ND	1.1	50	ug/L	25	10/11/2017	10/11/2017 20:53	EPA 8260B	
1,2,3-Trichloropropane	ND	3.8	25	ug/L	25	10/11/2017	10/11/2017 20:53	EPA 8260B	
1,2,4-Trichlorobenzene	ND	1.9	50	ug/L	25	10/11/2017	10/11/2017 20:53	EPA 8260B	
1,2,4-Trimethylbenzene	ND	1.5	13	ug/L	25	10/11/2017	10/11/2017 20:53	EPA 8260B	
1,2-Dibromo-3-chloropropane	ND	6.3	13	ug/L	25	10/11/2017	10/11/2017 20:53	EPA 8260B	
1,2-Dibromoethane (EDB)	ND	3.3	13	ug/L	25	10/11/2017	10/11/2017 20:53	EPA 8260B	
1,2-Dichlorobenzene	ND	1.9	13	ug/L	25	10/11/2017	10/11/2017 20:53	EPA 8260B	
1,2-Dichloroethane	ND	2.0	13	ug/L	25	10/11/2017	10/11/2017 20:53	EPA 8260B	
1,2-Dichloropropane	ND	2.5	13	ug/L	25	10/11/2017	10/11/2017 20:53	EPA 8260B	
1,3,5-Trimethylbenzene	ND	1.9	13	ug/L	25	10/11/2017	10/11/2017 20:53	EPA 8260B	
1,3-Dichlorobenzene	ND	2.4	13	ug/L	25	10/11/2017	10/11/2017 20:53	EPA 8260B	
1,3-Dichloropropane	ND	2.8	13	ug/L	25	10/11/2017	10/11/2017 20:53	EPA 8260B	
1,4-Dichlorobenzene	ND	1.8	13	ug/L	25	10/11/2017	10/11/2017 20:53	EPA 8260B	
2,2-Dichloropropane	ND	3.5	13	ug/L	25	10/11/2017	10/11/2017 20:53	EPA 8260B	
2-Butanone	ND	75	500	ug/L	25	10/11/2017	10/11/2017 20:53	EPA 8260B	
2-Chlorotoluene	ND	1.9	13	ug/L	25	10/11/2017	10/11/2017 20:53	EPA 8260B	
2-Hexanone	ND	24	500	ug/L	25	10/11/2017	10/11/2017 20:53	EPA 8260B	
4-Chlorotoluene	ND	1.8	13	ug/L	25	10/11/2017	10/11/2017 20:53	EPA 8260B	
4-Methyl-2-pentanone	ND	19	500	ug/L	25	10/11/2017	10/11/2017 20:53	EPA 8260B	
Acetone	ND	85	500	ug/L	25	10/11/2017	10/11/2017 20:53	EPA 8260B	
Benzene	ND	2.2	13	ug/L	25	10/11/2017	10/11/2017 20:53	EPA 8260B	
Bromobenzene	ND	2.1	13	ug/L	25	10/11/2017	10/11/2017 20:53	EPA 8260B	
Bromochloromethane	ND	7.8	13	ug/L	25	10/11/2017	10/11/2017 20:53	EPA 8260B	
Bromodichloromethane	ND	1.9	13	ug/L	25	10/11/2017	10/11/2017 20:53	EPA 8260B	
Bromoform	ND	2.2	13	ug/L	25	10/11/2017	10/11/2017 20:53	EPA 8260B	
Bromomethane	ND	15	130	ug/L	25	10/11/2017	10/11/2017 20:53	EPA 8260B	
Carbon disulfide	ND	1.3	13	ug/L	25	10/11/2017	10/11/2017 20:53	EPA 8260B	
Carbon tetrachloride	ND	0.95	13	ug/L	25	10/11/2017	10/11/2017 20:53	EPA 8260B	
Chlorobenzene	ND	1.8	13	ug/L	25	10/11/2017	10/11/2017 20:53	EPA 8260B	
Chloroethane	ND	6.3	130	ug/L	25	10/11/2017	10/11/2017 20:53	EPA 8260B	
Chloroform	ND	1.6	13	ug/L	25	10/11/2017	10/11/2017 20:53	EPA 8260B	
Chloromethane	ND	4.0	50	ug/L	25	10/11/2017	10/11/2017 20:53	EPA 8260B	

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Project Number: 266431
Project Manager: Andrew Stehn

MP-13 Port 4 (102-106)

A174009-15 (Water)

Date Sampled
10/03/2017 11:35

Pace Analytical - Madison

Volatile Organic Compounds by Method 8260 - Purge and Trap — **Preparation Batch: A710036**

Analyte	Result	Limit of Detection	Limit of Quantitation	Units	Dilution	Prepared	Analyzed	Method	Qualifiers
cis-1,2-Dichloroethene	**350**	2.8	13	ug/L	25	10/11/2017	10/11/2017 20:53	EPA 8260B	D
cis-1,3-Dichloropropene	ND	1.5	13	ug/L	25	10/11/2017	10/11/2017 20:53	EPA 8260B	
Dibromochloromethane	ND	2.3	13	ug/L	25	10/11/2017	10/11/2017 20:53	EPA 8260B	
Dibromomethane	ND	3.5	13	ug/L	25	10/11/2017	10/11/2017 20:53	EPA 8260B	
Dichlorodifluoromethane	ND	2.8	13	ug/L	25	10/11/2017	10/11/2017 20:53	EPA 8260B	
Diisopropyl Ether	ND	3.8	13	ug/L	25	10/11/2017	10/11/2017 20:53	EPA 8260B	
Ethylbenzene	ND	1.4	13	ug/L	25	10/11/2017	10/11/2017 20:53	EPA 8260B	
Hexachlorobutadiene	ND	3.3	50	ug/L	25	10/11/2017	10/11/2017 20:53	EPA 8260B	
Isopropylbenzene	ND	2.0	13	ug/L	25	10/11/2017	10/11/2017 20:53	EPA 8260B	
m,p-Xylene	ND	1.4	25	ug/L	25	10/11/2017	10/11/2017 20:53	EPA 8260B	
Methyl t-Butyl Ether	ND	3.5	13	ug/L	25	10/11/2017	10/11/2017 20:53	EPA 8260B	
Methylene chloride	ND	3.5	50	ug/L	25	10/11/2017	10/11/2017 20:53	EPA 8260B	
Naphthalene	ND	2.2	130	ug/L	25	10/11/2017	10/11/2017 20:53	EPA 8260B	
n-Butyl Benzene	ND	3.5	13	ug/L	25	10/11/2017	10/11/2017 20:53	EPA 8260B	
n-Hexane	ND	5.3	13	ug/L	25	10/11/2017	10/11/2017 20:53	EPA 8260B	
n-Propyl Benzene	ND	2.5	13	ug/L	25	10/11/2017	10/11/2017 20:53	EPA 8260B	
o-Xylene	ND	1.5	13	ug/L	25	10/11/2017	10/11/2017 20:53	EPA 8260B	
p-Isopropyltoluene	ND	2.1	13	ug/L	25	10/11/2017	10/11/2017 20:53	EPA 8260B	
sec-Butyl Benzene	ND	3.3	13	ug/L	25	10/11/2017	10/11/2017 20:53	EPA 8260B	
Styrene	**1.8**	1.6	13	ug/L	25	10/11/2017	10/11/2017 20:53	EPA 8260B	B, J, D
tert-Butylbenzene	ND	3.0	13	ug/L	25	10/11/2017	10/11/2017 20:53	EPA 8260B	
Tetrachloroethene	**970**	2.0	13	ug/L	25	10/11/2017	10/11/2017 20:53	EPA 8260B	D
Tetrahydrofuran	ND	30	250	ug/L	25	10/11/2017	10/11/2017 20:53	EPA 8260B	
Toluene	ND	1.3	13	ug/L	25	10/11/2017	10/11/2017 20:53	EPA 8260B	
trans-1,2-Dichloroethene	**7.3**	2.8	13	ug/L	25	10/11/2017	10/11/2017 20:53	EPA 8260B	J, D
trans-1,3-Dichloropropene	ND	2.4	13	ug/L	25	10/11/2017	10/11/2017 20:53	EPA 8260B	
Trichloroethene	**230**	1.6	13	ug/L	25	10/11/2017	10/11/2017 20:53	EPA 8260B	D
Trichlorofluoromethane	ND	3.3	13	ug/L	25	10/11/2017	10/11/2017 20:53	EPA 8260B	
Vinyl chloride	ND	4.0	13	ug/L	25	10/11/2017	10/11/2017 20:53	EPA 8260B	
Xylenes, total	ND	2.9	38	ug/L	25	10/11/2017	10/11/2017 20:53	EPA 8260B	
Surrogate: Dibromofluoromethane			*102 %*	*68.9-141*		*10/11/2017*	*10/11/2017 20:53*	*EPA 8260B*	
Surrogate: Toluene-d8			*95.4 %*	*73.3-114*		*10/11/2017*	*10/11/2017 20:53*	*EPA 8260B*	
Surrogate: 4-Bromofluorobenzene			*96.1 %*	*72.2-114*		*10/11/2017*	*10/11/2017 20:53*	*EPA 8260B*	

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TRC Environmental Corporation, Inc.
708 Heartland Trail, Ste 3000
Madison WI, 53717

Project: Madison Kipp Corp. Semi-Annual Sampling
Project Number: 266431
Project Manager: Andrew Stehn

MP-13 Port 5 (81-85)

A174009-16 (Water)

Date Sampled
10/03/2017 11:52

Pace Analytical - Madison

Volatile Organic Compounds by Method 8260 - Purge and Trap — **Preparation Batch: A710045**

Analyte	Result	Limit of Detection	Limit of Quantitation	Units	Dilution	Prepared	Analyzed	Method	Qualifiers
1,1,1,2-Tetrachloroethane	ND	11	50	ug/L	100	10/10/2017	10/11/2017 02:22	EPA 8260B	
1,1,1-Trichloroethane	ND	10	50	ug/L	100	10/10/2017	10/11/2017 02:22	EPA 8260B	
1,1,2,2-Tetrachloroethane	ND	9.9	50	ug/L	100	10/10/2017	10/11/2017 02:22	EPA 8260B	
1,1,2-Trichloroethane	ND	10	50	ug/L	100	10/10/2017	10/11/2017 02:22	EPA 8260B	
1,1,2-Trichlorotrifluoroethane	ND	13	50	ug/L	100	10/10/2017	10/11/2017 02:22	EPA 8260B	
1,1-Dichloroethane	ND	12	50	ug/L	100	10/10/2017	10/11/2017 02:22	EPA 8260B	
1,1-Dichloroethene	ND	14	50	ug/L	100	10/10/2017	10/11/2017 02:22	EPA 8260B	
1,1-Dichloropropene	ND	11	50	ug/L	100	10/10/2017	10/11/2017 02:22	EPA 8260B	
1,2,3-Trichlorobenzene	ND	4.5	200	ug/L	100	10/10/2017	10/11/2017 02:22	EPA 8260B	
1,2,3-Trichloropropane	ND	15	100	ug/L	100	10/10/2017	10/11/2017 02:22	EPA 8260B	
1,2,4-Trichlorobenzene	ND	7.7	200	ug/L	100	10/10/2017	10/11/2017 02:22	EPA 8260B	
1,2,4-Trimethylbenzene	ND	6.0	50	ug/L	100	10/10/2017	10/11/2017 02:22	EPA 8260B	
1,2-Dibromo-3-chloropropane	ND	25	50	ug/L	100	10/10/2017	10/11/2017 02:22	EPA 8260B	
1,2-Dibromoethane (EDB)	ND	13	50	ug/L	100	10/10/2017	10/11/2017 02:22	EPA 8260B	
1,2-Dichlorobenzene	ND	7.6	50	ug/L	100	10/10/2017	10/11/2017 02:22	EPA 8260B	
1,2-Dichloroethane	ND	7.8	50	ug/L	100	10/10/2017	10/11/2017 02:22	EPA 8260B	
1,2-Dichloropropane	ND	10	50	ug/L	100	10/10/2017	10/11/2017 02:22	EPA 8260B	
1,3,5-Trimethylbenzene	ND	7.5	50	ug/L	100	10/10/2017	10/11/2017 02:22	EPA 8260B	
1,3-Dichlorobenzene	ND	9.6	50	ug/L	100	10/10/2017	10/11/2017 02:22	EPA 8260B	
1,3-Dichloropropane	ND	11	50	ug/L	100	10/10/2017	10/11/2017 02:22	EPA 8260B	
1,4-Dichlorobenzene	ND	7.0	50	ug/L	100	10/10/2017	10/11/2017 02:22	EPA 8260B	
2,2-Dichloropropane	ND	14	50	ug/L	100	10/10/2017	10/11/2017 02:22	EPA 8260B	
2-Butanone	ND	300	2000	ug/L	100	10/10/2017	10/11/2017 02:22	EPA 8260B	
2-Chlorotoluene	ND	7.5	50	ug/L	100	10/10/2017	10/11/2017 02:22	EPA 8260B	
2-Hexanone	ND	95	2000	ug/L	100	10/10/2017	10/11/2017 02:22	EPA 8260B	
4-Chlorotoluene	ND	7.3	50	ug/L	100	10/10/2017	10/11/2017 02:22	EPA 8260B	
4-Methyl-2-pentanone	ND	77	2000	ug/L	100	10/10/2017	10/11/2017 02:22	EPA 8260B	
Acetone	**500**	340	2000	ug/L	100	10/10/2017	10/11/2017 02:22	EPA 8260B	J, D
Benzene	ND	8.9	50	ug/L	100	10/10/2017	10/11/2017 02:22	EPA 8260B	
Bromobenzene	ND	8.4	50	ug/L	100	10/10/2017	10/11/2017 02:22	EPA 8260B	
Bromochloromethane	ND	31	50	ug/L	100	10/10/2017	10/11/2017 02:22	EPA 8260B	
Bromodichloromethane	ND	7.7	50	ug/L	100	10/10/2017	10/11/2017 02:22	EPA 8260B	
Bromoform	ND	8.8	50	ug/L	100	10/10/2017	10/11/2017 02:22	EPA 8260B	
Bromomethane	ND	59	500	ug/L	100	10/10/2017	10/11/2017 02:22	EPA 8260B	
Carbon disulfide	ND	5.3	50	ug/L	100	10/10/2017	10/11/2017 02:22	EPA 8260B	
Carbon tetrachloride	ND	3.8	50	ug/L	100	10/10/2017	10/11/2017 02:22	EPA 8260B	
Chlorobenzene	ND	7.3	50	ug/L	100	10/10/2017	10/11/2017 02:22	EPA 8260B	
Chloroethane	ND	25	500	ug/L	100	10/10/2017	10/11/2017 02:22	EPA 8260B	
Chloroform	ND	6.2	50	ug/L	100	10/10/2017	10/11/2017 02:22	EPA 8260B	
Chloromethane	ND	16	200	ug/L	100	10/10/2017	10/11/2017 02:22	EPA 8260B	HC

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708 Heartland Trail, Ste 3000	Project Number: 266431
Madison WI, 53717	Project Manager: Andrew Stehn

MP-13 Port 5 (81-85)

A174009-16 (Water)

Date Sampled
10/03/2017 11:52

Pace Analytical - Madison

Volatile Organic Compounds by Method 8260 - Purge and Trap — **Preparation Batch: A710045**

Analyte	Result	Limit of Detection	Limit of Quantitation	Units	Dilution	Prepared	Analyzed	Method	Qualifiers
cis-1,2-Dichloroethene	**670**	11	50	ug/L	100	10/10/2017	10/11/2017 02:22	EPA 8260B	D
cis-1,3-Dichloropropene	ND	6.1	50	ug/L	100	10/10/2017	10/11/2017 02:22	EPA 8260B	
Dibromochloromethane	ND	9.1	50	ug/L	100	10/10/2017	10/11/2017 02:22	EPA 8260B	
Dibromomethane	ND	14	50	ug/L	100	10/10/2017	10/11/2017 02:22	EPA 8260B	
Dichlorodifluoromethane	ND	11	50	ug/L	100	10/10/2017	10/11/2017 02:22	EPA 8260B	
Diisopropyl Ether	ND	15	50	ug/L	100	10/10/2017	10/11/2017 02:22	EPA 8260B	
Ethylbenzene	ND	5.4	50	ug/L	100	10/10/2017	10/11/2017 02:22	EPA 8260B	
Hexachlorobutadiene	ND	13	200	ug/L	100	10/10/2017	10/11/2017 02:22	EPA 8260B	
Isopropylbenzene	ND	8.1	50	ug/L	100	10/10/2017	10/11/2017 02:22	EPA 8260B	
m,p-Xylene	**6.0**	5.7	100	ug/L	100	10/10/2017	10/11/2017 02:22	EPA 8260B	B, J, D
Methyl t-Butyl Ether	ND	14	50	ug/L	100	10/10/2017	10/11/2017 02:22	EPA 8260B	
Methylene chloride	ND	14	200	ug/L	100	10/10/2017	10/11/2017 02:22	EPA 8260B	
Naphthalene	ND	8.8	500	ug/L	100	10/10/2017	10/11/2017 02:22	EPA 8260B	
n-Butyl Benzene	ND	14	50	ug/L	100	10/10/2017	10/11/2017 02:22	EPA 8260B	
n-Hexane	ND	21	50	ug/L	100	10/10/2017	10/11/2017 02:22	EPA 8260B	
n-Propyl Benzene	ND	10	50	ug/L	100	10/10/2017	10/11/2017 02:22	EPA 8260B	
o-Xylene	ND	5.8	50	ug/L	100	10/10/2017	10/11/2017 02:22	EPA 8260B	
p-Isopropyltoluene	ND	8.5	50	ug/L	100	10/10/2017	10/11/2017 02:22	EPA 8260B	
sec-Butyl Benzene	ND	13	50	ug/L	100	10/10/2017	10/11/2017 02:22	EPA 8260B	
Styrene	ND	6.5	50	ug/L	100	10/10/2017	10/11/2017 02:22	EPA 8260B	
tert-Butylbenzene	ND	12	50	ug/L	100	10/10/2017	10/11/2017 02:22	EPA 8260B	
Tetrachloroethene	**3200**	8.1	50	ug/L	100	10/10/2017	10/11/2017 02:22	EPA 8260B	D
Tetrahydrofuran	ND	120	1000	ug/L	100	10/10/2017	10/11/2017 02:22	EPA 8260B	
Toluene	ND	5.3	50	ug/L	100	10/10/2017	10/11/2017 02:22	EPA 8260B	
trans-1,2-Dichloroethene	**12**	11	50	ug/L	100	10/10/2017	10/11/2017 02:22	EPA 8260B	J, D
trans-1,3-Dichloropropene	ND	9.6	50	ug/L	100	10/10/2017	10/11/2017 02:22	EPA 8260B	
Trichloroethene	**390**	6.2	50	ug/L	100	10/10/2017	10/11/2017 02:22	EPA 8260B	D
Trichlorofluoromethane	ND	13	50	ug/L	100	10/10/2017	10/11/2017 02:22	EPA 8260B	
Vinyl chloride	**54**	16	50	ug/L	100	10/10/2017	10/11/2017 02:22	EPA 8260B	HC, D
Xylenes, total	ND	12	150	ug/L	100	10/10/2017	10/11/2017 02:22	EPA 8260B	
Surrogate: Dibromofluoromethane			*108 %*	*68.9-141*		*10/10/2017*	*10/11/2017 02:22*	*EPA 8260B*	
Surrogate: Toluene-d8			*96.8 %*	*73.3-114*		*10/10/2017*	*10/11/2017 02:22*	*EPA 8260B*	
Surrogate: 4-Bromofluorobenzene			*88.4 %*	*72.2-114*		*10/10/2017*	*10/11/2017 02:22*	*EPA 8260B*	

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708 Heartland Trail, Ste 3000	Project Number: 266431
Madison WI, 53717	Project Manager: Andrew Stehn

MP-13 Port 6 (67-71)

A174009-17 (Water)

Date Sampled
10/03/2017 12:08

Pace Analytical - Madison

Volatile Organic Compounds by Method 8260 - Purge and Trap — **Preparation Batch: A710036**

Analyte	Result	Limit of Detection	Limit of Quantitation	Units	Dilution	Prepared	Analyzed	Method	Qualifiers
1,1,1,2-Tetrachloroethane	ND	0.22	1.0	ug/L	2	10/11/2017	10/11/2017 19:01	EPA 8260B	
1,1,1-Trichloroethane	ND	0.20	1.0	ug/L	2	10/11/2017	10/11/2017 19:01	EPA 8260B	
1,1,2,2-Tetrachloroethane	ND	0.20	1.0	ug/L	2	10/11/2017	10/11/2017 19:01	EPA 8260B	
1,1,2-Trichloroethane	ND	0.20	1.0	ug/L	2	10/11/2017	10/11/2017 19:01	EPA 8260B	
1,1,2-Trichlorotrifluoroethane	ND	0.26	1.0	ug/L	2	10/11/2017	10/11/2017 19:01	EPA 8260B	
1,1-Dichloroethane	ND	0.24	1.0	ug/L	2	10/11/2017	10/11/2017 19:01	EPA 8260B	
1,1-Dichloroethene	ND	0.28	1.0	ug/L	2	10/11/2017	10/11/2017 19:01	EPA 8260B	
1,1-Dichloropropene	ND	0.22	1.0	ug/L	2	10/11/2017	10/11/2017 19:01	EPA 8260B	
1,2,3-Trichlorobenzene	ND	0.090	4.0	ug/L	2	10/11/2017	10/11/2017 19:01	EPA 8260B	
1,2,3-Trichloropropane	ND	0.30	2.0	ug/L	2	10/11/2017	10/11/2017 19:01	EPA 8260B	
1,2,4-Trichlorobenzene	ND	0.15	4.0	ug/L	2	10/11/2017	10/11/2017 19:01	EPA 8260B	
1,2,4-Trimethylbenzene	ND	0.12	1.0	ug/L	2	10/11/2017	10/11/2017 19:01	EPA 8260B	
1,2-Dibromo-3-chloropropane	ND	0.50	1.0	ug/L	2	10/11/2017	10/11/2017 19:01	EPA 8260B	
1,2-Dibromoethane (EDB)	ND	0.26	1.0	ug/L	2	10/11/2017	10/11/2017 19:01	EPA 8260B	
1,2-Dichlorobenzene	ND	0.15	1.0	ug/L	2	10/11/2017	10/11/2017 19:01	EPA 8260B	
1,2-Dichloroethane	ND	0.16	1.0	ug/L	2	10/11/2017	10/11/2017 19:01	EPA 8260B	
1,2-Dichloropropane	ND	0.20	1.0	ug/L	2	10/11/2017	10/11/2017 19:01	EPA 8260B	
1,3,5-Trimethylbenzene	ND	0.15	1.0	ug/L	2	10/11/2017	10/11/2017 19:01	EPA 8260B	
1,3-Dichlorobenzene	ND	0.19	1.0	ug/L	2	10/11/2017	10/11/2017 19:01	EPA 8260B	
1,3-Dichloropropane	ND	0.22	1.0	ug/L	2	10/11/2017	10/11/2017 19:01	EPA 8260B	
1,4-Dichlorobenzene	ND	0.14	1.0	ug/L	2	10/11/2017	10/11/2017 19:01	EPA 8260B	
2,2-Dichloropropane	ND	0.28	1.0	ug/L	2	10/11/2017	10/11/2017 19:01	EPA 8260B	
2-Butanone	ND	6.0	40	ug/L	2	10/11/2017	10/11/2017 19:01	EPA 8260B	
2-Chlorotoluene	ND	0.15	1.0	ug/L	2	10/11/2017	10/11/2017 19:01	EPA 8260B	
2-Hexanone	ND	1.9	40	ug/L	2	10/11/2017	10/11/2017 19:01	EPA 8260B	
4-Chlorotoluene	ND	0.15	1.0	ug/L	2	10/11/2017	10/11/2017 19:01	EPA 8260B	
4-Methyl-2-pentanone	ND	1.5	40	ug/L	2	10/11/2017	10/11/2017 19:01	EPA 8260B	
Acetone	ND	6.8	40	ug/L	2	10/11/2017	10/11/2017 19:01	EPA 8260B	
Benzene	ND	0.18	1.0	ug/L	2	10/11/2017	10/11/2017 19:01	EPA 8260B	
Bromobenzene	ND	0.17	1.0	ug/L	2	10/11/2017	10/11/2017 19:01	EPA 8260B	
Bromochloromethane	ND	0.62	1.0	ug/L	2	10/11/2017	10/11/2017 19:01	EPA 8260B	
Bromodichloromethane	ND	0.15	1.0	ug/L	2	10/11/2017	10/11/2017 19:01	EPA 8260B	
Bromoform	ND	0.18	1.0	ug/L	2	10/11/2017	10/11/2017 19:01	EPA 8260B	
Bromomethane	ND	1.2	10	ug/L	2	10/11/2017	10/11/2017 19:01	EPA 8260B	
Carbon disulfide	ND	0.11	1.0	ug/L	2	10/11/2017	10/11/2017 19:01	EPA 8260B	
Carbon tetrachloride	ND	0.076	1.0	ug/L	2	10/11/2017	10/11/2017 19:01	EPA 8260B	
Chlorobenzene	ND	0.15	1.0	ug/L	2	10/11/2017	10/11/2017 19:01	EPA 8260B	
Chloroethane	ND	0.50	10	ug/L	2	10/11/2017	10/11/2017 19:01	EPA 8260B	
Chloroform	**0.18**	0.12	1.0	ug/L	2	10/11/2017	10/11/2017 19:01	EPA 8260B	J, D
Chloromethane	ND	0.32	4.0	ug/L	2	10/11/2017	10/11/2017 19:01	EPA 8260B	

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Project: Madison Kipp Corp. Semi-Annual Sampling
Project Number: 266431
Project Manager: Andrew Stehn

MP-13 Port 6 (67-71)

A174009-17 (Water)

Date Sampled
10/03/2017 12:08

Pace Analytical - Madison

Volatile Organic Compounds by Method 8260 - Purge and Trap — **Preparation Batch: A710036**

Analyte	Result	Limit of Detection	Limit of Quantitation	Units	Dilution	Prepared	Analyzed	Method	Qualifiers
cis-1,2-Dichloroethene	**24**	0.22	1.0	ug/L	2	10/11/2017	10/11/2017 19:01	EPA 8260B	D
cis-1,3-Dichloropropene	ND	0.12	1.0	ug/L	2	10/11/2017	10/11/2017 19:01	EPA 8260B	
Dibromochloromethane	ND	0.18	1.0	ug/L	2	10/11/2017	10/11/2017 19:01	EPA 8260B	
Dibromomethane	ND	0.28	1.0	ug/L	2	10/11/2017	10/11/2017 19:01	EPA 8260B	
Dichlorodifluoromethane	ND	0.22	1.0	ug/L	2	10/11/2017	10/11/2017 19:01	EPA 8260B	
Diisopropyl Ether	ND	0.30	1.0	ug/L	2	10/11/2017	10/11/2017 19:01	EPA 8260B	
Ethylbenzene	ND	0.11	1.0	ug/L	2	10/11/2017	10/11/2017 19:01	EPA 8260B	
Hexachlorobutadiene	ND	0.26	4.0	ug/L	2	10/11/2017	10/11/2017 19:01	EPA 8260B	
Isopropylbenzene	ND	0.16	1.0	ug/L	2	10/11/2017	10/11/2017 19:01	EPA 8260B	
m,p-Xylene	ND	0.11	2.0	ug/L	2	10/11/2017	10/11/2017 19:01	EPA 8260B	
Methyl t-Butyl Ether	ND	0.28	1.0	ug/L	2	10/11/2017	10/11/2017 19:01	EPA 8260B	
Methylene chloride	ND	0.28	4.0	ug/L	2	10/11/2017	10/11/2017 19:01	EPA 8260B	
Naphthalene	ND	0.18	10	ug/L	2	10/11/2017	10/11/2017 19:01	EPA 8260B	
n-Butyl Benzene	ND	0.28	1.0	ug/L	2	10/11/2017	10/11/2017 19:01	EPA 8260B	
n-Hexane	ND	0.42	1.0	ug/L	2	10/11/2017	10/11/2017 19:01	EPA 8260B	
n-Propyl Benzene	ND	0.20	1.0	ug/L	2	10/11/2017	10/11/2017 19:01	EPA 8260B	
o-Xylene	ND	0.12	1.0	ug/L	2	10/11/2017	10/11/2017 19:01	EPA 8260B	
p-Isopropyltoluene	ND	0.17	1.0	ug/L	2	10/11/2017	10/11/2017 19:01	EPA 8260B	
sec-Butyl Benzene	ND	0.26	1.0	ug/L	2	10/11/2017	10/11/2017 19:01	EPA 8260B	
Styrene	ND	0.13	1.0	ug/L	2	10/11/2017	10/11/2017 19:01	EPA 8260B	
tert-Butylbenzene	ND	0.24	1.0	ug/L	2	10/11/2017	10/11/2017 19:01	EPA 8260B	
Tetrachloroethene	**84**	0.16	1.0	ug/L	2	10/11/2017	10/11/2017 19:01	EPA 8260B	D
Tetrahydrofuran	ND	2.4	20	ug/L	2	10/11/2017	10/11/2017 19:01	EPA 8260B	
Toluene	ND	0.11	1.0	ug/L	2	10/11/2017	10/11/2017 19:01	EPA 8260B	
trans-1,2-Dichloroethene	**0.48**	0.22	1.0	ug/L	2	10/11/2017	10/11/2017 19:01	EPA 8260B	J, D
trans-1,3-Dichloropropene	ND	0.19	1.0	ug/L	2	10/11/2017	10/11/2017 19:01	EPA 8260B	
Trichloroethene	**18**	0.12	1.0	ug/L	2	10/11/2017	10/11/2017 19:01	EPA 8260B	D
Trichlorofluoromethane	ND	0.26	1.0	ug/L	2	10/11/2017	10/11/2017 19:01	EPA 8260B	
Vinyl chloride	**0.60**	0.32	1.0	ug/L	2	10/11/2017	10/11/2017 19:01	EPA 8260B	J, D
Xylenes, total	ND	0.23	3.0	ug/L	2	10/11/2017	10/11/2017 19:01	EPA 8260B	
Surrogate: Dibromofluoromethane			*104 %*	*68.9-141*		*10/11/2017*	*10/11/2017 19:01*	*EPA 8260B*	
Surrogate: Toluene-d8			*101 %*	*73.3-114*		*10/11/2017*	*10/11/2017 19:01*	*EPA 8260B*	
Surrogate: 4-Bromofluorobenzene			*98.3 %*	*72.2-114*		*10/11/2017*	*10/11/2017 19:01*	*EPA 8260B*	

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708 Heartland Trail, Ste 3000	Project Number: 266431
Madison WI, 53717	Project Manager: Andrew Stehn

MP-13 Port 7 (44-48)

A174009-18 (Water)

Date Sampled
10/03/2017 12:25

Pace Analytical - Madison

Volatile Organic Compounds by Method 8260 - Purge and Trap — **Preparation Batch: A710036**

Analyte	Result	Limit of Detection	Limit of Quantitation	Units	Dilution	Prepared	Analyzed	Method	Qualifiers
1,1,1,2-Tetrachloroethane	ND	0.44	2.0	ug/L	4	10/11/2017	10/11/2017 19:57	EPA 8260B	
1,1,1-Trichloroethane	ND	0.40	2.0	ug/L	4	10/11/2017	10/11/2017 19:57	EPA 8260B	
1,1,2,2-Tetrachloroethane	ND	0.40	2.0	ug/L	4	10/11/2017	10/11/2017 19:57	EPA 8260B	
1,1,2-Trichloroethane	ND	0.40	2.0	ug/L	4	10/11/2017	10/11/2017 19:57	EPA 8260B	
1,1,2-Trichlorotrifluoroethane	ND	0.52	2.0	ug/L	4	10/11/2017	10/11/2017 19:57	EPA 8260B	
1,1-Dichloroethane	ND	0.48	2.0	ug/L	4	10/11/2017	10/11/2017 19:57	EPA 8260B	
1,1-Dichloroethene	ND	0.56	2.0	ug/L	4	10/11/2017	10/11/2017 19:57	EPA 8260B	
1,1-Dichloropropene	ND	0.44	2.0	ug/L	4	10/11/2017	10/11/2017 19:57	EPA 8260B	
1,2,3-Trichlorobenzene	ND	0.18	8.0	ug/L	4	10/11/2017	10/11/2017 19:57	EPA 8260B	
1,2,3-Trichloropropane	ND	0.60	4.0	ug/L	4	10/11/2017	10/11/2017 19:57	EPA 8260B	
1,2,4-Trichlorobenzene	ND	0.31	8.0	ug/L	4	10/11/2017	10/11/2017 19:57	EPA 8260B	
1,2,4-Trimethylbenzene	ND	0.24	2.0	ug/L	4	10/11/2017	10/11/2017 19:57	EPA 8260B	
1,2-Dibromo-3-chloropropane	ND	1.0	2.0	ug/L	4	10/11/2017	10/11/2017 19:57	EPA 8260B	
1,2-Dibromoethane (EDB)	ND	0.52	2.0	ug/L	4	10/11/2017	10/11/2017 19:57	EPA 8260B	
1,2-Dichlorobenzene	ND	0.30	2.0	ug/L	4	10/11/2017	10/11/2017 19:57	EPA 8260B	
1,2-Dichloroethane	ND	0.31	2.0	ug/L	4	10/11/2017	10/11/2017 19:57	EPA 8260B	
1,2-Dichloropropane	ND	0.40	2.0	ug/L	4	10/11/2017	10/11/2017 19:57	EPA 8260B	
1,3,5-Trimethylbenzene	ND	0.30	2.0	ug/L	4	10/11/2017	10/11/2017 19:57	EPA 8260B	
1,3-Dichlorobenzene	ND	0.38	2.0	ug/L	4	10/11/2017	10/11/2017 19:57	EPA 8260B	
1,3-Dichloropropane	ND	0.44	2.0	ug/L	4	10/11/2017	10/11/2017 19:57	EPA 8260B	
1,4-Dichlorobenzene	ND	0.28	2.0	ug/L	4	10/11/2017	10/11/2017 19:57	EPA 8260B	
2,2-Dichloropropane	ND	0.56	2.0	ug/L	4	10/11/2017	10/11/2017 19:57	EPA 8260B	
2-Butanone	ND	12	80	ug/L	4	10/11/2017	10/11/2017 19:57	EPA 8260B	
2-Chlorotoluene	ND	0.30	2.0	ug/L	4	10/11/2017	10/11/2017 19:57	EPA 8260B	
2-Hexanone	ND	3.8	80	ug/L	4	10/11/2017	10/11/2017 19:57	EPA 8260B	
4-Chlorotoluene	ND	0.29	2.0	ug/L	4	10/11/2017	10/11/2017 19:57	EPA 8260B	
4-Methyl-2-pentanone	ND	3.1	80	ug/L	4	10/11/2017	10/11/2017 19:57	EPA 8260B	
Acetone	ND	14	80	ug/L	4	10/11/2017	10/11/2017 19:57	EPA 8260B	
Benzene	ND	0.36	2.0	ug/L	4	10/11/2017	10/11/2017 19:57	EPA 8260B	
Bromobenzene	ND	0.34	2.0	ug/L	4	10/11/2017	10/11/2017 19:57	EPA 8260B	
Bromochloromethane	ND	1.2	2.0	ug/L	4	10/11/2017	10/11/2017 19:57	EPA 8260B	
Bromodichloromethane	ND	0.31	2.0	ug/L	4	10/11/2017	10/11/2017 19:57	EPA 8260B	
Bromoform	ND	0.35	2.0	ug/L	4	10/11/2017	10/11/2017 19:57	EPA 8260B	
Bromomethane	ND	2.4	20	ug/L	4	10/11/2017	10/11/2017 19:57	EPA 8260B	
Carbon disulfide	ND	0.21	2.0	ug/L	4	10/11/2017	10/11/2017 19:57	EPA 8260B	
Carbon tetrachloride	ND	0.15	2.0	ug/L	4	10/11/2017	10/11/2017 19:57	EPA 8260B	
Chlorobenzene	ND	0.29	2.0	ug/L	4	10/11/2017	10/11/2017 19:57	EPA 8260B	
Chloroethane	ND	1.0	20	ug/L	4	10/11/2017	10/11/2017 19:57	EPA 8260B	
Chloroform	ND	0.25	2.0	ug/L	4	10/11/2017	10/11/2017 19:57	EPA 8260B	
Chloromethane	ND	0.64	8.0	ug/L	4	10/11/2017	10/11/2017 19:57	EPA 8260B	

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Madison WI, 53717

Project: Madison Kipp Corp. Semi-Annual Sampling
Project Number: 266431
Project Manager: Andrew Stehn

MP-13 Port 7 (44-48)

A174009-18 (Water)

Date Sampled
10/03/2017 12:25

Pace Analytical - Madison

Volatile Organic Compounds by Method 8260 - Purge and Trap — **Preparation Batch: A710036**

Analyte	Result	Limit of Detection	Limit of Quantitation	Units	Dilution	Prepared	Analyzed	Method	Qualifiers
cis-1,2-Dichloroethene	**50**	0.44	2.0	ug/L	4	10/11/2017	10/11/2017 19:57	EPA 8260B	D
cis-1,3-Dichloropropene	ND	0.24	2.0	ug/L	4	10/11/2017	10/11/2017 19:57	EPA 8260B	
Dibromochloromethane	ND	0.36	2.0	ug/L	4	10/11/2017	10/11/2017 19:57	EPA 8260B	
Dibromomethane	ND	0.56	2.0	ug/L	4	10/11/2017	10/11/2017 19:57	EPA 8260B	
Dichlorodifluoromethane	ND	0.44	2.0	ug/L	4	10/11/2017	10/11/2017 19:57	EPA 8260B	
Diisopropyl Ether	ND	0.60	2.0	ug/L	4	10/11/2017	10/11/2017 19:57	EPA 8260B	
Ethylbenzene	ND	0.22	2.0	ug/L	4	10/11/2017	10/11/2017 19:57	EPA 8260B	
Hexachlorobutadiene	ND	0.52	8.0	ug/L	4	10/11/2017	10/11/2017 19:57	EPA 8260B	
Isopropylbenzene	ND	0.32	2.0	ug/L	4	10/11/2017	10/11/2017 19:57	EPA 8260B	
m,p-Xylene	ND	0.23	4.0	ug/L	4	10/11/2017	10/11/2017 19:57	EPA 8260B	
Methyl t-Butyl Ether	ND	0.56	2.0	ug/L	4	10/11/2017	10/11/2017 19:57	EPA 8260B	
Methylene chloride	ND	0.56	8.0	ug/L	4	10/11/2017	10/11/2017 19:57	EPA 8260B	
Naphthalene	ND	0.35	20	ug/L	4	10/11/2017	10/11/2017 19:57	EPA 8260B	
n-Butyl Benzene	ND	0.56	2.0	ug/L	4	10/11/2017	10/11/2017 19:57	EPA 8260B	
n-Hexane	ND	0.84	2.0	ug/L	4	10/11/2017	10/11/2017 19:57	EPA 8260B	
n-Propyl Benzene	ND	0.40	2.0	ug/L	4	10/11/2017	10/11/2017 19:57	EPA 8260B	
o-Xylene	ND	0.23	2.0	ug/L	4	10/11/2017	10/11/2017 19:57	EPA 8260B	
p-Isopropyltoluene	ND	0.34	2.0	ug/L	4	10/11/2017	10/11/2017 19:57	EPA 8260B	
sec-Butyl Benzene	ND	0.52	2.0	ug/L	4	10/11/2017	10/11/2017 19:57	EPA 8260B	
Styrene	ND	0.26	2.0	ug/L	4	10/11/2017	10/11/2017 19:57	EPA 8260B	
tert-Butylbenzene	ND	0.48	2.0	ug/L	4	10/11/2017	10/11/2017 19:57	EPA 8260B	
Tetrachloroethene	**160**	0.32	2.0	ug/L	4	10/11/2017	10/11/2017 19:57	EPA 8260B	D
Tetrahydrofuran	ND	4.8	40	ug/L	4	10/11/2017	10/11/2017 19:57	EPA 8260B	
Toluene	ND	0.21	2.0	ug/L	4	10/11/2017	10/11/2017 19:57	EPA 8260B	
trans-1,2-Dichloroethene	**0.68**	0.44	2.0	ug/L	4	10/11/2017	10/11/2017 19:57	EPA 8260B	J, D
trans-1,3-Dichloropropene	ND	0.38	2.0	ug/L	4	10/11/2017	10/11/2017 19:57	EPA 8260B	
Trichloroethene	**59**	0.25	2.0	ug/L	4	10/11/2017	10/11/2017 19:57	EPA 8260B	D
Trichlorofluoromethane	ND	0.52	2.0	ug/L	4	10/11/2017	10/11/2017 19:57	EPA 8260B	
Vinyl chloride	**1.5**	0.64	2.0	ug/L	4	10/11/2017	10/11/2017 19:57	EPA 8260B	J, D
Xylenes, total	ND	0.46	6.0	ug/L	4	10/11/2017	10/11/2017 19:57	EPA 8260B	
Surrogate: Dibromofluoromethane			*101 %*	*68.9-141*		*10/11/2017*	*10/11/2017 19:57*	*EPA 8260B*	
Surrogate: Toluene-d8			*98.1 %*	*73.3-114*		*10/11/2017*	*10/11/2017 19:57*	*EPA 8260B*	
Surrogate: 4-Bromofluorobenzene			*96.5 %*	*72.2-114*		*10/11/2017*	*10/11/2017 19:57*	*EPA 8260B*	

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708 Heartland Trail, Ste 3000	Project Number: 266431
Madison WI, 53717	Project Manager: Andrew Stehn

MW-25D2

A174009-19 (Water)

Date Sampled
10/03/2017 14:46

Pace Analytical - Madison

Volatile Organic Compounds by Method 8260 - Purge and Trap — **Preparation Batch: A710028**

Analyte	Result	Limit of Detection	Limit of Quantitation	Units	Dilution	Prepared	Analyzed	Method	Qualifiers
1,1,1,2-Tetrachloroethane	ND	0.11	0.50	ug/L	1	10/10/2017	10/10/2017 12:14	EPA 8260B	
1,1,1-Trichloroethane	ND	0.10	0.50	ug/L	1	10/10/2017	10/10/2017 12:14	EPA 8260B	
1,1,2,2-Tetrachloroethane	ND	0.099	0.50	ug/L	1	10/10/2017	10/10/2017 12:14	EPA 8260B	
1,1,2-Trichloroethane	ND	0.10	0.50	ug/L	1	10/10/2017	10/10/2017 12:14	EPA 8260B	
1,1,2-Trichlorotrifluoroethane	ND	0.13	0.50	ug/L	1	10/10/2017	10/10/2017 12:14	EPA 8260B	
1,1-Dichloroethane	ND	0.12	0.50	ug/L	1	10/10/2017	10/10/2017 12:14	EPA 8260B	
1,1-Dichloroethene	ND	0.14	0.50	ug/L	1	10/10/2017	10/10/2017 12:14	EPA 8260B	
1,1-Dichloropropene	ND	0.11	0.50	ug/L	1	10/10/2017	10/10/2017 12:14	EPA 8260B	
1,2,3-Trichlorobenzene	ND	0.045	2.0	ug/L	1	10/10/2017	10/10/2017 12:14	EPA 8260B	
1,2,3-Trichloropropane	ND	0.15	1.0	ug/L	1	10/10/2017	10/10/2017 12:14	EPA 8260B	
1,2,4-Trichlorobenzene	ND	0.077	2.0	ug/L	1	10/10/2017	10/10/2017 12:14	EPA 8260B	
1,2,4-Trimethylbenzene	ND	0.060	0.50	ug/L	1	10/10/2017	10/10/2017 12:14	EPA 8260B	
1,2-Dibromo-3-chloropropane	ND	0.25	0.50	ug/L	1	10/10/2017	10/10/2017 12:14	EPA 8260B	
1,2-Dibromoethane (EDB)	ND	0.13	0.50	ug/L	1	10/10/2017	10/10/2017 12:14	EPA 8260B	
1,2-Dichlorobenzene	ND	0.076	0.50	ug/L	1	10/10/2017	10/10/2017 12:14	EPA 8260B	
1,2-Dichloroethane	ND	0.078	0.50	ug/L	1	10/10/2017	10/10/2017 12:14	EPA 8260B	
1,2-Dichloropropane	ND	0.10	0.50	ug/L	1	10/10/2017	10/10/2017 12:14	EPA 8260B	
1,3,5-Trimethylbenzene	ND	0.075	0.50	ug/L	1	10/10/2017	10/10/2017 12:14	EPA 8260B	
1,3-Dichlorobenzene	ND	0.096	0.50	ug/L	1	10/10/2017	10/10/2017 12:14	EPA 8260B	
1,3-Dichloropropane	ND	0.11	0.50	ug/L	1	10/10/2017	10/10/2017 12:14	EPA 8260B	
1,4-Dichlorobenzene	ND	0.070	0.50	ug/L	1	10/10/2017	10/10/2017 12:14	EPA 8260B	
2,2-Dichloropropane	ND	0.14	0.50	ug/L	1	10/10/2017	10/10/2017 12:14	EPA 8260B	
2-Butanone	ND	3.0	20	ug/L	1	10/10/2017	10/10/2017 12:14	EPA 8260B	
2-Chlorotoluene	ND	0.075	0.50	ug/L	1	10/10/2017	10/10/2017 12:14	EPA 8260B	
2-Hexanone	ND	0.95	20	ug/L	1	10/10/2017	10/10/2017 12:14	EPA 8260B	
4-Chlorotoluene	ND	0.073	0.50	ug/L	1	10/10/2017	10/10/2017 12:14	EPA 8260B	
4-Methyl-2-pentanone	ND	0.77	20	ug/L	1	10/10/2017	10/10/2017 12:14	EPA 8260B	
Acetone	ND	3.4	20	ug/L	1	10/10/2017	10/10/2017 12:14	EPA 8260B	
Benzene	ND	0.089	0.50	ug/L	1	10/10/2017	10/10/2017 12:14	EPA 8260B	
Bromobenzene	ND	0.084	0.50	ug/L	1	10/10/2017	10/10/2017 12:14	EPA 8260B	
Bromochloromethane	ND	0.31	0.50	ug/L	1	10/10/2017	10/10/2017 12:14	EPA 8260B	
Bromodichloromethane	ND	0.077	0.50	ug/L	1	10/10/2017	10/10/2017 12:14	EPA 8260B	
Bromoform	ND	0.088	0.50	ug/L	1	10/10/2017	10/10/2017 12:14	EPA 8260B	
Bromomethane	ND	0.59	5.0	ug/L	1	10/10/2017	10/10/2017 12:14	EPA 8260B	
Carbon disulfide	ND	0.053	0.50	ug/L	1	10/10/2017	10/10/2017 12:14	EPA 8260B	
Carbon tetrachloride	ND	0.038	0.50	ug/L	1	10/10/2017	10/10/2017 12:14	EPA 8260B	
Chlorobenzene	ND	0.073	0.50	ug/L	1	10/10/2017	10/10/2017 12:14	EPA 8260B	
Chloroethane	ND	0.25	5.0	ug/L	1	10/10/2017	10/10/2017 12:14	EPA 8260B	
Chloroform	ND	0.062	0.50	ug/L	1	10/10/2017	10/10/2017 12:14	EPA 8260B	
Chloromethane	**0.37**	0.16	2.0	ug/L	1	10/10/2017	10/10/2017 12:14	EPA 8260B	HC, J

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Project: Madison Kipp Corp. Semi-Annual Sampling
Project Number: 266431
Project Manager: Andrew Stehn

MW-25D2

A174009-19 (Water)

Date Sampled
10/03/2017 14:46

Pace Analytical - Madison

Volatile Organic Compounds by Method 8260 - Purge and Trap — **Preparation Batch: A710028**

Analyte	Result	Limit of Detection	Limit of Quantitation	Units	Dilution	Prepared	Analyzed	Method	Qualifiers
cis-1,2-Dichloroethene	ND	0.11	0.50	ug/L	1	10/10/2017	10/10/2017 12:14	EPA 8260B	
cis-1,3-Dichloropropene	ND	0.061	0.50	ug/L	1	10/10/2017	10/10/2017 12:14	EPA 8260B	
Dibromochloromethane	ND	0.091	0.50	ug/L	1	10/10/2017	10/10/2017 12:14	EPA 8260B	
Dibromomethane	ND	0.14	0.50	ug/L	1	10/10/2017	10/10/2017 12:14	EPA 8260B	
Dichlorodifluoromethane	ND	0.11	0.50	ug/L	1	10/10/2017	10/10/2017 12:14	EPA 8260B	
Diisopropyl Ether	ND	0.15	0.50	ug/L	1	10/10/2017	10/10/2017 12:14	EPA 8260B	
Ethylbenzene	ND	0.054	0.50	ug/L	1	10/10/2017	10/10/2017 12:14	EPA 8260B	
Hexachlorobutadiene	ND	0.13	2.0	ug/L	1	10/10/2017	10/10/2017 12:14	EPA 8260B	
Isopropylbenzene	ND	0.081	0.50	ug/L	1	10/10/2017	10/10/2017 12:14	EPA 8260B	
m,p-Xylene	ND	0.057	1.0	ug/L	1	10/10/2017	10/10/2017 12:14	EPA 8260B	
Methyl t-Butyl Ether	ND	0.14	0.50	ug/L	1	10/10/2017	10/10/2017 12:14	EPA 8260B	
Methylene chloride	ND	0.14	2.0	ug/L	1	10/10/2017	10/10/2017 12:14	EPA 8260B	
Naphthalene	ND	0.088	5.0	ug/L	1	10/10/2017	10/10/2017 12:14	EPA 8260B	
n-Butyl Benzene	ND	0.14	0.50	ug/L	1	10/10/2017	10/10/2017 12:14	EPA 8260B	
n-Hexane	ND	0.21	0.50	ug/L	1	10/10/2017	10/10/2017 12:14	EPA 8260B	
n-Propyl Benzene	ND	0.10	0.50	ug/L	1	10/10/2017	10/10/2017 12:14	EPA 8260B	
o-Xylene	ND	0.058	0.50	ug/L	1	10/10/2017	10/10/2017 12:14	EPA 8260B	
p-Isopropyltoluene	ND	0.085	0.50	ug/L	1	10/10/2017	10/10/2017 12:14	EPA 8260B	
sec-Butyl Benzene	ND	0.13	0.50	ug/L	1	10/10/2017	10/10/2017 12:14	EPA 8260B	
Styrene	**0.080**	0.065	0.50	ug/L	1	10/10/2017	10/10/2017 12:14	EPA 8260B	B, J
tert-Butylbenzene	ND	0.12	0.50	ug/L	1	10/10/2017	10/10/2017 12:14	EPA 8260B	
Tetrachloroethene	**0.10**	0.081	0.50	ug/L	1	10/10/2017	10/10/2017 12:14	EPA 8260B	J
Tetrahydrofuran	ND	1.2	10	ug/L	1	10/10/2017	10/10/2017 12:14	EPA 8260B	
Toluene	**0.070**	0.053	0.50	ug/L	1	10/10/2017	10/10/2017 12:14	EPA 8260B	B, J
trans-1,2-Dichloroethene	ND	0.11	0.50	ug/L	1	10/10/2017	10/10/2017 12:14	EPA 8260B	
trans-1,3-Dichloropropene	ND	0.096	0.50	ug/L	1	10/10/2017	10/10/2017 12:14	EPA 8260B	
Trichloroethene	ND	0.062	0.50	ug/L	1	10/10/2017	10/10/2017 12:14	EPA 8260B	
Trichlorofluoromethane	ND	0.13	0.50	ug/L	1	10/10/2017	10/10/2017 12:14	EPA 8260B	
Vinyl chloride	ND	0.16	0.50	ug/L	1	10/10/2017	10/10/2017 12:14	EPA 8260B	
Xylenes, total	ND	0.12	1.5	ug/L	1	10/10/2017	10/10/2017 12:14	EPA 8260B	
Surrogate: Dibromofluoromethane			*96.2 %*	*68.9-141*		*10/10/2017*	*10/10/2017 12:14*	*EPA 8260B*	
Surrogate: Toluene-d8			*96.3 %*	*73.3-114*		*10/10/2017*	*10/10/2017 12:14*	*EPA 8260B*	
Surrogate: 4-Bromofluorobenzene			*88.9 %*	*72.2-114*		*10/10/2017*	*10/10/2017 12:14*	*EPA 8260B*	

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TRC Environmental Corporation, Inc.
708 Heartland Trail, Ste 3000
Madison WI, 53717

Project: Madison Kipp Corp. Semi-Annual Sampling
Project Number: 266431
Project Manager: Andrew Stehn

MW-25D

A174009-20 (Water)

Date Sampled
10/03/2017 16:34

Pace Analytical - Madison

Volatile Organic Compounds by Method 8260 - Purge and Trap — **Preparation Batch: A710028**

Analyte	Result	Limit of Detection	Limit of Quantitation	Units	Dilution	Prepared	Analyzed	Method	Qualifiers
1,1,1,2-Tetrachloroethane	ND	0.11	0.50	ug/L	1	10/10/2017	10/10/2017 12:42	EPA 8260B	
1,1,1-Trichloroethane	ND	0.10	0.50	ug/L	1	10/10/2017	10/10/2017 12:42	EPA 8260B	
1,1,2,2-Tetrachloroethane	ND	0.099	0.50	ug/L	1	10/10/2017	10/10/2017 12:42	EPA 8260B	
1,1,2-Trichloroethane	ND	0.10	0.50	ug/L	1	10/10/2017	10/10/2017 12:42	EPA 8260B	
1,1,2-Trichlorotrifluoroethane	ND	0.13	0.50	ug/L	1	10/10/2017	10/10/2017 12:42	EPA 8260B	
1,1-Dichloroethane	ND	0.12	0.50	ug/L	1	10/10/2017	10/10/2017 12:42	EPA 8260B	
1,1-Dichloroethene	ND	0.14	0.50	ug/L	1	10/10/2017	10/10/2017 12:42	EPA 8260B	
1,1-Dichloropropene	ND	0.11	0.50	ug/L	1	10/10/2017	10/10/2017 12:42	EPA 8260B	
1,2,3-Trichlorobenzene	ND	0.045	2.0	ug/L	1	10/10/2017	10/10/2017 12:42	EPA 8260B	
1,2,3-Trichloropropane	ND	0.15	1.0	ug/L	1	10/10/2017	10/10/2017 12:42	EPA 8260B	
1,2,4-Trichlorobenzene	ND	0.077	2.0	ug/L	1	10/10/2017	10/10/2017 12:42	EPA 8260B	
1,2,4-Trimethylbenzene	ND	0.060	0.50	ug/L	1	10/10/2017	10/10/2017 12:42	EPA 8260B	
1,2-Dibromo-3-chloropropane	ND	0.25	0.50	ug/L	1	10/10/2017	10/10/2017 12:42	EPA 8260B	
1,2-Dibromoethane (EDB)	ND	0.13	0.50	ug/L	1	10/10/2017	10/10/2017 12:42	EPA 8260B	
1,2-Dichlorobenzene	ND	0.076	0.50	ug/L	1	10/10/2017	10/10/2017 12:42	EPA 8260B	
1,2-Dichloroethane	ND	0.078	0.50	ug/L	1	10/10/2017	10/10/2017 12:42	EPA 8260B	
1,2-Dichloropropane	ND	0.10	0.50	ug/L	1	10/10/2017	10/10/2017 12:42	EPA 8260B	
1,3,5-Trimethylbenzene	ND	0.075	0.50	ug/L	1	10/10/2017	10/10/2017 12:42	EPA 8260B	
1,3-Dichlorobenzene	ND	0.096	0.50	ug/L	1	10/10/2017	10/10/2017 12:42	EPA 8260B	
1,3-Dichloropropane	ND	0.11	0.50	ug/L	1	10/10/2017	10/10/2017 12:42	EPA 8260B	
1,4-Dichlorobenzene	ND	0.070	0.50	ug/L	1	10/10/2017	10/10/2017 12:42	EPA 8260B	
2,2-Dichloropropane	ND	0.14	0.50	ug/L	1	10/10/2017	10/10/2017 12:42	EPA 8260B	
2-Butanone	ND	3.0	20	ug/L	1	10/10/2017	10/10/2017 12:42	EPA 8260B	
2-Chlorotoluene	ND	0.075	0.50	ug/L	1	10/10/2017	10/10/2017 12:42	EPA 8260B	
2-Hexanone	ND	0.95	20	ug/L	1	10/10/2017	10/10/2017 12:42	EPA 8260B	
4-Chlorotoluene	ND	0.073	0.50	ug/L	1	10/10/2017	10/10/2017 12:42	EPA 8260B	
4-Methyl-2-pentanone	ND	0.77	20	ug/L	1	10/10/2017	10/10/2017 12:42	EPA 8260B	
Acetone	ND	3.4	20	ug/L	1	10/10/2017	10/10/2017 12:42	EPA 8260B	
Benzene	ND	0.089	0.50	ug/L	1	10/10/2017	10/10/2017 12:42	EPA 8260B	
Bromobenzene	ND	0.084	0.50	ug/L	1	10/10/2017	10/10/2017 12:42	EPA 8260B	
Bromochloromethane	ND	0.31	0.50	ug/L	1	10/10/2017	10/10/2017 12:42	EPA 8260B	
Bromodichloromethane	ND	0.077	0.50	ug/L	1	10/10/2017	10/10/2017 12:42	EPA 8260B	
Bromoform	ND	0.088	0.50	ug/L	1	10/10/2017	10/10/2017 12:42	EPA 8260B	
Bromomethane	ND	0.59	5.0	ug/L	1	10/10/2017	10/10/2017 12:42	EPA 8260B	
Carbon disulfide	ND	0.053	0.50	ug/L	1	10/10/2017	10/10/2017 12:42	EPA 8260B	
Carbon tetrachloride	ND	0.038	0.50	ug/L	1	10/10/2017	10/10/2017 12:42	EPA 8260B	
Chlorobenzene	ND	0.073	0.50	ug/L	1	10/10/2017	10/10/2017 12:42	EPA 8260B	
Chloroethane	ND	0.25	5.0	ug/L	1	10/10/2017	10/10/2017 12:42	EPA 8260B	
Chloroform	**0.080**	0.062	0.50	ug/L	1	10/10/2017	10/10/2017 12:42	EPA 8260B	J
Chloromethane	**0.82**	0.16	2.0	ug/L	1	10/10/2017	10/10/2017 12:42	EPA 8260B	HC, J

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708 Heartland Trail, Ste 3000	Project Number: 266431
Madison WI, 53717	Project Manager: Andrew Stehn

MW-25D

A174009-20 (Water)

Date Sampled
10/03/2017 16:34

Pace Analytical - Madison

Volatile Organic Compounds by Method 8260 - Purge and Trap — **Preparation Batch: A710028**

Analyte	Result	Limit of Detection	Limit of Quantitation	Units	Dilution	Prepared	Analyzed	Method	Qualifiers
cis-1,2-Dichloroethene	ND	0.11	0.50	ug/L	1	10/10/2017	10/10/2017 12:42	EPA 8260B	
cis-1,3-Dichloropropene	ND	0.061	0.50	ug/L	1	10/10/2017	10/10/2017 12:42	EPA 8260B	
Dibromochloromethane	ND	0.091	0.50	ug/L	1	10/10/2017	10/10/2017 12:42	EPA 8260B	
Dibromomethane	ND	0.14	0.50	ug/L	1	10/10/2017	10/10/2017 12:42	EPA 8260B	
Dichlorodifluoromethane	ND	0.11	0.50	ug/L	1	10/10/2017	10/10/2017 12:42	EPA 8260B	
Diisopropyl Ether	ND	0.15	0.50	ug/L	1	10/10/2017	10/10/2017 12:42	EPA 8260B	
Ethylbenzene	ND	0.054	0.50	ug/L	1	10/10/2017	10/10/2017 12:42	EPA 8260B	
Hexachlorobutadiene	ND	0.13	2.0	ug/L	1	10/10/2017	10/10/2017 12:42	EPA 8260B	
Isopropylbenzene	ND	0.081	0.50	ug/L	1	10/10/2017	10/10/2017 12:42	EPA 8260B	
m,p-Xylene	**0.060**	0.057	1.0	ug/L	1	10/10/2017	10/10/2017 12:42	EPA 8260B	B, J
Methyl t-Butyl Ether	ND	0.14	0.50	ug/L	1	10/10/2017	10/10/2017 12:42	EPA 8260B	
Methylene chloride	**0.51**	0.14	2.0	ug/L	1	10/10/2017	10/10/2017 12:42	EPA 8260B	J
Naphthalene	ND	0.088	5.0	ug/L	1	10/10/2017	10/10/2017 12:42	EPA 8260B	
n-Butyl Benzene	ND	0.14	0.50	ug/L	1	10/10/2017	10/10/2017 12:42	EPA 8260B	
n-Hexane	ND	0.21	0.50	ug/L	1	10/10/2017	10/10/2017 12:42	EPA 8260B	
n-Propyl Benzene	ND	0.10	0.50	ug/L	1	10/10/2017	10/10/2017 12:42	EPA 8260B	
o-Xylene	ND	0.058	0.50	ug/L	1	10/10/2017	10/10/2017 12:42	EPA 8260B	
p-Isopropyltoluene	ND	0.085	0.50	ug/L	1	10/10/2017	10/10/2017 12:42	EPA 8260B	
sec-Butyl Benzene	ND	0.13	0.50	ug/L	1	10/10/2017	10/10/2017 12:42	EPA 8260B	
Styrene	**0.070**	0.065	0.50	ug/L	1	10/10/2017	10/10/2017 12:42	EPA 8260B	B, J
tert-Butylbenzene	ND	0.12	0.50	ug/L	1	10/10/2017	10/10/2017 12:42	EPA 8260B	
Tetrachloroethene	**0.37**	0.081	0.50	ug/L	1	10/10/2017	10/10/2017 12:42	EPA 8260B	J
Tetrahydrofuran	ND	1.2	10	ug/L	1	10/10/2017	10/10/2017 12:42	EPA 8260B	
Toluene	**0.070**	0.053	0.50	ug/L	1	10/10/2017	10/10/2017 12:42	EPA 8260B	B, J
trans-1,2-Dichloroethene	ND	0.11	0.50	ug/L	1	10/10/2017	10/10/2017 12:42	EPA 8260B	
trans-1,3-Dichloropropene	ND	0.096	0.50	ug/L	1	10/10/2017	10/10/2017 12:42	EPA 8260B	
Trichloroethene	ND	0.062	0.50	ug/L	1	10/10/2017	10/10/2017 12:42	EPA 8260B	
Trichlorofluoromethane	ND	0.13	0.50	ug/L	1	10/10/2017	10/10/2017 12:42	EPA 8260B	
Vinyl chloride	ND	0.16	0.50	ug/L	1	10/10/2017	10/10/2017 12:42	EPA 8260B	
Xylenes, total	ND	0.12	1.5	ug/L	1	10/10/2017	10/10/2017 12:42	EPA 8260B	
Surrogate: Dibromofluoromethane			*99.5 %*	*68.9-141*		*10/10/2017*	*10/10/2017 12:42*	*EPA 8260B*	
Surrogate: Toluene-d8			*95.2 %*	*73.3-114*		*10/10/2017*	*10/10/2017 12:42*	*EPA 8260B*	
Surrogate: 4-Bromofluorobenzene			*91.5 %*	*72.2-114*		*10/10/2017*	*10/10/2017 12:42*	*EPA 8260B*	

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708 Heartland Trail, Ste 3000	Project Number: 266431
Madison WI, 53717	Project Manager: Andrew Stehn

MW-27D2

A174009-21 (Water)

Date Sampled
10/04/2017 09:02

Pace Analytical - Madison

Volatile Organic Compounds by Method 8260 - Purge and Trap — **Preparation Batch: A710045**

Analyte	Result	Limit of Detection	Limit of Quantitation	Units	Dilution	Prepared	Analyzed	Method	Qualifiers
1,1,1,2-Tetrachloroethane	ND	0.11	0.50	ug/L	1	10/11/2017	10/11/2017 16:30	EPA 8260B	
1,1,1-Trichloroethane	ND	0.10	0.50	ug/L	1	10/11/2017	10/11/2017 16:30	EPA 8260B	
1,1,2,2-Tetrachloroethane	ND	0.099	0.50	ug/L	1	10/11/2017	10/11/2017 16:30	EPA 8260B	
1,1,2-Trichloroethane	ND	0.10	0.50	ug/L	1	10/11/2017	10/11/2017 16:30	EPA 8260B	
1,1,2-Trichlorotrifluoroethane	ND	0.13	0.50	ug/L	1	10/11/2017	10/11/2017 16:30	EPA 8260B	
1,1-Dichloroethane	ND	0.12	0.50	ug/L	1	10/11/2017	10/11/2017 16:30	EPA 8260B	
1,1-Dichloroethene	ND	0.14	0.50	ug/L	1	10/11/2017	10/11/2017 16:30	EPA 8260B	
1,1-Dichloropropene	ND	0.11	0.50	ug/L	1	10/11/2017	10/11/2017 16:30	EPA 8260B	
1,2,3-Trichlorobenzene	ND	0.045	2.0	ug/L	1	10/11/2017	10/11/2017 16:30	EPA 8260B	
1,2,3-Trichloropropane	ND	0.15	1.0	ug/L	1	10/11/2017	10/11/2017 16:30	EPA 8260B	
1,2,4-Trichlorobenzene	ND	0.077	2.0	ug/L	1	10/11/2017	10/11/2017 16:30	EPA 8260B	
1,2,4-Trimethylbenzene	ND	0.060	0.50	ug/L	1	10/11/2017	10/11/2017 16:30	EPA 8260B	
1,2-Dibromo-3-chloropropane	ND	0.25	0.50	ug/L	1	10/11/2017	10/11/2017 16:30	EPA 8260B	
1,2-Dibromoethane (EDB)	ND	0.13	0.50	ug/L	1	10/11/2017	10/11/2017 16:30	EPA 8260B	
1,2-Dichlorobenzene	ND	0.076	0.50	ug/L	1	10/11/2017	10/11/2017 16:30	EPA 8260B	
1,2-Dichloroethane	ND	0.078	0.50	ug/L	1	10/11/2017	10/11/2017 16:30	EPA 8260B	
1,2-Dichloropropane	ND	0.10	0.50	ug/L	1	10/11/2017	10/11/2017 16:30	EPA 8260B	
1,3,5-Trimethylbenzene	ND	0.075	0.50	ug/L	1	10/11/2017	10/11/2017 16:30	EPA 8260B	
1,3-Dichlorobenzene	ND	0.096	0.50	ug/L	1	10/11/2017	10/11/2017 16:30	EPA 8260B	
1,3-Dichloropropane	ND	0.11	0.50	ug/L	1	10/11/2017	10/11/2017 16:30	EPA 8260B	
1,4-Dichlorobenzene	ND	0.070	0.50	ug/L	1	10/11/2017	10/11/2017 16:30	EPA 8260B	
2,2-Dichloropropane	ND	0.14	0.50	ug/L	1	10/11/2017	10/11/2017 16:30	EPA 8260B	
2-Butanone	ND	3.0	20	ug/L	1	10/11/2017	10/11/2017 16:30	EPA 8260B	
2-Chlorotoluene	ND	0.075	0.50	ug/L	1	10/11/2017	10/11/2017 16:30	EPA 8260B	
2-Hexanone	ND	0.95	20	ug/L	1	10/11/2017	10/11/2017 16:30	EPA 8260B	
4-Chlorotoluene	ND	0.073	0.50	ug/L	1	10/11/2017	10/11/2017 16:30	EPA 8260B	
4-Methyl-2-pentanone	ND	0.77	20	ug/L	1	10/11/2017	10/11/2017 16:30	EPA 8260B	
Acetone	**3.5**	3.4	20	ug/L	1	10/11/2017	10/11/2017 16:30	EPA 8260B	J
Benzene	ND	0.089	0.50	ug/L	1	10/11/2017	10/11/2017 16:30	EPA 8260B	
Bromobenzene	ND	0.084	0.50	ug/L	1	10/11/2017	10/11/2017 16:30	EPA 8260B	
Bromochloromethane	ND	0.31	0.50	ug/L	1	10/11/2017	10/11/2017 16:30	EPA 8260B	
Bromodichloromethane	ND	0.077	0.50	ug/L	1	10/11/2017	10/11/2017 16:30	EPA 8260B	
Bromoform	ND	0.088	0.50	ug/L	1	10/11/2017	10/11/2017 16:30	EPA 8260B	
Bromomethane	ND	0.59	5.0	ug/L	1	10/11/2017	10/11/2017 16:30	EPA 8260B	
Carbon disulfide	ND	0.053	0.50	ug/L	1	10/11/2017	10/11/2017 16:30	EPA 8260B	
Carbon tetrachloride	ND	0.038	0.50	ug/L	1	10/11/2017	10/11/2017 16:30	EPA 8260B	
Chlorobenzene	ND	0.073	0.50	ug/L	1	10/11/2017	10/11/2017 16:30	EPA 8260B	
Chloroethane	ND	0.25	5.0	ug/L	1	10/11/2017	10/11/2017 16:30	EPA 8260B	
Chloroform	ND	0.062	0.50	ug/L	1	10/11/2017	10/11/2017 16:30	EPA 8260B	
Chloromethane	**0.46**	0.16	2.0	ug/L	1	10/11/2017	10/11/2017 16:30	EPA 8260B	J

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Project: Madison Kipp Corp. Semi-Annual Sampling
Project Number: 266431
Project Manager: Andrew Stehn

MW-27D2

A174009-21 (Water)

Date Sampled
10/04/2017 09:02

Pace Analytical - Madison

Volatile Organic Compounds by Method 8260 - Purge and Trap — **Preparation Batch: A710045**

Analyte	Result	Limit of Detection	Limit of Quantitation	Units	Dilution	Prepared	Analyzed	Method	Qualifiers
cis-1,2-Dichloroethene	**9.4**	0.11	0.50	ug/L	1	10/11/2017	10/11/2017 16:30	EPA 8260B	
cis-1,3-Dichloropropene	ND	0.061	0.50	ug/L	1	10/11/2017	10/11/2017 16:30	EPA 8260B	
Dibromochloromethane	ND	0.091	0.50	ug/L	1	10/11/2017	10/11/2017 16:30	EPA 8260B	
Dibromomethane	ND	0.14	0.50	ug/L	1	10/11/2017	10/11/2017 16:30	EPA 8260B	
Dichlorodifluoromethane	ND	0.11	0.50	ug/L	1	10/11/2017	10/11/2017 16:30	EPA 8260B	
Diisopropyl Ether	ND	0.15	0.50	ug/L	1	10/11/2017	10/11/2017 16:30	EPA 8260B	
Ethylbenzene	ND	0.054	0.50	ug/L	1	10/11/2017	10/11/2017 16:30	EPA 8260B	
Hexachlorobutadiene	ND	0.13	2.0	ug/L	1	10/11/2017	10/11/2017 16:30	EPA 8260B	
Isopropylbenzene	ND	0.081	0.50	ug/L	1	10/11/2017	10/11/2017 16:30	EPA 8260B	
m,p-Xylene	ND	0.057	1.0	ug/L	1	10/11/2017	10/11/2017 16:30	EPA 8260B	
Methyl t-Butyl Ether	ND	0.14	0.50	ug/L	1	10/11/2017	10/11/2017 16:30	EPA 8260B	
Methylene chloride	ND	0.14	2.0	ug/L	1	10/11/2017	10/11/2017 16:30	EPA 8260B	
Naphthalene	ND	0.088	5.0	ug/L	1	10/11/2017	10/11/2017 16:30	EPA 8260B	
n-Butyl Benzene	ND	0.14	0.50	ug/L	1	10/11/2017	10/11/2017 16:30	EPA 8260B	
n-Hexane	ND	0.21	0.50	ug/L	1	10/11/2017	10/11/2017 16:30	EPA 8260B	
n-Propyl Benzene	ND	0.10	0.50	ug/L	1	10/11/2017	10/11/2017 16:30	EPA 8260B	
o-Xylene	ND	0.058	0.50	ug/L	1	10/11/2017	10/11/2017 16:30	EPA 8260B	
p-Isopropyltoluene	ND	0.085	0.50	ug/L	1	10/11/2017	10/11/2017 16:30	EPA 8260B	
sec-Butyl Benzene	ND	0.13	0.50	ug/L	1	10/11/2017	10/11/2017 16:30	EPA 8260B	
Styrene	ND	0.065	0.50	ug/L	1	10/11/2017	10/11/2017 16:30	EPA 8260B	
tert-Butylbenzene	ND	0.12	0.50	ug/L	1	10/11/2017	10/11/2017 16:30	EPA 8260B	
Tetrachloroethene	**24**	0.081	0.50	ug/L	1	10/11/2017	10/11/2017 16:30	EPA 8260B	
Tetrahydrofuran	ND	1.2	10	ug/L	1	10/11/2017	10/11/2017 16:30	EPA 8260B	
Toluene	**0.080**	0.053	0.50	ug/L	1	10/11/2017	10/11/2017 16:30	EPA 8260B	J
trans-1,2-Dichloroethene	**0.33**	0.11	0.50	ug/L	1	10/11/2017	10/11/2017 16:30	EPA 8260B	J
trans-1,3-Dichloropropene	ND	0.096	0.50	ug/L	1	10/11/2017	10/11/2017 16:30	EPA 8260B	
Trichloroethene	**18**	0.062	0.50	ug/L	1	10/11/2017	10/11/2017 16:30	EPA 8260B	
Trichlorofluoromethane	ND	0.13	0.50	ug/L	1	10/11/2017	10/11/2017 16:30	EPA 8260B	
Vinyl chloride	ND	0.16	0.50	ug/L	1	10/11/2017	10/11/2017 16:30	EPA 8260B	
Xylenes, total	ND	0.12	1.5	ug/L	1	10/11/2017	10/11/2017 16:30	EPA 8260B	
Surrogate: Dibromofluoromethane			*98.4 %*	*68.9-141*		*10/11/2017*	*10/11/2017 16:30*	*EPA 8260B*	
Surrogate: Toluene-d8			*93.2 %*	*73.3-114*		*10/11/2017*	*10/11/2017 16:30*	*EPA 8260B*	
Surrogate: 4-Bromofluorobenzene			*89.7 %*	*72.2-114*		*10/11/2017*	*10/11/2017 16:30*	*EPA 8260B*	

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TRC Environmental Corporation, Inc.	Project: Madison Kipp Corp. Semi-Annual Sampling
708 Heartland Trail, Ste 3000	Project Number: 266431
Madison WI, 53717	Project Manager: Andrew Stehn

MW-27D

A174009-22 (Water)

Date Sampled
10/04/2017 10:19

Pace Analytical - Madison

Volatile Organic Compounds by Method 8260 - Purge and Trap — **Preparation Batch: A710028**

Analyte	Result	Limit of Detection	Limit of Quantitation	Units	Dilution	Prepared	Analyzed	Method	Qualifiers
1,1,1,2-Tetrachloroethane	ND	0.11	0.50	ug/L	1	10/10/2017	10/10/2017 13:11	EPA 8260B	
1,1,1-Trichloroethane	ND	0.10	0.50	ug/L	1	10/10/2017	10/10/2017 13:11	EPA 8260B	
1,1,2,2-Tetrachloroethane	ND	0.099	0.50	ug/L	1	10/10/2017	10/10/2017 13:11	EPA 8260B	
1,1,2-Trichloroethane	ND	0.10	0.50	ug/L	1	10/10/2017	10/10/2017 13:11	EPA 8260B	
1,1,2-Trichlorotrifluoroethane	ND	0.13	0.50	ug/L	1	10/10/2017	10/10/2017 13:11	EPA 8260B	
1,1-Dichloroethane	ND	0.12	0.50	ug/L	1	10/10/2017	10/10/2017 13:11	EPA 8260B	
1,1-Dichloroethene	ND	0.14	0.50	ug/L	1	10/10/2017	10/10/2017 13:11	EPA 8260B	
1,1-Dichloropropene	ND	0.11	0.50	ug/L	1	10/10/2017	10/10/2017 13:11	EPA 8260B	
1,2,3-Trichlorobenzene	ND	0.045	2.0	ug/L	1	10/10/2017	10/10/2017 13:11	EPA 8260B	
1,2,3-Trichloropropane	ND	0.15	1.0	ug/L	1	10/10/2017	10/10/2017 13:11	EPA 8260B	
1,2,4-Trichlorobenzene	ND	0.077	2.0	ug/L	1	10/10/2017	10/10/2017 13:11	EPA 8260B	
1,2,4-Trimethylbenzene	ND	0.060	0.50	ug/L	1	10/10/2017	10/10/2017 13:11	EPA 8260B	
1,2-Dibromo-3-chloropropane	ND	0.25	0.50	ug/L	1	10/10/2017	10/10/2017 13:11	EPA 8260B	
1,2-Dibromoethane (EDB)	ND	0.13	0.50	ug/L	1	10/10/2017	10/10/2017 13:11	EPA 8260B	
1,2-Dichlorobenzene	ND	0.076	0.50	ug/L	1	10/10/2017	10/10/2017 13:11	EPA 8260B	
1,2-Dichloroethane	ND	0.078	0.50	ug/L	1	10/10/2017	10/10/2017 13:11	EPA 8260B	
1,2-Dichloropropane	ND	0.10	0.50	ug/L	1	10/10/2017	10/10/2017 13:11	EPA 8260B	
1,3,5-Trimethylbenzene	ND	0.075	0.50	ug/L	1	10/10/2017	10/10/2017 13:11	EPA 8260B	
1,3-Dichlorobenzene	ND	0.096	0.50	ug/L	1	10/10/2017	10/10/2017 13:11	EPA 8260B	
1,3-Dichloropropane	ND	0.11	0.50	ug/L	1	10/10/2017	10/10/2017 13:11	EPA 8260B	
1,4-Dichlorobenzene	ND	0.070	0.50	ug/L	1	10/10/2017	10/10/2017 13:11	EPA 8260B	
2,2-Dichloropropane	ND	0.14	0.50	ug/L	1	10/10/2017	10/10/2017 13:11	EPA 8260B	
2-Butanone	ND	3.0	20	ug/L	1	10/10/2017	10/10/2017 13:11	EPA 8260B	
2-Chlorotoluene	ND	0.075	0.50	ug/L	1	10/10/2017	10/10/2017 13:11	EPA 8260B	
2-Hexanone	ND	0.95	20	ug/L	1	10/10/2017	10/10/2017 13:11	EPA 8260B	
4-Chlorotoluene	ND	0.073	0.50	ug/L	1	10/10/2017	10/10/2017 13:11	EPA 8260B	
4-Methyl-2-pentanone	ND	0.77	20	ug/L	1	10/10/2017	10/10/2017 13:11	EPA 8260B	
Acetone	**3.7**	3.4	20	ug/L	1	10/10/2017	10/10/2017 13:11	EPA 8260B	B, J
Benzene	ND	0.089	0.50	ug/L	1	10/10/2017	10/10/2017 13:11	EPA 8260B	
Bromobenzene	ND	0.084	0.50	ug/L	1	10/10/2017	10/10/2017 13:11	EPA 8260B	
Bromochloromethane	ND	0.31	0.50	ug/L	1	10/10/2017	10/10/2017 13:11	EPA 8260B	
Bromodichloromethane	ND	0.077	0.50	ug/L	1	10/10/2017	10/10/2017 13:11	EPA 8260B	
Bromoform	ND	0.088	0.50	ug/L	1	10/10/2017	10/10/2017 13:11	EPA 8260B	
Bromomethane	ND	0.59	5.0	ug/L	1	10/10/2017	10/10/2017 13:11	EPA 8260B	
Carbon disulfide	ND	0.053	0.50	ug/L	1	10/10/2017	10/10/2017 13:11	EPA 8260B	
Carbon tetrachloride	ND	0.038	0.50	ug/L	1	10/10/2017	10/10/2017 13:11	EPA 8260B	
Chlorobenzene	ND	0.073	0.50	ug/L	1	10/10/2017	10/10/2017 13:11	EPA 8260B	
Chloroethane	ND	0.25	5.0	ug/L	1	10/10/2017	10/10/2017 13:11	EPA 8260B	
Chloroform	ND	0.062	0.50	ug/L	1	10/10/2017	10/10/2017 13:11	EPA 8260B	
Chloromethane	**0.40**	0.16	2.0	ug/L	1	10/10/2017	10/10/2017 13:11	EPA 8260B	HC, J

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708 Heartland Trail, Ste 3000	Project Number: 266431
Madison WI, 53717	Project Manager: Andrew Stehn

MW-27D

A174009-22 (Water)

Date Sampled
10/04/2017 10:19

Pace Analytical - Madison

Volatile Organic Compounds by Method 8260 - Purge and Trap — **Preparation Batch: A710028**

Analyte	Result	Limit of Detection	Limit of Quantitation	Units	Dilution	Prepared	Analyzed	Method	Qualifiers
cis-1,2-Dichloroethene	**0.89**	0.11	0.50	ug/L	1	10/10/2017	10/10/2017 13:11	EPA 8260B	
cis-1,3-Dichloropropene	ND	0.061	0.50	ug/L	1	10/10/2017	10/10/2017 13:11	EPA 8260B	
Dibromochloromethane	ND	0.091	0.50	ug/L	1	10/10/2017	10/10/2017 13:11	EPA 8260B	
Dibromomethane	ND	0.14	0.50	ug/L	1	10/10/2017	10/10/2017 13:11	EPA 8260B	
Dichlorodifluoromethane	ND	0.11	0.50	ug/L	1	10/10/2017	10/10/2017 13:11	EPA 8260B	
Diisopropyl Ether	ND	0.15	0.50	ug/L	1	10/10/2017	10/10/2017 13:11	EPA 8260B	
Ethylbenzene	ND	0.054	0.50	ug/L	1	10/10/2017	10/10/2017 13:11	EPA 8260B	
Hexachlorobutadiene	ND	0.13	2.0	ug/L	1	10/10/2017	10/10/2017 13:11	EPA 8260B	
Isopropylbenzene	ND	0.081	0.50	ug/L	1	10/10/2017	10/10/2017 13:11	EPA 8260B	
m,p-Xylene	**0.060**	0.057	1.0	ug/L	1	10/10/2017	10/10/2017 13:11	EPA 8260B	B, J
Methyl t-Butyl Ether	**0.39**	0.14	0.50	ug/L	1	10/10/2017	10/10/2017 13:11	EPA 8260B	J
Methylene chloride	ND	0.14	2.0	ug/L	1	10/10/2017	10/10/2017 13:11	EPA 8260B	
Naphthalene	ND	0.088	5.0	ug/L	1	10/10/2017	10/10/2017 13:11	EPA 8260B	
n-Butyl Benzene	ND	0.14	0.50	ug/L	1	10/10/2017	10/10/2017 13:11	EPA 8260B	
n-Hexane	ND	0.21	0.50	ug/L	1	10/10/2017	10/10/2017 13:11	EPA 8260B	
n-Propyl Benzene	ND	0.10	0.50	ug/L	1	10/10/2017	10/10/2017 13:11	EPA 8260B	
o-Xylene	ND	0.058	0.50	ug/L	1	10/10/2017	10/10/2017 13:11	EPA 8260B	
p-Isopropyltoluene	ND	0.085	0.50	ug/L	1	10/10/2017	10/10/2017 13:11	EPA 8260B	
sec-Butyl Benzene	ND	0.13	0.50	ug/L	1	10/10/2017	10/10/2017 13:11	EPA 8260B	
Styrene	**0.070**	0.065	0.50	ug/L	1	10/10/2017	10/10/2017 13:11	EPA 8260B	B, J
tert-Butylbenzene	ND	0.12	0.50	ug/L	1	10/10/2017	10/10/2017 13:11	EPA 8260B	
Tetrachloroethene	**1.9**	0.081	0.50	ug/L	1	10/10/2017	10/10/2017 13:11	EPA 8260B	
Tetrahydrofuran	ND	1.2	10	ug/L	1	10/10/2017	10/10/2017 13:11	EPA 8260B	
Toluene	**0.090**	0.053	0.50	ug/L	1	10/10/2017	10/10/2017 13:11	EPA 8260B	B, J
trans-1,2-Dichloroethene	**0.13**	0.11	0.50	ug/L	1	10/10/2017	10/10/2017 13:11	EPA 8260B	J
trans-1,3-Dichloropropene	ND	0.096	0.50	ug/L	1	10/10/2017	10/10/2017 13:11	EPA 8260B	
Trichloroethene	**1.6**	0.062	0.50	ug/L	1	10/10/2017	10/10/2017 13:11	EPA 8260B	
Trichlorofluoromethane	ND	0.13	0.50	ug/L	1	10/10/2017	10/10/2017 13:11	EPA 8260B	
Vinyl chloride	ND	0.16	0.50	ug/L	1	10/10/2017	10/10/2017 13:11	EPA 8260B	
Xylenes, total	ND	0.12	1.5	ug/L	1	10/10/2017	10/10/2017 13:11	EPA 8260B	
Surrogate: Dibromofluoromethane			*97.7 %*	*68.9-141*		*10/10/2017*	*10/10/2017 13:11*	*EPA 8260B*	
Surrogate: Toluene-d8			*95.7 %*	*73.3-114*		*10/10/2017*	*10/10/2017 13:11*	*EPA 8260B*	
Surrogate: 4-Bromofluorobenzene			*92.5 %*	*72.2-114*		*10/10/2017*	*10/10/2017 13:11*	*EPA 8260B*	

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708 Heartland Trail, Ste 3000	Project Number: 266431
Madison WI, 53717	Project Manager: Andrew Stehn

MW-5D3

A174009-23 (Water)

Date Sampled
10/04/2017 12:13

Pace Analytical - Madison

Volatile Organic Compounds by Method 8260 - Purge and Trap — **Preparation Batch: A710028**

Analyte	Result	Limit of Detection	Limit of Quantitation	Units	Dilution	Prepared	Analyzed	Method	Qualifiers
1,1,1,2-Tetrachloroethane	ND	0.11	0.50	ug/L	1	10/10/2017	10/10/2017 13:40	EPA 8260B	
1,1,1-Trichloroethane	ND	0.10	0.50	ug/L	1	10/10/2017	10/10/2017 13:40	EPA 8260B	
1,1,2,2-Tetrachloroethane	ND	0.099	0.50	ug/L	1	10/10/2017	10/10/2017 13:40	EPA 8260B	
1,1,2-Trichloroethane	ND	0.10	0.50	ug/L	1	10/10/2017	10/10/2017 13:40	EPA 8260B	
1,1,2-Trichlorotrifluoroethane	ND	0.13	0.50	ug/L	1	10/10/2017	10/10/2017 13:40	EPA 8260B	
1,1-Dichloroethane	ND	0.12	0.50	ug/L	1	10/10/2017	10/10/2017 13:40	EPA 8260B	
1,1-Dichloroethene	ND	0.14	0.50	ug/L	1	10/10/2017	10/10/2017 13:40	EPA 8260B	
1,1-Dichloropropene	ND	0.11	0.50	ug/L	1	10/10/2017	10/10/2017 13:40	EPA 8260B	
1,2,3-Trichlorobenzene	ND	0.045	2.0	ug/L	1	10/10/2017	10/10/2017 13:40	EPA 8260B	
1,2,3-Trichloropropane	ND	0.15	1.0	ug/L	1	10/10/2017	10/10/2017 13:40	EPA 8260B	
1,2,4-Trichlorobenzene	ND	0.077	2.0	ug/L	1	10/10/2017	10/10/2017 13:40	EPA 8260B	
1,2,4-Trimethylbenzene	ND	0.060	0.50	ug/L	1	10/10/2017	10/10/2017 13:40	EPA 8260B	
1,2-Dibromo-3-chloropropane	ND	0.25	0.50	ug/L	1	10/10/2017	10/10/2017 13:40	EPA 8260B	
1,2-Dibromoethane (EDB)	ND	0.13	0.50	ug/L	1	10/10/2017	10/10/2017 13:40	EPA 8260B	
1,2-Dichlorobenzene	ND	0.076	0.50	ug/L	1	10/10/2017	10/10/2017 13:40	EPA 8260B	
1,2-Dichloroethane	ND	0.078	0.50	ug/L	1	10/10/2017	10/10/2017 13:40	EPA 8260B	
1,2-Dichloropropane	ND	0.10	0.50	ug/L	1	10/10/2017	10/10/2017 13:40	EPA 8260B	
1,3,5-Trimethylbenzene	ND	0.075	0.50	ug/L	1	10/10/2017	10/10/2017 13:40	EPA 8260B	
1,3-Dichlorobenzene	ND	0.096	0.50	ug/L	1	10/10/2017	10/10/2017 13:40	EPA 8260B	
1,3-Dichloropropane	ND	0.11	0.50	ug/L	1	10/10/2017	10/10/2017 13:40	EPA 8260B	
1,4-Dichlorobenzene	ND	0.070	0.50	ug/L	1	10/10/2017	10/10/2017 13:40	EPA 8260B	
2,2-Dichloropropane	ND	0.14	0.50	ug/L	1	10/10/2017	10/10/2017 13:40	EPA 8260B	
2-Butanone	ND	3.0	20	ug/L	1	10/10/2017	10/10/2017 13:40	EPA 8260B	
2-Chlorotoluene	ND	0.075	0.50	ug/L	1	10/10/2017	10/10/2017 13:40	EPA 8260B	
2-Hexanone	ND	0.95	20	ug/L	1	10/10/2017	10/10/2017 13:40	EPA 8260B	
4-Chlorotoluene	ND	0.073	0.50	ug/L	1	10/10/2017	10/10/2017 13:40	EPA 8260B	
4-Methyl-2-pentanone	ND	0.77	20	ug/L	1	10/10/2017	10/10/2017 13:40	EPA 8260B	
Acetone	ND	3.4	20	ug/L	1	10/10/2017	10/10/2017 13:40	EPA 8260B	
Benzene	ND	0.089	0.50	ug/L	1	10/10/2017	10/10/2017 13:40	EPA 8260B	
Bromobenzene	ND	0.084	0.50	ug/L	1	10/10/2017	10/10/2017 13:40	EPA 8260B	
Bromochloromethane	ND	0.31	0.50	ug/L	1	10/10/2017	10/10/2017 13:40	EPA 8260B	
Bromodichloromethane	ND	0.077	0.50	ug/L	1	10/10/2017	10/10/2017 13:40	EPA 8260B	
Bromoform	ND	0.088	0.50	ug/L	1	10/10/2017	10/10/2017 13:40	EPA 8260B	
Bromomethane	ND	0.59	5.0	ug/L	1	10/10/2017	10/10/2017 13:40	EPA 8260B	
Carbon disulfide	ND	0.053	0.50	ug/L	1	10/10/2017	10/10/2017 13:40	EPA 8260B	
Carbon tetrachloride	ND	0.038	0.50	ug/L	1	10/10/2017	10/10/2017 13:40	EPA 8260B	
Chlorobenzene	ND	0.073	0.50	ug/L	1	10/10/2017	10/10/2017 13:40	EPA 8260B	
Chloroethane	ND	0.25	5.0	ug/L	1	10/10/2017	10/10/2017 13:40	EPA 8260B	
Chloroform	ND	0.062	0.50	ug/L	1	10/10/2017	10/10/2017 13:40	EPA 8260B	
Chloromethane	**0.22**	0.16	2.0	ug/L	1	10/10/2017	10/10/2017 13:40	EPA 8260B	HC, J

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708 Heartland Trail, Ste 3000	Project Number: 266431
Madison WI, 53717	Project Manager: Andrew Stehn

MW-5D3

A174009-23 (Water)

Date Sampled
10/04/2017 12:13

Pace Analytical - Madison

Volatile Organic Compounds by Method 8260 - Purge and Trap — **Preparation Batch: A710028**

Analyte	Result	Limit of Detection	Limit of Quantitation	Units	Dilution	Prepared	Analyzed	Method	Qualifiers
cis-1,2-Dichloroethene	ND	0.11	0.50	ug/L	1	10/10/2017	10/10/2017 13:40	EPA 8260B	
cis-1,3-Dichloropropene	ND	0.061	0.50	ug/L	1	10/10/2017	10/10/2017 13:40	EPA 8260B	
Dibromochloromethane	ND	0.091	0.50	ug/L	1	10/10/2017	10/10/2017 13:40	EPA 8260B	
Dibromomethane	ND	0.14	0.50	ug/L	1	10/10/2017	10/10/2017 13:40	EPA 8260B	
Dichlorodifluoromethane	ND	0.11	0.50	ug/L	1	10/10/2017	10/10/2017 13:40	EPA 8260B	
Diisopropyl Ether	ND	0.15	0.50	ug/L	1	10/10/2017	10/10/2017 13:40	EPA 8260B	
Ethylbenzene	ND	0.054	0.50	ug/L	1	10/10/2017	10/10/2017 13:40	EPA 8260B	
Hexachlorobutadiene	ND	0.13	2.0	ug/L	1	10/10/2017	10/10/2017 13:40	EPA 8260B	
Isopropylbenzene	ND	0.081	0.50	ug/L	1	10/10/2017	10/10/2017 13:40	EPA 8260B	
m,p-Xylene	**0.060**	0.057	1.0	ug/L	1	10/10/2017	10/10/2017 13:40	EPA 8260B	B, J
Methyl t-Butyl Ether	ND	0.14	0.50	ug/L	1	10/10/2017	10/10/2017 13:40	EPA 8260B	
Methylene chloride	ND	0.14	2.0	ug/L	1	10/10/2017	10/10/2017 13:40	EPA 8260B	
Naphthalene	ND	0.088	5.0	ug/L	1	10/10/2017	10/10/2017 13:40	EPA 8260B	
n-Butyl Benzene	ND	0.14	0.50	ug/L	1	10/10/2017	10/10/2017 13:40	EPA 8260B	
n-Hexane	ND	0.21	0.50	ug/L	1	10/10/2017	10/10/2017 13:40	EPA 8260B	
n-Propyl Benzene	ND	0.10	0.50	ug/L	1	10/10/2017	10/10/2017 13:40	EPA 8260B	
o-Xylene	ND	0.058	0.50	ug/L	1	10/10/2017	10/10/2017 13:40	EPA 8260B	
p-Isopropyltoluene	ND	0.085	0.50	ug/L	1	10/10/2017	10/10/2017 13:40	EPA 8260B	
sec-Butyl Benzene	ND	0.13	0.50	ug/L	1	10/10/2017	10/10/2017 13:40	EPA 8260B	
Styrene	ND	0.065	0.50	ug/L	1	10/10/2017	10/10/2017 13:40	EPA 8260B	
tert-Butylbenzene	ND	0.12	0.50	ug/L	1	10/10/2017	10/10/2017 13:40	EPA 8260B	
Tetrachloroethene	ND	0.081	0.50	ug/L	1	10/10/2017	10/10/2017 13:40	EPA 8260B	
Tetrahydrofuran	ND	1.2	10	ug/L	1	10/10/2017	10/10/2017 13:40	EPA 8260B	
Toluene	**0.080**	0.053	0.50	ug/L	1	10/10/2017	10/10/2017 13:40	EPA 8260B	B, J
trans-1,2-Dichloroethene	ND	0.11	0.50	ug/L	1	10/10/2017	10/10/2017 13:40	EPA 8260B	
trans-1,3-Dichloropropene	ND	0.096	0.50	ug/L	1	10/10/2017	10/10/2017 13:40	EPA 8260B	
Trichloroethene	ND	0.062	0.50	ug/L	1	10/10/2017	10/10/2017 13:40	EPA 8260B	
Trichlorofluoromethane	ND	0.13	0.50	ug/L	1	10/10/2017	10/10/2017 13:40	EPA 8260B	
Vinyl chloride	ND	0.16	0.50	ug/L	1	10/10/2017	10/10/2017 13:40	EPA 8260B	
Xylenes, total	ND	0.12	1.5	ug/L	1	10/10/2017	10/10/2017 13:40	EPA 8260B	
Surrogate: Dibromofluoromethane			*102 %*	*68.9-141*		*10/10/2017*	*10/10/2017 13:40*	*EPA 8260B*	
Surrogate: Toluene-d8			*97.7 %*	*73.3-114*		*10/10/2017*	*10/10/2017 13:40*	*EPA 8260B*	
Surrogate: 4-Bromofluorobenzene			*90.1 %*	*72.2-114*		*10/10/2017*	*10/10/2017 13:40*	*EPA 8260B*	

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708 Heartland Trail, Ste 3000	Project Number: 266431
Madison WI, 53717	Project Manager: Andrew Stehn

MW-5S

A174009-24 (Water)

Date Sampled
10/04/2017 12:19

Pace Analytical - Madison

Volatile Organic Compounds by Method 8260 - Purge and Trap — **Preparation Batch: A710045**

Analyte	Result	Limit of Detection	Limit of Quantitation	Units	Dilution	Prepared	Analyzed	Method	Qualifiers
1,1,1,2-Tetrachloroethane	ND	0.11	0.50	ug/L	1	10/11/2017	10/11/2017 16:58	EPA 8260B	
1,1,1-Trichloroethane	ND	0.10	0.50	ug/L	1	10/11/2017	10/11/2017 16:58	EPA 8260B	
1,1,2,2-Tetrachloroethane	ND	0.099	0.50	ug/L	1	10/11/2017	10/11/2017 16:58	EPA 8260B	
1,1,2-Trichloroethane	ND	0.10	0.50	ug/L	1	10/11/2017	10/11/2017 16:58	EPA 8260B	
1,1,2-Trichlorotrifluoroethane	ND	0.13	0.50	ug/L	1	10/11/2017	10/11/2017 16:58	EPA 8260B	
1,1-Dichloroethane	ND	0.12	0.50	ug/L	1	10/11/2017	10/11/2017 16:58	EPA 8260B	
1,1-Dichloroethene	ND	0.14	0.50	ug/L	1	10/11/2017	10/11/2017 16:58	EPA 8260B	
1,1-Dichloropropene	ND	0.11	0.50	ug/L	1	10/11/2017	10/11/2017 16:58	EPA 8260B	
1,2,3-Trichlorobenzene	ND	0.045	2.0	ug/L	1	10/11/2017	10/11/2017 16:58	EPA 8260B	
1,2,3-Trichloropropane	ND	0.15	1.0	ug/L	1	10/11/2017	10/11/2017 16:58	EPA 8260B	
1,2,4-Trichlorobenzene	ND	0.077	2.0	ug/L	1	10/11/2017	10/11/2017 16:58	EPA 8260B	
1,2,4-Trimethylbenzene	ND	0.060	0.50	ug/L	1	10/11/2017	10/11/2017 16:58	EPA 8260B	
1,2-Dibromo-3-chloropropane	ND	0.25	0.50	ug/L	1	10/11/2017	10/11/2017 16:58	EPA 8260B	
1,2-Dibromoethane (EDB)	ND	0.13	0.50	ug/L	1	10/11/2017	10/11/2017 16:58	EPA 8260B	
1,2-Dichlorobenzene	ND	0.076	0.50	ug/L	1	10/11/2017	10/11/2017 16:58	EPA 8260B	
1,2-Dichloroethane	ND	0.078	0.50	ug/L	1	10/11/2017	10/11/2017 16:58	EPA 8260B	
1,2-Dichloropropane	ND	0.10	0.50	ug/L	1	10/11/2017	10/11/2017 16:58	EPA 8260B	
1,3,5-Trimethylbenzene	ND	0.075	0.50	ug/L	1	10/11/2017	10/11/2017 16:58	EPA 8260B	
1,3-Dichlorobenzene	ND	0.096	0.50	ug/L	1	10/11/2017	10/11/2017 16:58	EPA 8260B	
1,3-Dichloropropane	ND	0.11	0.50	ug/L	1	10/11/2017	10/11/2017 16:58	EPA 8260B	
1,4-Dichlorobenzene	ND	0.070	0.50	ug/L	1	10/11/2017	10/11/2017 16:58	EPA 8260B	
2,2-Dichloropropane	ND	0.14	0.50	ug/L	1	10/11/2017	10/11/2017 16:58	EPA 8260B	
2-Butanone	ND	3.0	20	ug/L	1	10/11/2017	10/11/2017 16:58	EPA 8260B	
2-Chlorotoluene	ND	0.075	0.50	ug/L	1	10/11/2017	10/11/2017 16:58	EPA 8260B	
2-Hexanone	ND	0.95	20	ug/L	1	10/11/2017	10/11/2017 16:58	EPA 8260B	
4-Chlorotoluene	ND	0.073	0.50	ug/L	1	10/11/2017	10/11/2017 16:58	EPA 8260B	
4-Methyl-2-pentanone	ND	0.77	20	ug/L	1	10/11/2017	10/11/2017 16:58	EPA 8260B	
Acetone	**3.5**	3.4	20	ug/L	1	10/11/2017	10/11/2017 16:58	EPA 8260B	J
Benzene	ND	0.089	0.50	ug/L	1	10/11/2017	10/11/2017 16:58	EPA 8260B	
Bromobenzene	ND	0.084	0.50	ug/L	1	10/11/2017	10/11/2017 16:58	EPA 8260B	
Bromochloromethane	ND	0.31	0.50	ug/L	1	10/11/2017	10/11/2017 16:58	EPA 8260B	
Bromodichloromethane	ND	0.077	0.50	ug/L	1	10/11/2017	10/11/2017 16:58	EPA 8260B	
Bromoform	ND	0.088	0.50	ug/L	1	10/11/2017	10/11/2017 16:58	EPA 8260B	
Bromomethane	ND	0.59	5.0	ug/L	1	10/11/2017	10/11/2017 16:58	EPA 8260B	
Carbon disulfide	ND	0.053	0.50	ug/L	1	10/11/2017	10/11/2017 16:58	EPA 8260B	
Carbon tetrachloride	**0.81**	0.038	0.50	ug/L	1	10/11/2017	10/11/2017 16:58	EPA 8260B	
Chlorobenzene	ND	0.073	0.50	ug/L	1	10/11/2017	10/11/2017 16:58	EPA 8260B	
Chloroethane	ND	0.25	5.0	ug/L	1	10/11/2017	10/11/2017 16:58	EPA 8260B	
Chloroform	ND	0.062	0.50	ug/L	1	10/11/2017	10/11/2017 16:58	EPA 8260B	
Chloromethane	**1.3**	0.16	2.0	ug/L	1	10/11/2017	10/11/2017 16:58	EPA 8260B	J

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TRC Environmental Corporation, Inc.	Project: Madison Kipp Corp. Semi-Annual Sampling
708 Heartland Trail, Ste 3000	Project Number: 266431
Madison WI, 53717	Project Manager: Andrew Stehn

MW-5S

A174009-24 (Water)

Date Sampled
10/04/2017 12:19

Pace Analytical - Madison

Volatile Organic Compounds by Method 8260 - Purge and Trap — **Preparation Batch: A710045**

Analyte	Result	Limit of Detection	Limit of Quantitation	Units	Dilution	Prepared	Analyzed	Method	Qualifiers
cis-1,2-Dichloroethene	ND	0.11	0.50	ug/L	1	10/11/2017	10/11/2017 16:58	EPA 8260B	
cis-1,3-Dichloropropene	ND	0.061	0.50	ug/L	1	10/11/2017	10/11/2017 16:58	EPA 8260B	
Dibromochloromethane	ND	0.091	0.50	ug/L	1	10/11/2017	10/11/2017 16:58	EPA 8260B	
Dibromomethane	ND	0.14	0.50	ug/L	1	10/11/2017	10/11/2017 16:58	EPA 8260B	
Dichlorodifluoromethane	ND	0.11	0.50	ug/L	1	10/11/2017	10/11/2017 16:58	EPA 8260B	
Diisopropyl Ether	ND	0.15	0.50	ug/L	1	10/11/2017	10/11/2017 16:58	EPA 8260B	
Ethylbenzene	ND	0.054	0.50	ug/L	1	10/11/2017	10/11/2017 16:58	EPA 8260B	
Hexachlorobutadiene	ND	0.13	2.0	ug/L	1	10/11/2017	10/11/2017 16:58	EPA 8260B	
Isopropylbenzene	ND	0.081	0.50	ug/L	1	10/11/2017	10/11/2017 16:58	EPA 8260B	
m,p-Xylene	**0.060**	0.057	1.0	ug/L	1	10/11/2017	10/11/2017 16:58	EPA 8260B	B, J
Methyl t-Butyl Ether	ND	0.14	0.50	ug/L	1	10/11/2017	10/11/2017 16:58	EPA 8260B	
Methylene chloride	ND	0.14	2.0	ug/L	1	10/11/2017	10/11/2017 16:58	EPA 8260B	
Naphthalene	ND	0.088	5.0	ug/L	1	10/11/2017	10/11/2017 16:58	EPA 8260B	
n-Butyl Benzene	ND	0.14	0.50	ug/L	1	10/11/2017	10/11/2017 16:58	EPA 8260B	
n-Hexane	ND	0.21	0.50	ug/L	1	10/11/2017	10/11/2017 16:58	EPA 8260B	
n-Propyl Benzene	ND	0.10	0.50	ug/L	1	10/11/2017	10/11/2017 16:58	EPA 8260B	
o-Xylene	ND	0.058	0.50	ug/L	1	10/11/2017	10/11/2017 16:58	EPA 8260B	
p-Isopropyltoluene	ND	0.085	0.50	ug/L	1	10/11/2017	10/11/2017 16:58	EPA 8260B	
sec-Butyl Benzene	ND	0.13	0.50	ug/L	1	10/11/2017	10/11/2017 16:58	EPA 8260B	
Styrene	ND	0.065	0.50	ug/L	1	10/11/2017	10/11/2017 16:58	EPA 8260B	
tert-Butylbenzene	ND	0.12	0.50	ug/L	1	10/11/2017	10/11/2017 16:58	EPA 8260B	
Tetrachloroethene	**46**	0.081	0.50	ug/L	1	10/11/2017	10/11/2017 16:58	EPA 8260B	
Tetrahydrofuran	ND	1.2	10	ug/L	1	10/11/2017	10/11/2017 16:58	EPA 8260B	
Toluene	ND	0.053	0.50	ug/L	1	10/11/2017	10/11/2017 16:58	EPA 8260B	
trans-1,2-Dichloroethene	ND	0.11	0.50	ug/L	1	10/11/2017	10/11/2017 16:58	EPA 8260B	
trans-1,3-Dichloropropene	ND	0.096	0.50	ug/L	1	10/11/2017	10/11/2017 16:58	EPA 8260B	
Trichloroethene	**0.15**	0.062	0.50	ug/L	1	10/11/2017	10/11/2017 16:58	EPA 8260B	J
Trichlorofluoromethane	ND	0.13	0.50	ug/L	1	10/11/2017	10/11/2017 16:58	EPA 8260B	
Vinyl chloride	ND	0.16	0.50	ug/L	1	10/11/2017	10/11/2017 16:58	EPA 8260B	
Xylenes, total	ND	0.12	1.5	ug/L	1	10/11/2017	10/11/2017 16:58	EPA 8260B	
Surrogate: Dibromofluoromethane			*97.3 %*	*68.9-141*		*10/11/2017*	*10/11/2017 16:58*	*EPA 8260B*	
Surrogate: Toluene-d8			*91.5 %*	*73.3-114*		*10/11/2017*	*10/11/2017 16:58*	*EPA 8260B*	
Surrogate: 4-Bromofluorobenzene			*89.4 %*	*72.2-114*		*10/11/2017*	*10/11/2017 16:58*	*EPA 8260B*	

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708 Heartland Trail, Ste 3000	Project Number: 266431
Madison WI, 53717	Project Manager: Andrew Stehn

MW-5D

A174009-25 (Water)

Date Sampled
10/04/2017 13:18

Pace Analytical - Madison

Volatile Organic Compounds by Method 8260 - Purge and Trap — **Preparation Batch: A710036**

Analyte	Result	Limit of Detection	Limit of Quantitation	Units	Dilution	Prepared	Analyzed	Method	Qualifiers
1,1,1,2-Tetrachloroethane	ND	0.22	1.0	ug/L	2	10/11/2017	10/11/2017 19:29	EPA 8260B	
1,1,1-Trichloroethane	ND	0.20	1.0	ug/L	2	10/11/2017	10/11/2017 19:29	EPA 8260B	
1,1,2,2-Tetrachloroethane	ND	0.20	1.0	ug/L	2	10/11/2017	10/11/2017 19:29	EPA 8260B	
1,1,2-Trichloroethane	ND	0.20	1.0	ug/L	2	10/11/2017	10/11/2017 19:29	EPA 8260B	
1,1,2-Trichlorotrifluoroethane	ND	0.26	1.0	ug/L	2	10/11/2017	10/11/2017 19:29	EPA 8260B	
1,1-Dichloroethane	ND	0.24	1.0	ug/L	2	10/11/2017	10/11/2017 19:29	EPA 8260B	
1,1-Dichloroethene	ND	0.28	1.0	ug/L	2	10/11/2017	10/11/2017 19:29	EPA 8260B	
1,1-Dichloropropene	ND	0.22	1.0	ug/L	2	10/11/2017	10/11/2017 19:29	EPA 8260B	
1,2,3-Trichlorobenzene	ND	0.090	4.0	ug/L	2	10/11/2017	10/11/2017 19:29	EPA 8260B	
1,2,3-Trichloropropane	ND	0.30	2.0	ug/L	2	10/11/2017	10/11/2017 19:29	EPA 8260B	
1,2,4-Trichlorobenzene	ND	0.15	4.0	ug/L	2	10/11/2017	10/11/2017 19:29	EPA 8260B	
1,2,4-Trimethylbenzene	ND	0.12	1.0	ug/L	2	10/11/2017	10/11/2017 19:29	EPA 8260B	
1,2-Dibromo-3-chloropropane	ND	0.50	1.0	ug/L	2	10/11/2017	10/11/2017 19:29	EPA 8260B	
1,2-Dibromoethane (EDB)	ND	0.26	1.0	ug/L	2	10/11/2017	10/11/2017 19:29	EPA 8260B	
1,2-Dichlorobenzene	ND	0.15	1.0	ug/L	2	10/11/2017	10/11/2017 19:29	EPA 8260B	
1,2-Dichloroethane	ND	0.16	1.0	ug/L	2	10/11/2017	10/11/2017 19:29	EPA 8260B	
1,2-Dichloropropane	ND	0.20	1.0	ug/L	2	10/11/2017	10/11/2017 19:29	EPA 8260B	
1,3,5-Trimethylbenzene	ND	0.15	1.0	ug/L	2	10/11/2017	10/11/2017 19:29	EPA 8260B	
1,3-Dichlorobenzene	ND	0.19	1.0	ug/L	2	10/11/2017	10/11/2017 19:29	EPA 8260B	
1,3-Dichloropropane	ND	0.22	1.0	ug/L	2	10/11/2017	10/11/2017 19:29	EPA 8260B	
1,4-Dichlorobenzene	ND	0.14	1.0	ug/L	2	10/11/2017	10/11/2017 19:29	EPA 8260B	
2,2-Dichloropropane	ND	0.28	1.0	ug/L	2	10/11/2017	10/11/2017 19:29	EPA 8260B	
2-Butanone	ND	6.0	40	ug/L	2	10/11/2017	10/11/2017 19:29	EPA 8260B	
2-Chlorotoluene	ND	0.15	1.0	ug/L	2	10/11/2017	10/11/2017 19:29	EPA 8260B	
2-Hexanone	ND	1.9	40	ug/L	2	10/11/2017	10/11/2017 19:29	EPA 8260B	
4-Chlorotoluene	ND	0.15	1.0	ug/L	2	10/11/2017	10/11/2017 19:29	EPA 8260B	
4-Methyl-2-pentanone	ND	1.5	40	ug/L	2	10/11/2017	10/11/2017 19:29	EPA 8260B	
Acetone	ND	6.8	40	ug/L	2	10/11/2017	10/11/2017 19:29	EPA 8260B	
Benzene	ND	0.18	1.0	ug/L	2	10/11/2017	10/11/2017 19:29	EPA 8260B	
Bromobenzene	ND	0.17	1.0	ug/L	2	10/11/2017	10/11/2017 19:29	EPA 8260B	
Bromochloromethane	ND	0.62	1.0	ug/L	2	10/11/2017	10/11/2017 19:29	EPA 8260B	
Bromodichloromethane	ND	0.15	1.0	ug/L	2	10/11/2017	10/11/2017 19:29	EPA 8260B	
Bromoform	ND	0.18	1.0	ug/L	2	10/11/2017	10/11/2017 19:29	EPA 8260B	
Bromomethane	ND	1.2	10	ug/L	2	10/11/2017	10/11/2017 19:29	EPA 8260B	
Carbon disulfide	ND	0.11	1.0	ug/L	2	10/11/2017	10/11/2017 19:29	EPA 8260B	
Carbon tetrachloride	ND	0.076	1.0	ug/L	2	10/11/2017	10/11/2017 19:29	EPA 8260B	
Chlorobenzene	ND	0.15	1.0	ug/L	2	10/11/2017	10/11/2017 19:29	EPA 8260B	
Chloroethane	ND	0.50	10	ug/L	2	10/11/2017	10/11/2017 19:29	EPA 8260B	
Chloroform	ND	0.12	1.0	ug/L	2	10/11/2017	10/11/2017 19:29	EPA 8260B	
Chloromethane	**1.4**	0.32	4.0	ug/L	2	10/11/2017	10/11/2017 19:29	EPA 8260B	J, D

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708 Heartland Trail, Ste 3000	Project Number: 266431
Madison WI, 53717	Project Manager: Andrew Stehn

MW-5D

A174009-25 (Water)

Date Sampled
10/04/2017 13:18

Pace Analytical - Madison

Volatile Organic Compounds by Method 8260 - Purge and Trap — **Preparation Batch: A710036**

Analyte	Result	Limit of Detection	Limit of Quantitation	Units	Dilution	Prepared	Analyzed	Method	Qualifiers
cis-1,2-Dichloroethene	**4.0**	0.22	1.0	ug/L	2	10/11/2017	10/11/2017 19:29	EPA 8260B	D
cis-1,3-Dichloropropene	ND	0.12	1.0	ug/L	2	10/11/2017	10/11/2017 19:29	EPA 8260B	
Dibromochloromethane	ND	0.18	1.0	ug/L	2	10/11/2017	10/11/2017 19:29	EPA 8260B	
Dibromomethane	ND	0.28	1.0	ug/L	2	10/11/2017	10/11/2017 19:29	EPA 8260B	
Dichlorodifluoromethane	ND	0.22	1.0	ug/L	2	10/11/2017	10/11/2017 19:29	EPA 8260B	
Diisopropyl Ether	ND	0.30	1.0	ug/L	2	10/11/2017	10/11/2017 19:29	EPA 8260B	
Ethylbenzene	ND	0.11	1.0	ug/L	2	10/11/2017	10/11/2017 19:29	EPA 8260B	
Hexachlorobutadiene	ND	0.26	4.0	ug/L	2	10/11/2017	10/11/2017 19:29	EPA 8260B	
Isopropylbenzene	ND	0.16	1.0	ug/L	2	10/11/2017	10/11/2017 19:29	EPA 8260B	
m,p-Xylene	ND	0.11	2.0	ug/L	2	10/11/2017	10/11/2017 19:29	EPA 8260B	
Methyl t-Butyl Ether	ND	0.28	1.0	ug/L	2	10/11/2017	10/11/2017 19:29	EPA 8260B	
Methylene chloride	ND	0.28	4.0	ug/L	2	10/11/2017	10/11/2017 19:29	EPA 8260B	
Naphthalene	ND	0.18	10	ug/L	2	10/11/2017	10/11/2017 19:29	EPA 8260B	
n-Butyl Benzene	ND	0.28	1.0	ug/L	2	10/11/2017	10/11/2017 19:29	EPA 8260B	
n-Hexane	ND	0.42	1.0	ug/L	2	10/11/2017	10/11/2017 19:29	EPA 8260B	
n-Propyl Benzene	ND	0.20	1.0	ug/L	2	10/11/2017	10/11/2017 19:29	EPA 8260B	
o-Xylene	ND	0.12	1.0	ug/L	2	10/11/2017	10/11/2017 19:29	EPA 8260B	
p-Isopropyltoluene	ND	0.17	1.0	ug/L	2	10/11/2017	10/11/2017 19:29	EPA 8260B	
sec-Butyl Benzene	ND	0.26	1.0	ug/L	2	10/11/2017	10/11/2017 19:29	EPA 8260B	
Styrene	ND	0.13	1.0	ug/L	2	10/11/2017	10/11/2017 19:29	EPA 8260B	
tert-Butylbenzene	ND	0.24	1.0	ug/L	2	10/11/2017	10/11/2017 19:29	EPA 8260B	
Tetrachloroethene	**68**	0.16	1.0	ug/L	2	10/11/2017	10/11/2017 19:29	EPA 8260B	D
Tetrahydrofuran	ND	2.4	20	ug/L	2	10/11/2017	10/11/2017 19:29	EPA 8260B	
Toluene	ND	0.11	1.0	ug/L	2	10/11/2017	10/11/2017 19:29	EPA 8260B	
trans-1,2-Dichloroethene	ND	0.22	1.0	ug/L	2	10/11/2017	10/11/2017 19:29	EPA 8260B	
trans-1,3-Dichloropropene	ND	0.19	1.0	ug/L	2	10/11/2017	10/11/2017 19:29	EPA 8260B	
Trichloroethene	**3.7**	0.12	1.0	ug/L	2	10/11/2017	10/11/2017 19:29	EPA 8260B	D
Trichlorofluoromethane	ND	0.26	1.0	ug/L	2	10/11/2017	10/11/2017 19:29	EPA 8260B	
Vinyl chloride	ND	0.32	1.0	ug/L	2	10/11/2017	10/11/2017 19:29	EPA 8260B	
Xylenes, total	ND	0.23	3.0	ug/L	2	10/11/2017	10/11/2017 19:29	EPA 8260B	
Surrogate: Dibromofluoromethane			*115 %*	*68.9-141*		*10/11/2017*	*10/11/2017 19:29*	*EPA 8260B*	
Surrogate: Toluene-d8			*104 %*	*73.3-114*		*10/11/2017*	*10/11/2017 19:29*	*EPA 8260B*	
Surrogate: 4-Bromofluorobenzene			*102 %*	*72.2-114*		*10/11/2017*	*10/11/2017 19:29*	*EPA 8260B*	

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708 Heartland Trail, Ste 3000	Project Number: 266431
Madison WI, 53717	Project Manager: Andrew Stehn

MW-5D2

A174009-26 (Water)

Date Sampled
10/04/2017 14:38

Pace Analytical - Madison

Volatile Organic Compounds by Method 8260 - Purge and Trap — **Preparation Batch: A710028**

Analyte	Result	Limit of Detection	Limit of Quantitation	Units	Dilution	Prepared	Analyzed	Method	Qualifiers
1,1,1,2-Tetrachloroethane	ND	2.2	10	ug/L	20	10/10/2017	10/10/2017 19:47	EPA 8260B	
1,1,1-Trichloroethane	ND	2.0	10	ug/L	20	10/10/2017	10/10/2017 19:47	EPA 8260B	
1,1,2,2-Tetrachloroethane	ND	2.0	10	ug/L	20	10/10/2017	10/10/2017 19:47	EPA 8260B	
1,1,2-Trichloroethane	ND	2.0	10	ug/L	20	10/10/2017	10/10/2017 19:47	EPA 8260B	
1,1,2-Trichlorotrifluoroethane	ND	2.6	10	ug/L	20	10/10/2017	10/10/2017 19:47	EPA 8260B	
1,1-Dichloroethane	ND	2.4	10	ug/L	20	10/10/2017	10/10/2017 19:47	EPA 8260B	
1,1-Dichloroethene	ND	2.8	10	ug/L	20	10/10/2017	10/10/2017 19:47	EPA 8260B	
1,1-Dichloropropene	ND	2.2	10	ug/L	20	10/10/2017	10/10/2017 19:47	EPA 8260B	
1,2,3-Trichlorobenzene	ND	0.90	40	ug/L	20	10/10/2017	10/10/2017 19:47	EPA 8260B	
1,2,3-Trichloropropane	ND	3.0	20	ug/L	20	10/10/2017	10/10/2017 19:47	EPA 8260B	
1,2,4-Trichlorobenzene	ND	1.5	40	ug/L	20	10/10/2017	10/10/2017 19:47	EPA 8260B	
1,2,4-Trimethylbenzene	ND	1.2	10	ug/L	20	10/10/2017	10/10/2017 19:47	EPA 8260B	
1,2-Dibromo-3-chloropropane	ND	5.0	10	ug/L	20	10/10/2017	10/10/2017 19:47	EPA 8260B	
1,2-Dibromoethane (EDB)	ND	2.6	10	ug/L	20	10/10/2017	10/10/2017 19:47	EPA 8260B	
1,2-Dichlorobenzene	ND	1.5	10	ug/L	20	10/10/2017	10/10/2017 19:47	EPA 8260B	
1,2-Dichloroethane	ND	1.6	10	ug/L	20	10/10/2017	10/10/2017 19:47	EPA 8260B	
1,2-Dichloropropane	ND	2.0	10	ug/L	20	10/10/2017	10/10/2017 19:47	EPA 8260B	
1,3,5-Trimethylbenzene	ND	1.5	10	ug/L	20	10/10/2017	10/10/2017 19:47	EPA 8260B	
1,3-Dichlorobenzene	ND	1.9	10	ug/L	20	10/10/2017	10/10/2017 19:47	EPA 8260B	
1,3-Dichloropropane	ND	2.2	10	ug/L	20	10/10/2017	10/10/2017 19:47	EPA 8260B	
1,4-Dichlorobenzene	ND	1.4	10	ug/L	20	10/10/2017	10/10/2017 19:47	EPA 8260B	
2,2-Dichloropropane	ND	2.8	10	ug/L	20	10/10/2017	10/10/2017 19:47	EPA 8260B	
2-Butanone	ND	60	400	ug/L	20	10/10/2017	10/10/2017 19:47	EPA 8260B	
2-Chlorotoluene	ND	1.5	10	ug/L	20	10/10/2017	10/10/2017 19:47	EPA 8260B	
2-Hexanone	ND	19	400	ug/L	20	10/10/2017	10/10/2017 19:47	EPA 8260B	
4-Chlorotoluene	ND	1.5	10	ug/L	20	10/10/2017	10/10/2017 19:47	EPA 8260B	
4-Methyl-2-pentanone	ND	15	400	ug/L	20	10/10/2017	10/10/2017 19:47	EPA 8260B	
Acetone	ND	68	400	ug/L	20	10/10/2017	10/10/2017 19:47	EPA 8260B	
Benzene	ND	1.8	10	ug/L	20	10/10/2017	10/10/2017 19:47	EPA 8260B	
Bromobenzene	ND	1.7	10	ug/L	20	10/10/2017	10/10/2017 19:47	EPA 8260B	
Bromochloromethane	ND	6.2	10	ug/L	20	10/10/2017	10/10/2017 19:47	EPA 8260B	
Bromodichloromethane	ND	1.5	10	ug/L	20	10/10/2017	10/10/2017 19:47	EPA 8260B	
Bromoform	ND	1.8	10	ug/L	20	10/10/2017	10/10/2017 19:47	EPA 8260B	
Bromomethane	ND	12	100	ug/L	20	10/10/2017	10/10/2017 19:47	EPA 8260B	
Carbon disulfide	ND	1.1	10	ug/L	20	10/10/2017	10/10/2017 19:47	EPA 8260B	
Carbon tetrachloride	ND	0.76	10	ug/L	20	10/10/2017	10/10/2017 19:47	EPA 8260B	
Chlorobenzene	ND	1.5	10	ug/L	20	10/10/2017	10/10/2017 19:47	EPA 8260B	
Chloroethane	ND	5.0	100	ug/L	20	10/10/2017	10/10/2017 19:47	EPA 8260B	
Chloroform	ND	1.2	10	ug/L	20	10/10/2017	10/10/2017 19:47	EPA 8260B	
Chloromethane	**4.2**	3.2	40	ug/L	20	10/10/2017	10/10/2017 19:47	EPA 8260B	HC, J, D

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708 Heartland Trail, Ste 3000	Project Number: 266431
Madison WI, 53717	Project Manager: Andrew Stehn

MW-5D2

A174009-26 (Water)

Date Sampled
10/04/2017 14:38

Pace Analytical - Madison

Volatile Organic Compounds by Method 8260 - Purge and Trap — **Preparation Batch: A710028**

Analyte	Result	Limit of Detection	Limit of Quantitation	Units	Dilution	Prepared	Analyzed	Method	Qualifiers
cis-1,2-Dichloroethene	**4.8**	2.2	10	ug/L	20	10/10/2017	10/10/2017 19:47	EPA 8260B	J, D
cis-1,3-Dichloropropene	ND	1.2	10	ug/L	20	10/10/2017	10/10/2017 19:47	EPA 8260B	
Dibromochloromethane	ND	1.8	10	ug/L	20	10/10/2017	10/10/2017 19:47	EPA 8260B	
Dibromomethane	ND	2.8	10	ug/L	20	10/10/2017	10/10/2017 19:47	EPA 8260B	
Dichlorodifluoromethane	ND	2.2	10	ug/L	20	10/10/2017	10/10/2017 19:47	EPA 8260B	
Diisopropyl Ether	ND	3.0	10	ug/L	20	10/10/2017	10/10/2017 19:47	EPA 8260B	
Ethylbenzene	ND	1.1	10	ug/L	20	10/10/2017	10/10/2017 19:47	EPA 8260B	
Hexachlorobutadiene	ND	2.6	40	ug/L	20	10/10/2017	10/10/2017 19:47	EPA 8260B	
Isopropylbenzene	ND	1.6	10	ug/L	20	10/10/2017	10/10/2017 19:47	EPA 8260B	
m,p-Xylene	**1.2**	1.1	20	ug/L	20	10/10/2017	10/10/2017 19:47	EPA 8260B	B, J, D
Methyl t-Butyl Ether	ND	2.8	10	ug/L	20	10/10/2017	10/10/2017 19:47	EPA 8260B	
Methylene chloride	ND	2.8	40	ug/L	20	10/10/2017	10/10/2017 19:47	EPA 8260B	
Naphthalene	ND	1.8	100	ug/L	20	10/10/2017	10/10/2017 19:47	EPA 8260B	
n-Butyl Benzene	ND	2.8	10	ug/L	20	10/10/2017	10/10/2017 19:47	EPA 8260B	
n-Hexane	ND	4.2	10	ug/L	20	10/10/2017	10/10/2017 19:47	EPA 8260B	
n-Propyl Benzene	ND	2.0	10	ug/L	20	10/10/2017	10/10/2017 19:47	EPA 8260B	
o-Xylene	ND	1.2	10	ug/L	20	10/10/2017	10/10/2017 19:47	EPA 8260B	
p-Isopropyltoluene	ND	1.7	10	ug/L	20	10/10/2017	10/10/2017 19:47	EPA 8260B	
sec-Butyl Benzene	ND	2.6	10	ug/L	20	10/10/2017	10/10/2017 19:47	EPA 8260B	
Styrene	**1.4**	1.3	10	ug/L	20	10/10/2017	10/10/2017 19:47	EPA 8260B	B, J, D
tert-Butylbenzene	ND	2.4	10	ug/L	20	10/10/2017	10/10/2017 19:47	EPA 8260B	
Tetrachloroethene	**940**	1.6	10	ug/L	20	10/10/2017	10/10/2017 19:47	EPA 8260B	D
Tetrahydrofuran	ND	24	200	ug/L	20	10/10/2017	10/10/2017 19:47	EPA 8260B	
Toluene	**1.2**	1.1	10	ug/L	20	10/10/2017	10/10/2017 19:47	EPA 8260B	B, J, D
trans-1,2-Dichloroethene	ND	2.2	10	ug/L	20	10/10/2017	10/10/2017 19:47	EPA 8260B	
trans-1,3-Dichloropropene	ND	1.9	10	ug/L	20	10/10/2017	10/10/2017 19:47	EPA 8260B	
Trichloroethene	**12**	1.2	10	ug/L	20	10/10/2017	10/10/2017 19:47	EPA 8260B	D
Trichlorofluoromethane	ND	2.6	10	ug/L	20	10/10/2017	10/10/2017 19:47	EPA 8260B	
Vinyl chloride	ND	3.2	10	ug/L	20	10/10/2017	10/10/2017 19:47	EPA 8260B	
Xylenes, total	ND	2.3	30	ug/L	20	10/10/2017	10/10/2017 19:47	EPA 8260B	
Surrogate: Dibromofluoromethane			*107 %*	*68.9-141*		*10/10/2017*	*10/10/2017 19:47*	*EPA 8260B*	
Surrogate: Toluene-d8			*97.4 %*	*73.3-114*		*10/10/2017*	*10/10/2017 19:47*	*EPA 8260B*	
Surrogate: 4-Bromofluorobenzene			*91.4 %*	*72.2-114*		*10/10/2017*	*10/10/2017 19:47*	*EPA 8260B*	

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708 Heartland Trail, Ste 3000	Project Number: 266431
Madison WI, 53717	Project Manager: Andrew Stehn

MW-9D2

A174009-27 (Water)

Date Sampled
10/04/2017 16:28

Pace Analytical - Madison

Volatile Organic Compounds by Method 8260 - Purge and Trap — **Preparation Batch: A710028**

Analyte	Result	Limit of Detection	Limit of Quantitation	Units	Dilution	Prepared	Analyzed	Method	Qualifiers
1,1,1,2-Tetrachloroethane	ND	0.11	0.50	ug/L	1	10/10/2017	10/10/2017 14:08	EPA 8260B	
1,1,1-Trichloroethane	ND	0.10	0.50	ug/L	1	10/10/2017	10/10/2017 14:08	EPA 8260B	
1,1,2,2-Tetrachloroethane	ND	0.099	0.50	ug/L	1	10/10/2017	10/10/2017 14:08	EPA 8260B	
1,1,2-Trichloroethane	ND	0.10	0.50	ug/L	1	10/10/2017	10/10/2017 14:08	EPA 8260B	
1,1,2-Trichlorotrifluoroethane	ND	0.13	0.50	ug/L	1	10/10/2017	10/10/2017 14:08	EPA 8260B	
1,1-Dichloroethane	ND	0.12	0.50	ug/L	1	10/10/2017	10/10/2017 14:08	EPA 8260B	
1,1-Dichloroethene	ND	0.14	0.50	ug/L	1	10/10/2017	10/10/2017 14:08	EPA 8260B	
1,1-Dichloropropene	ND	0.11	0.50	ug/L	1	10/10/2017	10/10/2017 14:08	EPA 8260B	
1,2,3-Trichlorobenzene	ND	0.045	2.0	ug/L	1	10/10/2017	10/10/2017 14:08	EPA 8260B	
1,2,3-Trichloropropane	ND	0.15	1.0	ug/L	1	10/10/2017	10/10/2017 14:08	EPA 8260B	
1,2,4-Trichlorobenzene	ND	0.077	2.0	ug/L	1	10/10/2017	10/10/2017 14:08	EPA 8260B	
1,2,4-Trimethylbenzene	ND	0.060	0.50	ug/L	1	10/10/2017	10/10/2017 14:08	EPA 8260B	
1,2-Dibromo-3-chloropropane	ND	0.25	0.50	ug/L	1	10/10/2017	10/10/2017 14:08	EPA 8260B	
1,2-Dibromoethane (EDB)	ND	0.13	0.50	ug/L	1	10/10/2017	10/10/2017 14:08	EPA 8260B	
1,2-Dichlorobenzene	ND	0.076	0.50	ug/L	1	10/10/2017	10/10/2017 14:08	EPA 8260B	
1,2-Dichloroethane	ND	0.078	0.50	ug/L	1	10/10/2017	10/10/2017 14:08	EPA 8260B	
1,2-Dichloropropane	ND	0.10	0.50	ug/L	1	10/10/2017	10/10/2017 14:08	EPA 8260B	
1,3,5-Trimethylbenzene	ND	0.075	0.50	ug/L	1	10/10/2017	10/10/2017 14:08	EPA 8260B	
1,3-Dichlorobenzene	ND	0.096	0.50	ug/L	1	10/10/2017	10/10/2017 14:08	EPA 8260B	
1,3-Dichloropropane	ND	0.11	0.50	ug/L	1	10/10/2017	10/10/2017 14:08	EPA 8260B	
1,4-Dichlorobenzene	ND	0.070	0.50	ug/L	1	10/10/2017	10/10/2017 14:08	EPA 8260B	
2,2-Dichloropropane	ND	0.14	0.50	ug/L	1	10/10/2017	10/10/2017 14:08	EPA 8260B	
2-Butanone	ND	3.0	20	ug/L	1	10/10/2017	10/10/2017 14:08	EPA 8260B	
2-Chlorotoluene	ND	0.075	0.50	ug/L	1	10/10/2017	10/10/2017 14:08	EPA 8260B	
2-Hexanone	ND	0.95	20	ug/L	1	10/10/2017	10/10/2017 14:08	EPA 8260B	
4-Chlorotoluene	ND	0.073	0.50	ug/L	1	10/10/2017	10/10/2017 14:08	EPA 8260B	
4-Methyl-2-pentanone	ND	0.77	20	ug/L	1	10/10/2017	10/10/2017 14:08	EPA 8260B	
Acetone	**6.4**	3.4	20	ug/L	1	10/10/2017	10/10/2017 14:08	EPA 8260B	B, J
Benzene	**0.090**	0.089	0.50	ug/L	1	10/10/2017	10/10/2017 14:08	EPA 8260B	J
Bromobenzene	ND	0.084	0.50	ug/L	1	10/10/2017	10/10/2017 14:08	EPA 8260B	
Bromochloromethane	ND	0.31	0.50	ug/L	1	10/10/2017	10/10/2017 14:08	EPA 8260B	
Bromodichloromethane	ND	0.077	0.50	ug/L	1	10/10/2017	10/10/2017 14:08	EPA 8260B	
Bromoform	ND	0.088	0.50	ug/L	1	10/10/2017	10/10/2017 14:08	EPA 8260B	
Bromomethane	ND	0.59	5.0	ug/L	1	10/10/2017	10/10/2017 14:08	EPA 8260B	
Carbon disulfide	ND	0.053	0.50	ug/L	1	10/10/2017	10/10/2017 14:08	EPA 8260B	
Carbon tetrachloride	ND	0.038	0.50	ug/L	1	10/10/2017	10/10/2017 14:08	EPA 8260B	
Chlorobenzene	ND	0.073	0.50	ug/L	1	10/10/2017	10/10/2017 14:08	EPA 8260B	
Chloroethane	ND	0.25	5.0	ug/L	1	10/10/2017	10/10/2017 14:08	EPA 8260B	
Chloroform	ND	0.062	0.50	ug/L	1	10/10/2017	10/10/2017 14:08	EPA 8260B	
Chloromethane	**1.4**	0.16	2.0	ug/L	1	10/10/2017	10/10/2017 14:08	EPA 8260B	HC, J

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Madison WI, 53717

Project: Madison Kipp Corp. Semi-Annual Sampling
Project Number: 266431
Project Manager: Andrew Stehn

MW-9D2

A174009-27 (Water)

Date Sampled
10/04/2017 16:28

Pace Analytical - Madison

Volatile Organic Compounds by Method 8260 - Purge and Trap — **Preparation Batch: A710028**

Analyte	Result	Limit of Detection	Limit of Quantitation	Units	Dilution	Prepared	Analyzed	Method	Qualifiers
cis-1,2-Dichloroethene	**32**	0.11	0.50	ug/L	1	10/10/2017	10/10/2017 14:08	EPA 8260B	
cis-1,3-Dichloropropene	ND	0.061	0.50	ug/L	1	10/10/2017	10/10/2017 14:08	EPA 8260B	
Dibromochloromethane	ND	0.091	0.50	ug/L	1	10/10/2017	10/10/2017 14:08	EPA 8260B	
Dibromomethane	ND	0.14	0.50	ug/L	1	10/10/2017	10/10/2017 14:08	EPA 8260B	
Dichlorodifluoromethane	**0.63**	0.11	0.50	ug/L	1	10/10/2017	10/10/2017 14:08	EPA 8260B	
Diisopropyl Ether	ND	0.15	0.50	ug/L	1	10/10/2017	10/10/2017 14:08	EPA 8260B	
Ethylbenzene	ND	0.054	0.50	ug/L	1	10/10/2017	10/10/2017 14:08	EPA 8260B	
Hexachlorobutadiene	ND	0.13	2.0	ug/L	1	10/10/2017	10/10/2017 14:08	EPA 8260B	
Isopropylbenzene	ND	0.081	0.50	ug/L	1	10/10/2017	10/10/2017 14:08	EPA 8260B	
m,p-Xylene	ND	0.057	1.0	ug/L	1	10/10/2017	10/10/2017 14:08	EPA 8260B	
Methyl t-Butyl Ether	**38**	0.14	0.50	ug/L	1	10/10/2017	10/10/2017 14:08	EPA 8260B	
Methylene chloride	ND	0.14	2.0	ug/L	1	10/10/2017	10/10/2017 14:08	EPA 8260B	
Naphthalene	ND	0.088	5.0	ug/L	1	10/10/2017	10/10/2017 14:08	EPA 8260B	
n-Butyl Benzene	ND	0.14	0.50	ug/L	1	10/10/2017	10/10/2017 14:08	EPA 8260B	
n-Hexane	ND	0.21	0.50	ug/L	1	10/10/2017	10/10/2017 14:08	EPA 8260B	
n-Propyl Benzene	ND	0.10	0.50	ug/L	1	10/10/2017	10/10/2017 14:08	EPA 8260B	
o-Xylene	ND	0.058	0.50	ug/L	1	10/10/2017	10/10/2017 14:08	EPA 8260B	
p-Isopropyltoluene	ND	0.085	0.50	ug/L	1	10/10/2017	10/10/2017 14:08	EPA 8260B	
sec-Butyl Benzene	ND	0.13	0.50	ug/L	1	10/10/2017	10/10/2017 14:08	EPA 8260B	
Styrene	**0.080**	0.065	0.50	ug/L	1	10/10/2017	10/10/2017 14:08	EPA 8260B	B, J
tert-Butylbenzene	ND	0.12	0.50	ug/L	1	10/10/2017	10/10/2017 14:08	EPA 8260B	
Tetrachloroethene	**49**	0.16	1.0	ug/L	2	10/10/2017	10/11/2017 02:50	EPA 8260B	D
Tetrahydrofuran	ND	1.2	10	ug/L	1	10/10/2017	10/10/2017 14:08	EPA 8260B	
Toluene	ND	0.053	0.50	ug/L	1	10/10/2017	10/10/2017 14:08	EPA 8260B	
trans-1,2-Dichloroethene	**0.65**	0.11	0.50	ug/L	1	10/10/2017	10/10/2017 14:08	EPA 8260B	
trans-1,3-Dichloropropene	ND	0.096	0.50	ug/L	1	10/10/2017	10/10/2017 14:08	EPA 8260B	
Trichloroethene	**14**	0.062	0.50	ug/L	1	10/10/2017	10/10/2017 14:08	EPA 8260B	
Trichlorofluoromethane	ND	0.13	0.50	ug/L	1	10/10/2017	10/10/2017 14:08	EPA 8260B	
Vinyl chloride	**0.59**	0.16	0.50	ug/L	1	10/10/2017	10/10/2017 14:08	EPA 8260B	HC
Xylenes, total	ND	0.12	1.5	ug/L	1	10/10/2017	10/10/2017 14:08	EPA 8260B	
Surrogate: Dibromofluoromethane			*101 %*	*68.9-141*		*10/10/2017*	*10/10/2017 14:08*	*EPA 8260B*	
Surrogate: Toluene-d8			*97.0 %*	*73.3-114*		*10/10/2017*	*10/10/2017 14:08*	*EPA 8260B*	
Surrogate: 4-Bromofluorobenzene			*90.5 %*	*72.2-114*		*10/10/2017*	*10/10/2017 14:08*	*EPA 8260B*	

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Madison WI, 53717	Project Manager: Andrew Stehn

MW-1

A174009-28 (Water)

Date Sampled
10/04/2017 16:35

Pace Analytical - Madison

Volatile Organic Compounds by Method 8260 - Purge and Trap — **Preparation Batch: A710028**

Analyte	Result	Limit of Detection	Limit of Quantitation	Units	Dilution	Prepared	Analyzed	Method	Qualifiers
1,1,1,2-Tetrachloroethane	ND	0.11	0.50	ug/L	1	10/10/2017	10/10/2017 14:37	EPA 8260B	
1,1,1-Trichloroethane	ND	0.10	0.50	ug/L	1	10/10/2017	10/10/2017 14:37	EPA 8260B	
1,1,2,2-Tetrachloroethane	ND	0.099	0.50	ug/L	1	10/10/2017	10/10/2017 14:37	EPA 8260B	
1,1,2-Trichloroethane	ND	0.10	0.50	ug/L	1	10/10/2017	10/10/2017 14:37	EPA 8260B	
1,1,2-Trichlorotrifluoroethane	ND	0.13	0.50	ug/L	1	10/10/2017	10/10/2017 14:37	EPA 8260B	
1,1-Dichloroethane	ND	0.12	0.50	ug/L	1	10/10/2017	10/10/2017 14:37	EPA 8260B	
1,1-Dichloroethene	ND	0.14	0.50	ug/L	1	10/10/2017	10/10/2017 14:37	EPA 8260B	
1,1-Dichloropropene	ND	0.11	0.50	ug/L	1	10/10/2017	10/10/2017 14:37	EPA 8260B	
1,2,3-Trichlorobenzene	ND	0.045	2.0	ug/L	1	10/10/2017	10/10/2017 14:37	EPA 8260B	
1,2,3-Trichloropropane	ND	0.15	1.0	ug/L	1	10/10/2017	10/10/2017 14:37	EPA 8260B	
1,2,4-Trichlorobenzene	ND	0.077	2.0	ug/L	1	10/10/2017	10/10/2017 14:37	EPA 8260B	
1,2,4-Trimethylbenzene	ND	0.060	0.50	ug/L	1	10/10/2017	10/10/2017 14:37	EPA 8260B	
1,2-Dibromo-3-chloropropane	ND	0.25	0.50	ug/L	1	10/10/2017	10/10/2017 14:37	EPA 8260B	
1,2-Dibromoethane (EDB)	ND	0.13	0.50	ug/L	1	10/10/2017	10/10/2017 14:37	EPA 8260B	
1,2-Dichlorobenzene	ND	0.076	0.50	ug/L	1	10/10/2017	10/10/2017 14:37	EPA 8260B	
1,2-Dichloroethane	ND	0.078	0.50	ug/L	1	10/10/2017	10/10/2017 14:37	EPA 8260B	
1,2-Dichloropropane	ND	0.10	0.50	ug/L	1	10/10/2017	10/10/2017 14:37	EPA 8260B	
1,3,5-Trimethylbenzene	ND	0.075	0.50	ug/L	1	10/10/2017	10/10/2017 14:37	EPA 8260B	
1,3-Dichlorobenzene	ND	0.096	0.50	ug/L	1	10/10/2017	10/10/2017 14:37	EPA 8260B	
1,3-Dichloropropane	ND	0.11	0.50	ug/L	1	10/10/2017	10/10/2017 14:37	EPA 8260B	
1,4-Dichlorobenzene	ND	0.070	0.50	ug/L	1	10/10/2017	10/10/2017 14:37	EPA 8260B	
2,2-Dichloropropane	ND	0.14	0.50	ug/L	1	10/10/2017	10/10/2017 14:37	EPA 8260B	
2-Butanone	ND	3.0	20	ug/L	1	10/10/2017	10/10/2017 14:37	EPA 8260B	
2-Chlorotoluene	ND	0.075	0.50	ug/L	1	10/10/2017	10/10/2017 14:37	EPA 8260B	
2-Hexanone	ND	0.95	20	ug/L	1	10/10/2017	10/10/2017 14:37	EPA 8260B	
4-Chlorotoluene	ND	0.073	0.50	ug/L	1	10/10/2017	10/10/2017 14:37	EPA 8260B	
4-Methyl-2-pentanone	ND	0.77	20	ug/L	1	10/10/2017	10/10/2017 14:37	EPA 8260B	
Acetone	**7.5**	3.4	20	ug/L	1	10/10/2017	10/10/2017 14:37	EPA 8260B	B, J
Benzene	ND	0.089	0.50	ug/L	1	10/10/2017	10/10/2017 14:37	EPA 8260B	
Bromobenzene	ND	0.084	0.50	ug/L	1	10/10/2017	10/10/2017 14:37	EPA 8260B	
Bromochloromethane	ND	0.31	0.50	ug/L	1	10/10/2017	10/10/2017 14:37	EPA 8260B	
Bromodichloromethane	ND	0.077	0.50	ug/L	1	10/10/2017	10/10/2017 14:37	EPA 8260B	
Bromoform	ND	0.088	0.50	ug/L	1	10/10/2017	10/10/2017 14:37	EPA 8260B	
Bromomethane	ND	0.59	5.0	ug/L	1	10/10/2017	10/10/2017 14:37	EPA 8260B	
Carbon disulfide	ND	0.053	0.50	ug/L	1	10/10/2017	10/10/2017 14:37	EPA 8260B	
Carbon tetrachloride	ND	0.038	0.50	ug/L	1	10/10/2017	10/10/2017 14:37	EPA 8260B	
Chlorobenzene	ND	0.073	0.50	ug/L	1	10/10/2017	10/10/2017 14:37	EPA 8260B	
Chloroethane	ND	0.25	5.0	ug/L	1	10/10/2017	10/10/2017 14:37	EPA 8260B	
Chloroform	ND	0.062	0.50	ug/L	1	10/10/2017	10/10/2017 14:37	EPA 8260B	
Chloromethane	**2.2**	0.16	2.0	ug/L	1	10/10/2017	10/10/2017 14:37	EPA 8260B	HC

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708 Heartland Trail, Ste 3000
Madison WI, 53717

Project: Madison Kipp Corp. Semi-Annual Sampling
Project Number: 266431
Project Manager: Andrew Stehn

MW-1

A174009-28 (Water)

Date Sampled
10/04/2017 16:35

Pace Analytical - Madison

Volatile Organic Compounds by Method 8260 - Purge and Trap — **Preparation Batch: A710028**

Analyte	Result	Limit of Detection	Limit of Quantitation	Units	Dilution	Prepared	Analyzed	Method	Qualifiers
cis-1,2-Dichloroethene	**2.8**	0.11	0.50	ug/L	1	10/10/2017	10/10/2017 14:37	EPA 8260B	
cis-1,3-Dichloropropene	ND	0.061	0.50	ug/L	1	10/10/2017	10/10/2017 14:37	EPA 8260B	
Dibromochloromethane	ND	0.091	0.50	ug/L	1	10/10/2017	10/10/2017 14:37	EPA 8260B	
Dibromomethane	ND	0.14	0.50	ug/L	1	10/10/2017	10/10/2017 14:37	EPA 8260B	
Dichlorodifluoromethane	ND	0.11	0.50	ug/L	1	10/10/2017	10/10/2017 14:37	EPA 8260B	
Diisopropyl Ether	ND	0.15	0.50	ug/L	1	10/10/2017	10/10/2017 14:37	EPA 8260B	
Ethylbenzene	ND	0.054	0.50	ug/L	1	10/10/2017	10/10/2017 14:37	EPA 8260B	
Hexachlorobutadiene	ND	0.13	2.0	ug/L	1	10/10/2017	10/10/2017 14:37	EPA 8260B	
Isopropylbenzene	ND	0.081	0.50	ug/L	1	10/10/2017	10/10/2017 14:37	EPA 8260B	
m,p-Xylene	ND	0.057	1.0	ug/L	1	10/10/2017	10/10/2017 14:37	EPA 8260B	
Methyl t-Butyl Ether	ND	0.14	0.50	ug/L	1	10/10/2017	10/10/2017 14:37	EPA 8260B	
Methylene chloride	ND	0.14	2.0	ug/L	1	10/10/2017	10/10/2017 14:37	EPA 8260B	
Naphthalene	ND	0.088	5.0	ug/L	1	10/10/2017	10/10/2017 14:37	EPA 8260B	
n-Butyl Benzene	ND	0.14	0.50	ug/L	1	10/10/2017	10/10/2017 14:37	EPA 8260B	
n-Hexane	ND	0.21	0.50	ug/L	1	10/10/2017	10/10/2017 14:37	EPA 8260B	
n-Propyl Benzene	ND	0.10	0.50	ug/L	1	10/10/2017	10/10/2017 14:37	EPA 8260B	
o-Xylene	ND	0.058	0.50	ug/L	1	10/10/2017	10/10/2017 14:37	EPA 8260B	
p-Isopropyltoluene	ND	0.085	0.50	ug/L	1	10/10/2017	10/10/2017 14:37	EPA 8260B	
sec-Butyl Benzene	ND	0.13	0.50	ug/L	1	10/10/2017	10/10/2017 14:37	EPA 8260B	
Styrene	**0.070**	0.065	0.50	ug/L	1	10/10/2017	10/10/2017 14:37	EPA 8260B	B, J
tert-Butylbenzene	ND	0.12	0.50	ug/L	1	10/10/2017	10/10/2017 14:37	EPA 8260B	
Tetrachloroethene	**4.0**	0.081	0.50	ug/L	1	10/10/2017	10/10/2017 14:37	EPA 8260B	
Tetrahydrofuran	ND	1.2	10	ug/L	1	10/10/2017	10/10/2017 14:37	EPA 8260B	
Toluene	ND	0.053	0.50	ug/L	1	10/10/2017	10/10/2017 14:37	EPA 8260B	
trans-1,2-Dichloroethene	**0.16**	0.11	0.50	ug/L	1	10/10/2017	10/10/2017 14:37	EPA 8260B	J
trans-1,3-Dichloropropene	ND	0.096	0.50	ug/L	1	10/10/2017	10/10/2017 14:37	EPA 8260B	
Trichloroethene	**2.0**	0.062	0.50	ug/L	1	10/10/2017	10/10/2017 14:37	EPA 8260B	
Trichlorofluoromethane	ND	0.13	0.50	ug/L	1	10/10/2017	10/10/2017 14:37	EPA 8260B	
Vinyl chloride	ND	0.16	0.50	ug/L	1	10/10/2017	10/10/2017 14:37	EPA 8260B	
Xylenes, total	ND	0.12	1.5	ug/L	1	10/10/2017	10/10/2017 14:37	EPA 8260B	
Surrogate: Dibromofluoromethane			*98.4 %*	*68.9-141*		*10/10/2017*	*10/10/2017 14:37*	*EPA 8260B*	
Surrogate: Toluene-d8			*95.1 %*	*73.3-114*		*10/10/2017*	*10/10/2017 14:37*	*EPA 8260B*	
Surrogate: 4-Bromofluorobenzene			*91.2 %*	*72.2-114*		*10/10/2017*	*10/10/2017 14:37*	*EPA 8260B*	

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708 Heartland Trail, Ste 3000	Project Number: 266431
Madison WI, 53717	Project Manager: Andrew Stehn

MW-9D

A174009-29 (Water)

Date Sampled
10/04/2017 17:16

Pace Analytical - Madison

Volatile Organic Compounds by Method 8260 - Purge and Trap — **Preparation Batch: A710028**

Analyte	Result	Limit of Detection	Limit of Quantitation	Units	Dilution	Prepared	Analyzed	Method	Qualifiers
1,1,1,2-Tetrachloroethane	ND	0.11	0.50	ug/L	1	10/10/2017	10/10/2017 15:05	EPA 8260B	
1,1,1-Trichloroethane	ND	0.10	0.50	ug/L	1	10/10/2017	10/10/2017 15:05	EPA 8260B	
1,1,2,2-Tetrachloroethane	ND	0.099	0.50	ug/L	1	10/10/2017	10/10/2017 15:05	EPA 8260B	
1,1,2-Trichloroethane	ND	0.10	0.50	ug/L	1	10/10/2017	10/10/2017 15:05	EPA 8260B	
1,1,2-Trichlorotrifluoroethane	ND	0.13	0.50	ug/L	1	10/10/2017	10/10/2017 15:05	EPA 8260B	
1,1-Dichloroethane	ND	0.12	0.50	ug/L	1	10/10/2017	10/10/2017 15:05	EPA 8260B	
1,1-Dichloroethene	ND	0.14	0.50	ug/L	1	10/10/2017	10/10/2017 15:05	EPA 8260B	
1,1-Dichloropropene	ND	0.11	0.50	ug/L	1	10/10/2017	10/10/2017 15:05	EPA 8260B	
1,2,3-Trichlorobenzene	ND	0.045	2.0	ug/L	1	10/10/2017	10/10/2017 15:05	EPA 8260B	
1,2,3-Trichloropropane	ND	0.15	1.0	ug/L	1	10/10/2017	10/10/2017 15:05	EPA 8260B	
1,2,4-Trichlorobenzene	ND	0.077	2.0	ug/L	1	10/10/2017	10/10/2017 15:05	EPA 8260B	
1,2,4-Trimethylbenzene	ND	0.060	0.50	ug/L	1	10/10/2017	10/10/2017 15:05	EPA 8260B	
1,2-Dibromo-3-chloropropane	ND	0.25	0.50	ug/L	1	10/10/2017	10/10/2017 15:05	EPA 8260B	
1,2-Dibromoethane (EDB)	ND	0.13	0.50	ug/L	1	10/10/2017	10/10/2017 15:05	EPA 8260B	
1,2-Dichlorobenzene	ND	0.076	0.50	ug/L	1	10/10/2017	10/10/2017 15:05	EPA 8260B	
1,2-Dichloroethane	ND	0.078	0.50	ug/L	1	10/10/2017	10/10/2017 15:05	EPA 8260B	
1,2-Dichloropropane	ND	0.10	0.50	ug/L	1	10/10/2017	10/10/2017 15:05	EPA 8260B	
1,3,5-Trimethylbenzene	ND	0.075	0.50	ug/L	1	10/10/2017	10/10/2017 15:05	EPA 8260B	
1,3-Dichlorobenzene	ND	0.096	0.50	ug/L	1	10/10/2017	10/10/2017 15:05	EPA 8260B	
1,3-Dichloropropane	ND	0.11	0.50	ug/L	1	10/10/2017	10/10/2017 15:05	EPA 8260B	
1,4-Dichlorobenzene	ND	0.070	0.50	ug/L	1	10/10/2017	10/10/2017 15:05	EPA 8260B	
2,2-Dichloropropane	ND	0.14	0.50	ug/L	1	10/10/2017	10/10/2017 15:05	EPA 8260B	
2-Butanone	ND	3.0	20	ug/L	1	10/10/2017	10/10/2017 15:05	EPA 8260B	
2-Chlorotoluene	ND	0.075	0.50	ug/L	1	10/10/2017	10/10/2017 15:05	EPA 8260B	
2-Hexanone	ND	0.95	20	ug/L	1	10/10/2017	10/10/2017 15:05	EPA 8260B	
4-Chlorotoluene	ND	0.073	0.50	ug/L	1	10/10/2017	10/10/2017 15:05	EPA 8260B	
4-Methyl-2-pentanone	ND	0.77	20	ug/L	1	10/10/2017	10/10/2017 15:05	EPA 8260B	
Acetone	**17**	3.4	20	ug/L	1	10/10/2017	10/10/2017 15:05	EPA 8260B	B, J
Benzene	ND	0.089	0.50	ug/L	1	10/10/2017	10/10/2017 15:05	EPA 8260B	
Bromobenzene	ND	0.084	0.50	ug/L	1	10/10/2017	10/10/2017 15:05	EPA 8260B	
Bromochloromethane	ND	0.31	0.50	ug/L	1	10/10/2017	10/10/2017 15:05	EPA 8260B	
Bromodichloromethane	ND	0.077	0.50	ug/L	1	10/10/2017	10/10/2017 15:05	EPA 8260B	
Bromoform	ND	0.088	0.50	ug/L	1	10/10/2017	10/10/2017 15:05	EPA 8260B	
Bromomethane	ND	0.59	5.0	ug/L	1	10/10/2017	10/10/2017 15:05	EPA 8260B	
Carbon disulfide	ND	0.053	0.50	ug/L	1	10/10/2017	10/10/2017 15:05	EPA 8260B	
Carbon tetrachloride	**0.090**	0.038	0.50	ug/L	1	10/10/2017	10/10/2017 15:05	EPA 8260B	J
Chlorobenzene	ND	0.073	0.50	ug/L	1	10/10/2017	10/10/2017 15:05	EPA 8260B	
Chloroethane	ND	0.25	5.0	ug/L	1	10/10/2017	10/10/2017 15:05	EPA 8260B	
Chloroform	ND	0.062	0.50	ug/L	1	10/10/2017	10/10/2017 15:05	EPA 8260B	
Chloromethane	**4.7**	0.16	2.0	ug/L	1	10/10/2017	10/10/2017 15:05	EPA 8260B	HC

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708 Heartland Trail, Ste 3000	Project Number: 266431
Madison WI, 53717	Project Manager: Andrew Stehn

MW-9D

A174009-29 (Water)

Date Sampled
10/04/2017 17:16

Pace Analytical - Madison

Volatile Organic Compounds by Method 8260 - Purge and Trap — **Preparation Batch: A710028**

Analyte	Result	Limit of Detection	Limit of Quantitation	Units	Dilution	Prepared	Analyzed	Method	Qualifiers
cis-1,2-Dichloroethene	ND	0.11	0.50	ug/L	1	10/10/2017	10/10/2017 15:05	EPA 8260B	
cis-1,3-Dichloropropene	ND	0.061	0.50	ug/L	1	10/10/2017	10/10/2017 15:05	EPA 8260B	
Dibromochloromethane	ND	0.091	0.50	ug/L	1	10/10/2017	10/10/2017 15:05	EPA 8260B	
Dibromomethane	ND	0.14	0.50	ug/L	1	10/10/2017	10/10/2017 15:05	EPA 8260B	
Dichlorodifluoromethane	ND	0.11	0.50	ug/L	1	10/10/2017	10/10/2017 15:05	EPA 8260B	
Diisopropyl Ether	ND	0.15	0.50	ug/L	1	10/10/2017	10/10/2017 15:05	EPA 8260B	
Ethylbenzene	ND	0.054	0.50	ug/L	1	10/10/2017	10/10/2017 15:05	EPA 8260B	
Hexachlorobutadiene	ND	0.13	2.0	ug/L	1	10/10/2017	10/10/2017 15:05	EPA 8260B	
Isopropylbenzene	ND	0.081	0.50	ug/L	1	10/10/2017	10/10/2017 15:05	EPA 8260B	
m,p-Xylene	ND	0.057	1.0	ug/L	1	10/10/2017	10/10/2017 15:05	EPA 8260B	
Methyl t-Butyl Ether	ND	0.14	0.50	ug/L	1	10/10/2017	10/10/2017 15:05	EPA 8260B	
Methylene chloride	ND	0.14	2.0	ug/L	1	10/10/2017	10/10/2017 15:05	EPA 8260B	
Naphthalene	ND	0.088	5.0	ug/L	1	10/10/2017	10/10/2017 15:05	EPA 8260B	
n-Butyl Benzene	ND	0.14	0.50	ug/L	1	10/10/2017	10/10/2017 15:05	EPA 8260B	
n-Hexane	ND	0.21	0.50	ug/L	1	10/10/2017	10/10/2017 15:05	EPA 8260B	
n-Propyl Benzene	ND	0.10	0.50	ug/L	1	10/10/2017	10/10/2017 15:05	EPA 8260B	
o-Xylene	ND	0.058	0.50	ug/L	1	10/10/2017	10/10/2017 15:05	EPA 8260B	
p-Isopropyltoluene	ND	0.085	0.50	ug/L	1	10/10/2017	10/10/2017 15:05	EPA 8260B	
sec-Butyl Benzene	ND	0.13	0.50	ug/L	1	10/10/2017	10/10/2017 15:05	EPA 8260B	
Styrene	**0.080**	0.065	0.50	ug/L	1	10/10/2017	10/10/2017 15:05	EPA 8260B	B, J
tert-Butylbenzene	ND	0.12	0.50	ug/L	1	10/10/2017	10/10/2017 15:05	EPA 8260B	
Tetrachloroethene	ND	0.081	0.50	ug/L	1	10/10/2017	10/10/2017 15:05	EPA 8260B	
Tetrahydrofuran	ND	1.2	10	ug/L	1	10/10/2017	10/10/2017 15:05	EPA 8260B	
Toluene	ND	0.053	0.50	ug/L	1	10/10/2017	10/10/2017 15:05	EPA 8260B	
trans-1,2-Dichloroethene	ND	0.11	0.50	ug/L	1	10/10/2017	10/10/2017 15:05	EPA 8260B	
trans-1,3-Dichloropropene	ND	0.096	0.50	ug/L	1	10/10/2017	10/10/2017 15:05	EPA 8260B	
Trichloroethene	ND	0.062	0.50	ug/L	1	10/10/2017	10/10/2017 15:05	EPA 8260B	
Trichlorofluoromethane	ND	0.13	0.50	ug/L	1	10/10/2017	10/10/2017 15:05	EPA 8260B	
Vinyl chloride	ND	0.16	0.50	ug/L	1	10/10/2017	10/10/2017 15:05	EPA 8260B	
Xylenes, total	ND	0.12	1.5	ug/L	1	10/10/2017	10/10/2017 15:05	EPA 8260B	
Surrogate: Dibromofluoromethane			*98.2 %*	*68.9-141*		*10/10/2017*	*10/10/2017 15:05*	*EPA 8260B*	
Surrogate: Toluene-d8			*96.7 %*	*73.3-114*		*10/10/2017*	*10/10/2017 15:05*	*EPA 8260B*	
Surrogate: 4-Bromofluorobenzene			*88.7 %*	*72.2-114*		*10/10/2017*	*10/10/2017 15:05*	*EPA 8260B*	

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708 Heartland Trail, Ste 3000	Project Number: 266431
Madison WI, 53717	Project Manager: Andrew Stehn

MW-2D

A174009-30 (Water)

Date Sampled
10/04/2017 17:50

Pace Analytical - Madison

Volatile Organic Compounds by Method 8260 - Purge and Trap — **Preparation Batch: A710045**

Analyte	Result	Limit of Detection	Limit of Quantitation	Units	Dilution	Prepared	Analyzed	Method	Qualifiers
1,1,1,2-Tetrachloroethane	ND	0.11	0.50	ug/L	1	10/11/2017	10/11/2017 15:34	EPA 8260B	
1,1,1-Trichloroethane	ND	0.10	0.50	ug/L	1	10/11/2017	10/11/2017 15:34	EPA 8260B	
1,1,2,2-Tetrachloroethane	ND	0.099	0.50	ug/L	1	10/11/2017	10/11/2017 15:34	EPA 8260B	
1,1,2-Trichloroethane	ND	0.10	0.50	ug/L	1	10/11/2017	10/11/2017 15:34	EPA 8260B	
1,1,2-Trichlorotrifluoroethane	ND	0.13	0.50	ug/L	1	10/11/2017	10/11/2017 15:34	EPA 8260B	
1,1-Dichloroethane	ND	0.12	0.50	ug/L	1	10/11/2017	10/11/2017 15:34	EPA 8260B	
1,1-Dichloroethene	ND	0.14	0.50	ug/L	1	10/11/2017	10/11/2017 15:34	EPA 8260B	
1,1-Dichloropropene	ND	0.11	0.50	ug/L	1	10/11/2017	10/11/2017 15:34	EPA 8260B	
1,2,3-Trichlorobenzene	ND	0.045	2.0	ug/L	1	10/11/2017	10/11/2017 15:34	EPA 8260B	
1,2,3-Trichloropropane	ND	0.15	1.0	ug/L	1	10/11/2017	10/11/2017 15:34	EPA 8260B	
1,2,4-Trichlorobenzene	ND	0.077	2.0	ug/L	1	10/11/2017	10/11/2017 15:34	EPA 8260B	
1,2,4-Trimethylbenzene	ND	0.060	0.50	ug/L	1	10/11/2017	10/11/2017 15:34	EPA 8260B	
1,2-Dibromo-3-chloropropane	ND	0.25	0.50	ug/L	1	10/11/2017	10/11/2017 15:34	EPA 8260B	
1,2-Dibromoethane (EDB)	ND	0.13	0.50	ug/L	1	10/11/2017	10/11/2017 15:34	EPA 8260B	
1,2-Dichlorobenzene	ND	0.076	0.50	ug/L	1	10/11/2017	10/11/2017 15:34	EPA 8260B	
1,2-Dichloroethane	ND	0.078	0.50	ug/L	1	10/11/2017	10/11/2017 15:34	EPA 8260B	
1,2-Dichloropropane	ND	0.10	0.50	ug/L	1	10/11/2017	10/11/2017 15:34	EPA 8260B	
1,3,5-Trimethylbenzene	ND	0.075	0.50	ug/L	1	10/11/2017	10/11/2017 15:34	EPA 8260B	
1,3-Dichlorobenzene	ND	0.096	0.50	ug/L	1	10/11/2017	10/11/2017 15:34	EPA 8260B	
1,3-Dichloropropane	ND	0.11	0.50	ug/L	1	10/11/2017	10/11/2017 15:34	EPA 8260B	
1,4-Dichlorobenzene	ND	0.070	0.50	ug/L	1	10/11/2017	10/11/2017 15:34	EPA 8260B	
2,2-Dichloropropane	ND	0.14	0.50	ug/L	1	10/11/2017	10/11/2017 15:34	EPA 8260B	
2-Butanone	ND	3.0	20	ug/L	1	10/11/2017	10/11/2017 15:34	EPA 8260B	
2-Chlorotoluene	ND	0.075	0.50	ug/L	1	10/11/2017	10/11/2017 15:34	EPA 8260B	
2-Hexanone	ND	0.95	20	ug/L	1	10/11/2017	10/11/2017 15:34	EPA 8260B	
4-Chlorotoluene	ND	0.073	0.50	ug/L	1	10/11/2017	10/11/2017 15:34	EPA 8260B	
4-Methyl-2-pentanone	ND	0.77	20	ug/L	1	10/11/2017	10/11/2017 15:34	EPA 8260B	
Acetone	ND	3.4	20	ug/L	1	10/11/2017	10/11/2017 15:34	EPA 8260B	
Benzene	ND	0.089	0.50	ug/L	1	10/11/2017	10/11/2017 15:34	EPA 8260B	
Bromobenzene	ND	0.084	0.50	ug/L	1	10/11/2017	10/11/2017 15:34	EPA 8260B	
Bromochloromethane	ND	0.31	0.50	ug/L	1	10/11/2017	10/11/2017 15:34	EPA 8260B	
Bromodichloromethane	ND	0.077	0.50	ug/L	1	10/11/2017	10/11/2017 15:34	EPA 8260B	
Bromoform	ND	0.088	0.50	ug/L	1	10/11/2017	10/11/2017 15:34	EPA 8260B	
Bromomethane	ND	0.59	5.0	ug/L	1	10/11/2017	10/11/2017 15:34	EPA 8260B	
Carbon disulfide	ND	0.053	0.50	ug/L	1	10/11/2017	10/11/2017 15:34	EPA 8260B	X
Carbon tetrachloride	ND	0.038	0.50	ug/L	1	10/11/2017	10/11/2017 15:34	EPA 8260B	
Chlorobenzene	ND	0.073	0.50	ug/L	1	10/11/2017	10/11/2017 15:34	EPA 8260B	
Chloroethane	ND	0.25	5.0	ug/L	1	10/11/2017	10/11/2017 15:34	EPA 8260B	
Chloroform	ND	0.062	0.50	ug/L	1	10/11/2017	10/11/2017 15:34	EPA 8260B	
Chloromethane	**1.4**	0.16	2.0	ug/L	1	10/11/2017	10/11/2017 15:34	EPA 8260B	J

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TRC Environmental Corporation, Inc.	Project: Madison Kipp Corp. Semi-Annual Sampling
708 Heartland Trail, Ste 3000	Project Number: 266431
Madison WI, 53717	Project Manager: Andrew Stehn

MW-2D

A174009-30 (Water)

Date Sampled
10/04/2017 17:50

Pace Analytical - Madison

Volatile Organic Compounds by Method 8260 - Purge and Trap — **Preparation Batch: A710045**

Analyte	Result	Limit of Detection	Limit of Quantitation	Units	Dilution	Prepared	Analyzed	Method	Qualifiers
cis-1,2-Dichloroethene	ND	0.11	0.50	ug/L	1	10/11/2017	10/11/2017 15:34	EPA 8260B	
cis-1,3-Dichloropropene	ND	0.061	0.50	ug/L	1	10/11/2017	10/11/2017 15:34	EPA 8260B	
Dibromochloromethane	ND	0.091	0.50	ug/L	1	10/11/2017	10/11/2017 15:34	EPA 8260B	
Dibromomethane	ND	0.14	0.50	ug/L	1	10/11/2017	10/11/2017 15:34	EPA 8260B	
Dichlorodifluoromethane	ND	0.11	0.50	ug/L	1	10/11/2017	10/11/2017 15:34	EPA 8260B	
Diisopropyl Ether	ND	0.15	0.50	ug/L	1	10/11/2017	10/11/2017 15:34	EPA 8260B	
Ethylbenzene	ND	0.054	0.50	ug/L	1	10/11/2017	10/11/2017 15:34	EPA 8260B	
Hexachlorobutadiene	ND	0.13	2.0	ug/L	1	10/11/2017	10/11/2017 15:34	EPA 8260B	
Isopropylbenzene	ND	0.081	0.50	ug/L	1	10/11/2017	10/11/2017 15:34	EPA 8260B	
m,p-Xylene	ND	0.057	1.0	ug/L	1	10/11/2017	10/11/2017 15:34	EPA 8260B	
Methyl t-Butyl Ether	ND	0.14	0.50	ug/L	1	10/11/2017	10/11/2017 15:34	EPA 8260B	
Methylene chloride	ND	0.14	2.0	ug/L	1	10/11/2017	10/11/2017 15:34	EPA 8260B	
Naphthalene	ND	0.088	5.0	ug/L	1	10/11/2017	10/11/2017 15:34	EPA 8260B	
n-Butyl Benzene	ND	0.14	0.50	ug/L	1	10/11/2017	10/11/2017 15:34	EPA 8260B	
n-Hexane	ND	0.21	0.50	ug/L	1	10/11/2017	10/11/2017 15:34	EPA 8260B	
n-Propyl Benzene	ND	0.10	0.50	ug/L	1	10/11/2017	10/11/2017 15:34	EPA 8260B	
o-Xylene	ND	0.058	0.50	ug/L	1	10/11/2017	10/11/2017 15:34	EPA 8260B	
p-Isopropyltoluene	ND	0.085	0.50	ug/L	1	10/11/2017	10/11/2017 15:34	EPA 8260B	
sec-Butyl Benzene	ND	0.13	0.50	ug/L	1	10/11/2017	10/11/2017 15:34	EPA 8260B	
Styrene	ND	0.065	0.50	ug/L	1	10/11/2017	10/11/2017 15:34	EPA 8260B	
tert-Butylbenzene	ND	0.12	0.50	ug/L	1	10/11/2017	10/11/2017 15:34	EPA 8260B	
Tetrachloroethene	**38**	0.081	0.50	ug/L	1	10/11/2017	10/11/2017 15:34	EPA 8260B	M, X
Tetrahydrofuran	ND	1.2	10	ug/L	1	10/11/2017	10/11/2017 15:34	EPA 8260B	
Toluene	ND	0.053	0.50	ug/L	1	10/11/2017	10/11/2017 15:34	EPA 8260B	
trans-1,2-Dichloroethene	ND	0.11	0.50	ug/L	1	10/11/2017	10/11/2017 15:34	EPA 8260B	
trans-1,3-Dichloropropene	ND	0.096	0.50	ug/L	1	10/11/2017	10/11/2017 15:34	EPA 8260B	
Trichloroethene	**0.090**	0.062	0.50	ug/L	1	10/11/2017	10/11/2017 15:34	EPA 8260B	J
Trichlorofluoromethane	ND	0.13	0.50	ug/L	1	10/11/2017	10/11/2017 15:34	EPA 8260B	
Vinyl chloride	ND	0.16	0.50	ug/L	1	10/11/2017	10/11/2017 15:34	EPA 8260B	
Xylenes, total	ND	0.12	1.5	ug/L	1	10/11/2017	10/11/2017 15:34	EPA 8260B	
Surrogate: Dibromofluoromethane			*95.0 %*	*68.9-141*		*10/11/2017*	*10/11/2017 15:34*	*EPA 8260B*	
Surrogate: Toluene-d8			*93.2 %*	*73.3-114*		*10/11/2017*	*10/11/2017 15:34*	*EPA 8260B*	
Surrogate: 4-Bromofluorobenzene			*85.5 %*	*72.2-114*		*10/11/2017*	*10/11/2017 15:34*	*EPA 8260B*	

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708 Heartland Trail, Ste 3000	Project Number: 266431
Madison WI, 53717	Project Manager: Andrew Stehn

Volatile Organic Compounds by Method 8260 - Purge and Trap - Quality Control

Pace Analytical - Madison

Analyte	Result	Limit of Quantitation	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch A710028 - EPA 5030B										
Blank (A710028-BLK1)				Prepared: 10/09/2017 Analyzed: 10/09/2017 17:30						
1,1,1,2-Tetrachloroethane	ND	0.50	ug/L							
1,1,1-Trichloroethane	ND	0.50	ug/L							
1,1,2,2-Tetrachloroethane	ND	0.50	ug/L							
1,1,2-Trichloroethane	ND	0.50	ug/L							
1,1,2-Trichlorotrifluoroethane	ND	0.50	ug/L							
1,1-Dichloroethane	ND	0.50	ug/L							
1,1-Dichloroethene	ND	0.50	ug/L							
1,1-Dichloropropene	ND	0.50	ug/L							
1,2,3-Trichlorobenzene	0.050	2.0	ug/L							J
1,2,3-Trichloropropane	ND	1.0	ug/L							
1,2,4-Trichlorobenzene	ND	2.0	ug/L							
1,2,4-Trimethylbenzene	ND	0.50	ug/L							
1,2-Dibromo-3-chloropropane	ND	0.50	ug/L							
1,2-Dibromoethane (EDB)	ND	0.50	ug/L							
1,2-Dichlorobenzene	ND	0.50	ug/L							
1,2-Dichloroethane	ND	0.50	ug/L							
1,2-Dichloropropane	ND	0.50	ug/L							
1,3,5-Trimethylbenzene	ND	0.50	ug/L							
1,3-Dichlorobenzene	ND	0.50	ug/L							
1,3-Dichloropropane	ND	0.50	ug/L							
1,4-Dichlorobenzene	ND	0.50	ug/L							
2,2-Dichloropropane	ND	0.50	ug/L							
2-Butanone	ND	20	ug/L							
2-Chlorotoluene	ND	0.50	ug/L							
2-Hexanone	ND	20	ug/L							
4-Chlorotoluene	ND	0.50	ug/L							
4-Methyl-2-pentanone	ND	20	ug/L							
Acetone	4.0	20	ug/L							J
Benzene	ND	0.50	ug/L							
Bromobenzene	ND	0.50	ug/L							
Bromochloromethane	ND	0.50	ug/L							
Bromodichloromethane	ND	0.50	ug/L							
Bromoform	ND	0.50	ug/L							
Bromomethane	ND	5.0	ug/L							
Carbon disulfide	ND	0.50	ug/L							
Carbon tetrachloride	ND	0.50	ug/L							
Chlorobenzene	ND	0.50	ug/L							
Chloroethane	ND	5.0	ug/L							
Chloroform	ND	0.50	ug/L							
Chloromethane	ND	2.0	ug/L							
cis-1,2-Dichloroethene	ND	0.50	ug/L							
cis-1,3-Dichloropropene	ND	0.50	ug/L							
Dibromochloromethane	ND	0.50	ug/L							
Dibromomethane	ND	0.50	ug/L							

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Volatile Organic Compounds by Method 8260 - Purge and Trap - Quality Control

Pace Analytical - Madison

Analyte	Result	Limit of Quantitation	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch A710028 - EPA 5030B										
Blank (A710028-BLK1)				Prepared: 10/09/2017 Analyzed: 10/09/2017 17:30						
Dichlorodifluoromethane	ND	0.50	ug/L							
Diisopropyl Ether	ND	0.50	ug/L							
Ethylbenzene	ND	0.50	ug/L							
Hexachlorobutadiene	ND	2.0	ug/L							
Isopropylbenzene	ND	0.50	ug/L							
m,p-Xylene	0.070	1.0	ug/L							J
Methyl t-Butyl Ether	ND	0.50	ug/L							
Methylene chloride	ND	2.0	ug/L							
Naphthalene	ND	5.0	ug/L							
n-Butyl Benzene	ND	0.50	ug/L							
n-Hexane	ND	0.50	ug/L							
n-Propyl Benzene	ND	0.50	ug/L							
o-Xylene	ND	0.50	ug/L							
p-Isopropyltoluene	ND	0.50	ug/L							
sec-Butyl Benzene	ND	0.50	ug/L							
Styrene	0.10	0.50	ug/L							J
tert-Butylbenzene	ND	0.50	ug/L							
Tetrachloroethene	ND	0.50	ug/L							
Tetrahydrofuran	ND	10	ug/L							
Toluene	0.060	0.50	ug/L							J
trans-1,2-Dichloroethene	ND	0.50	ug/L							
trans-1,3-Dichloropropene	ND	0.50	ug/L							
Trichloroethene	ND	0.50	ug/L							
Trichlorofluoromethane	ND	0.50	ug/L							
Vinyl chloride	ND	0.50	ug/L							
Xylenes, total	ND	1.5	ug/L							
Surrogate: Dibromofluoromethane	*9.55*		*ug/L*	*10.00*		*95.5*	*68.9-141*			
Surrogate: Toluene-d8	*9.45*		*ug/L*	*10.00*		*94.5*	*73.3-114*			
Surrogate: 4-Bromofluorobenzene	*8.86*		*ug/L*	*10.00*		*88.6*	*72.2-114*			
LCS (A710028-BS1)				Prepared: 10/09/2017 Analyzed: 10/09/2017 15:38						
1,1,1,2-Tetrachloroethane	4.73	0.50	ug/L	5.000		94.6	75.8-136			
1,1,1-Trichloroethane	4.86	0.50	ug/L	5.000		97.2	66.1-164			
1,1,2,2-Tetrachloroethane	5.36	0.50	ug/L	5.000		107	61.8-138			
1,1,2-Trichloroethane	4.84	0.50	ug/L	5.000		96.8	76.7-127			
1,1,2-Trichlorotrifluoroethane	5.26	0.50	ug/L	5.000		105	55.6-199			
1,1-Dichloroethane	5.13	0.50	ug/L	5.000		103	69.1-153			
1,1-Dichloroethene	5.08	0.50	ug/L	5.000		102	51.2-180			
1,1-Dichloropropene	4.86	0.50	ug/L	5.000		97.2	77.3-125			
1,2,3-Trichlorobenzene	5.33	2.0	ug/L	5.000		107	74-122			B
1,2,3-Trichloropropane	5.39	1.0	ug/L	5.000		108	69.8-140			
1,2,4-Trichlorobenzene	5.46	2.0	ug/L	5.000		109	73.3-120			
1,2,4-Trimethylbenzene	5.43	0.50	ug/L	5.000		109	86.6-121			
1,2-Dibromo-3-chloropropane	5.25	0.50	ug/L	5.000		105	42.9-137			
1,2-Dibromoethane (EDB)	4.96	0.50	ug/L	5.000		99.2	75.2-124			

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Madison WI, 53717	Project Manager: Andrew Stehn

Volatile Organic Compounds by Method 8260 - Purge and Trap - Quality Control

Pace Analytical - Madison

Analyte	Result	Limit of Quantitation	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch A710028 - EPA 5030B										
LCS (A710028-BS1)				Prepared: 10/09/2017 Analyzed: 10/09/2017 15:38						
1,2-Dichlorobenzene	5.32	0.50	ug/L	5.000		106	88.3-115			
1,2-Dichloroethane	4.96	0.50	ug/L	5.000		99.2	69.2-160			
1,2-Dichloropropane	4.84	0.50	ug/L	5.000		96.8	73.1-128			
1,3,5-Trimethylbenzene	5.54	0.50	ug/L	5.000		111	87.3-122			
1,3-Dichlorobenzene	5.42	0.50	ug/L	5.000		108	90.7-114			
1,3-Dichloropropane	4.87	0.50	ug/L	5.000		97.4	76.8-125			
1,4-Dichlorobenzene	5.32	0.50	ug/L	5.000		106	88.9-112			
2,2-Dichloropropane	5.03	0.50	ug/L	5.000		101	70.2-147			
2-Butanone	46.0	20	ug/L	50.00		91.9	39.5-160			
2-Chlorotoluene	5.63	0.50	ug/L	5.000		113	87.3-118			
2-Hexanone	48.1	20	ug/L	50.00		96.3	30.4-168			
4-Chlorotoluene	5.61	0.50	ug/L	5.000		112	87.6-120			
4-Methyl-2-pentanone	48.4	20	ug/L	50.00		96.8	38.8-166			
Acetone	47.8	20	ug/L	50.00		95.6	30.1-197			B
Benzene	4.93	0.50	ug/L	5.000		98.6	68.2-135			
Bromobenzene	5.38	0.50	ug/L	5.000		108	84.4-112			
Bromochloromethane	4.80	0.50	ug/L	5.000		96.0	76.7-138			
Bromodichloromethane	4.85	0.50	ug/L	5.000		97.0	77.2-140			
Bromoform	4.79	0.50	ug/L	5.000		95.8	60-142			
Bromomethane	5.18	5.0	ug/L	5.000		104	52.3-196			
Carbon disulfide	5.33	0.50	ug/L	5.000		107	20.2-197			
Carbon tetrachloride	4.81	0.50	ug/L	5.000		96.2	61.2-157			
Chlorobenzene	4.79	0.50	ug/L	5.000		95.8	88.7-113			
Chloroethane	5.21	5.0	ug/L	5.000		104	43.1-196			
Chloroform	4.96	0.50	ug/L	5.000		99.2	68.7-161			
Chloromethane	5.48	2.0	ug/L	5.000		110	37.7-187			
cis-1,2-Dichloroethene	4.65	0.50	ug/L	5.000		93.0	76.1-127			
cis-1,3-Dichloropropene	4.71	0.50	ug/L	5.000		94.2	65.5-122			
Dibromochloromethane	4.68	0.50	ug/L	5.000		93.6	74.8-135			
Dibromomethane	4.91	0.50	ug/L	5.000		98.2	75-140			
Dichlorodifluoromethane	5.16	0.50	ug/L	5.000		103	68.8-164			
Diisopropyl Ether	4.89	0.50	ug/L	5.000		97.8	62.1-134			
Ethylbenzene	4.93	0.50	ug/L	5.000		98.6	86-119			
Hexachlorobutadiene	5.59	2.0	ug/L	5.000		112	54.7-158			
Isopropylbenzene	4.91	0.50	ug/L	5.000		98.2	86.3-118			
m,p-Xylene	9.69	1.0	ug/L	10.00		96.9	87.1-118			B
Methyl t-Butyl Ether	4.91	0.50	ug/L	5.000		98.2	58.1-138			
Methylene chloride	5.21	2.0	ug/L	5.000		104	63.5-153			
Naphthalene	5.17	5.0	ug/L	5.000		103	39.3-132			
n-Butyl Benzene	5.59	0.50	ug/L	5.000		112	84.7-121			
n-Hexane	4.78	0.50	ug/L	5.000		95.6	49.5-147			
n-Propyl Benzene	5.70	0.50	ug/L	5.000		114	84.2-124			
o-Xylene	4.85	0.50	ug/L	5.000		97.0	82.8-114			
p-Isopropyltoluene	5.65	0.50	ug/L	5.000		113	88.1-116			
sec-Butyl Benzene	5.44	0.50	ug/L	5.000		109	85.3-121			

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Madison WI, 53717	Project Manager: Andrew Stehn

Volatile Organic Compounds by Method 8260 - Purge and Trap - Quality Control

Pace Analytical - Madison

Analyte	Result	Limit of Quantitation	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch A710028 - EPA 5030B										
LCS (A710028-BS1)				Prepared: 10/09/2017 Analyzed: 10/09/2017 15:38						
Styrene	4.74	0.50	ug/L	5.000		94.8	84.7-120			B
tert-Butylbenzene	5.34	0.50	ug/L	5.000		107	76.2-123			
Tetrachloroethene	4.81	0.50	ug/L	5.000		96.2	79.3-122			
Tetrahydrofuran	22.0	10	ug/L	25.00		88.0	27.8-152			
Toluene	4.77	0.50	ug/L	5.000		95.4	82.7-117			B
trans-1,2-Dichloroethene	4.88	0.50	ug/L	5.000		97.6	72.3-135			
trans-1,3-Dichloropropene	4.89	0.50	ug/L	5.000		97.8	72.5-122			
Trichloroethene	4.84	0.50	ug/L	5.000		96.8	77-126			
Trichlorofluoromethane	5.07	0.50	ug/L	5.000		101	56-195			
Vinyl chloride	5.16	0.50	ug/L	5.000		103	52.3-186			
Surrogate: Dibromofluoromethane	*5.00*		*ug/L*	*5.000*		*100*	*68.9-141*			
Surrogate: Toluene-d8	*4.87*		*ug/L*	*5.000*		*97.4*	*73.3-114*			
Surrogate: 4-Bromofluorobenzene	*4.77*		*ug/L*	*5.000*		*95.4*	*72.2-114*			
Matrix Spike (A710028-MS1)	**Source: A174009-03**			Prepared: 10/09/2017 Analyzed: 10/10/2017 10:20						
1,1,1,2-Tetrachloroethane	4.66	0.50	ug/L	5.000	ND	93.2	77.8-137			
1,1,1-Trichloroethane	5.07	0.50	ug/L	5.000	ND	101	66.3-167			
1,1,2,2-Tetrachloroethane	4.61	0.50	ug/L	5.000	ND	92.2	61.3-138			
1,1,2-Trichloroethane	5.00	0.50	ug/L	5.000	ND	100	75.4-132			
1,1,2-Trichlorotrifluoroethane	5.41	0.50	ug/L	5.000	ND	108	57.7-198			
1,1-Dichloroethane	5.17	0.50	ug/L	5.000	ND	103	66.9-154			
1,1-Dichloroethene	5.28	0.50	ug/L	5.000	ND	106	50.1-187			
1,1-Dichloropropene	4.64	0.50	ug/L	5.000	ND	92.8	74.1-127			
1,2,3-Trichlorobenzene	4.86	2.0	ug/L	5.000	ND	97.2	75.4-122			B
1,2,3-Trichloropropane	4.81	1.0	ug/L	5.000	ND	96.2	68.4-141			
1,2,4-Trichlorobenzene	4.87	2.0	ug/L	5.000	ND	97.4	72.1-121			
1,2,4-Trimethylbenzene	4.90	0.50	ug/L	5.000	ND	98.0	86.5-121			
1,2-Dibromo-3-chloropropane	4.44	0.50	ug/L	5.000	ND	88.8	49.9-130			
1,2-Dibromoethane (EDB)	4.70	0.50	ug/L	5.000	ND	94.0	74.4-124			
1,2-Dichlorobenzene	4.75	0.50	ug/L	5.000	ND	95.0	88.5-114			
1,2-Dichloroethane	4.97	0.50	ug/L	5.000	ND	99.4	72.6-161			
1,2-Dichloropropane	4.91	0.50	ug/L	5.000	ND	98.2	84.7-119			
1,3,5-Trimethylbenzene	4.80	0.50	ug/L	5.000	ND	96.0	87.3-122			
1,3-Dichlorobenzene	4.79	0.50	ug/L	5.000	ND	95.8	90.1-115			
1,3-Dichloropropane	4.71	0.50	ug/L	5.000	ND	94.2	76.6-126			
1,4-Dichlorobenzene	4.73	0.50	ug/L	5.000	ND	94.6	87.6-113			
2,2-Dichloropropane	5.84	0.50	ug/L	5.000	ND	117	72.3-145			
2-Butanone	46.0	20	ug/L	50.00	ND	92.0	32.2-170			
2-Chlorotoluene	5.00	0.50	ug/L	5.000	ND	100	87.9-117			
2-Hexanone	48.7	20	ug/L	50.00	ND	97.4	30.2-168			
4-Chlorotoluene	4.96	0.50	ug/L	5.000	ND	99.2	87.5-120			
4-Methyl-2-pentanone	49.9	20	ug/L	50.00	ND	99.8	39.1-168			
Acetone	59.3	20	ug/L	50.00	8.35	102	31.2-199			B
Benzene	4.88	0.50	ug/L	5.000	ND	97.6	67.8-136			
Bromobenzene	4.47	0.50	ug/L	5.000	ND	89.4	84.5-111			

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TRC Environmental Corporation, Inc.
708 Heartland Trail, Ste 3000
Madison WI, 53717

Project: Madison Kipp Corp. Semi-Annual Sampling
Project Number: 266431
Project Manager: Andrew Stehn

Volatile Organic Compounds by Method 8260 - Purge and Trap - Quality Control

Pace Analytical - Madison

Analyte	Result	Limit of Quantitation	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch A710028 - EPA 5030B										
Matrix Spike (A710028-MS1)	**Source: A174009-03**			Prepared: 10/09/2017 Analyzed: 10/10/2017 10:20						
Bromochloromethane	4.50	0.50	ug/L	5.000	ND	90.0	80.9-134			
Bromodichloromethane	4.82	0.50	ug/L	5.000	ND	96.4	76.1-144			
Bromoform	4.37	0.50	ug/L	5.000	ND	87.4	60.2-142			
Bromomethane	5.19	5.0	ug/L	5.000	ND	104	50.3-198			
Carbon disulfide	5.61	0.50	ug/L	5.000	ND	112	35.6-196			
Carbon tetrachloride	4.74	0.50	ug/L	5.000	ND	94.8	69.7-152			
Chlorobenzene	4.75	0.50	ug/L	5.000	ND	95.0	89.3-113			
Chloroethane	5.21	5.0	ug/L	5.000	ND	104	50.2-198			
Chloroform	4.94	0.50	ug/L	5.000	ND	98.8	66.2-164			
Chloromethane	6.23	2.0	ug/L	5.000	1.33	98.0	46.5-179			
cis-1,2-Dichloroethene	4.70	0.50	ug/L	5.000	ND	94.0	67.5-137			
cis-1,3-Dichloropropene	4.78	0.50	ug/L	5.000	ND	95.6	63.3-123			
Dibromochloromethane	4.55	0.50	ug/L	5.000	ND	91.0	76-133			
Dibromomethane	4.85	0.50	ug/L	5.000	ND	97.0	78.2-139			
Dichlorodifluoromethane	4.84	0.50	ug/L	5.000	ND	96.8	70.6-150			
Diisopropyl Ether	4.93	0.50	ug/L	5.000	ND	98.6	57.3-137			
Ethylbenzene	4.89	0.50	ug/L	5.000	ND	97.8	87.3-118			
Hexachlorobutadiene	5.12	2.0	ug/L	5.000	ND	102	55.4-161			
Isopropylbenzene	4.73	0.50	ug/L	5.000	ND	94.6	89-115			
m,p-Xylene	9.70	1.0	ug/L	10.00	ND	97.0	88.4-117			B
Methyl t-Butyl Ether	4.88	0.50	ug/L	5.000	ND	97.6	54.4-145			
Methylene chloride	5.41	2.0	ug/L	5.000	ND	108	59.2-154			
Naphthalene	4.66	5.0	ug/L	5.000	ND	93.2	43.3-129			J
n-Butyl Benzene	5.09	0.50	ug/L	5.000	ND	102	85.9-119			
n-Hexane	4.88	0.50	ug/L	5.000	ND	97.6	44.3-150			
n-Propyl Benzene	4.91	0.50	ug/L	5.000	ND	98.2	83.7-124			
o-Xylene	4.84	0.50	ug/L	5.000	ND	96.8	83.9-112			
p-Isopropyltoluene	4.92	0.50	ug/L	5.000	ND	98.4	89.6-114			
sec-Butyl Benzene	4.87	0.50	ug/L	5.000	ND	97.4	85.5-120			
Styrene	4.69	0.50	ug/L	5.000	0.0700	92.4	79.7-123			B
tert-Butylbenzene	4.71	0.50	ug/L	5.000	ND	94.2	78.6-120			
Tetrachloroethene	5.08	0.50	ug/L	5.000	0.450	92.6	78.8-123			
Tetrahydrofuran	22.1	10	ug/L	25.00	ND	88.4	24.7-155			
Toluene	4.83	0.50	ug/L	5.000	ND	96.6	81-118			B
trans-1,2-Dichloroethene	5.04	0.50	ug/L	5.000	ND	101	65.3-141			
trans-1,3-Dichloropropene	4.90	0.50	ug/L	5.000	ND	98.0	73.7-120			
Trichloroethene	4.79	0.50	ug/L	5.000	ND	95.8	77.1-123			
Trichlorofluoromethane	5.64	0.50	ug/L	5.000	ND	113	44.8-199			
Vinyl chloride	5.34	0.50	ug/L	5.000	ND	107	49.8-180			
Surrogate: Dibromofluoromethane	*4.79*		*ug/L*	*5.000*		*95.8*	*68.9-141*			
Surrogate: Toluene-d8	*5.03*		*ug/L*	*5.000*		*101*	*73.3-114*			
Surrogate: 4-Bromofluorobenzene	*4.68*		*ug/L*	*5.000*		*93.6*	*72.2-114*			

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Project: Madison Kipp Corp. Semi-Annual Sampling
Project Number: 266431
Project Manager: Andrew Stehn

Volatile Organic Compounds by Method 8260 - Purge and Trap - Quality Control

Pace Analytical - Madison

Analyte	Result	Limit of Quantitation	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch A710028 - EPA 5030B										
Matrix Spike Dup (A710028-MSD1)	**Source: A174009-03**			Prepared: 10/09/2017 Analyzed: 10/10/2017 10:49						
1,1,1,2-Tetrachloroethane	4.60	0.50	ug/L	5.000	ND	92.0	77.8-137	1.30	20	
1,1,1-Trichloroethane	5.21	0.50	ug/L	5.000	ND	104	66.3-167	2.72	20	
1,1,2,2-Tetrachloroethane	4.64	0.50	ug/L	5.000	ND	92.8	61.3-138	0.649	20	
1,1,2-Trichloroethane	4.84	0.50	ug/L	5.000	ND	96.8	75.4-132	3.25	20	
1,1,2-Trichlorotrifluoroethane	5.43	0.50	ug/L	5.000	ND	109	57.7-198	0.369	20	
1,1-Dichloroethane	5.19	0.50	ug/L	5.000	ND	104	66.9-154	0.386	20	
1,1-Dichloroethene	5.50	0.50	ug/L	5.000	ND	110	50.1-187	4.08	20	
1,1-Dichloropropene	4.59	0.50	ug/L	5.000	ND	91.8	74.1-127	1.08	20	
1,2,3-Trichlorobenzene	4.90	2.0	ug/L	5.000	ND	98.0	75.4-122	0.820	20	B
1,2,3-Trichloropropane	4.58	1.0	ug/L	5.000	ND	91.6	68.4-141	4.90	20	
1,2,4-Trichlorobenzene	4.85	2.0	ug/L	5.000	ND	97.0	72.1-121	0.412	20	
1,2,4-Trimethylbenzene	4.82	0.50	ug/L	5.000	ND	96.4	86.5-121	1.65	20	
1,2-Dibromo-3-chloropropane	4.23	0.50	ug/L	5.000	ND	84.6	49.9-130	4.84	20	
1,2-Dibromoethane (EDB)	4.56	0.50	ug/L	5.000	ND	91.2	74.4-124	3.02	20	
1,2-Dichlorobenzene	4.82	0.50	ug/L	5.000	ND	96.4	88.5-114	1.46	20	
1,2-Dichloroethane	5.03	0.50	ug/L	5.000	ND	101	72.6-161	1.20	20	
1,2-Dichloropropane	4.84	0.50	ug/L	5.000	ND	96.8	84.7-119	1.44	20	
1,3,5-Trimethylbenzene	4.89	0.50	ug/L	5.000	ND	97.8	87.3-122	1.86	20	
1,3-Dichlorobenzene	4.80	0.50	ug/L	5.000	ND	96.0	90.1-115	0.209	20	
1,3-Dichloropropane	4.67	0.50	ug/L	5.000	ND	93.4	76.6-126	0.853	20	
1,4-Dichlorobenzene	4.76	0.50	ug/L	5.000	ND	95.2	87.6-113	0.632	20	
2,2-Dichloropropane	5.65	0.50	ug/L	5.000	ND	113	72.3-145	3.31	20	
2-Butanone	40.9	20	ug/L	50.00	ND	81.8	32.2-170	11.8	20	
2-Chlorotoluene	5.07	0.50	ug/L	5.000	ND	101	87.9-117	1.39	20	
2-Hexanone	43.5	20	ug/L	50.00	ND	87.0	30.2-168	11.4	20	
4-Chlorotoluene	4.97	0.50	ug/L	5.000	ND	99.4	87.5-120	0.201	20	
4-Methyl-2-pentanone	45.2	20	ug/L	50.00	ND	90.5	39.1-168	9.86	20	
Acetone	54.7	20	ug/L	50.00	8.35	92.7	31.2-199	9.44	20	B
Benzene	4.82	0.50	ug/L	5.000	ND	96.4	67.8-136	1.24	20	
Bromobenzene	4.63	0.50	ug/L	5.000	ND	92.6	84.5-111	3.52	20	
Bromochloromethane	4.68	0.50	ug/L	5.000	ND	93.6	80.9-134	3.92	20	
Bromodichloromethane	4.87	0.50	ug/L	5.000	ND	97.4	76.1-144	1.03	20	
Bromoform	4.31	0.50	ug/L	5.000	ND	86.2	60.2-142	1.38	20	
Bromomethane	5.36	5.0	ug/L	5.000	ND	107	50.3-198	3.22	20	
Carbon disulfide	5.57	0.50	ug/L	5.000	ND	111	35.6-196	0.716	20	
Carbon tetrachloride	4.85	0.50	ug/L	5.000	ND	97.0	69.7-152	2.29	20	
Chlorobenzene	4.69	0.50	ug/L	5.000	ND	93.8	89.3-113	1.27	20	
Chloroethane	5.58	5.0	ug/L	5.000	ND	112	50.2-198	6.86	20	
Chloroform	5.06	0.50	ug/L	5.000	ND	101	66.2-164	2.40	20	
Chloromethane	6.35	2.0	ug/L	5.000	1.33	100	46.5-179	2.42	20	
cis-1,2-Dichloroethene	4.71	0.50	ug/L	5.000	ND	94.2	67.5-137	0.213	20	
cis-1,3-Dichloropropene	4.65	0.50	ug/L	5.000	ND	93.0	63.3-123	2.76	20	
Dibromochloromethane	4.50	0.50	ug/L	5.000	ND	90.0	76-133	1.10	20	
Dibromomethane	4.81	0.50	ug/L	5.000	ND	96.2	78.2-139	0.828	20	
Dichlorodifluoromethane	5.23	0.50	ug/L	5.000	ND	105	70.6-150	7.75	20	

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TRC Environmental Corporation, Inc.	Project: Madison Kipp Corp. Semi-Annual Sampling
708 Heartland Trail, Ste 3000	Project Number: 266431
Madison WI, 53717	Project Manager: Andrew Stehn

Volatile Organic Compounds by Method 8260 - Purge and Trap - Quality Control

Pace Analytical - Madison

Analyte	Result	Limit of Quantitation	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch A710028 - EPA 5030B										
Matrix Spike Dup (A710028-MSD1)	**Source: A174009-03**			Prepared: 10/09/2017 Analyzed: 10/10/2017 10:49						
Diisopropyl Ether	4.58	0.50	ug/L	5.000	ND	91.6	57.3-137	7.36	20	
Ethylbenzene	4.98	0.50	ug/L	5.000	ND	99.6	87.3-118	1.82	20	
Hexachlorobutadiene	5.34	2.0	ug/L	5.000	ND	107	55.4-161	4.21	20	
Isopropylbenzene	4.76	0.50	ug/L	5.000	ND	95.2	89-115	0.632	20	
m,p-Xylene	9.72	1.0	ug/L	10.00	ND	97.2	88.4-117	0.206	20	B
Methyl t-Butyl Ether	4.79	0.50	ug/L	5.000	ND	95.8	54.4-145	1.86	20	
Methylene chloride	5.38	2.0	ug/L	5.000	ND	108	59.2-154	0.556	20	
Naphthalene	4.49	5.0	ug/L	5.000	ND	89.8	43.3-129	3.72	20	J
n-Butyl Benzene	5.13	0.50	ug/L	5.000	ND	103	85.9-119	0.783	20	
n-Hexane	4.92	0.50	ug/L	5.000	ND	98.4	44.3-150	0.816	20	
n-Propyl Benzene	4.96	0.50	ug/L	5.000	ND	99.2	83.7-124	1.01	20	
o-Xylene	4.71	0.50	ug/L	5.000	ND	94.2	83.9-112	2.72	20	
p-Isopropyltoluene	4.99	0.50	ug/L	5.000	ND	99.8	89.6-114	1.41	20	
sec-Butyl Benzene	4.73	0.50	ug/L	5.000	ND	94.6	85.5-120	2.92	20	
Styrene	4.64	0.50	ug/L	5.000	0.0700	91.4	79.7-123	1.09	20	B
tert-Butylbenzene	4.76	0.50	ug/L	5.000	ND	95.2	78.6-120	1.06	20	
Tetrachloroethene	5.02	0.50	ug/L	5.000	0.450	91.4	78.8-123	1.30	20	
Tetrahydrofuran	20.4	10	ug/L	25.00	ND	81.5	24.7-155	8.05	20	
Toluene	4.98	0.50	ug/L	5.000	ND	99.6	81-118	3.06	20	B
trans-1,2-Dichloroethene	5.06	0.50	ug/L	5.000	ND	101	65.3-141	0.396	20	
trans-1,3-Dichloropropene	4.81	0.50	ug/L	5.000	ND	96.2	73.7-120	1.85	20	
Trichloroethene	4.95	0.50	ug/L	5.000	ND	99.0	77.1-123	3.29	20	
Trichlorofluoromethane	5.61	0.50	ug/L	5.000	ND	112	44.8-199	0.533	20	
Vinyl chloride	5.71	0.50	ug/L	5.000	ND	114	49.8-180	6.70	20	
Surrogate: Dibromofluoromethane	*4.82*		*ug/L*	*5.000*		*96.4*	*68.9-141*			
Surrogate: Toluene-d8	*5.06*		*ug/L*	*5.000*		*101*	*73.3-114*			
Surrogate: 4-Bromofluorobenzene	*4.50*		*ug/L*	*5.000*		*90.0*	*72.2-114*			

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708 Heartland Trail, Ste 3000	Project Number: 266431
Madison WI, 53717	Project Manager: Andrew Stehn

Volatile Organic Compounds by Method 8260 - Purge and Trap - Quality Control

Pace Analytical - Madison

Analyte	Result	Limit of Quantitation	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch A710036 - EPA 5030B										
Blank (A710036-BLK1)				Prepared: 10/11/2017 Analyzed: 10/12/2017 06:12						
1,1,1,2-Tetrachloroethane	ND	0.50	ug/L							
1,1,1-Trichloroethane	ND	0.50	ug/L							
1,1,2,2-Tetrachloroethane	ND	0.50	ug/L							
1,1,2-Trichloroethane	ND	0.50	ug/L							
1,1,2-Trichlorotrifluoroethane	ND	0.50	ug/L							
1,1-Dichloroethane	ND	0.50	ug/L							
1,1-Dichloroethene	ND	0.50	ug/L							
1,1-Dichloropropene	ND	0.50	ug/L							
1,2,3-Trichlorobenzene	ND	2.0	ug/L							
1,2,3-Trichloropropane	ND	1.0	ug/L							
1,2,4-Trichlorobenzene	ND	2.0	ug/L							
1,2,4-Trimethylbenzene	ND	0.50	ug/L							
1,2-Dibromo-3-chloropropane	ND	0.50	ug/L							
1,2-Dibromoethane (EDB)	ND	0.50	ug/L							
1,2-Dichlorobenzene	ND	0.50	ug/L							
1,2-Dichloroethane	ND	0.50	ug/L							
1,2-Dichloropropane	ND	0.50	ug/L							
1,3,5-Trimethylbenzene	ND	0.50	ug/L							
1,3-Dichlorobenzene	ND	0.50	ug/L							
1,3-Dichloropropane	ND	0.50	ug/L							
1,4-Dichlorobenzene	ND	0.50	ug/L							
2,2-Dichloropropane	ND	0.50	ug/L							
2-Butanone	ND	20	ug/L							
2-Chlorotoluene	ND	0.50	ug/L							
2-Hexanone	ND	20	ug/L							
4-Chlorotoluene	ND	0.50	ug/L							
4-Methyl-2-pentanone	ND	20	ug/L							
Acetone	ND	20	ug/L							
Benzene	ND	0.50	ug/L							
Bromobenzene	ND	0.50	ug/L							
Bromochloromethane	ND	0.50	ug/L							
Bromodichloromethane	ND	0.50	ug/L							
Bromoform	ND	0.50	ug/L							
Bromomethane	ND	5.0	ug/L							
Carbon disulfide	ND	0.50	ug/L							
Carbon tetrachloride	ND	0.50	ug/L							
Chlorobenzene	ND	0.50	ug/L							
Chloroethane	ND	5.0	ug/L							
Chloroform	ND	0.50	ug/L							
Chloromethane	ND	2.0	ug/L							
cis-1,2-Dichloroethene	ND	0.50	ug/L							
cis-1,3-Dichloropropene	ND	0.50	ug/L							
Dibromochloromethane	ND	0.50	ug/L							
Dibromomethane	ND	0.50	ug/L							
Dichlorodifluoromethane	ND	0.50	ug/L							

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Volatile Organic Compounds by Method 8260 - Purge and Trap - Quality Control

Pace Analytical - Madison

Analyte	Result	Limit of Quantitation	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch A710036 - EPA 5030B										
Blank (A710036-BLK1)				Prepared: 10/11/2017 Analyzed: 10/12/2017 06:12						
Diisopropyl Ether	ND	0.50	ug/L							
Ethylbenzene	ND	0.50	ug/L							
Hexachlorobutadiene	ND	2.0	ug/L							
Isopropylbenzene	ND	0.50	ug/L							
m,p-Xylene	ND	1.0	ug/L							
Methyl t-Butyl Ether	ND	0.50	ug/L							
Methylene chloride	ND	2.0	ug/L							
Naphthalene	ND	5.0	ug/L							
n-Butyl Benzene	ND	0.50	ug/L							
n-Hexane	ND	0.50	ug/L							
n-Propyl Benzene	ND	0.50	ug/L							
o-Xylene	ND	0.50	ug/L							
p-Isopropyltoluene	ND	0.50	ug/L							
sec-Butyl Benzene	ND	0.50	ug/L							
Styrene	0.080	0.50	ug/L							J
tert-Butylbenzene	ND	0.50	ug/L							
Tetrachloroethene	ND	0.50	ug/L							
Tetrahydrofuran	ND	10	ug/L							
Toluene	ND	0.50	ug/L							
trans-1,2-Dichloroethene	ND	0.50	ug/L							
trans-1,3-Dichloropropene	ND	0.50	ug/L							
Trichloroethene	ND	0.50	ug/L							
Trichlorofluoromethane	ND	0.50	ug/L							
Vinyl chloride	ND	0.50	ug/L							
Xylenes, total	ND	1.5	ug/L							
Surrogate: Dibromofluoromethane	*10.6*		*ug/L*	*10.00*		*106*	*68.9-141*			
Surrogate: Toluene-d8	*9.83*		*ug/L*	*10.00*		*98.3*	*73.3-114*			
Surrogate: 4-Bromofluorobenzene	*9.81*		*ug/L*	*10.00*		*98.1*	*72.2-114*			
Blank (A710036-BLK2)				Prepared: 10/12/2017 Analyzed: 10/12/2017 15:04						
1,1,1,2-Tetrachloroethane	ND	0.50	ug/L							
1,1,1-Trichloroethane	ND	0.50	ug/L							
1,1,2,2-Tetrachloroethane	ND	0.50	ug/L							
1,1,2-Trichloroethane	ND	0.50	ug/L							
1,1,2-Trichlorotrifluoroethane	ND	0.50	ug/L							
1,1-Dichloroethane	ND	0.50	ug/L							
1,1-Dichloroethene	ND	0.50	ug/L							
1,1-Dichloropropene	ND	0.50	ug/L							
1,2,3-Trichlorobenzene	0.050	2.0	ug/L							J
1,2,3-Trichloropropane	ND	1.0	ug/L							
1,2,4-Trichlorobenzene	ND	2.0	ug/L							
1,2,4-Trimethylbenzene	ND	0.50	ug/L							
1,2-Dibromo-3-chloropropane	ND	0.50	ug/L							
1,2-Dibromoethane (EDB)	ND	0.50	ug/L							
1,2-Dichlorobenzene	ND	0.50	ug/L							

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TRC Environmental Corporation, Inc.	Project: Madison Kipp Corp. Semi-Annual Sampling
708 Heartland Trail, Ste 3000	Project Number: 266431
Madison WI, 53717	Project Manager: Andrew Stehn

Volatile Organic Compounds by Method 8260 - Purge and Trap - Quality Control

Pace Analytical - Madison

Analyte	Result	Limit of Quantitation	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch A710036 - EPA 5030B										
Blank (A710036-BLK2)				Prepared: 10/12/2017 Analyzed: 10/12/2017 15:04						
1,2-Dichloroethane	ND	0.50	ug/L							
1,2-Dichloropropane	ND	0.50	ug/L							
1,3,5-Trimethylbenzene	ND	0.50	ug/L							
1,3-Dichlorobenzene	ND	0.50	ug/L							
1,3-Dichloropropane	ND	0.50	ug/L							
1,4-Dichlorobenzene	ND	0.50	ug/L							
2,2-Dichloropropane	ND	0.50	ug/L							
2-Butanone	ND	20	ug/L							
2-Chlorotoluene	ND	0.50	ug/L							
2-Hexanone	ND	20	ug/L							
4-Chlorotoluene	ND	0.50	ug/L							
4-Methyl-2-pentanone	ND	20	ug/L							
Acetone	ND	20	ug/L							
Benzene	ND	0.50	ug/L							
Bromobenzene	ND	0.50	ug/L							
Bromochloromethane	ND	0.50	ug/L							
Bromodichloromethane	ND	0.50	ug/L							
Bromoform	ND	0.50	ug/L							
Bromomethane	ND	5.0	ug/L							
Carbon disulfide	ND	0.50	ug/L							
Carbon tetrachloride	ND	0.50	ug/L							
Chlorobenzene	ND	0.50	ug/L							
Chloroethane	ND	5.0	ug/L							
Chloroform	ND	0.50	ug/L							
Chloromethane	ND	2.0	ug/L							
cis-1,2-Dichloroethene	ND	0.50	ug/L							
cis-1,3-Dichloropropene	ND	0.50	ug/L							
Dibromochloromethane	ND	0.50	ug/L							
Dibromomethane	ND	0.50	ug/L							
Dichlorodifluoromethane	ND	0.50	ug/L							
Diisopropyl Ether	ND	0.50	ug/L							
Ethylbenzene	ND	0.50	ug/L							
Hexachlorobutadiene	ND	2.0	ug/L							
Isopropylbenzene	ND	0.50	ug/L							
m,p-Xylene	ND	1.0	ug/L							
Methyl t-Butyl Ether	ND	0.50	ug/L							
Methylene chloride	0.14	2.0	ug/L							J
Naphthalene	0.30	5.0	ug/L							J
n-Butyl Benzene	ND	0.50	ug/L							
n-Hexane	ND	0.50	ug/L							
n-Propyl Benzene	ND	0.50	ug/L							
o-Xylene	ND	0.50	ug/L							
p-Isopropyltoluene	ND	0.50	ug/L							
sec-Butyl Benzene	ND	0.50	ug/L							
Styrene	0.090	0.50	ug/L							J

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708 Heartland Trail, Ste 3000	Project Number: 266431
Madison WI, 53717	Project Manager: Andrew Stehn

Volatile Organic Compounds by Method 8260 - Purge and Trap - Quality Control

Pace Analytical - Madison

Analyte	Result	Limit of Quantitation	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch A710036 - EPA 5030B										
Blank (A710036-BLK2)				Prepared: 10/12/2017 Analyzed: 10/12/2017 15:04						
tert-Butylbenzene	ND	0.50	ug/L							
Tetrachloroethene	ND	0.50	ug/L							
Tetrahydrofuran	ND	10	ug/L							
Toluene	0.060	0.50	ug/L							J
trans-1,2-Dichloroethene	ND	0.50	ug/L							
trans-1,3-Dichloropropene	ND	0.50	ug/L							
Trichloroethene	ND	0.50	ug/L							
Trichlorofluoromethane	ND	0.50	ug/L							
Vinyl chloride	ND	0.50	ug/L							
Xylenes, total	ND	1.5	ug/L							
Surrogate: Dibromofluoromethane	*10.1*		*ug/L*	*10.00*		*101*	*68.9-141*			
Surrogate: Toluene-d8	*9.74*		*ug/L*	*10.00*		*97.4*	*73.3-114*			
Surrogate: 4-Bromofluorobenzene	*9.73*		*ug/L*	*10.00*		*97.3*	*72.2-114*			
LCS (A710036-BS1)				Prepared: 10/11/2017 Analyzed: 10/12/2017 02:57						
1,1,1,2-Tetrachloroethane	5.15	0.50	ug/L	5.000		103	75.8-136			
1,1,1-Trichloroethane	5.60	0.50	ug/L	5.000		112	66.1-164			
1,1,2,2-Tetrachloroethane	5.18	0.50	ug/L	5.000		104	61.8-138			
1,1,2-Trichloroethane	5.22	0.50	ug/L	5.000		104	76.7-127			
1,1,2-Trichlorotrifluoroethane	5.81	0.50	ug/L	5.000		116	55.6-199			
1,1-Dichloroethane	5.73	0.50	ug/L	5.000		115	69.1-153			
1,1-Dichloroethene	5.67	0.50	ug/L	5.000		113	51.2-180			
1,1-Dichloropropene	5.70	0.50	ug/L	5.000		114	77.3-125			
1,2,3-Trichlorobenzene	4.66	2.0	ug/L	5.000		93.2	74-122			B
1,2,3-Trichloropropane	5.33	1.0	ug/L	5.000		107	69.8-140			
1,2,4-Trichlorobenzene	4.50	2.0	ug/L	5.000		90.0	73.3-120			
1,2,4-Trimethylbenzene	4.98	0.50	ug/L	5.000		99.6	86.6-121			
1,2-Dibromo-3-chloropropane	5.10	0.50	ug/L	5.000		102	42.9-137			
1,2-Dibromoethane (EDB)	5.14	0.50	ug/L	5.000		103	75.2-124			
1,2-Dichlorobenzene	4.95	0.50	ug/L	5.000		99.0	88.3-115			
1,2-Dichloroethane	5.86	0.50	ug/L	5.000		117	69.2-160			
1,2-Dichloropropane	5.11	0.50	ug/L	5.000		102	73.1-128			
1,3,5-Trimethylbenzene	5.07	0.50	ug/L	5.000		101	87.3-122			
1,3-Dichlorobenzene	4.87	0.50	ug/L	5.000		97.4	90.7-114			
1,3-Dichloropropane	5.22	0.50	ug/L	5.000		104	76.8-125			
1,4-Dichlorobenzene	4.77	0.50	ug/L	5.000		95.4	88.9-112			
2,2-Dichloropropane	4.59	0.50	ug/L	5.000		91.8	70.2-147			
2-Butanone	51.9	20	ug/L	50.00		104	39.5-160			
2-Chlorotoluene	5.02	0.50	ug/L	5.000		100	87.3-118			
2-Hexanone	50.9	20	ug/L	50.00		102	30.4-168			
4-Chlorotoluene	4.95	0.50	ug/L	5.000		99.0	87.6-120			
4-Methyl-2-pentanone	53.0	20	ug/L	50.00		106	38.8-166			
Acetone	57.6	20	ug/L	50.00		115	30.1-197			
Benzene	5.23	0.50	ug/L	5.000		105	68.2-135			
Bromobenzene	5.07	0.50	ug/L	5.000		101	84.4-112			

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TRC Environmental Corporation, Inc.
708 Heartland Trail, Ste 3000
Madison WI, 53717

Project: Madison Kipp Corp. Semi-Annual Sampling
Project Number: 266431
Project Manager: Andrew Stehn

Volatile Organic Compounds by Method 8260 - Purge and Trap - Quality Control

Pace Analytical - Madison

Analyte	Result	Limit of Quantitation	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch A710036 - EPA 5030B										
LCS (A710036-BS1)				Prepared: 10/11/2017 Analyzed: 10/12/2017 02:57						
Bromochloromethane	5.44	0.50	ug/L	5.000		109	76.7-138			
Bromodichloromethane	5.33	0.50	ug/L	5.000		107	77.2-140			
Bromoform	5.19	0.50	ug/L	5.000		104	60-142			
Bromomethane	5.80	5.0	ug/L	5.000		116	52.3-196			
Carbon disulfide	5.48	0.50	ug/L	5.000		110	20.2-197			
Carbon tetrachloride	5.43	0.50	ug/L	5.000		109	61.2-157			
Chlorobenzene	4.99	0.50	ug/L	5.000		99.8	88.7-113			
Chloroethane	5.79	5.0	ug/L	5.000		116	43.1-196			
Chloroform	5.28	0.50	ug/L	5.000		106	68.7-161			
Chloromethane	5.34	2.0	ug/L	5.000		107	37.7-187			
cis-1,2-Dichloroethene	5.09	0.50	ug/L	5.000		102	76.1-127			
cis-1,3-Dichloropropene	4.85	0.50	ug/L	5.000		97.0	65.5-122			
Dibromochloromethane	5.23	0.50	ug/L	5.000		105	74.8-135			
Dibromomethane	5.31	0.50	ug/L	5.000		106	75-140			
Dichlorodifluoromethane	5.64	0.50	ug/L	5.000		113	68.8-164			
Diisopropyl Ether	5.77	0.50	ug/L	5.000		115	62.1-134			
Ethylbenzene	5.09	0.50	ug/L	5.000		102	86-119			
Hexachlorobutadiene	5.00	2.0	ug/L	5.000		100	54.7-158			
Isopropylbenzene	5.14	0.50	ug/L	5.000		103	86.3-118			
m,p-Xylene	9.97	1.0	ug/L	10.00		99.7	87.1-118			
Methyl t-Butyl Ether	5.73	0.50	ug/L	5.000		115	58.1-138			
Methylene chloride	5.66	2.0	ug/L	5.000		113	63.5-153			B
Naphthalene	5.21	5.0	ug/L	5.000		104	39.3-132			B
n-Butyl Benzene	4.75	0.50	ug/L	5.000		95.0	84.7-121			
n-Hexane	6.07	0.50	ug/L	5.000		121	49.5-147			
n-Propyl Benzene	4.89	0.50	ug/L	5.000		97.8	84.2-124			
o-Xylene	5.12	0.50	ug/L	5.000		102	82.8-114			
p-Isopropyltoluene	5.03	0.50	ug/L	5.000		101	88.1-116			
sec-Butyl Benzene	5.06	0.50	ug/L	5.000		101	85.3-121			
Styrene	4.80	0.50	ug/L	5.000		96.0	84.7-120			B
tert-Butylbenzene	5.13	0.50	ug/L	5.000		103	76.2-123			
Tetrachloroethene	4.72	0.50	ug/L	5.000		94.4	79.3-122			
Tetrahydrofuran	27.0	10	ug/L	25.00		108	27.8-152			
Toluene	4.80	0.50	ug/L	5.000		96.0	82.7-117			B
trans-1,2-Dichloroethene	5.50	0.50	ug/L	5.000		110	72.3-135			
trans-1,3-Dichloropropene	4.82	0.50	ug/L	5.000		96.4	72.5-122			
Trichloroethene	5.15	0.50	ug/L	5.000		103	77-126			
Trichlorofluoromethane	5.87	0.50	ug/L	5.000		117	56-195			
Vinyl chloride	5.56	0.50	ug/L	5.000		111	52.3-186			
Surrogate: Dibromofluoromethane	*5.41*		*ug/L*	*5.000*		*108*	*68.9-141*			
Surrogate: Toluene-d8	*5.08*		*ug/L*	*5.000*		*102*	*73.3-114*			
Surrogate: 4-Bromofluorobenzene	*5.05*		*ug/L*	*5.000*		*101*	*72.2-114*			

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708 Heartland Trail, Ste 3000
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Project: Madison Kipp Corp. Semi-Annual Sampling
Project Number: 266431
Project Manager: Andrew Stehn

Volatile Organic Compounds by Method 8260 - Purge and Trap - Quality Control

Pace Analytical - Madison

Analyte	Result	Limit of Quantitation	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch A710036 - EPA 5030B										
LCS (A710036-BS2)				Prepared: 10/12/2017 Analyzed: 10/12/2017 14:37						
1,1,1,2-Tetrachloroethane	5.27	0.50	ug/L	5.000		105	75.8-136			
1,1,1-Trichloroethane	5.34	0.50	ug/L	5.000		107	66.1-164			
1,1,2,2-Tetrachloroethane	4.64	0.50	ug/L	5.000		92.8	61.8-138			
1,1,2-Trichloroethane	5.11	0.50	ug/L	5.000		102	76.7-127			
1,1,2-Trichlorotrifluoroethane	5.58	0.50	ug/L	5.000		112	55.6-199			
1,1-Dichloroethane	5.47	0.50	ug/L	5.000		109	69.1-153			
1,1-Dichloroethene	5.31	0.50	ug/L	5.000		106	51.2-180			
1,1-Dichloropropene	5.40	0.50	ug/L	5.000		108	77.3-125			
1,2,3-Trichlorobenzene	4.70	2.0	ug/L	5.000		94.0	74-122			B
1,2,3-Trichloropropane	4.84	1.0	ug/L	5.000		96.8	69.8-140			
1,2,4-Trichlorobenzene	4.75	2.0	ug/L	5.000		95.0	73.3-120			
1,2,4-Trimethylbenzene	4.96	0.50	ug/L	5.000		99.2	86.6-121			
1,2-Dibromo-3-chloropropane	4.55	0.50	ug/L	5.000		91.0	42.9-137			
1,2-Dibromoethane (EDB)	5.10	0.50	ug/L	5.000		102	75.2-124			
1,2-Dichlorobenzene	4.84	0.50	ug/L	5.000		96.8	88.3-115			
1,2-Dichloroethane	5.56	0.50	ug/L	5.000		111	69.2-160			
1,2-Dichloropropane	5.01	0.50	ug/L	5.000		100	73.1-128			
1,3,5-Trimethylbenzene	4.91	0.50	ug/L	5.000		98.2	87.3-122			
1,3-Dichlorobenzene	4.72	0.50	ug/L	5.000		94.4	90.7-114			
1,3-Dichloropropane	5.16	0.50	ug/L	5.000		103	76.8-125			
1,4-Dichlorobenzene	4.72	0.50	ug/L	5.000		94.4	88.9-112			
2,2-Dichloropropane	5.19	0.50	ug/L	5.000		104	70.2-147			
2-Butanone	48.3	20	ug/L	50.00		96.6	39.5-160			
2-Chlorotoluene	4.89	0.50	ug/L	5.000		97.8	87.3-118			
2-Hexanone	48.7	20	ug/L	50.00		97.3	30.4-168			
4-Chlorotoluene	4.87	0.50	ug/L	5.000		97.4	87.6-120			
4-Methyl-2-pentanone	50.0	20	ug/L	50.00		99.9	38.8-166			
Acetone	59.7	20	ug/L	50.00		119	30.1-197			
Benzene	4.89	0.50	ug/L	5.000		97.8	68.2-135			
Bromobenzene	4.65	0.50	ug/L	5.000		93.0	84.4-112			
Bromochloromethane	5.07	0.50	ug/L	5.000		101	76.7-138			
Bromodichloromethane	5.21	0.50	ug/L	5.000		104	77.2-140			
Bromoform	5.05	0.50	ug/L	5.000		101	60-142			
Bromomethane	5.53	5.0	ug/L	5.000		111	52.3-196			
Carbon disulfide	5.31	0.50	ug/L	5.000		106	20.2-197			
Carbon tetrachloride	5.15	0.50	ug/L	5.000		103	61.2-157			
Chlorobenzene	5.01	0.50	ug/L	5.000		100	88.7-113			
Chloroethane	5.50	5.0	ug/L	5.000		110	43.1-196			
Chloroform	5.10	0.50	ug/L	5.000		102	68.7-161			
Chloromethane	4.99	2.0	ug/L	5.000		99.8	37.7-187			
cis-1,2-Dichloroethene	4.90	0.50	ug/L	5.000		98.0	76.1-127			
cis-1,3-Dichloropropene	5.04	0.50	ug/L	5.000		101	65.5-122			
Dibromochloromethane	5.19	0.50	ug/L	5.000		104	74.8-135			
Dibromomethane	5.21	0.50	ug/L	5.000		104	75-140			
Dichlorodifluoromethane	5.10	0.50	ug/L	5.000		102	68.8-164			

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Project: Madison Kipp Corp. Semi-Annual Sampling
Project Number: 266431
Project Manager: Andrew Stehn

Volatile Organic Compounds by Method 8260 - Purge and Trap - Quality Control

Pace Analytical - Madison

Analyte	Result	Limit of Quantitation	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch A710036 - EPA 5030B										
LCS (A710036-BS2)				Prepared: 10/12/2017 Analyzed: 10/12/2017 14:37						
Diisopropyl Ether	5.42	0.50	ug/L	5.000		108	62.1-134			
Ethylbenzene	5.17	0.50	ug/L	5.000		103	86-119			
Hexachlorobutadiene	5.10	2.0	ug/L	5.000		102	54.7-158			
Isopropylbenzene	5.39	0.50	ug/L	5.000		108	86.3-118			
m,p-Xylene	10.2	1.0	ug/L	10.00		102	87.1-118			
Methyl t-Butyl Ether	5.44	0.50	ug/L	5.000		109	58.1-138			
Methylene chloride	5.60	2.0	ug/L	5.000		112	63.5-153			B
Naphthalene	4.86	5.0	ug/L	5.000		97.2	39.3-132			J, B
n-Butyl Benzene	4.88	0.50	ug/L	5.000		97.6	84.7-121			
n-Hexane	5.59	0.50	ug/L	5.000		112	49.5-147			
n-Propyl Benzene	4.74	0.50	ug/L	5.000		94.8	84.2-124			
o-Xylene	5.05	0.50	ug/L	5.000		101	82.8-114			
p-Isopropyltoluene	4.96	0.50	ug/L	5.000		99.2	88.1-116			
sec-Butyl Benzene	4.83	0.50	ug/L	5.000		96.6	85.3-121			
Styrene	4.89	0.50	ug/L	5.000		97.8	84.7-120			B
tert-Butylbenzene	4.90	0.50	ug/L	5.000		98.0	76.2-123			
Tetrachloroethene	4.82	0.50	ug/L	5.000		96.4	79.3-122			
Tetrahydrofuran	25.6	10	ug/L	25.00		102	27.8-152			
Toluene	4.81	0.50	ug/L	5.000		96.2	82.7-117			B
trans-1,2-Dichloroethene	5.30	0.50	ug/L	5.000		106	72.3-135			
trans-1,3-Dichloropropene	5.00	0.50	ug/L	5.000		100	72.5-122			
Trichloroethene	5.18	0.50	ug/L	5.000		104	77-126			
Trichlorofluoromethane	5.54	0.50	ug/L	5.000		111	56-195			
Vinyl chloride	5.16	0.50	ug/L	5.000		103	52.3-186			
Surrogate: Dibromofluoromethane	*5.09*		*ug/L*	*5.000*		*102*	*68.9-141*			
Surrogate: Toluene-d8	*5.07*		*ug/L*	*5.000*		*101*	*73.3-114*			
Surrogate: 4-Bromofluorobenzene	*5.13*		*ug/L*	*5.000*		*103*	*72.2-114*			
Matrix Spike (A710036-MS1)	**Source: A174110-01**			Prepared: 10/11/2017 Analyzed: 10/12/2017 02:00						
1,1,1,2-Tetrachloroethane	5.15	0.50	ug/L	5.000	ND	103	77.8-137			
1,1,1-Trichloroethane	5.57	0.50	ug/L	5.000	ND	111	66.3-167			
1,1,2,2-Tetrachloroethane	5.17	0.50	ug/L	5.000	ND	103	61.3-138			
1,1,2-Trichloroethane	5.22	0.50	ug/L	5.000	ND	104	75.4-132			
1,1,2-Trichlorotrifluoroethane	5.73	0.50	ug/L	5.000	ND	115	57.7-198			
1,1-Dichloroethane	5.64	0.50	ug/L	5.000	ND	113	66.9-154			
1,1-Dichloroethene	5.48	0.50	ug/L	5.000	ND	110	50.1-187			
1,1-Dichloropropene	5.23	0.50	ug/L	5.000	ND	105	74.1-127			
1,2,3-Trichlorobenzene	4.72	2.0	ug/L	5.000	0.0700	93.0	75.4-122			B
1,2,3-Trichloropropane	5.28	1.0	ug/L	5.000	ND	106	68.4-141			
1,2,4-Trichlorobenzene	4.58	2.0	ug/L	5.000	ND	91.6	72.1-121			
1,2,4-Trimethylbenzene	5.25	0.50	ug/L	5.000	0.370	97.6	86.5-121			
1,2-Dibromo-3-chloropropane	5.17	0.50	ug/L	5.000	ND	103	49.9-130			
1,2-Dibromoethane (EDB)	5.16	0.50	ug/L	5.000	ND	103	74.4-124			
1,2-Dichlorobenzene	5.01	0.50	ug/L	5.000	ND	100	88.5-114			
1,2-Dichloroethane	5.98	0.50	ug/L	5.000	ND	120	72.6-161			

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TRC Environmental Corporation, Inc.
708 Heartland Trail, Ste 3000
Madison WI, 53717

Project: Madison Kipp Corp. Semi-Annual Sampling
Project Number: 266431
Project Manager: Andrew Stehn

Volatile Organic Compounds by Method 8260 - Purge and Trap - Quality Control

Pace Analytical - Madison

Analyte	Result	Limit of Quantitation	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch A710036 - EPA 5030B										
Matrix Spike (A710036-MS1)	**Source: A174110-01**			Prepared: 10/11/2017 Analyzed: 10/12/2017 02:00						
1,2-Dichloropropane	5.09	0.50	ug/L	5.000	ND	102	84.7-119			
1,3,5-Trimethylbenzene	5.15	0.50	ug/L	5.000	0.170	99.6	87.3-122			
1,3-Dichlorobenzene	4.79	0.50	ug/L	5.000	ND	95.8	90.1-115			
1,3-Dichloropropane	5.18	0.50	ug/L	5.000	ND	104	76.6-126			
1,4-Dichlorobenzene	4.60	0.50	ug/L	5.000	ND	92.0	87.6-113			
2,2-Dichloropropane	4.24	0.50	ug/L	5.000	ND	84.8	72.3-145			
2-Butanone	54.6	20	ug/L	50.00	ND	109	32.2-170			
2-Chlorotoluene	5.04	0.50	ug/L	5.000	ND	101	87.9-117			
2-Hexanone	52.0	20	ug/L	50.00	ND	104	30.2-168			
4-Chlorotoluene	4.80	0.50	ug/L	5.000	ND	96.0	87.5-120			
4-Methyl-2-pentanone	53.2	20	ug/L	50.00	ND	106	39.1-168			
Acetone	67.2	20	ug/L	50.00	ND	134	31.2-199			
Benzene	5.79	0.50	ug/L	5.000	0.710	102	67.8-136			
Bromobenzene	4.95	0.50	ug/L	5.000	ND	99.0	84.5-111			
Bromochloromethane	5.29	0.50	ug/L	5.000	ND	106	80.9-134			
Bromodichloromethane	5.25	0.50	ug/L	5.000	ND	105	76.1-144			
Bromoform	5.14	0.50	ug/L	5.000	ND	103	60.2-142			
Bromomethane	5.66	5.0	ug/L	5.000	ND	113	50.3-198			
Carbon disulfide	5.35	0.50	ug/L	5.000	ND	107	35.6-196			
Carbon tetrachloride	5.27	0.50	ug/L	5.000	ND	105	69.7-152			
Chlorobenzene	4.93	0.50	ug/L	5.000	ND	98.6	89.3-113			
Chloroethane	5.53	5.0	ug/L	5.000	ND	111	50.2-198			
Chloroform	5.25	0.50	ug/L	5.000	ND	105	66.2-164			
Chloromethane	6.89	2.0	ug/L	5.000	2.23	93.2	46.5-179			
cis-1,2-Dichloroethene	5.08	0.50	ug/L	5.000	ND	102	67.5-137			
cis-1,3-Dichloropropene	4.87	0.50	ug/L	5.000	ND	97.4	63.3-123			
Dibromochloromethane	5.16	0.50	ug/L	5.000	ND	103	76-133			
Dibromomethane	5.26	0.50	ug/L	5.000	ND	105	78.2-139			
Dichlorodifluoromethane	5.26	0.50	ug/L	5.000	ND	105	70.6-150			
Diisopropyl Ether	5.59	0.50	ug/L	5.000	ND	112	57.3-137			
Ethylbenzene	5.83	0.50	ug/L	5.000	0.790	101	87.3-118			
Hexachlorobutadiene	5.04	2.0	ug/L	5.000	ND	101	55.4-161			
Isopropylbenzene	5.66	0.50	ug/L	5.000	0.530	103	89-115			
m,p-Xylene	10.2	1.0	ug/L	10.00	0.370	98.6	88.4-117			
Methyl t-Butyl Ether	5.67	0.50	ug/L	5.000	ND	113	54.4-145			
Methylene chloride	5.70	2.0	ug/L	5.000	ND	114	59.2-154			B
Naphthalene	5.40	5.0	ug/L	5.000	0.690	94.2	43.3-129			B
n-Butyl Benzene	4.95	0.50	ug/L	5.000	ND	99.0	85.9-119			
n-Hexane	5.41	0.50	ug/L	5.000	ND	108	44.3-150			
n-Propyl Benzene	5.03	0.50	ug/L	5.000	0.190	96.8	83.7-124			
o-Xylene	5.06	0.50	ug/L	5.000	0.110	99.0	83.9-112			
p-Isopropyltoluene	5.15	0.50	ug/L	5.000	0.160	99.8	89.6-114			
sec-Butyl Benzene	5.03	0.50	ug/L	5.000	0.130	98.0	85.5-120			
Styrene	4.65	0.50	ug/L	5.000	0.100	91.0	79.7-123			B
tert-Butylbenzene	4.99	0.50	ug/L	5.000	ND	99.8	78.6-120			

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TRC Environmental Corporation, Inc.	Project: Madison Kipp Corp. Semi-Annual Sampling
708 Heartland Trail, Ste 3000	Project Number: 266431
Madison WI, 53717	Project Manager: Andrew Stehn

Volatile Organic Compounds by Method 8260 - Purge and Trap - Quality Control

Pace Analytical - Madison

Analyte	Result	Limit of Quantitation	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch A710036 - EPA 5030B										
Matrix Spike (A710036-MS1)	**Source: A174110-01**			Prepared: 10/11/2017		Analyzed: 10/12/2017 02:00				
Tetrachloroethene	4.60	0.50	ug/L	5.000	ND	92.0	78.8-123			
Tetrahydrofuran	26.1	10	ug/L	25.00	ND	104	24.7-155			
Toluene	5.14	0.50	ug/L	5.000	0.320	96.4	81-118			B
trans-1,2-Dichloroethene	5.41	0.50	ug/L	5.000	ND	108	65.3-141			
trans-1,3-Dichloropropene	5.33	0.50	ug/L	5.000	ND	107	73.7-120			
Trichloroethene	5.21	0.50	ug/L	5.000	ND	104	77.1-123			
Trichlorofluoromethane	5.71	0.50	ug/L	5.000	ND	114	44.8-199			
Vinyl chloride	5.53	0.50	ug/L	5.000	ND	111	49.8-180			
Surrogate: Dibromofluoromethane	*5.34*		*ug/L*	*5.000*		*107*	*68.9-141*			
Surrogate: Toluene-d8	*4.99*		*ug/L*	*5.000*		*99.8*	*73.3-114*			
Surrogate: 4-Bromofluorobenzene	*5.12*		*ug/L*	*5.000*		*102*	*72.2-114*			
Matrix Spike (A710036-MS2)	**Source: A174009-05**			Prepared: 10/12/2017		Analyzed: 10/12/2017 16:29				
1,1,1,2-Tetrachloroethane	5.18	0.50	ug/L	5.000	ND	104	77.8-137			
1,1,1-Trichloroethane	5.46	0.50	ug/L	5.000	ND	109	66.3-167			
1,1,2,2-Tetrachloroethane	5.14	0.50	ug/L	5.000	ND	103	61.3-138			
1,1,2-Trichloroethane	6.35	0.50	ug/L	5.000	ND	127	75.4-132			
1,1,2-Trichlorotrifluoroethane	5.69	0.50	ug/L	5.000	ND	114	57.7-198			
1,1-Dichloroethane	5.67	0.50	ug/L	5.000	ND	113	66.9-154			
1,1-Dichloroethene	5.50	0.50	ug/L	5.000	ND	110	50.1-187			
1,1-Dichloropropene	5.43	0.50	ug/L	5.000	ND	109	74.1-127			
1,2,3-Trichlorobenzene	4.60	2.0	ug/L	5.000	ND	92.0	75.4-122			B
1,2,3-Trichloropropane	5.54	1.0	ug/L	5.000	ND	111	68.4-141			
1,2,4-Trichlorobenzene	4.67	2.0	ug/L	5.000	ND	93.4	72.1-121			
1,2,4-Trimethylbenzene	4.93	0.50	ug/L	5.000	ND	98.6	86.5-121			
1,2-Dibromo-3-chloropropane	4.94	0.50	ug/L	5.000	ND	98.8	49.9-130			
1,2-Dibromoethane (EDB)	5.37	0.50	ug/L	5.000	ND	107	74.4-124			
1,2-Dichlorobenzene	4.87	0.50	ug/L	5.000	ND	97.4	88.5-114			
1,2-Dichloroethane	5.90	0.50	ug/L	5.000	ND	118	72.6-161			
1,2-Dichloropropane	5.05	0.50	ug/L	5.000	ND	101	84.7-119			
1,3,5-Trimethylbenzene	4.97	0.50	ug/L	5.000	ND	99.4	87.3-122			
1,3-Dichlorobenzene	4.79	0.50	ug/L	5.000	ND	95.8	90.1-115			
1,3-Dichloropropane	5.25	0.50	ug/L	5.000	ND	105	76.6-126			
1,4-Dichlorobenzene	4.71	0.50	ug/L	5.000	ND	94.2	87.6-113			
2,2-Dichloropropane	5.13	0.50	ug/L	5.000	ND	103	72.3-145			
2-Butanone	54.3	20	ug/L	50.00	ND	109	32.2-170			
2-Chlorotoluene	4.99	0.50	ug/L	5.000	ND	99.8	87.9-117			
2-Hexanone	54.0	20	ug/L	50.00	ND	108	30.2-168			
4-Chlorotoluene	5.02	0.50	ug/L	5.000	ND	100	87.5-120			
4-Methyl-2-pentanone	55.9	20	ug/L	50.00	ND	112	39.1-168			
Acetone	64.2	20	ug/L	50.00	ND	128	31.2-199			
Benzene	4.97	0.50	ug/L	5.000	ND	99.4	67.8-136			
Bromobenzene	4.84	0.50	ug/L	5.000	ND	96.8	84.5-111			
Bromochloromethane	5.39	0.50	ug/L	5.000	ND	108	80.9-134			
Bromodichloromethane	5.32	0.50	ug/L	5.000	ND	106	76.1-144			

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TRC Environmental Corporation, Inc.	Project: Madison Kipp Corp. Semi-Annual Sampling
708 Heartland Trail, Ste 3000	Project Number: 266431
Madison WI, 53717	Project Manager: Andrew Stehn

Volatile Organic Compounds by Method 8260 - Purge and Trap - Quality Control

Pace Analytical - Madison

Analyte	Result	Limit of Quantitation	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch A710036 - EPA 5030B										
Matrix Spike (A710036-MS2)	**Source: A174009-05**			Prepared: 10/12/2017		Analyzed: 10/12/2017 16:29				
Bromoform	5.17	0.50	ug/L	5.000	ND	103	60.2-142			
Bromomethane	5.62	5.0	ug/L	5.000	ND	112	50.3-198			
Carbon disulfide	5.45	0.50	ug/L	5.000	ND	109	35.6-196			
Carbon tetrachloride	5.30	0.50	ug/L	5.000	ND	106	69.7-152			
Chlorobenzene	5.00	0.50	ug/L	5.000	ND	100	89.3-113			
Chloroethane	5.59	5.0	ug/L	5.000	ND	112	50.2-198			
Chloroform	5.22	0.50	ug/L	5.000	ND	104	66.2-164			
Chloromethane	5.30	2.0	ug/L	5.000	0.400	98.0	46.5-179			
cis-1,2-Dichloroethene	6.69	0.50	ug/L	5.000	1.75	98.8	67.5-137			
cis-1,3-Dichloropropene	4.99	0.50	ug/L	5.000	ND	99.8	63.3-123			
Dibromochloromethane	5.27	0.50	ug/L	5.000	ND	105	76-133			
Dibromomethane	5.35	0.50	ug/L	5.000	ND	107	78.2-139			
Dichlorodifluoromethane	5.13	0.50	ug/L	5.000	ND	103	70.6-150			
Diisopropyl Ether	5.68	0.50	ug/L	5.000	ND	114	57.3-137			
Ethylbenzene	5.08	0.50	ug/L	5.000	ND	102	87.3-118			
Hexachlorobutadiene	5.08	2.0	ug/L	5.000	ND	102	55.4-161			
Isopropylbenzene	5.19	0.50	ug/L	5.000	ND	104	89-115			
m,p-Xylene	10.0	1.0	ug/L	10.00	ND	100	88.4-117			
Methyl t-Butyl Ether	5.78	0.50	ug/L	5.000	ND	116	54.4-145			
Methylene chloride	5.61	2.0	ug/L	5.000	ND	112	59.2-154			B
Naphthalene	4.83	5.0	ug/L	5.000	ND	96.6	43.3-129			J, B
n-Butyl Benzene	4.87	0.50	ug/L	5.000	ND	97.4	85.9-119			
n-Hexane	5.81	0.50	ug/L	5.000	ND	116	44.3-150			
n-Propyl Benzene	4.80	0.50	ug/L	5.000	ND	96.0	83.7-124			
o-Xylene	4.94	0.50	ug/L	5.000	ND	98.8	83.9-112			
p-Isopropyltoluene	4.94	0.50	ug/L	5.000	ND	98.8	89.6-114			
sec-Butyl Benzene	4.86	0.50	ug/L	5.000	ND	97.2	85.5-120			
Styrene	4.71	0.50	ug/L	5.000	ND	94.2	79.7-123			B
tert-Butylbenzene	4.94	0.50	ug/L	5.000	ND	98.8	78.6-120			
Tetrachloroethene	34.2	0.50	ug/L	5.000	29.7	89.2	78.8-123			
Tetrahydrofuran	28.3	10	ug/L	25.00	ND	113	24.7-155			
Toluene	4.88	0.50	ug/L	5.000	ND	97.6	81-118			B
trans-1,2-Dichloroethene	5.59	0.50	ug/L	5.000	ND	112	65.3-141			
trans-1,3-Dichloropropene	5.23	0.50	ug/L	5.000	ND	105	73.7-120			
Trichloroethene	11.6	0.50	ug/L	5.000	6.33	105	77.1-123			
Trichlorofluoromethane	5.86	0.50	ug/L	5.000	ND	117	44.8-199			
Vinyl chloride	5.43	0.50	ug/L	5.000	ND	109	49.8-180			
Surrogate: Dibromofluoromethane	*5.28*		*ug/L*	*5.000*		*106*	*68.9-141*			
Surrogate: Toluene-d8	*5.03*		*ug/L*	*5.000*		*101*	*73.3-114*			
Surrogate: 4-Bromofluorobenzene	*5.12*		*ug/L*	*5.000*		*102*	*72.2-114*			

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Volatile Organic Compounds by Method 8260 - Purge and Trap - Quality Control

Pace Analytical - Madison

Analyte	Result	Limit of Quantitation	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch A710036 - EPA 5030B										
Matrix Spike Dup (A710036-MSD1)	**Source: A174110-01**			Prepared: 10/11/2017 Analyzed: 10/12/2017 02:28						
1,1,1,2-Tetrachloroethane	5.06	0.50	ug/L	5.000	ND	101	77.8-137	1.76	20	
1,1,1-Trichloroethane	5.45	0.50	ug/L	5.000	ND	109	66.3-167	2.18	20	
1,1,2,2-Tetrachloroethane	5.23	0.50	ug/L	5.000	ND	105	61.3-138	1.15	20	
1,1,2-Trichloroethane	5.23	0.50	ug/L	5.000	ND	105	75.4-132	0.191	20	
1,1,2-Trichlorotrifluoroethane	5.73	0.50	ug/L	5.000	ND	115	57.7-198	0.00	20	
1,1-Dichloroethane	5.64	0.50	ug/L	5.000	ND	113	66.9-154	0.00	20	
1,1-Dichloroethene	5.39	0.50	ug/L	5.000	ND	108	50.1-187	1.66	20	
1,1-Dichloropropene	5.16	0.50	ug/L	5.000	ND	103	74.1-127	1.35	20	
1,2,3-Trichlorobenzene	4.77	2.0	ug/L	5.000	0.0700	94.0	75.4-122	1.07	20	B
1,2,3-Trichloropropane	5.31	1.0	ug/L	5.000	ND	106	68.4-141	0.567	20	
1,2,4-Trichlorobenzene	4.63	2.0	ug/L	5.000	ND	92.6	72.1-121	1.09	20	
1,2,4-Trimethylbenzene	5.03	0.50	ug/L	5.000	0.370	93.2	86.5-121	4.61	20	
1,2-Dibromo-3-chloropropane	5.06	0.50	ug/L	5.000	ND	101	49.9-130	2.15	20	
1,2-Dibromoethane (EDB)	5.20	0.50	ug/L	5.000	ND	104	74.4-124	0.772	20	
1,2-Dichlorobenzene	4.97	0.50	ug/L	5.000	ND	99.4	88.5-114	0.802	20	
1,2-Dichloroethane	5.92	0.50	ug/L	5.000	ND	118	72.6-161	1.01	20	
1,2-Dichloropropane	5.12	0.50	ug/L	5.000	ND	102	84.7-119	0.588	20	
1,3,5-Trimethylbenzene	4.94	0.50	ug/L	5.000	0.170	95.4	87.3-122	4.31	20	
1,3-Dichlorobenzene	4.68	0.50	ug/L	5.000	ND	93.6	90.1-115	2.32	20	
1,3-Dichloropropane	5.20	0.50	ug/L	5.000	ND	104	76.6-126	0.385	20	
1,4-Dichlorobenzene	4.68	0.50	ug/L	5.000	ND	93.6	87.6-113	1.72	20	
2,2-Dichloropropane	4.23	0.50	ug/L	5.000	ND	84.6	72.3-145	0.236	20	
2-Butanone	51.4	20	ug/L	50.00	ND	103	32.2-170	6.08	20	
2-Chlorotoluene	4.94	0.50	ug/L	5.000	ND	98.8	87.9-117	2.00	20	
2-Hexanone	51.3	20	ug/L	50.00	ND	103	30.2-168	1.28	20	
4-Chlorotoluene	4.89	0.50	ug/L	5.000	ND	97.8	87.5-120	1.86	20	
4-Methyl-2-pentanone	53.3	20	ug/L	50.00	ND	107	39.1-168	0.207	20	
Acetone	68.5	20	ug/L	50.00	ND	137	31.2-199	1.99	20	
Benzene	5.70	0.50	ug/L	5.000	0.710	99.8	67.8-136	1.79	20	
Bromobenzene	4.98	0.50	ug/L	5.000	ND	99.6	84.5-111	0.604	20	
Bromochloromethane	5.33	0.50	ug/L	5.000	ND	107	80.9-134	0.753	20	
Bromodichloromethane	5.29	0.50	ug/L	5.000	ND	106	76.1-144	0.759	20	
Bromoform	5.20	0.50	ug/L	5.000	ND	104	60.2-142	1.16	20	
Bromomethane	5.71	5.0	ug/L	5.000	ND	114	50.3-198	0.880	20	
Carbon disulfide	5.34	0.50	ug/L	5.000	ND	107	35.6-196	0.187	20	
Carbon tetrachloride	5.34	0.50	ug/L	5.000	ND	107	69.7-152	1.32	20	
Chlorobenzene	4.91	0.50	ug/L	5.000	ND	98.2	89.3-113	0.407	20	
Chloroethane	5.78	5.0	ug/L	5.000	ND	116	50.2-198	4.42	20	
Chloroform	5.26	0.50	ug/L	5.000	ND	105	66.2-164	0.190	20	
Chloromethane	6.74	2.0	ug/L	5.000	2.23	90.2	46.5-179	3.27	20	
cis-1,2-Dichloroethene	5.06	0.50	ug/L	5.000	ND	101	67.5-137	0.394	20	
cis-1,3-Dichloropropene	4.80	0.50	ug/L	5.000	ND	96.0	63.3-123	1.45	20	
Dibromochloromethane	5.15	0.50	ug/L	5.000	ND	103	76-133	0.194	20	
Dibromomethane	5.35	0.50	ug/L	5.000	ND	107	78.2-139	1.70	20	
Dichlorodifluoromethane	5.56	0.50	ug/L	5.000	ND	111	70.6-150	5.55	20	

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TRC Environmental Corporation, Inc.
708 Heartland Trail, Ste 3000
Madison WI, 53717

Project: Madison Kipp Corp. Semi-Annual Sampling
Project Number: 266431
Project Manager: Andrew Stehn

Volatile Organic Compounds by Method 8260 - Purge and Trap - Quality Control

Pace Analytical - Madison

Analyte	Result	Limit of Quantitation	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch A710036 - EPA 5030B										
Matrix Spike Dup (A710036-MSD1)	**Source: A174110-01**			Prepared: 10/11/2017 Analyzed: 10/12/2017 02:28						
Diisopropyl Ether	5.56	0.50	ug/L	5.000	ND	111	57.3-137	0.538	20	
Ethylbenzene	5.77	0.50	ug/L	5.000	0.790	99.6	87.3-118	1.20	20	
Hexachlorobutadiene	5.08	2.0	ug/L	5.000	ND	102	55.4-161	0.791	20	
Isopropylbenzene	5.67	0.50	ug/L	5.000	0.530	103	89-115	0.195	20	
m,p-Xylene	10.2	1.0	ug/L	10.00	0.370	98.3	88.4-117	0.305	20	
Methyl t-Butyl Ether	5.68	0.50	ug/L	5.000	ND	114	54.4-145	0.176	20	
Methylene chloride	5.64	2.0	ug/L	5.000	ND	113	59.2-154	1.06	20	B
Naphthalene	5.51	5.0	ug/L	5.000	0.690	96.4	43.3-129	2.31	20	B
n-Butyl Benzene	4.89	0.50	ug/L	5.000	ND	97.8	85.9-119	1.22	20	
n-Hexane	5.49	0.50	ug/L	5.000	ND	110	44.3-150	1.47	20	
n-Propyl Benzene	5.06	0.50	ug/L	5.000	0.190	97.4	83.7-124	0.618	20	
o-Xylene	5.11	0.50	ug/L	5.000	0.110	100	83.9-112	1.01	20	
p-Isopropyltoluene	5.07	0.50	ug/L	5.000	0.160	98.2	89.6-114	1.62	20	
sec-Butyl Benzene	5.08	0.50	ug/L	5.000	0.130	99.0	85.5-120	1.02	20	
Styrene	4.32	0.50	ug/L	5.000	0.100	84.4	79.7-123	7.53	20	B
tert-Butylbenzene	5.11	0.50	ug/L	5.000	ND	102	78.6-120	2.38	20	
Tetrachloroethene	4.81	0.50	ug/L	5.000	ND	96.2	78.8-123	4.46	20	
Tetrahydrofuran	26.2	10	ug/L	25.00	ND	105	24.7-155	0.268	20	
Toluene	5.12	0.50	ug/L	5.000	0.320	96.0	81-118	0.416	20	B
trans-1,2-Dichloroethene	5.52	0.50	ug/L	5.000	ND	110	65.3-141	2.01	20	
trans-1,3-Dichloropropene	5.21	0.50	ug/L	5.000	ND	104	73.7-120	2.28	20	
Trichloroethene	5.14	0.50	ug/L	5.000	ND	103	77.1-123	1.35	20	
Trichlorofluoromethane	5.77	0.50	ug/L	5.000	ND	115	44.8-199	1.05	20	
Vinyl chloride	5.58	0.50	ug/L	5.000	ND	112	49.8-180	0.900	20	
Surrogate: Dibromofluoromethane	*5.38*		*ug/L*	*5.000*		*108*	*68.9-141*			
Surrogate: Toluene-d8	*5.08*		*ug/L*	*5.000*		*102*	*73.3-114*			
Surrogate: 4-Bromofluorobenzene	*5.12*		*ug/L*	*5.000*		*102*	*72.2-114*			
Matrix Spike Dup (A710036-MSD2)	**Source: A174009-05**			Prepared: 10/12/2017 Analyzed: 10/12/2017 16:57						
1,1,1,2-Tetrachloroethane	5.00	0.50	ug/L	5.000	ND	100	77.8-137	3.54	20	
1,1,1-Trichloroethane	5.30	0.50	ug/L	5.000	ND	106	66.3-167	2.97	20	
1,1,2,2-Tetrachloroethane	4.86	0.50	ug/L	5.000	ND	97.2	61.3-138	5.60	20	
1,1,2-Trichloroethane	6.23	0.50	ug/L	5.000	ND	125	75.4-132	1.91	20	
1,1,2-Trichlorotrifluoroethane	5.70	0.50	ug/L	5.000	ND	114	57.7-198	0.176	20	
1,1-Dichloroethane	5.50	0.50	ug/L	5.000	ND	110	66.9-154	3.04	20	
1,1-Dichloroethene	5.37	0.50	ug/L	5.000	ND	107	50.1-187	2.39	20	
1,1-Dichloropropene	5.51	0.50	ug/L	5.000	ND	110	74.1-127	1.46	20	
1,2,3-Trichlorobenzene	4.64	2.0	ug/L	5.000	ND	92.8	75.4-122	0.866	20	B
1,2,3-Trichloropropane	5.13	1.0	ug/L	5.000	ND	103	68.4-141	7.69	20	
1,2,4-Trichlorobenzene	4.53	2.0	ug/L	5.000	ND	90.6	72.1-121	3.04	20	
1,2,4-Trimethylbenzene	4.85	0.50	ug/L	5.000	ND	97.0	86.5-121	1.64	20	
1,2-Dibromo-3-chloropropane	4.71	0.50	ug/L	5.000	ND	94.2	49.9-130	4.77	20	
1,2-Dibromoethane (EDB)	5.32	0.50	ug/L	5.000	ND	106	74.4-124	0.935	20	
1,2-Dichlorobenzene	4.79	0.50	ug/L	5.000	ND	95.8	88.5-114	1.66	20	
1,2-Dichloroethane	5.63	0.50	ug/L	5.000	ND	113	72.6-161	4.68	20	

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708 Heartland Trail, Ste 3000
Madison WI, 53717

Project: Madison Kipp Corp. Semi-Annual Sampling
Project Number: 266431
Project Manager: Andrew Stehn

Volatile Organic Compounds by Method 8260 - Purge and Trap - Quality Control

Pace Analytical - Madison

Analyte	Result	Limit of Quantitation	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch A710036 - EPA 5030B										
Matrix Spike Dup (A710036-MSD2)	**Source: A174009-05**			Prepared: 10/12/2017 Analyzed: 10/12/2017 16:57						
1,2-Dichloropropane	4.94	0.50	ug/L	5.000	ND	98.8	84.7-119	2.20	20	
1,3,5-Trimethylbenzene	4.91	0.50	ug/L	5.000	ND	98.2	87.3-122	1.21	20	
1,3-Dichlorobenzene	4.67	0.50	ug/L	5.000	ND	93.4	90.1-115	2.54	20	
1,3-Dichloropropane	5.15	0.50	ug/L	5.000	ND	103	76.6-126	1.92	20	
1,4-Dichlorobenzene	4.61	0.50	ug/L	5.000	ND	92.2	87.6-113	2.15	20	
2,2-Dichloropropane	5.15	0.50	ug/L	5.000	ND	103	72.3-145	0.389	20	
2-Butanone	52.1	20	ug/L	50.00	ND	104	32.2-170	4.14	20	
2-Chlorotoluene	4.86	0.50	ug/L	5.000	ND	97.2	87.9-117	2.64	20	
2-Hexanone	50.7	20	ug/L	50.00	ND	101	30.2-168	6.25	20	
4-Chlorotoluene	4.78	0.50	ug/L	5.000	ND	95.6	87.5-120	4.90	20	
4-Methyl-2-pentanone	52.7	20	ug/L	50.00	ND	105	39.1-168	5.78	20	
Acetone	57.7	20	ug/L	50.00	ND	115	31.2-199	10.7	20	
Benzene	4.93	0.50	ug/L	5.000	ND	98.6	67.8-136	0.808	20	
Bromobenzene	4.75	0.50	ug/L	5.000	ND	95.0	84.5-111	1.88	20	
Bromochloromethane	4.96	0.50	ug/L	5.000	ND	99.2	80.9-134	8.31	20	
Bromodichloromethane	5.12	0.50	ug/L	5.000	ND	102	76.1-144	3.83	20	
Bromoform	4.88	0.50	ug/L	5.000	ND	97.6	60.2-142	5.77	20	
Bromomethane	5.69	5.0	ug/L	5.000	ND	114	50.3-198	1.24	20	
Carbon disulfide	5.27	0.50	ug/L	5.000	ND	105	35.6-196	3.36	20	
Carbon tetrachloride	5.14	0.50	ug/L	5.000	ND	103	69.7-152	3.07	20	
Chlorobenzene	4.84	0.50	ug/L	5.000	ND	96.8	89.3-113	3.25	20	
Chloroethane	5.52	5.0	ug/L	5.000	ND	110	50.2-198	1.26	20	
Chloroform	5.03	0.50	ug/L	5.000	ND	101	66.2-164	3.71	20	
Chloromethane	5.46	2.0	ug/L	5.000	0.400	101	46.5-179	3.21	20	
cis-1,2-Dichloroethene	6.58	0.50	ug/L	5.000	1.75	96.6	67.5-137	2.25	20	
cis-1,3-Dichloropropene	4.79	0.50	ug/L	5.000	ND	95.8	63.3-123	4.09	20	
Dibromochloromethane	5.06	0.50	ug/L	5.000	ND	101	76-133	4.07	20	
Dibromomethane	5.13	0.50	ug/L	5.000	ND	103	78.2-139	4.20	20	
Dichlorodifluoromethane	5.10	0.50	ug/L	5.000	ND	102	70.6-150	0.587	20	
Diisopropyl Ether	5.50	0.50	ug/L	5.000	ND	110	57.3-137	3.22	20	
Ethylbenzene	4.94	0.50	ug/L	5.000	ND	98.8	87.3-118	2.79	20	
Hexachlorobutadiene	5.09	2.0	ug/L	5.000	ND	102	55.4-161	0.197	20	
Isopropylbenzene	5.04	0.50	ug/L	5.000	ND	101	89-115	2.93	20	
m,p-Xylene	9.89	1.0	ug/L	10.00	ND	98.9	88.4-117	1.11	20	
Methyl t-Butyl Ether	5.58	0.50	ug/L	5.000	ND	112	54.4-145	3.52	20	
Methylene chloride	5.37	2.0	ug/L	5.000	ND	107	59.2-154	4.37	20	B
Naphthalene	4.93	5.0	ug/L	5.000	ND	98.6	43.3-129	2.05	20	J, B
n-Butyl Benzene	4.82	0.50	ug/L	5.000	ND	96.4	85.9-119	1.03	20	
n-Hexane	5.66	0.50	ug/L	5.000	ND	113	44.3-150	2.62	20	
n-Propyl Benzene	4.73	0.50	ug/L	5.000	ND	94.6	83.7-124	1.47	20	
o-Xylene	4.77	0.50	ug/L	5.000	ND	95.4	83.9-112	3.50	20	
p-Isopropyltoluene	4.80	0.50	ug/L	5.000	ND	96.0	89.6-114	2.87	20	
sec-Butyl Benzene	4.85	0.50	ug/L	5.000	ND	97.0	85.5-120	0.206	20	
Styrene	4.53	0.50	ug/L	5.000	ND	90.6	79.7-123	3.90	20	B
tert-Butylbenzene	4.89	0.50	ug/L	5.000	ND	97.8	78.6-120	1.02	20	

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708 Heartland Trail, Ste 3000	Project Number: 266431
Madison WI, 53717	Project Manager: Andrew Stehn

Volatile Organic Compounds by Method 8260 - Purge and Trap - Quality Control

Pace Analytical - Madison

Analyte	Result	Limit of Quantitation	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch A710036 - EPA 5030B										
Matrix Spike Dup (A710036-MSD2)	**Source: A174009-05**			Prepared: 10/12/2017 Analyzed: 10/12/2017 16:57						
Tetrachloroethene	32.8	0.50	ug/L	5.000	29.7	60.6	78.8-123	38.2	20	M, X
Tetrahydrofuran	26.8	10	ug/L	25.00	ND	107	24.7-155	5.44	20	
Toluene	4.69	0.50	ug/L	5.000	ND	93.8	81-118	3.97	20	B
trans-1,2-Dichloroethene	5.35	0.50	ug/L	5.000	ND	107	65.3-141	4.39	20	
trans-1,3-Dichloropropene	4.92	0.50	ug/L	5.000	ND	98.4	73.7-120	6.11	20	
Trichloroethene	11.1	0.50	ug/L	5.000	6.33	95.4	77.1-123	9.20	20	
Trichlorofluoromethane	5.63	0.50	ug/L	5.000	ND	113	44.8-199	4.00	20	
Vinyl chloride	5.35	0.50	ug/L	5.000	ND	107	49.8-180	1.48	20	
Surrogate: Dibromofluoromethane	*5.16*		*ug/L*	*5.000*		*103*	*68.9-141*			
Surrogate: Toluene-d8	*4.89*		*ug/L*	*5.000*		*97.8*	*73.3-114*			
Surrogate: 4-Bromofluorobenzene	*4.94*		*ug/L*	*5.000*		*98.8*	*72.2-114*			
Batch A710045 - EPA 5030B										
Blank (A710045-BLK1)				Prepared: 10/11/2017 Analyzed: 10/11/2017 14:09						
1,1,1,2-Tetrachloroethane	ND	0.50	ug/L							
1,1,1-Trichloroethane	ND	0.50	ug/L							
1,1,2,2-Tetrachloroethane	ND	0.50	ug/L							
1,1,2-Trichloroethane	ND	0.50	ug/L							
1,1,2-Trichlorotrifluoroethane	ND	0.50	ug/L							
1,1-Dichloroethane	ND	0.50	ug/L							
1,1-Dichloroethene	ND	0.50	ug/L							
1,1-Dichloropropene	ND	0.50	ug/L							
1,2,3-Trichlorobenzene	0.060	2.0	ug/L							J
1,2,3-Trichloropropane	ND	1.0	ug/L							
1,2,4-Trichlorobenzene	ND	2.0	ug/L							
1,2,4-Trimethylbenzene	ND	0.50	ug/L							
1,2-Dibromo-3-chloropropane	ND	0.50	ug/L							
1,2-Dibromoethane (EDB)	ND	0.50	ug/L							
1,2-Dichlorobenzene	ND	0.50	ug/L							
1,2-Dichloroethane	ND	0.50	ug/L							
1,2-Dichloropropane	ND	0.50	ug/L							
1,3,5-Trimethylbenzene	ND	0.50	ug/L							
1,3-Dichlorobenzene	ND	0.50	ug/L							
1,3-Dichloropropane	ND	0.50	ug/L							
1,4-Dichlorobenzene	ND	0.50	ug/L							
2,2-Dichloropropane	ND	0.50	ug/L							
2-Butanone	ND	20	ug/L							
2-Chlorotoluene	ND	0.50	ug/L							
2-Hexanone	ND	20	ug/L							
4-Chlorotoluene	ND	0.50	ug/L							
4-Methyl-2-pentanone	ND	20	ug/L							
Acetone	ND	20	ug/L							
Benzene	ND	0.50	ug/L							
Bromobenzene	ND	0.50	ug/L							

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Volatile Organic Compounds by Method 8260 - Purge and Trap - Quality Control

Pace Analytical - Madison

Analyte	Result	Limit of Quantitation	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch A710045 - EPA 5030B										
Blank (A710045-BLK1)				Prepared: 10/11/2017 Analyzed: 10/11/2017 14:09						
Bromochloromethane	ND	0.50	ug/L							
Bromodichloromethane	ND	0.50	ug/L							
Bromoform	ND	0.50	ug/L							
Bromomethane	ND	5.0	ug/L							
Carbon disulfide	ND	0.50	ug/L							
Carbon tetrachloride	ND	0.50	ug/L							
Chlorobenzene	ND	0.50	ug/L							
Chloroethane	ND	5.0	ug/L							
Chloroform	ND	0.50	ug/L							
Chloromethane	ND	2.0	ug/L							
cis-1,2-Dichloroethene	ND	0.50	ug/L							
cis-1,3-Dichloropropene	ND	0.50	ug/L							
Dibromochloromethane	ND	0.50	ug/L							
Dibromomethane	ND	0.50	ug/L							
Dichlorodifluoromethane	ND	0.50	ug/L							
Diisopropyl Ether	ND	0.50	ug/L							
Ethylbenzene	ND	0.50	ug/L							
Hexachlorobutadiene	ND	2.0	ug/L							
Isopropylbenzene	ND	0.50	ug/L							
m,p-Xylene	0.060	1.0	ug/L							J
Methyl t-Butyl Ether	ND	0.50	ug/L							
Methylene chloride	ND	2.0	ug/L							
Naphthalene	0.11	5.0	ug/L							J
n-Butyl Benzene	ND	0.50	ug/L							
n-Hexane	ND	0.50	ug/L							
n-Propyl Benzene	ND	0.50	ug/L							
o-Xylene	ND	0.50	ug/L							
p-Isopropyltoluene	ND	0.50	ug/L							
sec-Butyl Benzene	ND	0.50	ug/L							
Styrene	0.070	0.50	ug/L							J
tert-Butylbenzene	ND	0.50	ug/L							
Tetrachloroethene	ND	0.50	ug/L							
Tetrahydrofuran	ND	10	ug/L							
Toluene	ND	0.50	ug/L							
trans-1,2-Dichloroethene	ND	0.50	ug/L							
trans-1,3-Dichloropropene	ND	0.50	ug/L							
Trichloroethene	ND	0.50	ug/L							
Trichlorofluoromethane	ND	0.50	ug/L							
Vinyl chloride	ND	0.50	ug/L							
Xylenes, total	ND	1.5	ug/L							
Surrogate: Dibromofluoromethane	*9.40*		*ug/L*	*10.00*		*94.0*	*68.9-141*			
Surrogate: Toluene-d8	*9.31*		*ug/L*	*10.00*		*93.1*	*73.3-114*			
Surrogate: 4-Bromofluorobenzene	*8.75*		*ug/L*	*10.00*		*87.5*	*72.2-114*			

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Volatile Organic Compounds by Method 8260 - Purge and Trap - Quality Control

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Analyte	Result	Limit of Quantitation	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch A710045 - EPA 5030B										
LCS (A710045-BS1)				Prepared: 10/11/2017 Analyzed: 10/11/2017 13:41						
1,1,1,2-Tetrachloroethane	4.60	0.50	ug/L	5.000		92.0	75.8-136			
1,1,1-Trichloroethane	4.98	0.50	ug/L	5.000		99.6	66.1-164			
1,1,2,2-Tetrachloroethane	4.35	0.50	ug/L	5.000		87.0	61.8-138			
1,1,2-Trichloroethane	4.66	0.50	ug/L	5.000		93.2	76.7-127			
1,1,2-Trichlorotrifluoroethane	5.02	0.50	ug/L	5.000		100	55.6-199			
1,1-Dichloroethane	4.62	0.50	ug/L	5.000		92.4	69.1-153			
1,1-Dichloroethene	4.98	0.50	ug/L	5.000		99.6	51.2-180			
1,1-Dichloropropene	4.53	0.50	ug/L	5.000		90.6	77.3-125			
1,2,3-Trichlorobenzene	4.71	2.0	ug/L	5.000		94.2	74-122			B
1,2,3-Trichloropropane	4.39	1.0	ug/L	5.000		87.8	69.8-140			
1,2,4-Trichlorobenzene	4.63	2.0	ug/L	5.000		92.6	73.3-120			
1,2,4-Trimethylbenzene	4.56	0.50	ug/L	5.000		91.2	86.6-121			
1,2-Dibromo-3-chloropropane	4.55	0.50	ug/L	5.000		91.0	42.9-137			
1,2-Dibromoethane (EDB)	4.65	0.50	ug/L	5.000		93.0	75.2-124			
1,2-Dichlorobenzene	4.67	0.50	ug/L	5.000		93.4	88.3-115			
1,2-Dichloroethane	4.80	0.50	ug/L	5.000		96.0	69.2-160			
1,2-Dichloropropane	4.34	0.50	ug/L	5.000		86.8	73.1-128			
1,3,5-Trimethylbenzene	4.57	0.50	ug/L	5.000		91.4	87.3-122			
1,3-Dichlorobenzene	4.66	0.50	ug/L	5.000		93.2	90.7-114			
1,3-Dichloropropane	4.42	0.50	ug/L	5.000		88.4	76.8-125			
1,4-Dichlorobenzene	4.56	0.50	ug/L	5.000		91.2	88.9-112			
2,2-Dichloropropane	4.83	0.50	ug/L	5.000		96.6	70.2-147			
2-Butanone	41.2	20	ug/L	50.00		82.4	39.5-160			
2-Chlorotoluene	4.61	0.50	ug/L	5.000		92.2	87.3-118			
2-Hexanone	44.8	20	ug/L	50.00		89.7	30.4-168			
4-Chlorotoluene	4.51	0.50	ug/L	5.000		90.2	87.6-120			
4-Methyl-2-pentanone	44.8	20	ug/L	50.00		89.6	38.8-166			
Acetone	44.1	20	ug/L	50.00		88.1	30.1-197			
Benzene	4.39	0.50	ug/L	5.000		87.8	68.2-135			
Bromobenzene	4.50	0.50	ug/L	5.000		90.0	84.4-112			
Bromochloromethane	4.50	0.50	ug/L	5.000		90.0	76.7-138			
Bromodichloromethane	4.66	0.50	ug/L	5.000		93.2	77.2-140			
Bromoform	4.69	0.50	ug/L	5.000		93.8	60-142			
Bromomethane	4.90	5.0	ug/L	5.000		98.0	52.3-196			J
Carbon disulfide	4.56	0.50	ug/L	5.000		91.2	20.2-197			
Carbon tetrachloride	4.85	0.50	ug/L	5.000		97.0	61.2-157			
Chlorobenzene	4.60	0.50	ug/L	5.000		92.0	88.7-113			
Chloroethane	4.49	5.0	ug/L	5.000		89.8	43.1-196			J
Chloroform	4.63	0.50	ug/L	5.000		92.6	68.7-161			
Chloromethane	4.38	2.0	ug/L	5.000		87.6	37.7-187			
cis-1,2-Dichloroethene	4.46	0.50	ug/L	5.000		89.2	76.1-127			
cis-1,3-Dichloropropene	4.42	0.50	ug/L	5.000		88.4	65.5-122			
Dibromochloromethane	4.78	0.50	ug/L	5.000		95.6	74.8-135			
Dibromomethane	4.62	0.50	ug/L	5.000		92.4	75-140			
Dichlorodifluoromethane	4.67	0.50	ug/L	5.000		93.4	68.8-164			

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TRC Environmental Corporation, Inc.
708 Heartland Trail, Ste 3000
Madison WI, 53717

Project: Madison Kipp Corp. Semi-Annual Sampling
Project Number: 266431
Project Manager: Andrew Stehn

Volatile Organic Compounds by Method 8260 - Purge and Trap - Quality Control

Pace Analytical - Madison

Analyte	Result	Limit of Quantitation	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch A710045 - EPA 5030B										
LCS (A710045-BS1)				Prepared: 10/11/2017 Analyzed: 10/11/2017 13:41						
Diisopropyl Ether	4.54	0.50	ug/L	5.000		90.8	62.1-134			
Ethylbenzene	4.57	0.50	ug/L	5.000		91.4	86-119			
Hexachlorobutadiene	4.90	2.0	ug/L	5.000		98.0	54.7-158			
Isopropylbenzene	4.63	0.50	ug/L	5.000		92.6	86.3-118			
m,p-Xylene	9.14	1.0	ug/L	10.00		91.4	87.1-118			B
Methyl t-Butyl Ether	4.56	0.50	ug/L	5.000		91.2	58.1-138			
Methylene chloride	4.92	2.0	ug/L	5.000		98.4	63.5-153			
Naphthalene	4.40	5.0	ug/L	5.000		88.0	39.3-132			J, B
n-Butyl Benzene	4.68	0.50	ug/L	5.000		93.6	84.7-121			
n-Hexane	4.20	0.50	ug/L	5.000		84.0	49.5-147			
n-Propyl Benzene	4.51	0.50	ug/L	5.000		90.2	84.2-124			
o-Xylene	4.56	0.50	ug/L	5.000		91.2	82.8-114			
p-Isopropyltoluene	4.66	0.50	ug/L	5.000		93.2	88.1-116			
sec-Butyl Benzene	4.57	0.50	ug/L	5.000		91.4	85.3-121			
Styrene	4.58	0.50	ug/L	5.000		91.6	84.7-120			B
tert-Butylbenzene	4.55	0.50	ug/L	5.000		91.0	76.2-123			
Tetrachloroethene	4.74	0.50	ug/L	5.000		94.8	79.3-122			
Tetrahydrofuran	21.1	10	ug/L	25.00		84.2	27.8-152			
Toluene	4.43	0.50	ug/L	5.000		88.6	82.7-117			
trans-1,2-Dichloroethene	4.62	0.50	ug/L	5.000		92.4	72.3-135			
trans-1,3-Dichloropropene	4.55	0.50	ug/L	5.000		91.0	72.5-122			
Trichloroethene	4.47	0.50	ug/L	5.000		89.4	77-126			
Trichlorofluoromethane	5.05	0.50	ug/L	5.000		101	56-195			
Vinyl chloride	4.59	0.50	ug/L	5.000		91.8	52.3-186			
Surrogate: Dibromofluoromethane	*4.95*		*ug/L*	*5.000*		*99.0*	*68.9-141*			
Surrogate: Toluene-d8	*4.71*		*ug/L*	*5.000*		*94.2*	*73.3-114*			
Surrogate: 4-Bromofluorobenzene	*4.38*		*ug/L*	*5.000*		*87.6*	*72.2-114*			
Matrix Spike (A710045-MS1)	**Source: A174009-30**			Prepared: 10/11/2017 Analyzed: 10/11/2017 14:37						
1,1,1,2-Tetrachloroethane	4.87	0.50	ug/L	5.000	ND	97.4	77.8-137			
1,1,1-Trichloroethane	5.11	0.50	ug/L	5.000	ND	102	66.3-167			
1,1,2,2-Tetrachloroethane	4.77	0.50	ug/L	5.000	ND	95.4	61.3-138			
1,1,2-Trichloroethane	5.97	0.50	ug/L	5.000	ND	119	75.4-132			
1,1,2-Trichlorotrifluoroethane	5.37	0.50	ug/L	5.000	ND	107	57.7-198			
1,1-Dichloroethane	4.98	0.50	ug/L	5.000	ND	99.6	66.9-154			
1,1-Dichloroethene	5.15	0.50	ug/L	5.000	ND	103	50.1-187			
1,1-Dichloropropene	4.63	0.50	ug/L	5.000	ND	92.6	74.1-127			
1,2,3-Trichlorobenzene	5.11	2.0	ug/L	5.000	ND	102	75.4-122			B
1,2,3-Trichloropropane	4.81	1.0	ug/L	5.000	ND	96.2	68.4-141			
1,2,4-Trichlorobenzene	5.00	2.0	ug/L	5.000	ND	100	72.1-121			
1,2,4-Trimethylbenzene	4.60	0.50	ug/L	5.000	ND	92.0	86.5-121			
1,2-Dibromo-3-chloropropane	5.06	0.50	ug/L	5.000	ND	101	49.9-130			
1,2-Dibromoethane (EDB)	4.92	0.50	ug/L	5.000	ND	98.4	74.4-124			
1,2-Dichlorobenzene	4.69	0.50	ug/L	5.000	ND	93.8	88.5-114			
1,2-Dichloroethane	4.91	0.50	ug/L	5.000	ND	98.2	72.6-161			

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TRC Environmental Corporation, Inc.	Project: Madison Kipp Corp. Semi-Annual Sampling
708 Heartland Trail, Ste 3000	Project Number: 266431
Madison WI, 53717	Project Manager: Andrew Stehn

Volatile Organic Compounds by Method 8260 - Purge and Trap - Quality Control

Pace Analytical - Madison

Analyte	Result	Limit of Quantitation	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch A710045 - EPA 5030B										
Matrix Spike (A710045-MS1)	**Source: A174009-30**			Prepared: 10/11/2017 Analyzed: 10/11/2017 14:37						
1,2-Dichloropropane	4.67	0.50	ug/L	5.000	ND	93.4	84.7-119			
1,3,5-Trimethylbenzene	4.60	0.50	ug/L	5.000	ND	92.0	87.3-122			
1,3-Dichlorobenzene	4.69	0.50	ug/L	5.000	ND	93.8	90.1-115			
1,3-Dichloropropane	4.77	0.50	ug/L	5.000	ND	95.4	76.6-126			
1,4-Dichlorobenzene	4.72	0.50	ug/L	5.000	ND	94.4	87.6-113			
2,2-Dichloropropane	5.34	0.50	ug/L	5.000	ND	107	72.3-145			
2-Butanone	47.2	20	ug/L	50.00	ND	94.4	32.2-170			
2-Chlorotoluene	4.74	0.50	ug/L	5.000	ND	94.8	87.9-117			
2-Hexanone	50.7	20	ug/L	50.00	ND	101	30.2-168			
4-Chlorotoluene	4.70	0.50	ug/L	5.000	ND	94.0	87.5-120			
4-Methyl-2-pentanone	51.0	20	ug/L	50.00	ND	102	39.1-168			
Acetone	54.7	20	ug/L	50.00	ND	109	31.2-199			
Benzene	4.60	0.50	ug/L	5.000	ND	92.0	67.8-136			
Bromobenzene	4.61	0.50	ug/L	5.000	ND	92.2	84.5-111			
Bromochloromethane	4.76	0.50	ug/L	5.000	ND	95.2	80.9-134			
Bromodichloromethane	4.92	0.50	ug/L	5.000	ND	98.4	76.1-144			
Bromoform	5.12	0.50	ug/L	5.000	ND	102	60.2-142			
Bromomethane	4.84	5.0	ug/L	5.000	ND	96.8	50.3-198			J
Carbon disulfide	6.44	0.50	ug/L	5.000	ND	129	35.6-196			
Carbon tetrachloride	4.95	0.50	ug/L	5.000	ND	99.0	69.7-152			
Chlorobenzene	4.69	0.50	ug/L	5.000	ND	93.8	89.3-113			
Chloroethane	4.50	5.0	ug/L	5.000	ND	90.0	50.2-198			J
Chloroform	4.85	0.50	ug/L	5.000	ND	97.0	66.2-164			
Chloromethane	4.89	2.0	ug/L	5.000	1.38	70.2	46.5-179			
cis-1,2-Dichloroethene	4.52	0.50	ug/L	5.000	ND	90.4	67.5-137			
cis-1,3-Dichloropropene	4.60	0.50	ug/L	5.000	ND	92.0	63.3-123			
Dibromochloromethane	5.02	0.50	ug/L	5.000	ND	100	76-133			
Dibromomethane	5.04	0.50	ug/L	5.000	ND	101	78.2-139			
Dichlorodifluoromethane	5.10	0.50	ug/L	5.000	ND	102	70.6-150			
Diisopropyl Ether	4.93	0.50	ug/L	5.000	ND	98.6	57.3-137			
Ethylbenzene	4.71	0.50	ug/L	5.000	ND	94.2	87.3-118			
Hexachlorobutadiene	5.23	2.0	ug/L	5.000	ND	105	55.4-161			
Isopropylbenzene	4.71	0.50	ug/L	5.000	ND	94.2	89-115			
m,p-Xylene	9.40	1.0	ug/L	10.00	ND	94.0	88.4-117			B
Methyl t-Butyl Ether	4.94	0.50	ug/L	5.000	ND	98.8	54.4-145			
Methylene chloride	5.34	2.0	ug/L	5.000	ND	107	59.2-154			
Naphthalene	5.02	5.0	ug/L	5.000	ND	100	43.3-129			B
n-Butyl Benzene	4.86	0.50	ug/L	5.000	ND	97.2	85.9-119			
n-Hexane	4.56	0.50	ug/L	5.000	ND	91.2	44.3-150			
n-Propyl Benzene	4.66	0.50	ug/L	5.000	ND	93.2	83.7-124			
o-Xylene	4.69	0.50	ug/L	5.000	ND	93.8	83.9-112			
p-Isopropyltoluene	4.81	0.50	ug/L	5.000	ND	96.2	89.6-114			
sec-Butyl Benzene	4.63	0.50	ug/L	5.000	ND	92.6	85.5-120			
Styrene	4.63	0.50	ug/L	5.000	ND	92.6	79.7-123			B
tert-Butylbenzene	4.48	0.50	ug/L	5.000	ND	89.6	78.6-120			

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TRC Environmental Corporation, Inc.
708 Heartland Trail, Ste 3000
Madison WI, 53717

Project: Madison Kipp Corp. Semi-Annual Sampling
Project Number: 266431
Project Manager: Andrew Stehn

Volatile Organic Compounds by Method 8260 - Purge and Trap - Quality Control

Pace Analytical - Madison

Analyte	Result	Limit of Quantitation	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch A710045 - EPA 5030B										
Matrix Spike (A710045-MS1)	**Source: A174009-30**			Prepared: 10/11/2017	Analyzed: 10/11/2017 14:37					
Tetrachloroethene	41.9	0.50	ug/L	5.000	37.8	83.6	78.8-123			
Tetrahydrofuran	23.5	10	ug/L	25.00	ND	94.0	24.7-155			
Toluene	4.69	0.50	ug/L	5.000	ND	93.8	81-118			
trans-1,2-Dichloroethene	4.92	0.50	ug/L	5.000	ND	98.4	65.3-141			
trans-1,3-Dichloropropene	4.87	0.50	ug/L	5.000	ND	97.4	73.7-120			
Trichloroethene	4.89	0.50	ug/L	5.000	0.0900	96.0	77.1-123			
Trichlorofluoromethane	4.89	0.50	ug/L	5.000	ND	97.8	44.8-199			
Vinyl chloride	4.84	0.50	ug/L	5.000	ND	96.8	49.8-180			
Surrogate: Dibromofluoromethane	*5.02*		*ug/L*	*5.000*		*100*	*68.9-141*			
Surrogate: Toluene-d8	*4.93*		*ug/L*	*5.000*		*98.6*	*73.3-114*			
Surrogate: 4-Bromofluorobenzene	*4.65*		*ug/L*	*5.000*		*93.0*	*72.2-114*			
Matrix Spike Dup (A710045-MSD1)	**Source: A174009-30**			Prepared: 10/11/2017	Analyzed: 10/11/2017 15:06					
1,1,1,2-Tetrachloroethane	4.81	0.50	ug/L	5.000	ND	96.2	77.8-137	1.24	20	
1,1,1-Trichloroethane	5.03	0.50	ug/L	5.000	ND	101	66.3-167	1.58	20	
1,1,2,2-Tetrachloroethane	4.57	0.50	ug/L	5.000	ND	91.4	61.3-138	4.28	20	
1,1,2-Trichloroethane	5.58	0.50	ug/L	5.000	ND	112	75.4-132	6.75	20	
1,1,2-Trichlorotrifluoroethane	5.35	0.50	ug/L	5.000	ND	107	57.7-198	0.373	20	
1,1-Dichloroethane	4.93	0.50	ug/L	5.000	ND	98.6	66.9-154	1.01	20	
1,1-Dichloroethene	5.70	0.50	ug/L	5.000	ND	114	50.1-187	10.1	20	
1,1-Dichloropropene	4.76	0.50	ug/L	5.000	ND	95.2	74.1-127	2.77	20	
1,2,3-Trichlorobenzene	5.17	2.0	ug/L	5.000	ND	103	75.4-122	1.17	20	B
1,2,3-Trichloropropane	4.49	1.0	ug/L	5.000	ND	89.8	68.4-141	6.88	20	
1,2,4-Trichlorobenzene	5.06	2.0	ug/L	5.000	ND	101	72.1-121	1.19	20	
1,2,4-Trimethylbenzene	4.75	0.50	ug/L	5.000	ND	95.0	86.5-121	3.21	20	
1,2-Dibromo-3-chloropropane	4.66	0.50	ug/L	5.000	ND	93.2	49.9-130	8.23	20	
1,2-Dibromoethane (EDB)	4.74	0.50	ug/L	5.000	ND	94.8	74.4-124	3.73	20	
1,2-Dichlorobenzene	4.69	0.50	ug/L	5.000	ND	93.8	88.5-114	0.00	20	
1,2-Dichloroethane	4.85	0.50	ug/L	5.000	ND	97.0	72.6-161	1.23	20	
1,2-Dichloropropane	4.42	0.50	ug/L	5.000	ND	88.4	84.7-119	5.50	20	
1,3,5-Trimethylbenzene	4.81	0.50	ug/L	5.000	ND	96.2	87.3-122	4.46	20	
1,3-Dichlorobenzene	4.85	0.50	ug/L	5.000	ND	97.0	90.1-115	3.35	20	
1,3-Dichloropropane	4.50	0.50	ug/L	5.000	ND	90.0	76.6-126	5.83	20	
1,4-Dichlorobenzene	4.85	0.50	ug/L	5.000	ND	97.0	87.6-113	2.72	20	
2,2-Dichloropropane	5.28	0.50	ug/L	5.000	ND	106	72.3-145	1.13	20	
2-Butanone	41.4	20	ug/L	50.00	ND	82.7	32.2-170	13.1	20	
2-Chlorotoluene	4.85	0.50	ug/L	5.000	ND	97.0	87.9-117	2.29	20	
2-Hexanone	44.9	20	ug/L	50.00	ND	89.9	30.2-168	12.0	20	
4-Chlorotoluene	4.80	0.50	ug/L	5.000	ND	96.0	87.5-120	2.11	20	
4-Methyl-2-pentanone	45.1	20	ug/L	50.00	ND	90.1	39.1-168	12.3	20	
Acetone	49.5	20	ug/L	50.00	ND	99.0	31.2-199	9.92	20	
Benzene	4.65	0.50	ug/L	5.000	ND	93.0	67.8-136	1.08	20	
Bromobenzene	4.71	0.50	ug/L	5.000	ND	94.2	84.5-111	2.15	20	
Bromochloromethane	4.69	0.50	ug/L	5.000	ND	93.8	80.9-134	1.48	20	
Bromodichloromethane	4.83	0.50	ug/L	5.000	ND	96.6	76.1-144	1.85	20	

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TRC Environmental Corporation, Inc.	Project: Madison Kipp Corp. Semi-Annual Sampling
708 Heartland Trail, Ste 3000	Project Number: 266431
Madison WI, 53717	Project Manager: Andrew Stehn

Volatile Organic Compounds by Method 8260 - Purge and Trap - Quality Control

Pace Analytical - Madison

Analyte	Result	Limit of Quantitation	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch A710045 - EPA 5030B										
Matrix Spike Dup (A710045-MSD1)	**Source: A174009-30**			Prepared: 10/11/2017 Analyzed: 10/11/2017 15:06						
Bromoform	4.66	0.50	ug/L	5.000	ND	93.2	60.2-142	9.41	20	
Bromomethane	5.25	5.0	ug/L	5.000	ND	105	50.3-198	8.13	20	
Carbon disulfide	5.07	0.50	ug/L	5.000	ND	101	35.6-196	23.8	20	X
Carbon tetrachloride	4.93	0.50	ug/L	5.000	ND	98.6	69.7-152	0.405	20	
Chlorobenzene	4.82	0.50	ug/L	5.000	ND	96.4	89.3-113	2.73	20	
Chloroethane	4.85	5.0	ug/L	5.000	ND	97.0	50.2-198	7.49	20	J
Chloroform	4.96	0.50	ug/L	5.000	ND	99.2	66.2-164	2.24	20	
Chloromethane	5.09	2.0	ug/L	5.000	1.38	74.2	46.5-179	5.54	20	
cis-1,2-Dichloroethene	4.82	0.50	ug/L	5.000	ND	96.4	67.5-137	6.42	20	
cis-1,3-Dichloropropene	4.53	0.50	ug/L	5.000	ND	90.6	63.3-123	1.53	20	
Dibromochloromethane	4.73	0.50	ug/L	5.000	ND	94.6	76-133	5.95	20	
Dibromomethane	4.78	0.50	ug/L	5.000	ND	95.6	78.2-139	5.30	20	
Dichlorodifluoromethane	5.08	0.50	ug/L	5.000	ND	102	70.6-150	0.393	20	
Diisopropyl Ether	4.87	0.50	ug/L	5.000	ND	97.4	57.3-137	1.22	20	
Ethylbenzene	4.81	0.50	ug/L	5.000	ND	96.2	87.3-118	2.10	20	
Hexachlorobutadiene	5.49	2.0	ug/L	5.000	ND	110	55.4-161	4.85	20	
Isopropylbenzene	4.80	0.50	ug/L	5.000	ND	96.0	89-115	1.89	20	
m,p-Xylene	9.45	1.0	ug/L	10.00	ND	94.5	88.4-117	0.531	20	B
Methyl t-Butyl Ether	4.69	0.50	ug/L	5.000	ND	93.8	54.4-145	5.19	20	
Methylene chloride	5.29	2.0	ug/L	5.000	ND	106	59.2-154	0.941	20	
Naphthalene	4.82	5.0	ug/L	5.000	ND	96.4	43.3-129	4.07	20	J, B
n-Butyl Benzene	4.94	0.50	ug/L	5.000	ND	98.8	85.9-119	1.63	20	
n-Hexane	4.48	0.50	ug/L	5.000	ND	89.6	44.3-150	1.77	20	
n-Propyl Benzene	4.73	0.50	ug/L	5.000	ND	94.6	83.7-124	1.49	20	
o-Xylene	4.67	0.50	ug/L	5.000	ND	93.4	83.9-112	0.427	20	
p-Isopropyltoluene	4.96	0.50	ug/L	5.000	ND	99.2	89.6-114	3.07	20	
sec-Butyl Benzene	4.81	0.50	ug/L	5.000	ND	96.2	85.5-120	3.81	20	
Styrene	4.59	0.50	ug/L	5.000	ND	91.8	79.7-123	0.868	20	B
tert-Butylbenzene	4.68	0.50	ug/L	5.000	ND	93.6	78.6-120	4.37	20	
Tetrachloroethene	41.1	0.50	ug/L	5.000	37.8	65.8	78.8-123	23.8	20	M, X
Tetrahydrofuran	22.5	10	ug/L	25.00	ND	90.1	24.7-155	4.30	20	
Toluene	4.61	0.50	ug/L	5.000	ND	92.2	81-118	1.72	20	
trans-1,2-Dichloroethene	4.70	0.50	ug/L	5.000	ND	94.0	65.3-141	4.57	20	
trans-1,3-Dichloropropene	4.64	0.50	ug/L	5.000	ND	92.8	73.7-120	4.84	20	
Trichloroethene	4.82	0.50	ug/L	5.000	0.0900	94.6	77.1-123	1.47	20	
Trichlorofluoromethane	5.12	0.50	ug/L	5.000	ND	102	44.8-199	4.60	20	
Vinyl chloride	4.94	0.50	ug/L	5.000	ND	98.8	49.8-180	2.04	20	
Surrogate: Dibromofluoromethane	*4.76*		*ug/L*	*5.000*		*95.2*	*68.9-141*			
Surrogate: Toluene-d8	*4.76*		*ug/L*	*5.000*		*95.2*	*73.3-114*			
Surrogate: 4-Bromofluorobenzene	*4.62*		*ug/L*	*5.000*		*92.4*	*72.2-114*			

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TRC Environmental Corporation, Inc.	Project: Madison Kipp Corp. Semi-Annual Sampling
708 Heartland Trail, Ste 3000	Project Number: 266431
Madison WI, 53717	Project Manager: Andrew Stehn

Notes and Definitions

X	Precision for the matrix spike duplicate, laboratory control sample duplicate or lab duplicate was outside of control limits.
M	The matrix spike and/or matrix spike duplicate recovery was outside of the laboratory control limits.
J	Analyte was detected but is below the reporting limit. The concentration is estimated.
HC	Results may be biased high because of high continuing calibration verification (CCV).
D	Data reported from a dilution
B	Analyte is also detected in the associated method blank.
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis. If the word 'dry' does not appear after the units, results are reported on an as-is basis.
RPD	Relative Percent Difference

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CHAIN OF CUSTODY

No. 8375 Page: 1 of: 3

Lab Work Order #: A174009

Report To: ANDREW STEHN
Company: TRC
Address 1: 708 Heartland Trl. Suite 3000
Address 2: Madison, WI 53717
E-mail Address: astehn@trcsolutions.com

Project Number: 266431 Ph. 1 PO Number:
Project Name: MRC OM+M
Project Location (City, State): Madison, WI

Preservation Codes
Analyses Requested

Turn Around (check one): ☒ Normal ☐ Rush
If Rush, Report Due Date:
Sampled By (Print): Wes Braga

Invoice To:
Company: Same as above
Address 1:
Address 2:

Sample Description	Collection Date	Collection Time	Matrix	Total # of Containers	B: VOCs						Comments	Lab ID	Lab Receipt Time
MP-14 Port 1 (170 - 178)	10/2/17	1335	W	3	X							01	
MP-14 Port 2 (135 - 140)		1434	W	3	X						Vial C air bubble <6mm	02	
MP-14 Port 3 (100 - 105)		1455	W	3	X							03	
MP-16 Port 1 (175 - 179)		1539	W	3	X							04	
MP-16 Port 2 (140 - 144)		1600	W	3	X							05	
MP-16 Port 2 (106 - 116)		1620	W	3	X						Label Port 3 Vial C air bubble <6mm	06	
MP-15 Port 1 (177 - 187)	10/3/17	0755	W	3	X							07	
MP-15 Port 2 (142 - 146)		0835	W	3	X						Vial C air bubble <6mm	08	
MP-15 Port 3 (120 - 125)		0855	W	3	X							09	
MP-15 Port 4 (100 - 105)		0920	W	3	X							10	

Preservation Codes
A=None B=HCL C=H_2SO_4
D=HNO_3 E=EnCore F=Methanol
G=NaOH O=Other (Indicate)

Matrix Codes
A=Air S=Soil W=Water O=Other

Other Comments:

		Date	Time		Date	Time
Relinquished By:		10/5/17	1000	Received By: Kari-Ann Kjelin	10/5/17	1000
Relinquished By:		Date:	Time:	Received By:	Date:	Time:

Custody Seal: ☒ NA ☐ Intact ☐ Not Intact
Shipped Via: Pick up
Receipt Temp: 2.3°C
Thermometer #/ Exp. Date: 160142274 1/21/18
Temp Blank: ☐ Y ☒ N

Rev. 12/15

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CHAIN OF CUSTODY

No. 8376 Page: 2 of: 3

Lab Work Order #: A174009

Report To: Andrew Stehn
Company: TRC
Address 1: 708 Heartland Trl. Suite 3000
Address 2:
E-mail Address: astehn@trcsolutions.com

Project Number: 266431 Ph.1 PO Number:
Project Name: MUC OMTM
Project Location (City, State): Madison, WI

Preservation Codes
Analyses Requested
B

Turn Around (check one): ☒ Normal ☐ Rush
If Rush, Report Due Date:
Sampled By (Print): Wes Bragga

Invoice To:
Company: Same as above
Address 1:
Address 2:

Sample Description	Collection Date	Collection Time	Matrix	Total # of Containers	VOCs						Comments	Lab ID	Lab Receipt Time
MP-15 Port 5 (88-92)	10/3/17	0936	W	3	X							11	
MP-13 Port 1 (163-167)		1045	W	3	X							12	
MP-13 Port 2 (135-139)		1103	W	3	X							13	
MP-13 Port 3 (121-125)		1115	W	3	X							14	
MP-13 Port 4 (102-106)		1135	W	3	X							15	
MP-13 Port 5 (81-85)		1152	W	3	X							16	
MP-13 Port 6 (67-71)		1208	W	3	X							17	
MP-13 Port 7 (44-48)		1225	W	3	X							18	
MW-25D2		1446	W	3	X							19	
MW-25D		1634	W	3	X						Vial C est bubble <6mm	20	

Preservation Codes
A=None B=HCL C=H_2SO_4
D=HNO_3 E=EnCore F=Methanol
G=NaOH O=Other (Indicate)

Matrix Codes
A=Air S=Soil W=Water O=Other

Other Comments:

Relinquished By:	Date:	Time:	Received By:	Date:	Time:
Wesley J Bragga	10/5/17	1000	Kari-Ann Killi	10/5/17	1000
Relinquished By:	Date:	Time:	Received By:	Date:	Time:

Custody Seal: ☒ NA ☐ Intact ☐ Not Intact
Shipped Via: Pickup
Receipt Temp: 2.3°C
Thermometer #/Exp. Date: 160142274 1/21/18
Temp Blank: ☐ Y ☒ N

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CHAIN OF CUSTODY

No. 8377 Page: 3 of: 3

Lab Work Order #: A174009

Report To: ANDREW STEHN
Company: TRC
Address 1: 708 Heartland Trl. STE 3000
Address 2: Madison, WI
E-mail Address: astehn@trcsolutions.com

Project Number: 266431 Ph 1 PO Number:
Project Name: MUC OM+M
Project Location (City, State): Madison, WI

Preservation Codes
Analyses Requested

Turn Around (check one): ☒ Normal ☐ Rush
If Rush, Report Due Date:
Sampled By (Print): Wes Bragen

Invoice To:
Company: Same as above
Address 1:
Address 2:

Sample Description	Collection Date	Collection Time	Matrix	Total # of Containers	VOCs						Comments	Lab ID	Lab Receipt Time
MW-27D2	10/4/17	0902	W	3	X							21	
MW-27D		1019	W	3	X							22	
MW-5D3		1213	W	3	X							23	
MW-55		1219	W	3	X							24	
MW-5D		1318	W	3	X							25	
MW-5D2		1438	W	3	X							26	
MW-9D2		1628	W	3	X							27	
MW-1		1635	W	3	X							28	
MW-9D		1716	W	3	X						Vial Brc air bubble < 6mm	29	
MW-2D		1750	W	3	X							30	

Preservation Codes
A=None B=HCL C=H_2SO_4
D=HNO_3 E=EnCore F=Methanol
G=NaOH O=Other (Indicate)

Matrix Codes
A=Air S=Soil W=Water O=Other

Other Comments:

Relinquished By:	Date:	Time:	Received By:	Date:	Time:
Wesley Bragen	10/5/17	1000			
Relinquished By:	Date:	Time:	Received By:	Date:	Time:

Custody Seal: ☒ NA ☐ Intact ☐ Not Intact
Shipped Via: Pick Up
Receipt Temp: 2.3°C
Thermometer #/ Exp. Date: 160142274 1/21/18
Temp Blank: ☐ Y ☒ N

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October 19, 2017

Andrew Stehn
TRC Environmental Corporation, Inc.
708 Heartland Trail, Ste 3000
Madison, WI 53717

RE: Madison Kipp Corp. Semi-Annual Sampling

Enclosed are the analytical results for the samples received by the laboratory on 10/09/2017.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. These results are in compliance with the 2009 NELAC Standards and the appropriate agencies listed below, unless otherwise noted in the case narrative. This analytical report should be reproduced in its entirety.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Jessica Esser
Project Manager

Certification List			Expires
ADEQ	Arkansas Department of Environmental Quality	17-065-0	09/26/2018
DODELAP	DOD ELAP Accreditation (A2LA)	3269.01	03/31/2018
ILEPA	Illinois Secondary NELAP Accreditation	003174	04/30/2018
KDHE	Kansas Secondary NELAP Accreditation	E-10384	04/30/2018
LELAP	Louisiana Primary NELAP Accreditation	04165	06/30/2018
NCDEQ	North Carolina Dept. of Environmental Quality Accreditation	688	12/31/2017
NJDEP	New Jersey Secondary NELAP Accreditation	WI004	06/30/2018
ODEQ	Oklahoma Department of Environmental Quality Accreditation	2017-154	08/31/2018
TCEQ	Texas Secondary NELAP Accreditation	T104704504-16-7	11/30/2017
WDNR	Wisconsin Certification under NR 149	113289110	08/31/2018

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TRC Environmental Corporation, Inc.	Project: Madison Kipp Corp. Semi-Annual Sampling
708 Heartland Trail, Ste 3000	Project Number: 266431
Madison WI, 53717	Project Manager: Andrew Stehn

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-4D2	A174103-01	Water	10/05/2017	10/09/2017
MW-4S	A174103-02	Water	10/05/2017	10/09/2017
MW-3D3	A174103-04	Water	10/05/2017	10/09/2017
MW-3D2	A174103-05	Water	10/05/2017	10/09/2017
MW-3S	A174103-06	Water	10/05/2017	10/09/2017
MW-3D	A174103-07	Water	10/05/2017	10/09/2017
MW-23D	A174103-08	Water	10/06/2017	10/09/2017
MW-23S	A174103-09	Water	10/06/2017	10/09/2017
MW-22D	A174103-10	Water	10/06/2017	10/09/2017
MW-22S	A174103-11	Water	10/06/2017	10/09/2017
DUP-01	A174103-12	Water	10/06/2017	10/09/2017
DUP-02	A174103-13	Water	10/06/2017	10/09/2017
DUP-03	A174103-14	Water	10/06/2017	10/09/2017
DUP-04	A174103-15	Water	10/06/2017	10/09/2017

CASE NARRATIVE

Sample Receipt Information:
15 samples were received on 10/09/2017. Samples were received at 3.8 degrees Celsius. Samples were received in acceptable condition.

TSS and TDS analysis was subcontracted to Pace Analytical in Green Bay, WI. Please see their appended report for quality control results.

Please see the chain of custody (COC) document at the end of this report for additional information.

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708 Heartland Trail, Ste 3000	Project Number: 266431
Madison WI, 53717	Project Manager: Andrew Stehn

MW-4D2

A174103-01 (Water)

Date Sampled
10/05/2017 09:47

Pace Analytical - Madison

Volatile Organic Compounds by Method 8260 - Purge and Trap — **Preparation Batch:A710031**

Analyte	Result	Limit of Detection	Limit of Quantitation	Units	Dilution	Prepared	Analyzed	Method	Qualifiers
1,1,1,2-Tetrachloroethane	ND	0.11	0.50	ug/L	1	10/11/2017	10/11/2017 10:09	EPA 8260B	
1,1,1-Trichloroethane	ND	0.10	0.50	ug/L	1	10/11/2017	10/11/2017 10:09	EPA 8260B	
1,1,2,2-Tetrachloroethane	ND	0.099	0.50	ug/L	1	10/11/2017	10/11/2017 10:09	EPA 8260B	
1,1,2-Trichloroethane	ND	0.10	0.50	ug/L	1	10/11/2017	10/11/2017 10:09	EPA 8260B	
1,1,2-Trichlorotrifluoroethane	ND	0.13	0.50	ug/L	1	10/11/2017	10/11/2017 10:09	EPA 8260B	
1,1-Dichloroethane	ND	0.12	0.50	ug/L	1	10/11/2017	10/11/2017 10:09	EPA 8260B	
1,1-Dichloroethene	ND	0.14	0.50	ug/L	1	10/11/2017	10/11/2017 10:09	EPA 8260B	
1,1-Dichloropropene	ND	0.11	0.50	ug/L	1	10/11/2017	10/11/2017 10:09	EPA 8260B	
1,2,3-Trichlorobenzene	ND	0.045	2.0	ug/L	1	10/11/2017	10/11/2017 10:09	EPA 8260B	
1,2,3-Trichloropropane	ND	0.15	1.0	ug/L	1	10/11/2017	10/11/2017 10:09	EPA 8260B	
1,2,4-Trichlorobenzene	ND	0.077	2.0	ug/L	1	10/11/2017	10/11/2017 10:09	EPA 8260B	
1,2,4-Trimethylbenzene	ND	0.060	0.50	ug/L	1	10/11/2017	10/11/2017 10:09	EPA 8260B	
1,2-Dibromo-3-chloropropane	ND	0.25	0.50	ug/L	1	10/11/2017	10/11/2017 10:09	EPA 8260B	
1,2-Dibromoethane (EDB)	ND	0.13	0.50	ug/L	1	10/11/2017	10/11/2017 10:09	EPA 8260B	
1,2-Dichlorobenzene	ND	0.076	0.50	ug/L	1	10/11/2017	10/11/2017 10:09	EPA 8260B	
1,2-Dichloroethane	ND	0.078	0.50	ug/L	1	10/11/2017	10/11/2017 10:09	EPA 8260B	
1,2-Dichloropropane	ND	0.10	0.50	ug/L	1	10/11/2017	10/11/2017 10:09	EPA 8260B	
1,3,5-Trimethylbenzene	ND	0.075	0.50	ug/L	1	10/11/2017	10/11/2017 10:09	EPA 8260B	
1,3-Dichlorobenzene	ND	0.096	0.50	ug/L	1	10/11/2017	10/11/2017 10:09	EPA 8260B	
1,3-Dichloropropane	ND	0.11	0.50	ug/L	1	10/11/2017	10/11/2017 10:09	EPA 8260B	
1,4-Dichlorobenzene	ND	0.070	0.50	ug/L	1	10/11/2017	10/11/2017 10:09	EPA 8260B	
2,2-Dichloropropane	ND	0.14	0.50	ug/L	1	10/11/2017	10/11/2017 10:09	EPA 8260B	
2-Butanone	ND	3.0	20	ug/L	1	10/11/2017	10/11/2017 10:09	EPA 8260B	
2-Chlorotoluene	ND	0.075	0.50	ug/L	1	10/11/2017	10/11/2017 10:09	EPA 8260B	
2-Hexanone	ND	0.95	20	ug/L	1	10/11/2017	10/11/2017 10:09	EPA 8260B	
4-Chlorotoluene	ND	0.073	0.50	ug/L	1	10/11/2017	10/11/2017 10:09	EPA 8260B	
4-Methyl-2-pentanone	ND	0.77	20	ug/L	1	10/11/2017	10/11/2017 10:09	EPA 8260B	
Acetone	ND	3.4	20	ug/L	1	10/11/2017	10/11/2017 10:09	EPA 8260B	
Benzene	ND	0.089	0.50	ug/L	1	10/11/2017	10/11/2017 10:09	EPA 8260B	
Bromobenzene	ND	0.084	0.50	ug/L	1	10/11/2017	10/11/2017 10:09	EPA 8260B	
Bromochloromethane	ND	0.31	0.50	ug/L	1	10/11/2017	10/11/2017 10:09	EPA 8260B	
Bromodichloromethane	ND	0.077	0.50	ug/L	1	10/11/2017	10/11/2017 10:09	EPA 8260B	
Bromoform	ND	0.088	0.50	ug/L	1	10/11/2017	10/11/2017 10:09	EPA 8260B	
Bromomethane	ND	0.59	5.0	ug/L	1	10/11/2017	10/11/2017 10:09	EPA 8260B	
Carbon disulfide	ND	0.053	0.50	ug/L	1	10/11/2017	10/11/2017 10:09	EPA 8260B	
Carbon tetrachloride	ND	0.038	0.50	ug/L	1	10/11/2017	10/11/2017 10:09	EPA 8260B	
Chlorobenzene	ND	0.073	0.50	ug/L	1	10/11/2017	10/11/2017 10:09	EPA 8260B	
Chloroethane	ND	0.25	5.0	ug/L	1	10/11/2017	10/11/2017 10:09	EPA 8260B	
Chloroform	ND	0.062	0.50	ug/L	1	10/11/2017	10/11/2017 10:09	EPA 8260B	

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708 Heartland Trail, Ste 3000	Project Number: 266431
Madison WI, 53717	Project Manager: Andrew Stehn

MW-4D2

A174103-01 (Water)

Date Sampled
10/05/2017 09:47

Pace Analytical - Madison

Volatile Organic Compounds by Method 8260 - Purge and Trap — **Preparation Batch:A710031**

Analyte	Result	Limit of Detection	Limit of Quantitation	Units	Dilution	Prepared	Analyzed	Method	Qualifiers
Chloromethane	**0.93**	0.16	2.0	ug/L	1	10/11/2017	10/11/2017 10:09	EPA 8260B	J
cis-1,2-Dichloroethene	ND	0.11	0.50	ug/L	1	10/11/2017	10/11/2017 10:09	EPA 8260B	
cis-1,3-Dichloropropene	ND	0.061	0.50	ug/L	1	10/11/2017	10/11/2017 10:09	EPA 8260B	
Dibromochloromethane	ND	0.091	0.50	ug/L	1	10/11/2017	10/11/2017 10:09	EPA 8260B	
Dibromomethane	ND	0.14	0.50	ug/L	1	10/11/2017	10/11/2017 10:09	EPA 8260B	
Dichlorodifluoromethane	ND	0.11	0.50	ug/L	1	10/11/2017	10/11/2017 10:09	EPA 8260B	
Diisopropyl Ether	ND	0.15	0.50	ug/L	1	10/11/2017	10/11/2017 10:09	EPA 8260B	
Ethylbenzene	ND	0.054	0.50	ug/L	1	10/11/2017	10/11/2017 10:09	EPA 8260B	
Hexachlorobutadiene	ND	0.13	2.0	ug/L	1	10/11/2017	10/11/2017 10:09	EPA 8260B	
Isopropylbenzene	ND	0.081	0.50	ug/L	1	10/11/2017	10/11/2017 10:09	EPA 8260B	
m,p-Xylene	ND	0.057	1.0	ug/L	1	10/11/2017	10/11/2017 10:09	EPA 8260B	
Methyl t-Butyl Ether	ND	0.14	0.50	ug/L	1	10/11/2017	10/11/2017 10:09	EPA 8260B	
Methylene chloride	ND	0.14	2.0	ug/L	1	10/11/2017	10/11/2017 10:09	EPA 8260B	
Naphthalene	**0.13**	0.088	5.0	ug/L	1	10/11/2017	10/11/2017 10:09	EPA 8260B	B, J
n-Butyl Benzene	ND	0.14	0.50	ug/L	1	10/11/2017	10/11/2017 10:09	EPA 8260B	
n-Hexane	ND	0.21	0.50	ug/L	1	10/11/2017	10/11/2017 10:09	EPA 8260B	
n-Propyl Benzene	ND	0.10	0.50	ug/L	1	10/11/2017	10/11/2017 10:09	EPA 8260B	
o-Xylene	ND	0.058	0.50	ug/L	1	10/11/2017	10/11/2017 10:09	EPA 8260B	
p-Isopropyltoluene	ND	0.085	0.50	ug/L	1	10/11/2017	10/11/2017 10:09	EPA 8260B	
sec-Butyl Benzene	ND	0.13	0.50	ug/L	1	10/11/2017	10/11/2017 10:09	EPA 8260B	
Styrene	ND	0.065	0.50	ug/L	1	10/11/2017	10/11/2017 10:09	EPA 8260B	
tert-Butylbenzene	ND	0.12	0.50	ug/L	1	10/11/2017	10/11/2017 10:09	EPA 8260B	
Tetrachloroethene	**0.61**	0.081	0.50	ug/L	1	10/11/2017	10/11/2017 10:09	EPA 8260B	B
Tetrahydrofuran	ND	1.2	10	ug/L	1	10/11/2017	10/11/2017 10:09	EPA 8260B	
Toluene	ND	0.053	0.50	ug/L	1	10/11/2017	10/11/2017 10:09	EPA 8260B	
trans-1,2-Dichloroethene	ND	0.11	0.50	ug/L	1	10/11/2017	10/11/2017 10:09	EPA 8260B	
trans-1,3-Dichloropropene	ND	0.096	0.50	ug/L	1	10/11/2017	10/11/2017 10:09	EPA 8260B	
Trichloroethene	ND	0.062	0.50	ug/L	1	10/11/2017	10/11/2017 10:09	EPA 8260B	
Trichlorofluoromethane	ND	0.13	0.50	ug/L	1	10/11/2017	10/11/2017 10:09	EPA 8260B	
Vinyl chloride	ND	0.16	0.50	ug/L	1	10/11/2017	10/11/2017 10:09	EPA 8260B	
Xylenes, total	ND	0.12	1.5	ug/L	1	10/11/2017	10/11/2017 10:09	EPA 8260B	
Surrogate: Dibromofluoromethane			*98.8 %*	*68.9-141*		*10/11/2017*	*10/11/2017 10:09*	*EPA 8260B*	
Surrogate: Toluene-d8			*98.7 %*	*73.3-114*		*10/11/2017*	*10/11/2017 10:09*	*EPA 8260B*	
Surrogate: 4-Bromofluorobenzene			*96.5 %*	*72.2-114*		*10/11/2017*	*10/11/2017 10:09*	*EPA 8260B*	

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708 Heartland Trail, Ste 3000	Project Number: 266431
Madison WI, 53717	Project Manager: Andrew Stehn

MW-4S

A174103-02 (Water)

Date Sampled
10/05/2017 09:57

Pace Analytical - Madison

Polychlorinated Biphenyls by EPA Method 8082 — **Preparation Batch:A710057**

Analyte	Result	Limit of Detection	Limit of Quantitation	Units	Dilution	Prepared	Analyzed	Method	Qualifiers
PCB-1016	ND	0.035	0.13	ug/L	1	10/16/2017	10/17/2017 22:18	EPA 8082A	
PCB-1221	ND	0.020	0.25	ug/L	1	10/16/2017	10/17/2017 22:18	EPA 8082A	
PCB-1232	ND	0.037	0.13	ug/L	1	10/16/2017	10/17/2017 22:18	EPA 8082A	
PCB-1242	ND	0.038	0.13	ug/L	1	10/16/2017	10/17/2017 22:18	EPA 8082A	
PCB-1248	ND	0.020	0.13	ug/L	1	10/16/2017	10/17/2017 22:18	EPA 8082A	
PCB-1254	ND	0.0090	0.13	ug/L	1	10/16/2017	10/17/2017 22:18	EPA 8082A	
PCB-1260	ND	0.025	0.13	ug/L	1	10/16/2017	10/17/2017 22:18	EPA 8082A	
Total PCBs	ND	0.038	0.25	ug/L	1	10/16/2017	10/17/2017 22:18	EPA 8082A	
Surrogate: Decachlorobiphenyl			*122 %*	*72.5-127*		*10/16/2017*	*10/17/2017 22:18*	*EPA 8082A*	
Surrogate: Tetrachloro-meta-xylene			*104 %*	*59.9-118*		*10/16/2017*	*10/17/2017 22:18*	*EPA 8082A*	

Pace Analytical-Green Bay, WI

SM 2540C — **Preparation Batch:WET 29793**

Total Dissolved Solids	**3750**	8.7	20.0	mg/L	1	10/12/2017	10/12/2017 13:37	SM 2540C	

SM 2540D — **Preparation Batch:WET 29768**

Total Suspended Solids	ND	0.95	2.0	mg/L	1	10/11/2017	10/11/2017 12:36	SM 2540D	

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708 Heartland Trail, Ste 3000	Project Number: 266431
Madison WI, 53717	Project Manager: Andrew Stehn

MW-3D3

A174103-04 (Water)

Date Sampled
10/05/2017 14:44

Pace Analytical - Madison

Volatile Organic Compounds by Method 8260 - Purge and Trap — **Preparation Batch:A710031**

Analyte	Result	Limit of Detection	Limit of Quantitation	Units	Dilution	Prepared	Analyzed	Method	Qualifiers
1,1,1,2-Tetrachloroethane	ND	0.11	0.50	ug/L	1	10/11/2017	10/11/2017 10:37	EPA 8260B	
1,1,1-Trichloroethane	ND	0.10	0.50	ug/L	1	10/11/2017	10/11/2017 10:37	EPA 8260B	
1,1,2,2-Tetrachloroethane	ND	0.099	0.50	ug/L	1	10/11/2017	10/11/2017 10:37	EPA 8260B	
1,1,2-Trichloroethane	ND	0.10	0.50	ug/L	1	10/11/2017	10/11/2017 10:37	EPA 8260B	
1,1,2-Trichlorotrifluoroethane	ND	0.13	0.50	ug/L	1	10/11/2017	10/11/2017 10:37	EPA 8260B	
1,1-Dichloroethane	ND	0.12	0.50	ug/L	1	10/11/2017	10/11/2017 10:37	EPA 8260B	
1,1-Dichloroethene	ND	0.14	0.50	ug/L	1	10/11/2017	10/11/2017 10:37	EPA 8260B	
1,1-Dichloropropene	ND	0.11	0.50	ug/L	1	10/11/2017	10/11/2017 10:37	EPA 8260B	
1,2,3-Trichlorobenzene	ND	0.045	2.0	ug/L	1	10/11/2017	10/11/2017 10:37	EPA 8260B	
1,2,3-Trichloropropane	ND	0.15	1.0	ug/L	1	10/11/2017	10/11/2017 10:37	EPA 8260B	
1,2,4-Trichlorobenzene	ND	0.077	2.0	ug/L	1	10/11/2017	10/11/2017 10:37	EPA 8260B	
1,2,4-Trimethylbenzene	ND	0.060	0.50	ug/L	1	10/11/2017	10/11/2017 10:37	EPA 8260B	
1,2-Dibromo-3-chloropropane	ND	0.25	0.50	ug/L	1	10/11/2017	10/11/2017 10:37	EPA 8260B	
1,2-Dibromoethane (EDB)	ND	0.13	0.50	ug/L	1	10/11/2017	10/11/2017 10:37	EPA 8260B	
1,2-Dichlorobenzene	ND	0.076	0.50	ug/L	1	10/11/2017	10/11/2017 10:37	EPA 8260B	
1,2-Dichloroethane	ND	0.078	0.50	ug/L	1	10/11/2017	10/11/2017 10:37	EPA 8260B	
1,2-Dichloropropane	ND	0.10	0.50	ug/L	1	10/11/2017	10/11/2017 10:37	EPA 8260B	
1,3,5-Trimethylbenzene	ND	0.075	0.50	ug/L	1	10/11/2017	10/11/2017 10:37	EPA 8260B	
1,3-Dichlorobenzene	ND	0.096	0.50	ug/L	1	10/11/2017	10/11/2017 10:37	EPA 8260B	
1,3-Dichloropropane	ND	0.11	0.50	ug/L	1	10/11/2017	10/11/2017 10:37	EPA 8260B	
1,4-Dichlorobenzene	ND	0.070	0.50	ug/L	1	10/11/2017	10/11/2017 10:37	EPA 8260B	
2,2-Dichloropropane	ND	0.14	0.50	ug/L	1	10/11/2017	10/11/2017 10:37	EPA 8260B	
2-Butanone	ND	3.0	20	ug/L	1	10/11/2017	10/11/2017 10:37	EPA 8260B	
2-Chlorotoluene	ND	0.075	0.50	ug/L	1	10/11/2017	10/11/2017 10:37	EPA 8260B	
2-Hexanone	ND	0.95	20	ug/L	1	10/11/2017	10/11/2017 10:37	EPA 8260B	
4-Chlorotoluene	ND	0.073	0.50	ug/L	1	10/11/2017	10/11/2017 10:37	EPA 8260B	
4-Methyl-2-pentanone	ND	0.77	20	ug/L	1	10/11/2017	10/11/2017 10:37	EPA 8260B	
Acetone	ND	3.4	20	ug/L	1	10/11/2017	10/11/2017 10:37	EPA 8260B	
Benzene	ND	0.089	0.50	ug/L	1	10/11/2017	10/11/2017 10:37	EPA 8260B	
Bromobenzene	ND	0.084	0.50	ug/L	1	10/11/2017	10/11/2017 10:37	EPA 8260B	
Bromochloromethane	ND	0.31	0.50	ug/L	1	10/11/2017	10/11/2017 10:37	EPA 8260B	
Bromodichloromethane	ND	0.077	0.50	ug/L	1	10/11/2017	10/11/2017 10:37	EPA 8260B	
Bromoform	ND	0.088	0.50	ug/L	1	10/11/2017	10/11/2017 10:37	EPA 8260B	
Bromomethane	ND	0.59	5.0	ug/L	1	10/11/2017	10/11/2017 10:37	EPA 8260B	
Carbon disulfide	ND	0.053	0.50	ug/L	1	10/11/2017	10/11/2017 10:37	EPA 8260B	
Carbon tetrachloride	ND	0.038	0.50	ug/L	1	10/11/2017	10/11/2017 10:37	EPA 8260B	
Chlorobenzene	ND	0.073	0.50	ug/L	1	10/11/2017	10/11/2017 10:37	EPA 8260B	
Chloroethane	ND	0.25	5.0	ug/L	1	10/11/2017	10/11/2017 10:37	EPA 8260B	
Chloroform	ND	0.062	0.50	ug/L	1	10/11/2017	10/11/2017 10:37	EPA 8260B	

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708 Heartland Trail, Ste 3000	Project Number: 266431
Madison WI, 53717	Project Manager: Andrew Stehn

MW-3D3

A174103-04 (Water)

Date Sampled
10/05/2017 14:44

Pace Analytical - Madison

Volatile Organic Compounds by Method 8260 - Purge and Trap — **Preparation Batch:A710031**

Analyte	Result	Limit of Detection	Limit of Quantitation	Units	Dilution	Prepared	Analyzed	Method	Qualifiers
Chloromethane	**0.58**	0.16	2.0	ug/L	1	10/11/2017	10/11/2017 10:37	EPA 8260B	J
cis-1,2-Dichloroethene	ND	0.11	0.50	ug/L	1	10/11/2017	10/11/2017 10:37	EPA 8260B	
cis-1,3-Dichloropropene	ND	0.061	0.50	ug/L	1	10/11/2017	10/11/2017 10:37	EPA 8260B	
Dibromochloromethane	ND	0.091	0.50	ug/L	1	10/11/2017	10/11/2017 10:37	EPA 8260B	
Dibromomethane	ND	0.14	0.50	ug/L	1	10/11/2017	10/11/2017 10:37	EPA 8260B	
Dichlorodifluoromethane	ND	0.11	0.50	ug/L	1	10/11/2017	10/11/2017 10:37	EPA 8260B	
Diisopropyl Ether	ND	0.15	0.50	ug/L	1	10/11/2017	10/11/2017 10:37	EPA 8260B	
Ethylbenzene	ND	0.054	0.50	ug/L	1	10/11/2017	10/11/2017 10:37	EPA 8260B	
Hexachlorobutadiene	ND	0.13	2.0	ug/L	1	10/11/2017	10/11/2017 10:37	EPA 8260B	
Isopropylbenzene	ND	0.081	0.50	ug/L	1	10/11/2017	10/11/2017 10:37	EPA 8260B	
m,p-Xylene	ND	0.057	1.0	ug/L	1	10/11/2017	10/11/2017 10:37	EPA 8260B	
Methyl t-Butyl Ether	ND	0.14	0.50	ug/L	1	10/11/2017	10/11/2017 10:37	EPA 8260B	
Methylene chloride	ND	0.14	2.0	ug/L	1	10/11/2017	10/11/2017 10:37	EPA 8260B	
Naphthalene	**0.10**	0.088	5.0	ug/L	1	10/11/2017	10/11/2017 10:37	EPA 8260B	B, J
n-Butyl Benzene	ND	0.14	0.50	ug/L	1	10/11/2017	10/11/2017 10:37	EPA 8260B	
n-Hexane	ND	0.21	0.50	ug/L	1	10/11/2017	10/11/2017 10:37	EPA 8260B	
n-Propyl Benzene	ND	0.10	0.50	ug/L	1	10/11/2017	10/11/2017 10:37	EPA 8260B	
o-Xylene	ND	0.058	0.50	ug/L	1	10/11/2017	10/11/2017 10:37	EPA 8260B	
p-Isopropyltoluene	ND	0.085	0.50	ug/L	1	10/11/2017	10/11/2017 10:37	EPA 8260B	
sec-Butyl Benzene	ND	0.13	0.50	ug/L	1	10/11/2017	10/11/2017 10:37	EPA 8260B	
Styrene	ND	0.065	0.50	ug/L	1	10/11/2017	10/11/2017 10:37	EPA 8260B	
tert-Butylbenzene	ND	0.12	0.50	ug/L	1	10/11/2017	10/11/2017 10:37	EPA 8260B	
Tetrachloroethene	**0.15**	0.081	0.50	ug/L	1	10/11/2017	10/11/2017 10:37	EPA 8260B	B, J
Tetrahydrofuran	ND	1.2	10	ug/L	1	10/11/2017	10/11/2017 10:37	EPA 8260B	
Toluene	**0.070**	0.053	0.50	ug/L	1	10/11/2017	10/11/2017 10:37	EPA 8260B	J
trans-1,2-Dichloroethene	ND	0.11	0.50	ug/L	1	10/11/2017	10/11/2017 10:37	EPA 8260B	
trans-1,3-Dichloropropene	ND	0.096	0.50	ug/L	1	10/11/2017	10/11/2017 10:37	EPA 8260B	
Trichloroethene	ND	0.062	0.50	ug/L	1	10/11/2017	10/11/2017 10:37	EPA 8260B	
Trichlorofluoromethane	ND	0.13	0.50	ug/L	1	10/11/2017	10/11/2017 10:37	EPA 8260B	
Vinyl chloride	ND	0.16	0.50	ug/L	1	10/11/2017	10/11/2017 10:37	EPA 8260B	
Xylenes, total	ND	0.12	1.5	ug/L	1	10/11/2017	10/11/2017 10:37	EPA 8260B	
Surrogate: Dibromofluoromethane			*99.9 %*	*68.9-141*		*10/11/2017*	*10/11/2017 10:37*	*EPA 8260B*	
Surrogate: Toluene-d8			*98.8 %*	*73.3-114*		*10/11/2017*	*10/11/2017 10:37*	*EPA 8260B*	
Surrogate: 4-Bromofluorobenzene			*97.4 %*	*72.2-114*		*10/11/2017*	*10/11/2017 10:37*	*EPA 8260B*	

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708 Heartland Trail, Ste 3000	Project Number: 266431
Madison WI, 53717	Project Manager: Andrew Stehn

MW-3D2

A174103-05 (Water)

Date Sampled
10/05/2017 14:49

Pace Analytical - Madison

Volatile Organic Compounds by Method 8260 - Purge and Trap — **Preparation Batch:A710031**

Analyte	Result	Limit of Detection	Limit of Quantitation	Units	Dilution	Prepared	Analyzed	Method	Qualifiers
1,1,1,2-Tetrachloroethane	ND	0.11	0.50	ug/L	1	10/11/2017	10/11/2017 11:05	EPA 8260B	
1,1,1-Trichloroethane	ND	0.10	0.50	ug/L	1	10/11/2017	10/11/2017 11:05	EPA 8260B	
1,1,2,2-Tetrachloroethane	ND	0.099	0.50	ug/L	1	10/11/2017	10/11/2017 11:05	EPA 8260B	
1,1,2-Trichloroethane	ND	0.10	0.50	ug/L	1	10/11/2017	10/11/2017 11:05	EPA 8260B	
1,1,2-Trichlorotrifluoroethane	ND	0.13	0.50	ug/L	1	10/11/2017	10/11/2017 11:05	EPA 8260B	
1,1-Dichloroethane	ND	0.12	0.50	ug/L	1	10/11/2017	10/11/2017 11:05	EPA 8260B	
1,1-Dichloroethene	ND	0.14	0.50	ug/L	1	10/11/2017	10/11/2017 11:05	EPA 8260B	
1,1-Dichloropropene	ND	0.11	0.50	ug/L	1	10/11/2017	10/11/2017 11:05	EPA 8260B	
1,2,3-Trichlorobenzene	ND	0.045	2.0	ug/L	1	10/11/2017	10/11/2017 11:05	EPA 8260B	
1,2,3-Trichloropropane	ND	0.15	1.0	ug/L	1	10/11/2017	10/11/2017 11:05	EPA 8260B	
1,2,4-Trichlorobenzene	ND	0.077	2.0	ug/L	1	10/11/2017	10/11/2017 11:05	EPA 8260B	
1,2,4-Trimethylbenzene	ND	0.060	0.50	ug/L	1	10/11/2017	10/11/2017 11:05	EPA 8260B	
1,2-Dibromo-3-chloropropane	ND	0.25	0.50	ug/L	1	10/11/2017	10/11/2017 11:05	EPA 8260B	
1,2-Dibromoethane (EDB)	ND	0.13	0.50	ug/L	1	10/11/2017	10/11/2017 11:05	EPA 8260B	
1,2-Dichlorobenzene	ND	0.076	0.50	ug/L	1	10/11/2017	10/11/2017 11:05	EPA 8260B	
1,2-Dichloroethane	ND	0.078	0.50	ug/L	1	10/11/2017	10/11/2017 11:05	EPA 8260B	
1,2-Dichloropropane	ND	0.10	0.50	ug/L	1	10/11/2017	10/11/2017 11:05	EPA 8260B	
1,3,5-Trimethylbenzene	ND	0.075	0.50	ug/L	1	10/11/2017	10/11/2017 11:05	EPA 8260B	
1,3-Dichlorobenzene	ND	0.096	0.50	ug/L	1	10/11/2017	10/11/2017 11:05	EPA 8260B	
1,3-Dichloropropane	ND	0.11	0.50	ug/L	1	10/11/2017	10/11/2017 11:05	EPA 8260B	
1,4-Dichlorobenzene	ND	0.070	0.50	ug/L	1	10/11/2017	10/11/2017 11:05	EPA 8260B	
2,2-Dichloropropane	ND	0.14	0.50	ug/L	1	10/11/2017	10/11/2017 11:05	EPA 8260B	
2-Butanone	ND	3.0	20	ug/L	1	10/11/2017	10/11/2017 11:05	EPA 8260B	
2-Chlorotoluene	ND	0.075	0.50	ug/L	1	10/11/2017	10/11/2017 11:05	EPA 8260B	
2-Hexanone	ND	0.95	20	ug/L	1	10/11/2017	10/11/2017 11:05	EPA 8260B	
4-Chlorotoluene	ND	0.073	0.50	ug/L	1	10/11/2017	10/11/2017 11:05	EPA 8260B	
4-Methyl-2-pentanone	ND	0.77	20	ug/L	1	10/11/2017	10/11/2017 11:05	EPA 8260B	
Acetone	**25**	3.4	20	ug/L	1	10/11/2017	10/11/2017 11:05	EPA 8260B	
Benzene	ND	0.089	0.50	ug/L	1	10/11/2017	10/11/2017 11:05	EPA 8260B	
Bromobenzene	ND	0.084	0.50	ug/L	1	10/11/2017	10/11/2017 11:05	EPA 8260B	
Bromochloromethane	ND	0.31	0.50	ug/L	1	10/11/2017	10/11/2017 11:05	EPA 8260B	
Bromodichloromethane	ND	0.077	0.50	ug/L	1	10/11/2017	10/11/2017 11:05	EPA 8260B	
Bromoform	ND	0.088	0.50	ug/L	1	10/11/2017	10/11/2017 11:05	EPA 8260B	
Bromomethane	ND	0.59	5.0	ug/L	1	10/11/2017	10/11/2017 11:05	EPA 8260B	
Carbon disulfide	ND	0.053	0.50	ug/L	1	10/11/2017	10/11/2017 11:05	EPA 8260B	
Carbon tetrachloride	ND	0.038	0.50	ug/L	1	10/11/2017	10/11/2017 11:05	EPA 8260B	
Chlorobenzene	ND	0.073	0.50	ug/L	1	10/11/2017	10/11/2017 11:05	EPA 8260B	
Chloroethane	ND	0.25	5.0	ug/L	1	10/11/2017	10/11/2017 11:05	EPA 8260B	
Chloroform	ND	0.062	0.50	ug/L	1	10/11/2017	10/11/2017 11:05	EPA 8260B	
Chloromethane	**5.1**	0.16	2.0	ug/L	1	10/11/2017	10/11/2017 11:05	EPA 8260B	

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708 Heartland Trail, Ste 3000	Project Number: 266431
Madison WI, 53717	Project Manager: Andrew Stehn

MW-3D2

A174103-05 (Water)

Date Sampled
10/05/2017 14:49

Pace Analytical - Madison

Volatile Organic Compounds by Method 8260 - Purge and Trap — **Preparation Batch:A710031**

Analyte	Result	Limit of Detection	Limit of Quantitation	Units	Dilution	Prepared	Analyzed	Method	Qualifiers
cis-1,2-Dichloroethene	**34**	0.11	0.50	ug/L	1	10/11/2017	10/11/2017 11:05	EPA 8260B	
cis-1,3-Dichloropropene	ND	0.061	0.50	ug/L	1	10/11/2017	10/11/2017 11:05	EPA 8260B	
Dibromochloromethane	ND	0.091	0.50	ug/L	1	10/11/2017	10/11/2017 11:05	EPA 8260B	
Dibromomethane	ND	0.14	0.50	ug/L	1	10/11/2017	10/11/2017 11:05	EPA 8260B	
Dichlorodifluoromethane	ND	0.11	0.50	ug/L	1	10/11/2017	10/11/2017 11:05	EPA 8260B	
Diisopropyl Ether	ND	0.15	0.50	ug/L	1	10/11/2017	10/11/2017 11:05	EPA 8260B	
Ethylbenzene	ND	0.054	0.50	ug/L	1	10/11/2017	10/11/2017 11:05	EPA 8260B	
Hexachlorobutadiene	ND	0.13	2.0	ug/L	1	10/11/2017	10/11/2017 11:05	EPA 8260B	
Isopropylbenzene	ND	0.081	0.50	ug/L	1	10/11/2017	10/11/2017 11:05	EPA 8260B	
m,p-Xylene	ND	0.057	1.0	ug/L	1	10/11/2017	10/11/2017 11:05	EPA 8260B	
Methyl t-Butyl Ether	ND	0.14	0.50	ug/L	1	10/11/2017	10/11/2017 11:05	EPA 8260B	
Methylene chloride	ND	0.14	2.0	ug/L	1	10/11/2017	10/11/2017 11:05	EPA 8260B	
Naphthalene	**0.090**	0.088	5.0	ug/L	1	10/11/2017	10/11/2017 11:05	EPA 8260B	B, J
n-Butyl Benzene	ND	0.14	0.50	ug/L	1	10/11/2017	10/11/2017 11:05	EPA 8260B	
n-Hexane	ND	0.21	0.50	ug/L	1	10/11/2017	10/11/2017 11:05	EPA 8260B	
n-Propyl Benzene	ND	0.10	0.50	ug/L	1	10/11/2017	10/11/2017 11:05	EPA 8260B	
o-Xylene	ND	0.058	0.50	ug/L	1	10/11/2017	10/11/2017 11:05	EPA 8260B	
p-Isopropyltoluene	ND	0.085	0.50	ug/L	1	10/11/2017	10/11/2017 11:05	EPA 8260B	
sec-Butyl Benzene	ND	0.13	0.50	ug/L	1	10/11/2017	10/11/2017 11:05	EPA 8260B	
Styrene	ND	0.065	0.50	ug/L	1	10/11/2017	10/11/2017 11:05	EPA 8260B	
tert-Butylbenzene	ND	0.12	0.50	ug/L	1	10/11/2017	10/11/2017 11:05	EPA 8260B	
Tetrachloroethene	**0.92**	0.081	0.50	ug/L	1	10/11/2017	10/11/2017 11:05	EPA 8260B	B
Tetrahydrofuran	ND	1.2	10	ug/L	1	10/11/2017	10/11/2017 11:05	EPA 8260B	
Toluene	ND	0.053	0.50	ug/L	1	10/11/2017	10/11/2017 11:05	EPA 8260B	
trans-1,2-Dichloroethene	**0.28**	0.11	0.50	ug/L	1	10/11/2017	10/11/2017 11:05	EPA 8260B	J
trans-1,3-Dichloropropene	ND	0.096	0.50	ug/L	1	10/11/2017	10/11/2017 11:05	EPA 8260B	
Trichloroethene	**0.80**	0.062	0.50	ug/L	1	10/11/2017	10/11/2017 11:05	EPA 8260B	
Trichlorofluoromethane	ND	0.13	0.50	ug/L	1	10/11/2017	10/11/2017 11:05	EPA 8260B	
Vinyl chloride	ND	0.16	0.50	ug/L	1	10/11/2017	10/11/2017 11:05	EPA 8260B	
Xylenes, total	ND	0.12	1.5	ug/L	1	10/11/2017	10/11/2017 11:05	EPA 8260B	
Surrogate: Dibromofluoromethane			*100 %*	*68.9-141*		*10/11/2017*	*10/11/2017 11:05*	*EPA 8260B*	
Surrogate: Toluene-d8			*98.1 %*	*73.3-114*		*10/11/2017*	*10/11/2017 11:05*	*EPA 8260B*	
Surrogate: 4-Bromofluorobenzene			*96.0 %*	*72.2-114*		*10/11/2017*	*10/11/2017 11:05*	*EPA 8260B*	

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708 Heartland Trail, Ste 3000	Project Number: 266431
Madison WI, 53717	Project Manager: Andrew Stehn

MW-3S

A174103-06 (Water)

Date Sampled
10/05/2017 15:52

Pace Analytical - Madison

Volatile Organic Compounds by Method 8260 - Purge and Trap — **Preparation Batch:A710031**

Analyte	Result	Limit of Detection	Limit of Quantitation	Units	Dilution	Prepared	Analyzed	Method	Qualifiers
1,1,1,2-Tetrachloroethane	ND	2.8	13	ug/L	25	10/11/2017	10/11/2017 13:25	EPA 8260B	
1,1,1-Trichloroethane	ND	2.5	13	ug/L	25	10/11/2017	10/11/2017 13:25	EPA 8260B	
1,1,2,2-Tetrachloroethane	ND	2.5	13	ug/L	25	10/11/2017	10/11/2017 13:25	EPA 8260B	
1,1,2-Trichloroethane	ND	2.5	13	ug/L	25	10/11/2017	10/11/2017 13:25	EPA 8260B	
1,1,2-Trichlorotrifluoroethane	ND	3.3	13	ug/L	25	10/11/2017	10/11/2017 13:25	EPA 8260B	
1,1-Dichloroethane	ND	3.0	13	ug/L	25	10/11/2017	10/11/2017 13:25	EPA 8260B	
1,1-Dichloroethene	ND	3.5	13	ug/L	25	10/11/2017	10/11/2017 13:25	EPA 8260B	
1,1-Dichloropropene	ND	2.8	13	ug/L	25	10/11/2017	10/11/2017 13:25	EPA 8260B	
1,2,3-Trichlorobenzene	ND	1.1	50	ug/L	25	10/11/2017	10/11/2017 13:25	EPA 8260B	
1,2,3-Trichloropropane	ND	3.8	25	ug/L	25	10/11/2017	10/11/2017 13:25	EPA 8260B	
1,2,4-Trichlorobenzene	ND	1.9	50	ug/L	25	10/11/2017	10/11/2017 13:25	EPA 8260B	
1,2,4-Trimethylbenzene	ND	1.5	13	ug/L	25	10/11/2017	10/11/2017 13:25	EPA 8260B	
1,2-Dibromo-3-chloropropane	ND	6.3	13	ug/L	25	10/11/2017	10/11/2017 13:25	EPA 8260B	
1,2-Dibromoethane (EDB)	ND	3.3	13	ug/L	25	10/11/2017	10/11/2017 13:25	EPA 8260B	
1,2-Dichlorobenzene	ND	1.9	13	ug/L	25	10/11/2017	10/11/2017 13:25	EPA 8260B	
1,2-Dichloroethane	ND	2.0	13	ug/L	25	10/11/2017	10/11/2017 13:25	EPA 8260B	
1,2-Dichloropropane	ND	2.5	13	ug/L	25	10/11/2017	10/11/2017 13:25	EPA 8260B	
1,3,5-Trimethylbenzene	ND	1.9	13	ug/L	25	10/11/2017	10/11/2017 13:25	EPA 8260B	
1,3-Dichlorobenzene	ND	2.4	13	ug/L	25	10/11/2017	10/11/2017 13:25	EPA 8260B	
1,3-Dichloropropane	ND	2.8	13	ug/L	25	10/11/2017	10/11/2017 13:25	EPA 8260B	
1,4-Dichlorobenzene	ND	1.8	13	ug/L	25	10/11/2017	10/11/2017 13:25	EPA 8260B	
2,2-Dichloropropane	ND	3.5	13	ug/L	25	10/11/2017	10/11/2017 13:25	EPA 8260B	
2-Butanone	ND	75	500	ug/L	25	10/11/2017	10/11/2017 13:25	EPA 8260B	
2-Chlorotoluene	ND	1.9	13	ug/L	25	10/11/2017	10/11/2017 13:25	EPA 8260B	
2-Hexanone	ND	24	500	ug/L	25	10/11/2017	10/11/2017 13:25	EPA 8260B	
4-Chlorotoluene	ND	1.8	13	ug/L	25	10/11/2017	10/11/2017 13:25	EPA 8260B	
4-Methyl-2-pentanone	ND	19	500	ug/L	25	10/11/2017	10/11/2017 13:25	EPA 8260B	
Acetone	ND	85	500	ug/L	25	10/11/2017	10/11/2017 13:25	EPA 8260B	
Benzene	ND	2.2	13	ug/L	25	10/11/2017	10/11/2017 13:25	EPA 8260B	
Bromobenzene	ND	2.1	13	ug/L	25	10/11/2017	10/11/2017 13:25	EPA 8260B	
Bromochloromethane	ND	7.8	13	ug/L	25	10/11/2017	10/11/2017 13:25	EPA 8260B	
Bromodichloromethane	ND	1.9	13	ug/L	25	10/11/2017	10/11/2017 13:25	EPA 8260B	
Bromoform	ND	2.2	13	ug/L	25	10/11/2017	10/11/2017 13:25	EPA 8260B	
Bromomethane	ND	15	130	ug/L	25	10/11/2017	10/11/2017 13:25	EPA 8260B	
Carbon disulfide	ND	1.3	13	ug/L	25	10/11/2017	10/11/2017 13:25	EPA 8260B	
Carbon tetrachloride	ND	0.95	13	ug/L	25	10/11/2017	10/11/2017 13:25	EPA 8260B	
Chlorobenzene	ND	1.8	13	ug/L	25	10/11/2017	10/11/2017 13:25	EPA 8260B	
Chloroethane	ND	6.3	130	ug/L	25	10/11/2017	10/11/2017 13:25	EPA 8260B	
Chloroform	ND	1.6	13	ug/L	25	10/11/2017	10/11/2017 13:25	EPA 8260B	

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Madison WI, 53717	Project Manager: Andrew Stehn

MW-3S

A174103-06 (Water)

Date Sampled
10/05/2017 15:52

Pace Analytical - Madison

Volatile Organic Compounds by Method 8260 - Purge and Trap — **Preparation Batch:A710031**

Analyte	Result	Limit of Detection	Limit of Quantitation	Units	Dilution	Prepared	Analyzed	Method	Qualifiers
Chloromethane	ND	4.0	50	ug/L	25	10/11/2017	10/11/2017 13:25	EPA 8260B	
cis-1,2-Dichloroethene	**20**	2.8	13	ug/L	25	10/11/2017	10/11/2017 13:25	EPA 8260B	D
cis-1,3-Dichloropropene	ND	1.5	13	ug/L	25	10/11/2017	10/11/2017 13:25	EPA 8260B	
Dibromochloromethane	ND	2.3	13	ug/L	25	10/11/2017	10/11/2017 13:25	EPA 8260B	
Dibromomethane	ND	3.5	13	ug/L	25	10/11/2017	10/11/2017 13:25	EPA 8260B	
Dichlorodifluoromethane	ND	2.8	13	ug/L	25	10/11/2017	10/11/2017 13:25	EPA 8260B	
Diisopropyl Ether	ND	3.8	13	ug/L	25	10/11/2017	10/11/2017 13:25	EPA 8260B	
Ethylbenzene	ND	1.4	13	ug/L	25	10/11/2017	10/11/2017 13:25	EPA 8260B	
Hexachlorobutadiene	ND	3.3	50	ug/L	25	10/11/2017	10/11/2017 13:25	EPA 8260B	
Isopropylbenzene	ND	2.0	13	ug/L	25	10/11/2017	10/11/2017 13:25	EPA 8260B	
m,p-Xylene	ND	1.4	25	ug/L	25	10/11/2017	10/11/2017 13:25	EPA 8260B	
Methyl t-Butyl Ether	ND	3.5	13	ug/L	25	10/11/2017	10/11/2017 13:25	EPA 8260B	
Methylene chloride	ND	3.5	50	ug/L	25	10/11/2017	10/11/2017 13:25	EPA 8260B	
Naphthalene	ND	2.2	130	ug/L	25	10/11/2017	10/11/2017 13:25	EPA 8260B	
n-Butyl Benzene	ND	3.5	13	ug/L	25	10/11/2017	10/11/2017 13:25	EPA 8260B	
n-Hexane	ND	5.3	13	ug/L	25	10/11/2017	10/11/2017 13:25	EPA 8260B	
n-Propyl Benzene	ND	2.5	13	ug/L	25	10/11/2017	10/11/2017 13:25	EPA 8260B	
o-Xylene	ND	1.5	13	ug/L	25	10/11/2017	10/11/2017 13:25	EPA 8260B	
p-Isopropyltoluene	ND	2.1	13	ug/L	25	10/11/2017	10/11/2017 13:25	EPA 8260B	
sec-Butyl Benzene	ND	3.3	13	ug/L	25	10/11/2017	10/11/2017 13:25	EPA 8260B	
Styrene	ND	1.6	13	ug/L	25	10/11/2017	10/11/2017 13:25	EPA 8260B	
tert-Butylbenzene	ND	3.0	13	ug/L	25	10/11/2017	10/11/2017 13:25	EPA 8260B	
Tetrachloroethene	**690**	2.0	13	ug/L	25	10/11/2017	10/11/2017 13:25	EPA 8260B	D, B
Tetrahydrofuran	ND	30	250	ug/L	25	10/11/2017	10/11/2017 13:25	EPA 8260B	
Toluene	ND	1.3	13	ug/L	25	10/11/2017	10/11/2017 13:25	EPA 8260B	
trans-1,2-Dichloroethene	ND	2.8	13	ug/L	25	10/11/2017	10/11/2017 13:25	EPA 8260B	
trans-1,3-Dichloropropene	ND	2.4	13	ug/L	25	10/11/2017	10/11/2017 13:25	EPA 8260B	
Trichloroethene	**65**	1.6	13	ug/L	25	10/11/2017	10/11/2017 13:25	EPA 8260B	D
Trichlorofluoromethane	ND	3.3	13	ug/L	25	10/11/2017	10/11/2017 13:25	EPA 8260B	
Vinyl chloride	ND	4.0	13	ug/L	25	10/11/2017	10/11/2017 13:25	EPA 8260B	
Xylenes, total	ND	2.9	38	ug/L	25	10/11/2017	10/11/2017 13:25	EPA 8260B	
Surrogate: Dibromofluoromethane			*98.4 %*	*68.9-141*		*10/11/2017*	*10/11/2017 13:25*	*EPA 8260B*	
Surrogate: Toluene-d8			*98.3 %*	*73.3-114*		*10/11/2017*	*10/11/2017 13:25*	*EPA 8260B*	
Surrogate: 4-Bromofluorobenzene			*95.7 %*	*72.2-114*		*10/11/2017*	*10/11/2017 13:25*	*EPA 8260B*	

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708 Heartland Trail, Ste 3000
Madison WI, 53717

Project: Madison Kipp Corp. Semi-Annual Sampling
Project Number: 266431
Project Manager: Andrew Stehn

MW-3D

A174103-07 (Water)

Date Sampled
10/05/2017 16:26

Pace Analytical - Madison

Volatile Organic Compounds by Method 8260 - Purge and Trap — **Preparation Batch:A710031**

Analyte	Result	Limit of Detection	Limit of Quantitation	Units	Dilution	Prepared	Analyzed	Method	Qualifiers
1,1,1,2-Tetrachloroethane	ND	0.11	0.50	ug/L	1	10/11/2017	10/11/2017 11:33	EPA 8260B	
1,1,1-Trichloroethane	ND	0.10	0.50	ug/L	1	10/11/2017	10/11/2017 11:33	EPA 8260B	
1,1,2,2-Tetrachloroethane	ND	0.099	0.50	ug/L	1	10/11/2017	10/11/2017 11:33	EPA 8260B	
1,1,2-Trichloroethane	ND	0.10	0.50	ug/L	1	10/11/2017	10/11/2017 11:33	EPA 8260B	
1,1,2-Trichlorotrifluoroethane	ND	0.13	0.50	ug/L	1	10/11/2017	10/11/2017 11:33	EPA 8260B	
1,1-Dichloroethane	ND	0.12	0.50	ug/L	1	10/11/2017	10/11/2017 11:33	EPA 8260B	
1,1-Dichloroethene	ND	0.14	0.50	ug/L	1	10/11/2017	10/11/2017 11:33	EPA 8260B	
1,1-Dichloropropene	ND	0.11	0.50	ug/L	1	10/11/2017	10/11/2017 11:33	EPA 8260B	
1,2,3-Trichlorobenzene	ND	0.045	2.0	ug/L	1	10/11/2017	10/11/2017 11:33	EPA 8260B	
1,2,3-Trichloropropane	ND	0.15	1.0	ug/L	1	10/11/2017	10/11/2017 11:33	EPA 8260B	
1,2,4-Trichlorobenzene	ND	0.077	2.0	ug/L	1	10/11/2017	10/11/2017 11:33	EPA 8260B	
1,2,4-Trimethylbenzene	ND	0.060	0.50	ug/L	1	10/11/2017	10/11/2017 11:33	EPA 8260B	
1,2-Dibromo-3-chloropropane	ND	0.25	0.50	ug/L	1	10/11/2017	10/11/2017 11:33	EPA 8260B	
1,2-Dibromoethane (EDB)	ND	0.13	0.50	ug/L	1	10/11/2017	10/11/2017 11:33	EPA 8260B	
1,2-Dichlorobenzene	ND	0.076	0.50	ug/L	1	10/11/2017	10/11/2017 11:33	EPA 8260B	
1,2-Dichloroethane	ND	0.078	0.50	ug/L	1	10/11/2017	10/11/2017 11:33	EPA 8260B	
1,2-Dichloropropane	ND	0.10	0.50	ug/L	1	10/11/2017	10/11/2017 11:33	EPA 8260B	
1,3,5-Trimethylbenzene	ND	0.075	0.50	ug/L	1	10/11/2017	10/11/2017 11:33	EPA 8260B	
1,3-Dichlorobenzene	ND	0.096	0.50	ug/L	1	10/11/2017	10/11/2017 11:33	EPA 8260B	
1,3-Dichloropropane	ND	0.11	0.50	ug/L	1	10/11/2017	10/11/2017 11:33	EPA 8260B	
1,4-Dichlorobenzene	ND	0.070	0.50	ug/L	1	10/11/2017	10/11/2017 11:33	EPA 8260B	
2,2-Dichloropropane	ND	0.14	0.50	ug/L	1	10/11/2017	10/11/2017 11:33	EPA 8260B	
2-Butanone	ND	3.0	20	ug/L	1	10/11/2017	10/11/2017 11:33	EPA 8260B	
2-Chlorotoluene	ND	0.075	0.50	ug/L	1	10/11/2017	10/11/2017 11:33	EPA 8260B	
2-Hexanone	ND	0.95	20	ug/L	1	10/11/2017	10/11/2017 11:33	EPA 8260B	
4-Chlorotoluene	ND	0.073	0.50	ug/L	1	10/11/2017	10/11/2017 11:33	EPA 8260B	
4-Methyl-2-pentanone	ND	0.77	20	ug/L	1	10/11/2017	10/11/2017 11:33	EPA 8260B	
Acetone	**40**	3.4	20	ug/L	1	10/11/2017	10/11/2017 11:33	EPA 8260B	
Benzene	**0.38**	0.089	0.50	ug/L	1	10/11/2017	10/11/2017 11:33	EPA 8260B	J
Bromobenzene	ND	0.084	0.50	ug/L	1	10/11/2017	10/11/2017 11:33	EPA 8260B	
Bromochloromethane	ND	0.31	0.50	ug/L	1	10/11/2017	10/11/2017 11:33	EPA 8260B	
Bromodichloromethane	ND	0.077	0.50	ug/L	1	10/11/2017	10/11/2017 11:33	EPA 8260B	
Bromoform	ND	0.088	0.50	ug/L	1	10/11/2017	10/11/2017 11:33	EPA 8260B	
Bromomethane	ND	0.59	5.0	ug/L	1	10/11/2017	10/11/2017 11:33	EPA 8260B	
Carbon disulfide	ND	0.053	0.50	ug/L	1	10/11/2017	10/11/2017 11:33	EPA 8260B	
Carbon tetrachloride	ND	0.038	0.50	ug/L	1	10/11/2017	10/11/2017 11:33	EPA 8260B	
Chlorobenzene	ND	0.073	0.50	ug/L	1	10/11/2017	10/11/2017 11:33	EPA 8260B	
Chloroethane	ND	0.25	5.0	ug/L	1	10/11/2017	10/11/2017 11:33	EPA 8260B	
Chloroform	**0.43**	0.062	0.50	ug/L	1	10/11/2017	10/11/2017 11:33	EPA 8260B	J
Chloromethane	**2.1**	0.16	2.0	ug/L	1	10/11/2017	10/11/2017 11:33	EPA 8260B	

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Project Number: 266431
Project Manager: Andrew Stehn

MW-3D

A174103-07 (Water)

Date Sampled
10/05/2017 16:26

Pace Analytical - Madison

Volatile Organic Compounds by Method 8260 - Purge and Trap — **Preparation Batch:A710031**

Analyte	Result	Limit of Detection	Limit of Quantitation	Units	Dilution	Prepared	Analyzed	Method	Qualifiers
cis-1,2-Dichloroethene	**1.7**	0.11	0.50	ug/L	1	10/11/2017	10/11/2017 11:33	EPA 8260B	
cis-1,3-Dichloropropene	ND	0.061	0.50	ug/L	1	10/11/2017	10/11/2017 11:33	EPA 8260B	
Dibromochloromethane	ND	0.091	0.50	ug/L	1	10/11/2017	10/11/2017 11:33	EPA 8260B	
Dibromomethane	ND	0.14	0.50	ug/L	1	10/11/2017	10/11/2017 11:33	EPA 8260B	
Dichlorodifluoromethane	ND	0.11	0.50	ug/L	1	10/11/2017	10/11/2017 11:33	EPA 8260B	
Diisopropyl Ether	ND	0.15	0.50	ug/L	1	10/11/2017	10/11/2017 11:33	EPA 8260B	
Ethylbenzene	ND	0.054	0.50	ug/L	1	10/11/2017	10/11/2017 11:33	EPA 8260B	
Hexachlorobutadiene	ND	0.13	2.0	ug/L	1	10/11/2017	10/11/2017 11:33	EPA 8260B	
Isopropylbenzene	**0.11**	0.081	0.50	ug/L	1	10/11/2017	10/11/2017 11:33	EPA 8260B	J
m,p-Xylene	ND	0.057	1.0	ug/L	1	10/11/2017	10/11/2017 11:33	EPA 8260B	
Methyl t-Butyl Ether	ND	0.14	0.50	ug/L	1	10/11/2017	10/11/2017 11:33	EPA 8260B	
Methylene chloride	ND	0.14	2.0	ug/L	1	10/11/2017	10/11/2017 11:33	EPA 8260B	
Naphthalene	ND	0.088	5.0	ug/L	1	10/11/2017	10/11/2017 11:33	EPA 8260B	
n-Butyl Benzene	ND	0.14	0.50	ug/L	1	10/11/2017	10/11/2017 11:33	EPA 8260B	
n-Hexane	ND	0.21	0.50	ug/L	1	10/11/2017	10/11/2017 11:33	EPA 8260B	
n-Propyl Benzene	ND	0.10	0.50	ug/L	1	10/11/2017	10/11/2017 11:33	EPA 8260B	
o-Xylene	ND	0.058	0.50	ug/L	1	10/11/2017	10/11/2017 11:33	EPA 8260B	
p-Isopropyltoluene	ND	0.085	0.50	ug/L	1	10/11/2017	10/11/2017 11:33	EPA 8260B	
sec-Butyl Benzene	ND	0.13	0.50	ug/L	1	10/11/2017	10/11/2017 11:33	EPA 8260B	
Styrene	ND	0.065	0.50	ug/L	1	10/11/2017	10/11/2017 11:33	EPA 8260B	
tert-Butylbenzene	ND	0.12	0.50	ug/L	1	10/11/2017	10/11/2017 11:33	EPA 8260B	
Tetrachloroethene	**13**	0.081	0.50	ug/L	1	10/11/2017	10/11/2017 11:33	EPA 8260B	B
Tetrahydrofuran	ND	1.2	10	ug/L	1	10/11/2017	10/11/2017 11:33	EPA 8260B	
Toluene	ND	0.053	0.50	ug/L	1	10/11/2017	10/11/2017 11:33	EPA 8260B	
trans-1,2-Dichloroethene	ND	0.11	0.50	ug/L	1	10/11/2017	10/11/2017 11:33	EPA 8260B	
trans-1,3-Dichloropropene	ND	0.096	0.50	ug/L	1	10/11/2017	10/11/2017 11:33	EPA 8260B	
Trichloroethene	**2.0**	0.062	0.50	ug/L	1	10/11/2017	10/11/2017 11:33	EPA 8260B	
Trichlorofluoromethane	ND	0.13	0.50	ug/L	1	10/11/2017	10/11/2017 11:33	EPA 8260B	
Vinyl chloride	ND	0.16	0.50	ug/L	1	10/11/2017	10/11/2017 11:33	EPA 8260B	
Xylenes, total	ND	0.12	1.5	ug/L	1	10/11/2017	10/11/2017 11:33	EPA 8260B	
Surrogate: Dibromofluoromethane			*101 %*	*68.9-141*		*10/11/2017*	*10/11/2017 11:33*	*EPA 8260B*	
Surrogate: Toluene-d8			*97.3 %*	*73.3-114*		*10/11/2017*	*10/11/2017 11:33*	*EPA 8260B*	
Surrogate: 4-Bromofluorobenzene			*96.0 %*	*72.2-114*		*10/11/2017*	*10/11/2017 11:33*	*EPA 8260B*	

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TRC Environmental Corporation, Inc.	Project: Madison Kipp Corp. Semi-Annual Sampling
708 Heartland Trail, Ste 3000	Project Number: 266431
Madison WI, 53717	Project Manager: Andrew Stehn

MW-23D

A174103-08 (Water)

Date Sampled
10/06/2017 10:46

Pace Analytical - Madison

Analyte	Result	Limit of Detection	Limit of Quantitation	Units	Dilution	Prepared	Analyzed	Method	Qualifiers
Polychlorinated Biphenyls by EPA Method 8082							**Preparation Batch:A710057**		
PCB-1016	ND	0.035	0.13	ug/L	1	10/16/2017	10/17/2017 22:43	EPA 8082A	
PCB-1221	ND	0.020	0.25	ug/L	1	10/16/2017	10/17/2017 22:43	EPA 8082A	
PCB-1232	ND	0.037	0.13	ug/L	1	10/16/2017	10/17/2017 22:43	EPA 8082A	
PCB-1242	ND	0.038	0.13	ug/L	1	10/16/2017	10/17/2017 22:43	EPA 8082A	
PCB-1248	ND	0.020	0.13	ug/L	1	10/16/2017	10/17/2017 22:43	EPA 8082A	
PCB-1254	ND	0.0090	0.13	ug/L	1	10/16/2017	10/17/2017 22:43	EPA 8082A	
PCB-1260	ND	0.025	0.13	ug/L	1	10/16/2017	10/17/2017 22:43	EPA 8082A	
Total PCBs	ND	0.038	0.25	ug/L	1	10/16/2017	10/17/2017 22:43	EPA 8082A	
Surrogate: Decachlorobiphenyl			*113 %*	*72.5-127*		*10/16/2017*	*10/17/2017 22:43*	*EPA 8082A*	
Surrogate: Tetrachloro-meta-xylene			*98.3 %*	*59.9-118*		*10/16/2017*	*10/17/2017 22:43*	*EPA 8082A*	
Volatile Organic Compounds by Method 8260 - Purge and Trap							**Preparation Batch:A710035**		
1,1,1,2-Tetrachloroethane	ND	0.55	2.5	ug/L	5	10/11/2017	10/12/2017 00:08	EPA 8260B	
1,1,1-Trichloroethane	ND	0.50	2.5	ug/L	5	10/11/2017	10/12/2017 00:08	EPA 8260B	
1,1,2,2-Tetrachloroethane	ND	0.50	2.5	ug/L	5	10/11/2017	10/12/2017 00:08	EPA 8260B	
1,1,2-Trichloroethane	ND	0.50	2.5	ug/L	5	10/11/2017	10/12/2017 00:08	EPA 8260B	
1,1,2-Trichlorotrifluoroethane	ND	0.65	2.5	ug/L	5	10/11/2017	10/12/2017 00:08	EPA 8260B	
1,1-Dichloroethane	ND	0.60	2.5	ug/L	5	10/11/2017	10/12/2017 00:08	EPA 8260B	
1,1-Dichloroethene	ND	0.70	2.5	ug/L	5	10/11/2017	10/12/2017 00:08	EPA 8260B	
1,1-Dichloropropene	ND	0.55	2.5	ug/L	5	10/11/2017	10/12/2017 00:08	EPA 8260B	
1,2,3-Trichlorobenzene	ND	0.23	10	ug/L	5	10/11/2017	10/12/2017 00:08	EPA 8260B	
1,2,3-Trichloropropane	ND	0.75	5.0	ug/L	5	10/11/2017	10/12/2017 00:08	EPA 8260B	
1,2,4-Trichlorobenzene	ND	0.39	10	ug/L	5	10/11/2017	10/12/2017 00:08	EPA 8260B	
1,2,4-Trimethylbenzene	ND	0.30	2.5	ug/L	5	10/11/2017	10/12/2017 00:08	EPA 8260B	
1,2-Dibromo-3-chloropropane	ND	1.3	2.5	ug/L	5	10/11/2017	10/12/2017 00:08	EPA 8260B	
1,2-Dibromoethane (EDB)	ND	0.65	2.5	ug/L	5	10/11/2017	10/12/2017 00:08	EPA 8260B	
1,2-Dichlorobenzene	ND	0.38	2.5	ug/L	5	10/11/2017	10/12/2017 00:08	EPA 8260B	
1,2-Dichloroethane	ND	0.39	2.5	ug/L	5	10/11/2017	10/12/2017 00:08	EPA 8260B	
1,2-Dichloropropane	ND	0.50	2.5	ug/L	5	10/11/2017	10/12/2017 00:08	EPA 8260B	
1,3,5-Trimethylbenzene	ND	0.38	2.5	ug/L	5	10/11/2017	10/12/2017 00:08	EPA 8260B	
1,3-Dichlorobenzene	ND	0.48	2.5	ug/L	5	10/11/2017	10/12/2017 00:08	EPA 8260B	
1,3-Dichloropropane	ND	0.55	2.5	ug/L	5	10/11/2017	10/12/2017 00:08	EPA 8260B	
1,4-Dichlorobenzene	ND	0.35	2.5	ug/L	5	10/11/2017	10/12/2017 00:08	EPA 8260B	
2,2-Dichloropropane	ND	0.70	2.5	ug/L	5	10/11/2017	10/12/2017 00:08	EPA 8260B	
2-Butanone	ND	15	100	ug/L	5	10/11/2017	10/12/2017 00:08	EPA 8260B	
2-Chlorotoluene	ND	0.38	2.5	ug/L	5	10/11/2017	10/12/2017 00:08	EPA 8260B	
2-Hexanone	ND	4.8	100	ug/L	5	10/11/2017	10/12/2017 00:08	EPA 8260B	
4-Chlorotoluene	ND	0.37	2.5	ug/L	5	10/11/2017	10/12/2017 00:08	EPA 8260B	
4-Methyl-2-pentanone	ND	3.9	100	ug/L	5	10/11/2017	10/12/2017 00:08	EPA 8260B	
Acetone	ND	17	100	ug/L	5	10/11/2017	10/12/2017 00:08	EPA 8260B	

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708 Heartland Trail, Ste 3000	Project Number: 266431
Madison WI, 53717	Project Manager: Andrew Stehn

MW-23D

A174103-08 (Water)

Date Sampled
10/06/2017 10:46

Pace Analytical - Madison

Volatile Organic Compounds by Method 8260 - Purge and Trap — **Preparation Batch:A710035**

Analyte	Result	Limit of Detection	Limit of Quantitation	Units	Dilution	Prepared	Analyzed	Method	Qualifiers
Benzene	ND	0.45	2.5	ug/L	5	10/11/2017	10/12/2017 00:08	EPA 8260B	
Bromobenzene	ND	0.42	2.5	ug/L	5	10/11/2017	10/12/2017 00:08	EPA 8260B	
Bromochloromethane	ND	1.6	2.5	ug/L	5	10/11/2017	10/12/2017 00:08	EPA 8260B	
Bromodichloromethane	ND	0.39	2.5	ug/L	5	10/11/2017	10/12/2017 00:08	EPA 8260B	
Bromoform	ND	0.44	2.5	ug/L	5	10/11/2017	10/12/2017 00:08	EPA 8260B	
Bromomethane	ND	3.0	25	ug/L	5	10/11/2017	10/12/2017 00:08	EPA 8260B	
Carbon disulfide	ND	0.27	2.5	ug/L	5	10/11/2017	10/12/2017 00:08	EPA 8260B	
Carbon tetrachloride	ND	0.19	2.5	ug/L	5	10/11/2017	10/12/2017 00:08	EPA 8260B	
Chlorobenzene	ND	0.37	2.5	ug/L	5	10/11/2017	10/12/2017 00:08	EPA 8260B	
Chloroethane	ND	1.3	25	ug/L	5	10/11/2017	10/12/2017 00:08	EPA 8260B	
Chloroform	ND	0.31	2.5	ug/L	5	10/11/2017	10/12/2017 00:08	EPA 8260B	
Chloromethane	**1.5**	0.80	10	ug/L	5	10/11/2017	10/12/2017 00:08	EPA 8260B	J, D
cis-1,2-Dichloroethene	ND	0.55	2.5	ug/L	5	10/11/2017	10/12/2017 00:08	EPA 8260B	
cis-1,3-Dichloropropene	ND	0.31	2.5	ug/L	5	10/11/2017	10/12/2017 00:08	EPA 8260B	
Dibromochloromethane	ND	0.46	2.5	ug/L	5	10/11/2017	10/12/2017 00:08	EPA 8260B	
Dibromomethane	ND	0.70	2.5	ug/L	5	10/11/2017	10/12/2017 00:08	EPA 8260B	
Dichlorodifluoromethane	ND	0.55	2.5	ug/L	5	10/11/2017	10/12/2017 00:08	EPA 8260B	
Diisopropyl Ether	ND	0.75	2.5	ug/L	5	10/11/2017	10/12/2017 00:08	EPA 8260B	
Ethylbenzene	ND	0.27	2.5	ug/L	5	10/11/2017	10/12/2017 00:08	EPA 8260B	
Hexachlorobutadiene	ND	0.65	10	ug/L	5	10/11/2017	10/12/2017 00:08	EPA 8260B	
Isopropylbenzene	ND	0.41	2.5	ug/L	5	10/11/2017	10/12/2017 00:08	EPA 8260B	
m,p-Xylene	ND	0.29	5.0	ug/L	5	10/11/2017	10/12/2017 00:08	EPA 8260B	
Methyl t-Butyl Ether	ND	0.70	2.5	ug/L	5	10/11/2017	10/12/2017 00:08	EPA 8260B	
Methylene chloride	ND	0.70	10	ug/L	5	10/11/2017	10/12/2017 00:08	EPA 8260B	
Naphthalene	ND	0.44	25	ug/L	5	10/11/2017	10/12/2017 00:08	EPA 8260B	
n-Butyl Benzene	ND	0.70	2.5	ug/L	5	10/11/2017	10/12/2017 00:08	EPA 8260B	
n-Hexane	ND	1.1	2.5	ug/L	5	10/11/2017	10/12/2017 00:08	EPA 8260B	
n-Propyl Benzene	ND	0.50	2.5	ug/L	5	10/11/2017	10/12/2017 00:08	EPA 8260B	
o-Xylene	ND	0.29	2.5	ug/L	5	10/11/2017	10/12/2017 00:08	EPA 8260B	
p-Isopropyltoluene	ND	0.43	2.5	ug/L	5	10/11/2017	10/12/2017 00:08	EPA 8260B	
sec-Butyl Benzene	ND	0.65	2.5	ug/L	5	10/11/2017	10/12/2017 00:08	EPA 8260B	
Styrene	**0.45**	0.33	2.5	ug/L	5	10/11/2017	10/12/2017 00:08	EPA 8260B	B, J, D
tert-Butylbenzene	ND	0.60	2.5	ug/L	5	10/11/2017	10/12/2017 00:08	EPA 8260B	
Tetrachloroethene	**130**	0.41	2.5	ug/L	5	10/11/2017	10/12/2017 00:08	EPA 8260B	M, D, B
Tetrahydrofuran	ND	6.0	50	ug/L	5	10/11/2017	10/12/2017 00:08	EPA 8260B	
Toluene	ND	0.27	2.5	ug/L	5	10/11/2017	10/12/2017 00:08	EPA 8260B	
trans-1,2-Dichloroethene	ND	0.55	2.5	ug/L	5	10/11/2017	10/12/2017 00:08	EPA 8260B	
trans-1,3-Dichloropropene	ND	0.48	2.5	ug/L	5	10/11/2017	10/12/2017 00:08	EPA 8260B	
Trichloroethene	ND	0.31	2.5	ug/L	5	10/11/2017	10/12/2017 00:08	EPA 8260B	
Trichlorofluoromethane	ND	0.65	2.5	ug/L	5	10/11/2017	10/12/2017 00:08	EPA 8260B	

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708 Heartland Trail, Ste 3000	Project Number: 266431
Madison WI, 53717	Project Manager: Andrew Stehn

MW-23D

A174103-08 (Water)

Date Sampled
10/06/2017 10:46

Analyte	Result	Limit of Detection	Limit of Quantitation	Units	Dilution	Prepared	Analyzed	Method	Qualifiers
Pace Analytical - Madison									
Volatile Organic Compounds by Method 8260 - Purge and Trap						**Preparation Batch:A710035**			
Vinyl chloride	ND	0.80	2.5	ug/L	5	10/11/2017	10/12/2017 00:08	EPA 8260B	
Xylenes, total	ND	0.58	7.5	ug/L	5	10/11/2017	10/12/2017 00:08	EPA 8260B	
Surrogate: Dibromofluoromethane			*106 %*	*68.9-141*		*10/11/2017*	*10/12/2017 00:08*	*EPA 8260B*	
Surrogate: Toluene-d8			*99.2 %*	*73.3-114*		*10/11/2017*	*10/12/2017 00:08*	*EPA 8260B*	
Surrogate: 4-Bromofluorobenzene			*97.4 %*	*72.2-114*		*10/11/2017*	*10/12/2017 00:08*	*EPA 8260B*	
Pace Analytical-Green Bay, WI									
SM 2540C							**Preparation Batch:WET 29793**		
Total Dissolved Solids	**524**	8.7	20.0	mg/L	1	10/12/2017	10/12/2017 13:37	SM 2540C	
SM 2540D							**Preparation Batch:WET 29768**		
Total Suspended Solids	ND	0.95	2.0	mg/L	1	10/11/2017	10/11/2017 12:36	SM 2540D	

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A174103-09 (Water)

Date Sampled
10/06/2017 13:09

Pace Analytical - Madison

Analyte	Result	Limit of Detection	Limit of Quantitation	Units	Dilution	Prepared	Analyzed	Method	Qualifiers
Polychlorinated Biphenyls by EPA Method 8082							**Preparation Batch:A710057**		
PCB-1016	ND	0.035	0.13	ug/L	1	10/16/2017	10/17/2017 23:08	EPA 8082A	
PCB-1221	ND	0.020	0.25	ug/L	1	10/16/2017	10/17/2017 23:08	EPA 8082A	
PCB-1232	ND	0.037	0.13	ug/L	1	10/16/2017	10/17/2017 23:08	EPA 8082A	
PCB-1242	ND	0.038	0.13	ug/L	1	10/16/2017	10/17/2017 23:08	EPA 8082A	
PCB-1248	**0.034**	0.020	0.13	ug/L	1	10/16/2017	10/17/2017 23:08	EPA 8082A	J
PCB-1254	ND	0.0090	0.13	ug/L	1	10/16/2017	10/17/2017 23:08	EPA 8082A	
PCB-1260	ND	0.025	0.13	ug/L	1	10/16/2017	10/17/2017 23:08	EPA 8082A	
Total PCBs	ND	0.038	0.25	ug/L	1	10/16/2017	10/17/2017 23:08	EPA 8082A	
Surrogate: Decachlorobiphenyl			*112 %*	*72.5-127*		*10/16/2017*	*10/17/2017 23:08*	*EPA 8082A*	
Surrogate: Tetrachloro-meta-xylene			*113 %*	*59.9-118*		*10/16/2017*	*10/17/2017 23:08*	*EPA 8082A*	
Volatile Organic Compounds by Method 8260 - Purge and Trap							**Preparation Batch:A710031**		
1,1,1,2-Tetrachloroethane	ND	0.22	1.0	ug/L	2	10/11/2017	10/11/2017 12:29	EPA 8260B	
1,1,1-Trichloroethane	ND	0.20	1.0	ug/L	2	10/11/2017	10/11/2017 12:29	EPA 8260B	
1,1,2,2-Tetrachloroethane	ND	0.20	1.0	ug/L	2	10/11/2017	10/11/2017 12:29	EPA 8260B	
1,1,2-Trichloroethane	ND	0.20	1.0	ug/L	2	10/11/2017	10/11/2017 12:29	EPA 8260B	
1,1,2-Trichlorotrifluoroethane	ND	0.26	1.0	ug/L	2	10/11/2017	10/11/2017 12:29	EPA 8260B	
1,1-Dichloroethane	ND	0.24	1.0	ug/L	2	10/11/2017	10/11/2017 12:29	EPA 8260B	
1,1-Dichloroethene	ND	0.28	1.0	ug/L	2	10/11/2017	10/11/2017 12:29	EPA 8260B	
1,1-Dichloropropene	ND	0.22	1.0	ug/L	2	10/11/2017	10/11/2017 12:29	EPA 8260B	
1,2,3-Trichlorobenzene	ND	0.090	4.0	ug/L	2	10/11/2017	10/11/2017 12:29	EPA 8260B	
1,2,3-Trichloropropane	ND	0.30	2.0	ug/L	2	10/11/2017	10/11/2017 12:29	EPA 8260B	
1,2,4-Trichlorobenzene	ND	0.15	4.0	ug/L	2	10/11/2017	10/11/2017 12:29	EPA 8260B	
1,2,4-Trimethylbenzene	ND	0.12	1.0	ug/L	2	10/11/2017	10/11/2017 12:29	EPA 8260B	
1,2-Dibromo-3-chloropropane	ND	0.50	1.0	ug/L	2	10/11/2017	10/11/2017 12:29	EPA 8260B	
1,2-Dibromoethane (EDB)	ND	0.26	1.0	ug/L	2	10/11/2017	10/11/2017 12:29	EPA 8260B	
1,2-Dichlorobenzene	ND	0.15	1.0	ug/L	2	10/11/2017	10/11/2017 12:29	EPA 8260B	
1,2-Dichloroethane	ND	0.16	1.0	ug/L	2	10/11/2017	10/11/2017 12:29	EPA 8260B	
1,2-Dichloropropane	ND	0.20	1.0	ug/L	2	10/11/2017	10/11/2017 12:29	EPA 8260B	
1,3,5-Trimethylbenzene	ND	0.15	1.0	ug/L	2	10/11/2017	10/11/2017 12:29	EPA 8260B	
1,3-Dichlorobenzene	ND	0.19	1.0	ug/L	2	10/11/2017	10/11/2017 12:29	EPA 8260B	
1,3-Dichloropropane	ND	0.22	1.0	ug/L	2	10/11/2017	10/11/2017 12:29	EPA 8260B	
1,4-Dichlorobenzene	ND	0.14	1.0	ug/L	2	10/11/2017	10/11/2017 12:29	EPA 8260B	
2,2-Dichloropropane	ND	0.28	1.0	ug/L	2	10/11/2017	10/11/2017 12:29	EPA 8260B	
2-Butanone	ND	6.0	40	ug/L	2	10/11/2017	10/11/2017 12:29	EPA 8260B	
2-Chlorotoluene	ND	0.15	1.0	ug/L	2	10/11/2017	10/11/2017 12:29	EPA 8260B	
2-Hexanone	ND	1.9	40	ug/L	2	10/11/2017	10/11/2017 12:29	EPA 8260B	
4-Chlorotoluene	ND	0.15	1.0	ug/L	2	10/11/2017	10/11/2017 12:29	EPA 8260B	
4-Methyl-2-pentanone	ND	1.5	40	ug/L	2	10/11/2017	10/11/2017 12:29	EPA 8260B	
Acetone	**14**	6.8	40	ug/L	2	10/11/2017	10/11/2017 12:29	EPA 8260B	J, D

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MW-23S

A174103-09 (Water)

Date Sampled
10/06/2017 13:09

Pace Analytical - Madison

Volatile Organic Compounds by Method 8260 - Purge and Trap — **Preparation Batch:A710031**

Analyte	Result	Limit of Detection	Limit of Quantitation	Units	Dilution	Prepared	Analyzed	Method	Qualifiers
Benzene	ND	0.18	1.0	ug/L	2	10/11/2017	10/11/2017 12:29	EPA 8260B	
Bromobenzene	ND	0.17	1.0	ug/L	2	10/11/2017	10/11/2017 12:29	EPA 8260B	
Bromochloromethane	ND	0.62	1.0	ug/L	2	10/11/2017	10/11/2017 12:29	EPA 8260B	
Bromodichloromethane	ND	0.15	1.0	ug/L	2	10/11/2017	10/11/2017 12:29	EPA 8260B	
Bromoform	ND	0.18	1.0	ug/L	2	10/11/2017	10/11/2017 12:29	EPA 8260B	
Bromomethane	ND	1.2	10	ug/L	2	10/11/2017	10/11/2017 12:29	EPA 8260B	
Carbon disulfide	ND	0.11	1.0	ug/L	2	10/11/2017	10/11/2017 12:29	EPA 8260B	
Carbon tetrachloride	ND	0.076	1.0	ug/L	2	10/11/2017	10/11/2017 12:29	EPA 8260B	
Chlorobenzene	ND	0.15	1.0	ug/L	2	10/11/2017	10/11/2017 12:29	EPA 8260B	
Chloroethane	ND	0.50	10	ug/L	2	10/11/2017	10/11/2017 12:29	EPA 8260B	
Chloroform	ND	0.12	1.0	ug/L	2	10/11/2017	10/11/2017 12:29	EPA 8260B	
Chloromethane	**0.92**	0.32	4.0	ug/L	2	10/11/2017	10/11/2017 12:29	EPA 8260B	J, D
cis-1,2-Dichloroethene	**33**	0.22	1.0	ug/L	2	10/11/2017	10/11/2017 12:29	EPA 8260B	D
cis-1,3-Dichloropropene	ND	0.12	1.0	ug/L	2	10/11/2017	10/11/2017 12:29	EPA 8260B	
Dibromochloromethane	ND	0.18	1.0	ug/L	2	10/11/2017	10/11/2017 12:29	EPA 8260B	
Dibromomethane	ND	0.28	1.0	ug/L	2	10/11/2017	10/11/2017 12:29	EPA 8260B	
Dichlorodifluoromethane	ND	0.22	1.0	ug/L	2	10/11/2017	10/11/2017 12:29	EPA 8260B	
Diisopropyl Ether	ND	0.30	1.0	ug/L	2	10/11/2017	10/11/2017 12:29	EPA 8260B	
Ethylbenzene	ND	0.11	1.0	ug/L	2	10/11/2017	10/11/2017 12:29	EPA 8260B	
Hexachlorobutadiene	ND	0.26	4.0	ug/L	2	10/11/2017	10/11/2017 12:29	EPA 8260B	
Isopropylbenzene	ND	0.16	1.0	ug/L	2	10/11/2017	10/11/2017 12:29	EPA 8260B	
m,p-Xylene	ND	0.11	2.0	ug/L	2	10/11/2017	10/11/2017 12:29	EPA 8260B	
Methyl t-Butyl Ether	ND	0.28	1.0	ug/L	2	10/11/2017	10/11/2017 12:29	EPA 8260B	
Methylene chloride	ND	0.28	4.0	ug/L	2	10/11/2017	10/11/2017 12:29	EPA 8260B	
Naphthalene	ND	0.18	10	ug/L	2	10/11/2017	10/11/2017 12:29	EPA 8260B	
n-Butyl Benzene	ND	0.28	1.0	ug/L	2	10/11/2017	10/11/2017 12:29	EPA 8260B	
n-Hexane	ND	0.42	1.0	ug/L	2	10/11/2017	10/11/2017 12:29	EPA 8260B	
n-Propyl Benzene	ND	0.20	1.0	ug/L	2	10/11/2017	10/11/2017 12:29	EPA 8260B	
o-Xylene	ND	0.12	1.0	ug/L	2	10/11/2017	10/11/2017 12:29	EPA 8260B	
p-Isopropyltoluene	ND	0.17	1.0	ug/L	2	10/11/2017	10/11/2017 12:29	EPA 8260B	
sec-Butyl Benzene	ND	0.26	1.0	ug/L	2	10/11/2017	10/11/2017 12:29	EPA 8260B	
Styrene	ND	0.13	1.0	ug/L	2	10/11/2017	10/11/2017 12:29	EPA 8260B	
tert-Butylbenzene	ND	0.24	1.0	ug/L	2	10/11/2017	10/11/2017 12:29	EPA 8260B	
Tetrachloroethene	**120**	0.41	2.5	ug/L	5	10/11/2017	10/12/2017 09:08	EPA 8260B	D, B
Tetrahydrofuran	ND	2.4	20	ug/L	2	10/11/2017	10/11/2017 12:29	EPA 8260B	
Toluene	ND	0.11	1.0	ug/L	2	10/11/2017	10/11/2017 12:29	EPA 8260B	
trans-1,2-Dichloroethene	ND	0.22	1.0	ug/L	2	10/11/2017	10/11/2017 12:29	EPA 8260B	
trans-1,3-Dichloropropene	ND	0.19	1.0	ug/L	2	10/11/2017	10/11/2017 12:29	EPA 8260B	
Trichloroethene	**7.8**	0.12	1.0	ug/L	2	10/11/2017	10/11/2017 12:29	EPA 8260B	D
Trichlorofluoromethane	ND	0.26	1.0	ug/L	2	10/11/2017	10/11/2017 12:29	EPA 8260B	

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708 Heartland Trail, Ste 3000	Project Number: 266431
Madison WI, 53717	Project Manager: Andrew Stehn

MW-23S

A174103-09 (Water)

Date Sampled
10/06/2017 13:09

Analyte	Result	Limit of Detection	Limit of Quantitation	Units	Dilution	Prepared	Analyzed	Method	Qualifiers
Pace Analytical - Madison									
Volatile Organic Compounds by Method 8260 - Purge and Trap							**Preparation Batch:A710031**		
Vinyl chloride	ND	0.32	1.0	ug/L	2	10/11/2017	10/11/2017 12:29	EPA 8260B	
Xylenes, total	ND	0.23	3.0	ug/L	2	10/11/2017	10/11/2017 12:29	EPA 8260B	
Surrogate: Dibromofluoromethane			*101 %*	*68.9-141*		*10/11/2017*	*10/11/2017 12:29*	*EPA 8260B*	
Surrogate: Toluene-d8			*102 %*	*73.3-114*		*10/11/2017*	*10/11/2017 12:29*	*EPA 8260B*	
Surrogate: 4-Bromofluorobenzene			*99.1 %*	*72.2-114*		*10/11/2017*	*10/11/2017 12:29*	*EPA 8260B*	
Pace Analytical-Green Bay, WI									
SM 2540C							**Preparation Batch:WET 29793**		
Total Dissolved Solids	**656**	8.7	20.0	mg/L	1	10/12/2017	10/12/2017 13:38	SM 2540C	
SM 2540D							**Preparation Batch:WET 29768**		
Total Suspended Solids	**16.8**	1.9	4.0	mg/L	1	10/11/2017	10/11/2017 12:36	SM 2540D	

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Madison WI, 53717

Project: Madison Kipp Corp. Semi-Annual Sampling
Project Number: 266431
Project Manager: Andrew Stehn

MW-22D

A174103-10 (Water)

Date Sampled
10/06/2017 15:46

Pace Analytical - Madison

Analyte	Result	Limit of Detection	Limit of Quantitation	Units	Dilution	Prepared	Analyzed	Method	Qualifiers
Polychlorinated Biphenyls by EPA Method 8082							**Preparation Batch:A710057**		
PCB-1016	ND	0.035	0.13	ug/L	1	10/16/2017	10/17/2017 23:32	EPA 8082A	
PCB-1221	ND	0.020	0.25	ug/L	1	10/16/2017	10/17/2017 23:32	EPA 8082A	
PCB-1232	ND	0.037	0.13	ug/L	1	10/16/2017	10/17/2017 23:32	EPA 8082A	
PCB-1242	ND	0.038	0.13	ug/L	1	10/16/2017	10/17/2017 23:32	EPA 8082A	
PCB-1248	**0.30**	0.020	0.13	ug/L	1	10/16/2017	10/17/2017 23:32	EPA 8082A	
PCB-1254	ND	0.0090	0.13	ug/L	1	10/16/2017	10/17/2017 23:32	EPA 8082A	
PCB-1260	ND	0.025	0.13	ug/L	1	10/16/2017	10/17/2017 23:32	EPA 8082A	
Total PCBs	**0.30**	0.038	0.25	ug/L	1	10/16/2017	10/17/2017 23:32	EPA 8082A	
Surrogate: Decachlorobiphenyl			*112 %*	*72.5-127*		*10/16/2017*	*10/17/2017 23:32*	*EPA 8082A*	
Surrogate: Tetrachloro-meta-xylene			*108 %*	*59.9-118*		*10/16/2017*	*10/17/2017 23:32*	*EPA 8082A*	
Volatile Organic Compounds by Method 8260 - Purge and Trap							**Preparation Batch:A710031**		
1,1,1,2-Tetrachloroethane	ND	0.55	2.5	ug/L	5	10/11/2017	10/11/2017 12:57	EPA 8260B	
1,1,1-Trichloroethane	ND	0.50	2.5	ug/L	5	10/11/2017	10/11/2017 12:57	EPA 8260B	
1,1,2,2-Tetrachloroethane	ND	0.50	2.5	ug/L	5	10/11/2017	10/11/2017 12:57	EPA 8260B	
1,1,2-Trichloroethane	ND	0.50	2.5	ug/L	5	10/11/2017	10/11/2017 12:57	EPA 8260B	
1,1,2-Trichlorotrifluoroethane	ND	0.65	2.5	ug/L	5	10/11/2017	10/11/2017 12:57	EPA 8260B	
1,1-Dichloroethane	ND	0.60	2.5	ug/L	5	10/11/2017	10/11/2017 12:57	EPA 8260B	
1,1-Dichloroethene	ND	0.70	2.5	ug/L	5	10/11/2017	10/11/2017 12:57	EPA 8260B	
1,1-Dichloropropene	ND	0.55	2.5	ug/L	5	10/11/2017	10/11/2017 12:57	EPA 8260B	
1,2,3-Trichlorobenzene	ND	0.23	10	ug/L	5	10/11/2017	10/11/2017 12:57	EPA 8260B	
1,2,3-Trichloropropane	ND	0.75	5.0	ug/L	5	10/11/2017	10/11/2017 12:57	EPA 8260B	
1,2,4-Trichlorobenzene	ND	0.39	10	ug/L	5	10/11/2017	10/11/2017 12:57	EPA 8260B	
1,2,4-Trimethylbenzene	ND	0.30	2.5	ug/L	5	10/11/2017	10/11/2017 12:57	EPA 8260B	
1,2-Dibromo-3-chloropropane	ND	1.3	2.5	ug/L	5	10/11/2017	10/11/2017 12:57	EPA 8260B	
1,2-Dibromoethane (EDB)	ND	0.65	2.5	ug/L	5	10/11/2017	10/11/2017 12:57	EPA 8260B	
1,2-Dichlorobenzene	ND	0.38	2.5	ug/L	5	10/11/2017	10/11/2017 12:57	EPA 8260B	
1,2-Dichloroethane	ND	0.39	2.5	ug/L	5	10/11/2017	10/11/2017 12:57	EPA 8260B	
1,2-Dichloropropane	ND	0.50	2.5	ug/L	5	10/11/2017	10/11/2017 12:57	EPA 8260B	
1,3,5-Trimethylbenzene	ND	0.38	2.5	ug/L	5	10/11/2017	10/11/2017 12:57	EPA 8260B	
1,3-Dichlorobenzene	ND	0.48	2.5	ug/L	5	10/11/2017	10/11/2017 12:57	EPA 8260B	
1,3-Dichloropropane	ND	0.55	2.5	ug/L	5	10/11/2017	10/11/2017 12:57	EPA 8260B	
1,4-Dichlorobenzene	ND	0.35	2.5	ug/L	5	10/11/2017	10/11/2017 12:57	EPA 8260B	
2,2-Dichloropropane	ND	0.70	2.5	ug/L	5	10/11/2017	10/11/2017 12:57	EPA 8260B	
2-Butanone	ND	15	100	ug/L	5	10/11/2017	10/11/2017 12:57	EPA 8260B	
2-Chlorotoluene	ND	0.38	2.5	ug/L	5	10/11/2017	10/11/2017 12:57	EPA 8260B	
2-Hexanone	ND	4.8	100	ug/L	5	10/11/2017	10/11/2017 12:57	EPA 8260B	
4-Chlorotoluene	ND	0.37	2.5	ug/L	5	10/11/2017	10/11/2017 12:57	EPA 8260B	
4-Methyl-2-pentanone	ND	3.9	100	ug/L	5	10/11/2017	10/11/2017 12:57	EPA 8260B	
Acetone	ND	17	100	ug/L	5	10/11/2017	10/11/2017 12:57	EPA 8260B	

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708 Heartland Trail, Ste 3000	Project Number: 266431
Madison WI, 53717	Project Manager: Andrew Stehn

MW-22D

A174103-10 (Water)

Date Sampled
10/06/2017 15:46

Pace Analytical - Madison

Volatile Organic Compounds by Method 8260 - Purge and Trap — **Preparation Batch:A710031**

Analyte	Result	Limit of Detection	Limit of Quantitation	Units	Dilution	Prepared	Analyzed	Method	Qualifiers
Benzene	ND	0.45	2.5	ug/L	5	10/11/2017	10/11/2017 12:57	EPA 8260B	
Bromobenzene	ND	0.42	2.5	ug/L	5	10/11/2017	10/11/2017 12:57	EPA 8260B	
Bromochloromethane	ND	1.6	2.5	ug/L	5	10/11/2017	10/11/2017 12:57	EPA 8260B	
Bromodichloromethane	ND	0.39	2.5	ug/L	5	10/11/2017	10/11/2017 12:57	EPA 8260B	
Bromoform	ND	0.44	2.5	ug/L	5	10/11/2017	10/11/2017 12:57	EPA 8260B	
Bromomethane	ND	3.0	25	ug/L	5	10/11/2017	10/11/2017 12:57	EPA 8260B	
Carbon disulfide	ND	0.27	2.5	ug/L	5	10/11/2017	10/11/2017 12:57	EPA 8260B	
Carbon tetrachloride	ND	0.19	2.5	ug/L	5	10/11/2017	10/11/2017 12:57	EPA 8260B	
Chlorobenzene	ND	0.37	2.5	ug/L	5	10/11/2017	10/11/2017 12:57	EPA 8260B	
Chloroethane	ND	1.3	25	ug/L	5	10/11/2017	10/11/2017 12:57	EPA 8260B	
Chloroform	ND	0.31	2.5	ug/L	5	10/11/2017	10/11/2017 12:57	EPA 8260B	
Chloromethane	ND	0.80	10	ug/L	5	10/11/2017	10/11/2017 12:57	EPA 8260B	
cis-1,2-Dichloroethene	**47**	0.55	2.5	ug/L	5	10/11/2017	10/11/2017 12:57	EPA 8260B	D
cis-1,3-Dichloropropene	ND	0.31	2.5	ug/L	5	10/11/2017	10/11/2017 12:57	EPA 8260B	
Dibromochloromethane	ND	0.46	2.5	ug/L	5	10/11/2017	10/11/2017 12:57	EPA 8260B	
Dibromomethane	ND	0.70	2.5	ug/L	5	10/11/2017	10/11/2017 12:57	EPA 8260B	
Dichlorodifluoromethane	ND	0.55	2.5	ug/L	5	10/11/2017	10/11/2017 12:57	EPA 8260B	
Diisopropyl Ether	ND	0.75	2.5	ug/L	5	10/11/2017	10/11/2017 12:57	EPA 8260B	
Ethylbenzene	ND	0.27	2.5	ug/L	5	10/11/2017	10/11/2017 12:57	EPA 8260B	
Hexachlorobutadiene	ND	0.65	10	ug/L	5	10/11/2017	10/11/2017 12:57	EPA 8260B	
Isopropylbenzene	ND	0.41	2.5	ug/L	5	10/11/2017	10/11/2017 12:57	EPA 8260B	
m,p-Xylene	ND	0.29	5.0	ug/L	5	10/11/2017	10/11/2017 12:57	EPA 8260B	
Methyl t-Butyl Ether	ND	0.70	2.5	ug/L	5	10/11/2017	10/11/2017 12:57	EPA 8260B	
Methylene chloride	ND	0.70	10	ug/L	5	10/11/2017	10/11/2017 12:57	EPA 8260B	
Naphthalene	ND	0.44	25	ug/L	5	10/11/2017	10/11/2017 12:57	EPA 8260B	
n-Butyl Benzene	ND	0.70	2.5	ug/L	5	10/11/2017	10/11/2017 12:57	EPA 8260B	
n-Hexane	ND	1.1	2.5	ug/L	5	10/11/2017	10/11/2017 12:57	EPA 8260B	
n-Propyl Benzene	ND	0.50	2.5	ug/L	5	10/11/2017	10/11/2017 12:57	EPA 8260B	
o-Xylene	ND	0.29	2.5	ug/L	5	10/11/2017	10/11/2017 12:57	EPA 8260B	
p-Isopropyltoluene	ND	0.43	2.5	ug/L	5	10/11/2017	10/11/2017 12:57	EPA 8260B	
sec-Butyl Benzene	ND	0.65	2.5	ug/L	5	10/11/2017	10/11/2017 12:57	EPA 8260B	
Styrene	ND	0.33	2.5	ug/L	5	10/11/2017	10/11/2017 12:57	EPA 8260B	
tert-Butylbenzene	ND	0.60	2.5	ug/L	5	10/11/2017	10/11/2017 12:57	EPA 8260B	
Tetrachloroethene	**120**	0.41	2.5	ug/L	5	10/11/2017	10/11/2017 12:57	EPA 8260B	D, B
Tetrahydrofuran	ND	6.0	50	ug/L	5	10/11/2017	10/11/2017 12:57	EPA 8260B	
Toluene	ND	0.27	2.5	ug/L	5	10/11/2017	10/11/2017 12:57	EPA 8260B	
trans-1,2-Dichloroethene	**2.3**	0.55	2.5	ug/L	5	10/11/2017	10/11/2017 12:57	EPA 8260B	J, D
trans-1,3-Dichloropropene	ND	0.48	2.5	ug/L	5	10/11/2017	10/11/2017 12:57	EPA 8260B	
Trichloroethene	**9.4**	0.31	2.5	ug/L	5	10/11/2017	10/11/2017 12:57	EPA 8260B	D
Trichlorofluoromethane	ND	0.65	2.5	ug/L	5	10/11/2017	10/11/2017 12:57	EPA 8260B	

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708 Heartland Trail, Ste 3000	Project Number: 266431
Madison WI, 53717	Project Manager: Andrew Stehn

MW-22D

A174103-10 (Water)

Date Sampled
10/06/2017 15:46

Pace Analytical - Madison

Analyte	Result	Limit of Detection	Limit of Quantitation	Units	Dilution	Prepared	Analyzed	Method	Qualifiers
Volatile Organic Compounds by Method 8260 - Purge and Trap						**Preparation Batch:A710031**			
Vinyl chloride	**10**	0.80	2.5	ug/L	5	10/11/2017	10/11/2017 12:57	EPA 8260B	D
Xylenes, total	ND	0.58	7.5	ug/L	5	10/11/2017	10/11/2017 12:57	EPA 8260B	
Surrogate: Dibromofluoromethane			*97.8 %*	*68.9-141*		*10/11/2017*	*10/11/2017 12:57*	*EPA 8260B*	
Surrogate: Toluene-d8			*97.0 %*	*73.3-114*		*10/11/2017*	*10/11/2017 12:57*	*EPA 8260B*	
Surrogate: 4-Bromofluorobenzene			*95.7 %*	*72.2-114*		*10/11/2017*	*10/11/2017 12:57*	*EPA 8260B*	

Pace Analytical-Green Bay, WI

SM 2540C						**Preparation Batch:WET 29793**			
Total Dissolved Solids	**892**	8.7	20.0	mg/L	1	10/12/2017	10/12/2017 13:39	SM 2540C	
SM 2540D						**Preparation Batch:WET 29768**			
Total Suspended Solids	ND	0.95	2.0	mg/L	1	10/11/2017	10/11/2017 12:36	SM 2540D	

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Madison WI, 53717	Project Manager: Andrew Stehn

MW-22S

A174103-11 (Water)

Date Sampled
10/06/2017 15:20

Pace Analytical - Madison

Analyte	Result	Limit of Detection	Limit of Quantitation	Units	Dilution	Prepared	Analyzed	Method	Qualifiers
Polychlorinated Biphenyls by EPA Method 8082							**Preparation Batch:A710057**		
PCB-1016	ND	0.035	0.13	ug/L	1	10/16/2017	10/17/2017 23:57	EPA 8082A	
PCB-1221	ND	0.020	0.25	ug/L	1	10/16/2017	10/17/2017 23:57	EPA 8082A	
PCB-1232	ND	0.037	0.13	ug/L	1	10/16/2017	10/17/2017 23:57	EPA 8082A	
PCB-1242	ND	0.038	0.13	ug/L	1	10/16/2017	10/17/2017 23:57	EPA 8082A	
PCB-1248	**2.0**	0.020	0.13	ug/L	1	10/16/2017	10/17/2017 23:57	EPA 8082A	
PCB-1254	ND	0.0090	0.13	ug/L	1	10/16/2017	10/17/2017 23:57	EPA 8082A	
PCB-1260	ND	0.025	0.13	ug/L	1	10/16/2017	10/17/2017 23:57	EPA 8082A	
Total PCBs	**2.0**	0.038	0.25	ug/L	1	10/16/2017	10/17/2017 23:57	EPA 8082A	
Surrogate: Decachlorobiphenyl			*115 %*	*72.5-127*		*10/16/2017*	*10/17/2017 23:57*	*EPA 8082A*	
Surrogate: Tetrachloro-meta-xylene			*110 %*	*59.9-118*		*10/16/2017*	*10/17/2017 23:57*	*EPA 8082A*	
Volatile Organic Compounds by Method 8260 - Purge and Trap							**Preparation Batch:A710031**		
1,1,1,2-Tetrachloroethane	ND	0.11	0.50	ug/L	1	10/11/2017	10/11/2017 12:01	EPA 8260B	
1,1,1-Trichloroethane	ND	0.10	0.50	ug/L	1	10/11/2017	10/11/2017 12:01	EPA 8260B	
1,1,2,2-Tetrachloroethane	ND	0.099	0.50	ug/L	1	10/11/2017	10/11/2017 12:01	EPA 8260B	
1,1,2-Trichloroethane	ND	0.10	0.50	ug/L	1	10/11/2017	10/11/2017 12:01	EPA 8260B	
1,1,2-Trichlorotrifluoroethane	ND	0.13	0.50	ug/L	1	10/11/2017	10/11/2017 12:01	EPA 8260B	
1,1-Dichloroethane	ND	0.12	0.50	ug/L	1	10/11/2017	10/11/2017 12:01	EPA 8260B	
1,1-Dichloroethene	ND	0.14	0.50	ug/L	1	10/11/2017	10/11/2017 12:01	EPA 8260B	
1,1-Dichloropropene	ND	0.11	0.50	ug/L	1	10/11/2017	10/11/2017 12:01	EPA 8260B	
1,2,3-Trichlorobenzene	ND	0.045	2.0	ug/L	1	10/11/2017	10/11/2017 12:01	EPA 8260B	
1,2,3-Trichloropropane	ND	0.15	1.0	ug/L	1	10/11/2017	10/11/2017 12:01	EPA 8260B	
1,2,4-Trichlorobenzene	**0.080**	0.077	2.0	ug/L	1	10/11/2017	10/11/2017 12:01	EPA 8260B	B, J
1,2,4-Trimethylbenzene	ND	0.060	0.50	ug/L	1	10/11/2017	10/11/2017 12:01	EPA 8260B	
1,2-Dibromo-3-chloropropane	ND	0.25	0.50	ug/L	1	10/11/2017	10/11/2017 12:01	EPA 8260B	
1,2-Dibromoethane (EDB)	ND	0.13	0.50	ug/L	1	10/11/2017	10/11/2017 12:01	EPA 8260B	
1,2-Dichlorobenzene	**0.11**	0.076	0.50	ug/L	1	10/11/2017	10/11/2017 12:01	EPA 8260B	J
1,2-Dichloroethane	ND	0.078	0.50	ug/L	1	10/11/2017	10/11/2017 12:01	EPA 8260B	
1,2-Dichloropropane	ND	0.10	0.50	ug/L	1	10/11/2017	10/11/2017 12:01	EPA 8260B	
1,3,5-Trimethylbenzene	ND	0.075	0.50	ug/L	1	10/11/2017	10/11/2017 12:01	EPA 8260B	
1,3-Dichlorobenzene	ND	0.096	0.50	ug/L	1	10/11/2017	10/11/2017 12:01	EPA 8260B	
1,3-Dichloropropane	ND	0.11	0.50	ug/L	1	10/11/2017	10/11/2017 12:01	EPA 8260B	
1,4-Dichlorobenzene	ND	0.070	0.50	ug/L	1	10/11/2017	10/11/2017 12:01	EPA 8260B	
2,2-Dichloropropane	ND	0.14	0.50	ug/L	1	10/11/2017	10/11/2017 12:01	EPA 8260B	
2-Butanone	ND	3.0	20	ug/L	1	10/11/2017	10/11/2017 12:01	EPA 8260B	
2-Chlorotoluene	ND	0.075	0.50	ug/L	1	10/11/2017	10/11/2017 12:01	EPA 8260B	
2-Hexanone	ND	0.95	20	ug/L	1	10/11/2017	10/11/2017 12:01	EPA 8260B	
4-Chlorotoluene	ND	0.073	0.50	ug/L	1	10/11/2017	10/11/2017 12:01	EPA 8260B	
4-Methyl-2-pentanone	ND	0.77	20	ug/L	1	10/11/2017	10/11/2017 12:01	EPA 8260B	
Acetone	ND	3.4	20	ug/L	1	10/11/2017	10/11/2017 12:01	EPA 8260B	

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708 Heartland Trail, Ste 3000	Project Number: 266431
Madison WI, 53717	Project Manager: Andrew Stehn

MW-22S

A174103-11 (Water)

Date Sampled
10/06/2017 15:20

Pace Analytical - Madison

Volatile Organic Compounds by Method 8260 - Purge and Trap — **Preparation Batch:A710031**

Analyte	Result	Limit of Detection	Limit of Quantitation	Units	Dilution	Prepared	Analyzed	Method	Qualifiers
Benzene	ND	0.089	0.50	ug/L	1	10/11/2017	10/11/2017 12:01	EPA 8260B	
Bromobenzene	ND	0.084	0.50	ug/L	1	10/11/2017	10/11/2017 12:01	EPA 8260B	
Bromochloromethane	ND	0.31	0.50	ug/L	1	10/11/2017	10/11/2017 12:01	EPA 8260B	
Bromodichloromethane	ND	0.077	0.50	ug/L	1	10/11/2017	10/11/2017 12:01	EPA 8260B	
Bromoform	ND	0.088	0.50	ug/L	1	10/11/2017	10/11/2017 12:01	EPA 8260B	
Bromomethane	ND	0.59	5.0	ug/L	1	10/11/2017	10/11/2017 12:01	EPA 8260B	
Carbon disulfide	ND	0.053	0.50	ug/L	1	10/11/2017	10/11/2017 12:01	EPA 8260B	
Carbon tetrachloride	ND	0.038	0.50	ug/L	1	10/11/2017	10/11/2017 12:01	EPA 8260B	
Chlorobenzene	ND	0.073	0.50	ug/L	1	10/11/2017	10/11/2017 12:01	EPA 8260B	
Chloroethane	ND	0.25	5.0	ug/L	1	10/11/2017	10/11/2017 12:01	EPA 8260B	
Chloroform	**0.50**	0.062	0.50	ug/L	1	10/11/2017	10/11/2017 12:01	EPA 8260B	
Chloromethane	**3.0**	0.16	2.0	ug/L	1	10/11/2017	10/11/2017 12:01	EPA 8260B	
cis-1,2-Dichloroethene	**38**	0.11	0.50	ug/L	1	10/11/2017	10/11/2017 12:01	EPA 8260B	M, X
cis-1,3-Dichloropropene	ND	0.061	0.50	ug/L	1	10/11/2017	10/11/2017 12:01	EPA 8260B	
Dibromochloromethane	ND	0.091	0.50	ug/L	1	10/11/2017	10/11/2017 12:01	EPA 8260B	
Dibromomethane	ND	0.14	0.50	ug/L	1	10/11/2017	10/11/2017 12:01	EPA 8260B	
Dichlorodifluoromethane	ND	0.11	0.50	ug/L	1	10/11/2017	10/11/2017 12:01	EPA 8260B	
Diisopropyl Ether	ND	0.15	0.50	ug/L	1	10/11/2017	10/11/2017 12:01	EPA 8260B	
Ethylbenzene	ND	0.054	0.50	ug/L	1	10/11/2017	10/11/2017 12:01	EPA 8260B	
Hexachlorobutadiene	ND	0.13	2.0	ug/L	1	10/11/2017	10/11/2017 12:01	EPA 8260B	
Isopropylbenzene	ND	0.081	0.50	ug/L	1	10/11/2017	10/11/2017 12:01	EPA 8260B	
m,p-Xylene	ND	0.057	1.0	ug/L	1	10/11/2017	10/11/2017 12:01	EPA 8260B	
Methyl t-Butyl Ether	ND	0.14	0.50	ug/L	1	10/11/2017	10/11/2017 12:01	EPA 8260B	
Methylene chloride	ND	0.14	2.0	ug/L	1	10/11/2017	10/11/2017 12:01	EPA 8260B	
Naphthalene	ND	0.088	5.0	ug/L	1	10/11/2017	10/11/2017 12:01	EPA 8260B	
n-Butyl Benzene	ND	0.14	0.50	ug/L	1	10/11/2017	10/11/2017 12:01	EPA 8260B	
n-Hexane	ND	0.21	0.50	ug/L	1	10/11/2017	10/11/2017 12:01	EPA 8260B	
n-Propyl Benzene	ND	0.10	0.50	ug/L	1	10/11/2017	10/11/2017 12:01	EPA 8260B	
o-Xylene	ND	0.058	0.50	ug/L	1	10/11/2017	10/11/2017 12:01	EPA 8260B	
p-Isopropyltoluene	ND	0.085	0.50	ug/L	1	10/11/2017	10/11/2017 12:01	EPA 8260B	
sec-Butyl Benzene	ND	0.13	0.50	ug/L	1	10/11/2017	10/11/2017 12:01	EPA 8260B	
Styrene	ND	0.065	0.50	ug/L	1	10/11/2017	10/11/2017 12:01	EPA 8260B	
tert-Butylbenzene	ND	0.12	0.50	ug/L	1	10/11/2017	10/11/2017 12:01	EPA 8260B	
Tetrachloroethene	**24**	0.081	0.50	ug/L	1	10/11/2017	10/11/2017 12:01	EPA 8260B	X, B
Tetrahydrofuran	ND	1.2	10	ug/L	1	10/11/2017	10/11/2017 12:01	EPA 8260B	
Toluene	ND	0.053	0.50	ug/L	1	10/11/2017	10/11/2017 12:01	EPA 8260B	
trans-1,2-Dichloroethene	**0.49**	0.11	0.50	ug/L	1	10/11/2017	10/11/2017 12:01	EPA 8260B	J
trans-1,3-Dichloropropene	ND	0.096	0.50	ug/L	1	10/11/2017	10/11/2017 12:01	EPA 8260B	
Trichloroethene	**9.4**	0.062	0.50	ug/L	1	10/11/2017	10/11/2017 12:01	EPA 8260B	
Trichlorofluoromethane	ND	0.13	0.50	ug/L	1	10/11/2017	10/11/2017 12:01	EPA 8260B	

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708 Heartland Trail, Ste 3000	Project Number: 266431
Madison WI, 53717	Project Manager: Andrew Stehn

MW-22S

A174103-11 (Water)

Date Sampled
10/06/2017 15:20

Pace Analytical - Madison

Volatile Organic Compounds by Method 8260 - Purge and Trap — **Preparation Batch:A710031**

Analyte	Result	Limit of Detection	Limit of Quantitation	Units	Dilution	Prepared	Analyzed	Method	Qualifiers
Vinyl chloride	**0.85**	0.16	0.50	ug/L	1	10/11/2017	10/11/2017 12:01	EPA 8260B	
Xylenes, total	ND	0.12	1.5	ug/L	1	10/11/2017	10/11/2017 12:01	EPA 8260B	
Surrogate: Dibromofluoromethane			*101 %*	*68.9-141*		*10/11/2017*	*10/11/2017 12:01*	*EPA 8260B*	
Surrogate: Toluene-d8			*98.5 %*	*73.3-114*		*10/11/2017*	*10/11/2017 12:01*	*EPA 8260B*	
Surrogate: 4-Bromofluorobenzene			*97.8 %*	*72.2-114*		*10/11/2017*	*10/11/2017 12:01*	*EPA 8260B*	

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SM 2540C — **Preparation Batch:WET 29793**

Total Dissolved Solids	**830**	8.7	20.0	mg/L	1	10/12/2017	10/12/2017 13:39	SM 2540C	

SM 2540D — **Preparation Batch:WET 29768**

Total Suspended Solids	**1.2**	0.95	2.0	mg/L	1	10/11/2017	10/11/2017 12:36	SM 2540D	Ja

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Madison WI, 53717	Project Manager: Andrew Stehn

DUP-01

A174103-12 (Water)

Date Sampled
10/06/2017 00:00

Pace Analytical - Madison

Analyte	Result	Limit of Detection	Limit of Quantitation	Units	Dilution	Prepared	Analyzed	Method	Qualifiers
Polychlorinated Biphenyls by EPA Method 8082							**Preparation Batch:A710057**		
PCB-1016	ND	0.035	0.13	ug/L	1	10/16/2017	10/18/2017 00:22	EPA 8082A	
PCB-1221	ND	0.020	0.25	ug/L	1	10/16/2017	10/18/2017 00:22	EPA 8082A	
PCB-1232	ND	0.037	0.13	ug/L	1	10/16/2017	10/18/2017 00:22	EPA 8082A	
PCB-1242	ND	0.038	0.13	ug/L	1	10/16/2017	10/18/2017 00:22	EPA 8082A	
PCB-1248	ND	0.020	0.13	ug/L	1	10/16/2017	10/18/2017 00:22	EPA 8082A	
PCB-1254	ND	0.0090	0.13	ug/L	1	10/16/2017	10/18/2017 00:22	EPA 8082A	
PCB-1260	ND	0.025	0.13	ug/L	1	10/16/2017	10/18/2017 00:22	EPA 8082A	
Total PCBs	ND	0.038	0.25	ug/L	1	10/16/2017	10/18/2017 00:22	EPA 8082A	
Surrogate: Decachlorobiphenyl			*126 %*	*72.5-127*		*10/16/2017*	*10/18/2017 00:22*	*EPA 8082A*	
Surrogate: Tetrachloro-meta-xylene			*108 %*	*59.9-118*		*10/16/2017*	*10/18/2017 00:22*	*EPA 8082A*	
Volatile Organic Compounds by Method 8260 - Purge and Trap							**Preparation Batch:A710031**		
1,1,1,2-Tetrachloroethane	ND	0.55	2.5	ug/L	5	10/11/2017	10/11/2017 14:49	EPA 8260B	
1,1,1-Trichloroethane	ND	0.50	2.5	ug/L	5	10/11/2017	10/11/2017 14:49	EPA 8260B	
1,1,2,2-Tetrachloroethane	ND	0.50	2.5	ug/L	5	10/11/2017	10/11/2017 14:49	EPA 8260B	
1,1,2-Trichloroethane	ND	0.50	2.5	ug/L	5	10/11/2017	10/11/2017 14:49	EPA 8260B	
1,1,2-Trichlorotrifluoroethane	ND	0.65	2.5	ug/L	5	10/11/2017	10/11/2017 14:49	EPA 8260B	
1,1-Dichloroethane	ND	0.60	2.5	ug/L	5	10/11/2017	10/11/2017 14:49	EPA 8260B	
1,1-Dichloroethene	ND	0.70	2.5	ug/L	5	10/11/2017	10/11/2017 14:49	EPA 8260B	
1,1-Dichloropropene	ND	0.55	2.5	ug/L	5	10/11/2017	10/11/2017 14:49	EPA 8260B	
1,2,3-Trichlorobenzene	ND	0.23	10	ug/L	5	10/11/2017	10/11/2017 14:49	EPA 8260B	
1,2,3-Trichloropropane	ND	0.75	5.0	ug/L	5	10/11/2017	10/11/2017 14:49	EPA 8260B	
1,2,4-Trichlorobenzene	ND	0.39	10	ug/L	5	10/11/2017	10/11/2017 14:49	EPA 8260B	
1,2,4-Trimethylbenzene	ND	0.30	2.5	ug/L	5	10/11/2017	10/11/2017 14:49	EPA 8260B	
1,2-Dibromo-3-chloropropane	ND	1.3	2.5	ug/L	5	10/11/2017	10/11/2017 14:49	EPA 8260B	
1,2-Dibromoethane (EDB)	ND	0.65	2.5	ug/L	5	10/11/2017	10/11/2017 14:49	EPA 8260B	
1,2-Dichlorobenzene	ND	0.38	2.5	ug/L	5	10/11/2017	10/11/2017 14:49	EPA 8260B	
1,2-Dichloroethane	ND	0.39	2.5	ug/L	5	10/11/2017	10/11/2017 14:49	EPA 8260B	
1,2-Dichloropropane	ND	0.50	2.5	ug/L	5	10/11/2017	10/11/2017 14:49	EPA 8260B	
1,3,5-Trimethylbenzene	ND	0.38	2.5	ug/L	5	10/11/2017	10/11/2017 14:49	EPA 8260B	
1,3-Dichlorobenzene	ND	0.48	2.5	ug/L	5	10/11/2017	10/11/2017 14:49	EPA 8260B	
1,3-Dichloropropane	ND	0.55	2.5	ug/L	5	10/11/2017	10/11/2017 14:49	EPA 8260B	
1,4-Dichlorobenzene	ND	0.35	2.5	ug/L	5	10/11/2017	10/11/2017 14:49	EPA 8260B	
2,2-Dichloropropane	ND	0.70	2.5	ug/L	5	10/11/2017	10/11/2017 14:49	EPA 8260B	
2-Butanone	ND	15	100	ug/L	5	10/11/2017	10/11/2017 14:49	EPA 8260B	
2-Chlorotoluene	ND	0.38	2.5	ug/L	5	10/11/2017	10/11/2017 14:49	EPA 8260B	
2-Hexanone	ND	4.8	100	ug/L	5	10/11/2017	10/11/2017 14:49	EPA 8260B	
4-Chlorotoluene	ND	0.37	2.5	ug/L	5	10/11/2017	10/11/2017 14:49	EPA 8260B	
4-Methyl-2-pentanone	ND	3.9	100	ug/L	5	10/11/2017	10/11/2017 14:49	EPA 8260B	
Acetone	ND	17	100	ug/L	5	10/11/2017	10/11/2017 14:49	EPA 8260B	

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708 Heartland Trail, Ste 3000	Project Number: 266431
Madison WI, 53717	Project Manager: Andrew Stehn

DUP-01

A174103-12 (Water)

Date Sampled
10/06/2017 00:00

Pace Analytical - Madison

Volatile Organic Compounds by Method 8260 - Purge and Trap — **Preparation Batch:A710031**

Analyte	Result	Limit of Detection	Limit of Quantitation	Units	Dilution	Prepared	Analyzed	Method	Qualifiers
Benzene	ND	0.45	2.5	ug/L	5	10/11/2017	10/11/2017 14:49	EPA 8260B	
Bromobenzene	ND	0.42	2.5	ug/L	5	10/11/2017	10/11/2017 14:49	EPA 8260B	
Bromochloromethane	ND	1.6	2.5	ug/L	5	10/11/2017	10/11/2017 14:49	EPA 8260B	
Bromodichloromethane	ND	0.39	2.5	ug/L	5	10/11/2017	10/11/2017 14:49	EPA 8260B	
Bromoform	ND	0.44	2.5	ug/L	5	10/11/2017	10/11/2017 14:49	EPA 8260B	
Bromomethane	ND	3.0	25	ug/L	5	10/11/2017	10/11/2017 14:49	EPA 8260B	
Carbon disulfide	ND	0.27	2.5	ug/L	5	10/11/2017	10/11/2017 14:49	EPA 8260B	
Carbon tetrachloride	ND	0.19	2.5	ug/L	5	10/11/2017	10/11/2017 14:49	EPA 8260B	
Chlorobenzene	ND	0.37	2.5	ug/L	5	10/11/2017	10/11/2017 14:49	EPA 8260B	
Chloroethane	ND	1.3	25	ug/L	5	10/11/2017	10/11/2017 14:49	EPA 8260B	
Chloroform	ND	0.31	2.5	ug/L	5	10/11/2017	10/11/2017 14:49	EPA 8260B	
Chloromethane	**4.3**	0.80	10	ug/L	5	10/11/2017	10/11/2017 14:49	EPA 8260B	J, D
cis-1,2-Dichloroethene	ND	0.55	2.5	ug/L	5	10/11/2017	10/11/2017 14:49	EPA 8260B	
cis-1,3-Dichloropropene	ND	0.31	2.5	ug/L	5	10/11/2017	10/11/2017 14:49	EPA 8260B	
Dibromochloromethane	ND	0.46	2.5	ug/L	5	10/11/2017	10/11/2017 14:49	EPA 8260B	
Dibromomethane	ND	0.70	2.5	ug/L	5	10/11/2017	10/11/2017 14:49	EPA 8260B	
Dichlorodifluoromethane	ND	0.55	2.5	ug/L	5	10/11/2017	10/11/2017 14:49	EPA 8260B	
Diisopropyl Ether	ND	0.75	2.5	ug/L	5	10/11/2017	10/11/2017 14:49	EPA 8260B	
Ethylbenzene	ND	0.27	2.5	ug/L	5	10/11/2017	10/11/2017 14:49	EPA 8260B	
Hexachlorobutadiene	ND	0.65	10	ug/L	5	10/11/2017	10/11/2017 14:49	EPA 8260B	
Isopropylbenzene	ND	0.41	2.5	ug/L	5	10/11/2017	10/11/2017 14:49	EPA 8260B	
m,p-Xylene	ND	0.29	5.0	ug/L	5	10/11/2017	10/11/2017 14:49	EPA 8260B	
Methyl t-Butyl Ether	ND	0.70	2.5	ug/L	5	10/11/2017	10/11/2017 14:49	EPA 8260B	
Methylene chloride	ND	0.70	10	ug/L	5	10/11/2017	10/11/2017 14:49	EPA 8260B	
Naphthalene	ND	0.44	25	ug/L	5	10/11/2017	10/11/2017 14:49	EPA 8260B	
n-Butyl Benzene	ND	0.70	2.5	ug/L	5	10/11/2017	10/11/2017 14:49	EPA 8260B	
n-Hexane	ND	1.1	2.5	ug/L	5	10/11/2017	10/11/2017 14:49	EPA 8260B	
n-Propyl Benzene	ND	0.50	2.5	ug/L	5	10/11/2017	10/11/2017 14:49	EPA 8260B	
o-Xylene	ND	0.29	2.5	ug/L	5	10/11/2017	10/11/2017 14:49	EPA 8260B	
p-Isopropyltoluene	ND	0.43	2.5	ug/L	5	10/11/2017	10/11/2017 14:49	EPA 8260B	
sec-Butyl Benzene	ND	0.65	2.5	ug/L	5	10/11/2017	10/11/2017 14:49	EPA 8260B	
Styrene	ND	0.33	2.5	ug/L	5	10/11/2017	10/11/2017 14:49	EPA 8260B	
tert-Butylbenzene	ND	0.60	2.5	ug/L	5	10/11/2017	10/11/2017 14:49	EPA 8260B	
Tetrachloroethene	**130**	0.41	2.5	ug/L	5	10/11/2017	10/11/2017 14:49	EPA 8260B	D, B
Tetrahydrofuran	ND	6.0	50	ug/L	5	10/11/2017	10/11/2017 14:49	EPA 8260B	
Toluene	ND	0.27	2.5	ug/L	5	10/11/2017	10/11/2017 14:49	EPA 8260B	
trans-1,2-Dichloroethene	ND	0.55	2.5	ug/L	5	10/11/2017	10/11/2017 14:49	EPA 8260B	
trans-1,3-Dichloropropene	ND	0.48	2.5	ug/L	5	10/11/2017	10/11/2017 14:49	EPA 8260B	
Trichloroethene	ND	0.31	2.5	ug/L	5	10/11/2017	10/11/2017 14:49	EPA 8260B	
Trichlorofluoromethane	ND	0.65	2.5	ug/L	5	10/11/2017	10/11/2017 14:49	EPA 8260B	

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Madison WI, 53717	Project Manager: Andrew Stehn

DUP-01

A174103-12 (Water)

Date Sampled
10/06/2017 00:00

Analyte	Result	Limit of Detection	Limit of Quantitation	Units	Dilution	Prepared	Analyzed	Method	Qualifiers
Pace Analytical - Madison									
Volatile Organic Compounds by Method 8260 - Purge and Trap						**Preparation Batch:A710031**			
Vinyl chloride	ND	0.80	2.5	ug/L	5	10/11/2017	10/11/2017 14:49	EPA 8260B	
Xylenes, total	ND	0.58	7.5	ug/L	5	10/11/2017	10/11/2017 14:49	EPA 8260B	
Surrogate: Dibromofluoromethane			*103 %*	*68.9-141*		*10/11/2017*	*10/11/2017 14:49*	*EPA 8260B*	
Surrogate: Toluene-d8			*100 %*	*73.3-114*		*10/11/2017*	*10/11/2017 14:49*	*EPA 8260B*	
Surrogate: 4-Bromofluorobenzene			*97.5 %*	*72.2-114*		*10/11/2017*	*10/11/2017 14:49*	*EPA 8260B*	
Pace Analytical-Green Bay, WI									
SM 2540C						**Preparation Batch:WET 29793**			
Total Dissolved Solids	**534**	8.7	20.0	mg/L	1	10/12/2017	10/12/2017 13:39	SM 2540C	
SM 2540D						**Preparation Batch:WET 29768**			
Total Suspended Solids	ND	0.95	2.0	mg/L	1	10/11/2017	10/11/2017 12:36	SM 2540D	

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DUP-02

A174103-13 (Water)

Date Sampled
10/06/2017 00:00

Pace Analytical - Madison

Analyte	Result	Limit of Detection	Limit of Quantitation	Units	Dilution	Prepared	Analyzed	Method	Qualifiers
Polychlorinated Biphenyls by EPA Method 8082							**Preparation Batch:A710057**		
PCB-1016	ND	0.035	0.13	ug/L	1	10/16/2017	10/18/2017 00:47	EPA 8082A	
PCB-1221	ND	0.020	0.25	ug/L	1	10/16/2017	10/18/2017 00:47	EPA 8082A	
PCB-1232	ND	0.037	0.13	ug/L	1	10/16/2017	10/18/2017 00:47	EPA 8082A	
PCB-1242	ND	0.038	0.13	ug/L	1	10/16/2017	10/18/2017 00:47	EPA 8082A	
PCB-1248	ND	0.020	0.13	ug/L	1	10/16/2017	10/18/2017 00:47	EPA 8082A	
PCB-1254	ND	0.0090	0.13	ug/L	1	10/16/2017	10/18/2017 00:47	EPA 8082A	
PCB-1260	ND	0.025	0.13	ug/L	1	10/16/2017	10/18/2017 00:47	EPA 8082A	
Total PCBs	ND	0.038	0.25	ug/L	1	10/16/2017	10/18/2017 00:47	EPA 8082A	
Surrogate: Decachlorobiphenyl			*102 %*	*72.5-127*		*10/16/2017*	*10/18/2017 00:47*	*EPA 8082A*	
Surrogate: Tetrachloro-meta-xylene			*102 %*	*59.9-118*		*10/16/2017*	*10/18/2017 00:47*	*EPA 8082A*	
Volatile Organic Compounds by Method 8260 - Purge and Trap							**Preparation Batch:A710031**		
1,1,1,2-Tetrachloroethane	ND	0.55	2.5	ug/L	5	10/11/2017	10/11/2017 15:17	EPA 8260B	
1,1,1-Trichloroethane	ND	0.50	2.5	ug/L	5	10/11/2017	10/11/2017 15:17	EPA 8260B	
1,1,2,2-Tetrachloroethane	ND	0.50	2.5	ug/L	5	10/11/2017	10/11/2017 15:17	EPA 8260B	
1,1,2-Trichloroethane	ND	0.50	2.5	ug/L	5	10/11/2017	10/11/2017 15:17	EPA 8260B	
1,1,2-Trichlorotrifluoroethane	ND	0.65	2.5	ug/L	5	10/11/2017	10/11/2017 15:17	EPA 8260B	
1,1-Dichloroethane	ND	0.60	2.5	ug/L	5	10/11/2017	10/11/2017 15:17	EPA 8260B	
1,1-Dichloroethene	ND	0.70	2.5	ug/L	5	10/11/2017	10/11/2017 15:17	EPA 8260B	
1,1-Dichloropropene	ND	0.55	2.5	ug/L	5	10/11/2017	10/11/2017 15:17	EPA 8260B	
1,2,3-Trichlorobenzene	ND	0.23	10	ug/L	5	10/11/2017	10/11/2017 15:17	EPA 8260B	
1,2,3-Trichloropropane	ND	0.75	5.0	ug/L	5	10/11/2017	10/11/2017 15:17	EPA 8260B	
1,2,4-Trichlorobenzene	ND	0.39	10	ug/L	5	10/11/2017	10/11/2017 15:17	EPA 8260B	
1,2,4-Trimethylbenzene	ND	0.30	2.5	ug/L	5	10/11/2017	10/11/2017 15:17	EPA 8260B	
1,2-Dibromo-3-chloropropane	ND	1.3	2.5	ug/L	5	10/11/2017	10/11/2017 15:17	EPA 8260B	
1,2-Dibromoethane (EDB)	ND	0.65	2.5	ug/L	5	10/11/2017	10/11/2017 15:17	EPA 8260B	
1,2-Dichlorobenzene	ND	0.38	2.5	ug/L	5	10/11/2017	10/11/2017 15:17	EPA 8260B	
1,2-Dichloroethane	ND	0.39	2.5	ug/L	5	10/11/2017	10/11/2017 15:17	EPA 8260B	
1,2-Dichloropropane	ND	0.50	2.5	ug/L	5	10/11/2017	10/11/2017 15:17	EPA 8260B	
1,3,5-Trimethylbenzene	ND	0.38	2.5	ug/L	5	10/11/2017	10/11/2017 15:17	EPA 8260B	
1,3-Dichlorobenzene	ND	0.48	2.5	ug/L	5	10/11/2017	10/11/2017 15:17	EPA 8260B	
1,3-Dichloropropane	ND	0.55	2.5	ug/L	5	10/11/2017	10/11/2017 15:17	EPA 8260B	
1,4-Dichlorobenzene	ND	0.35	2.5	ug/L	5	10/11/2017	10/11/2017 15:17	EPA 8260B	
2,2-Dichloropropane	ND	0.70	2.5	ug/L	5	10/11/2017	10/11/2017 15:17	EPA 8260B	
2-Butanone	ND	15	100	ug/L	5	10/11/2017	10/11/2017 15:17	EPA 8260B	
2-Chlorotoluene	ND	0.38	2.5	ug/L	5	10/11/2017	10/11/2017 15:17	EPA 8260B	
2-Hexanone	ND	4.8	100	ug/L	5	10/11/2017	10/11/2017 15:17	EPA 8260B	
4-Chlorotoluene	ND	0.37	2.5	ug/L	5	10/11/2017	10/11/2017 15:17	EPA 8260B	
4-Methyl-2-pentanone	ND	3.9	100	ug/L	5	10/11/2017	10/11/2017 15:17	EPA 8260B	
Acetone	ND	17	100	ug/L	5	10/11/2017	10/11/2017 15:17	EPA 8260B	

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TRC Environmental Corporation, Inc.	Project: Madison Kipp Corp. Semi-Annual Sampling
708 Heartland Trail, Ste 3000	Project Number: 266431
Madison WI, 53717	Project Manager: Andrew Stehn

DUP-02

A174103-13 (Water)

Date Sampled
10/06/2017 00:00

Pace Analytical - Madison

Volatile Organic Compounds by Method 8260 - Purge and Trap — **Preparation Batch:A710031**

Analyte	Result	Limit of Detection	Limit of Quantitation	Units	Dilution	Prepared	Analyzed	Method	Qualifiers
Benzene	ND	0.45	2.5	ug/L	5	10/11/2017	10/11/2017 15:17	EPA 8260B	
Bromobenzene	ND	0.42	2.5	ug/L	5	10/11/2017	10/11/2017 15:17	EPA 8260B	
Bromochloromethane	ND	1.6	2.5	ug/L	5	10/11/2017	10/11/2017 15:17	EPA 8260B	
Bromodichloromethane	ND	0.39	2.5	ug/L	5	10/11/2017	10/11/2017 15:17	EPA 8260B	
Bromoform	ND	0.44	2.5	ug/L	5	10/11/2017	10/11/2017 15:17	EPA 8260B	
Bromomethane	ND	3.0	25	ug/L	5	10/11/2017	10/11/2017 15:17	EPA 8260B	
Carbon disulfide	ND	0.27	2.5	ug/L	5	10/11/2017	10/11/2017 15:17	EPA 8260B	
Carbon tetrachloride	ND	0.19	2.5	ug/L	5	10/11/2017	10/11/2017 15:17	EPA 8260B	
Chlorobenzene	ND	0.37	2.5	ug/L	5	10/11/2017	10/11/2017 15:17	EPA 8260B	
Chloroethane	ND	1.3	25	ug/L	5	10/11/2017	10/11/2017 15:17	EPA 8260B	
Chloroform	ND	0.31	2.5	ug/L	5	10/11/2017	10/11/2017 15:17	EPA 8260B	
Chloromethane	**2.7**	0.80	10	ug/L	5	10/11/2017	10/11/2017 15:17	EPA 8260B	J, D
cis-1,2-Dichloroethene	**33**	0.55	2.5	ug/L	5	10/11/2017	10/11/2017 15:17	EPA 8260B	D
cis-1,3-Dichloropropene	ND	0.31	2.5	ug/L	5	10/11/2017	10/11/2017 15:17	EPA 8260B	
Dibromochloromethane	ND	0.46	2.5	ug/L	5	10/11/2017	10/11/2017 15:17	EPA 8260B	
Dibromomethane	ND	0.70	2.5	ug/L	5	10/11/2017	10/11/2017 15:17	EPA 8260B	
Dichlorodifluoromethane	ND	0.55	2.5	ug/L	5	10/11/2017	10/11/2017 15:17	EPA 8260B	
Diisopropyl Ether	ND	0.75	2.5	ug/L	5	10/11/2017	10/11/2017 15:17	EPA 8260B	
Ethylbenzene	ND	0.27	2.5	ug/L	5	10/11/2017	10/11/2017 15:17	EPA 8260B	
Hexachlorobutadiene	ND	0.65	10	ug/L	5	10/11/2017	10/11/2017 15:17	EPA 8260B	
Isopropylbenzene	ND	0.41	2.5	ug/L	5	10/11/2017	10/11/2017 15:17	EPA 8260B	
m,p-Xylene	ND	0.29	5.0	ug/L	5	10/11/2017	10/11/2017 15:17	EPA 8260B	
Methyl t-Butyl Ether	ND	0.70	2.5	ug/L	5	10/11/2017	10/11/2017 15:17	EPA 8260B	
Methylene chloride	ND	0.70	10	ug/L	5	10/11/2017	10/11/2017 15:17	EPA 8260B	
Naphthalene	**0.45**	0.44	25	ug/L	5	10/11/2017	10/11/2017 15:17	EPA 8260B	B, J, D
n-Butyl Benzene	ND	0.70	2.5	ug/L	5	10/11/2017	10/11/2017 15:17	EPA 8260B	
n-Hexane	ND	1.1	2.5	ug/L	5	10/11/2017	10/11/2017 15:17	EPA 8260B	
n-Propyl Benzene	ND	0.50	2.5	ug/L	5	10/11/2017	10/11/2017 15:17	EPA 8260B	
o-Xylene	ND	0.29	2.5	ug/L	5	10/11/2017	10/11/2017 15:17	EPA 8260B	
p-Isopropyltoluene	ND	0.43	2.5	ug/L	5	10/11/2017	10/11/2017 15:17	EPA 8260B	
sec-Butyl Benzene	ND	0.65	2.5	ug/L	5	10/11/2017	10/11/2017 15:17	EPA 8260B	
Styrene	**0.35**	0.33	2.5	ug/L	5	10/11/2017	10/11/2017 15:17	EPA 8260B	B, J, D
tert-Butylbenzene	ND	0.60	2.5	ug/L	5	10/11/2017	10/11/2017 15:17	EPA 8260B	
Tetrachloroethene	**120**	0.41	2.5	ug/L	5	10/11/2017	10/11/2017 15:17	EPA 8260B	D, B
Tetrahydrofuran	ND	6.0	50	ug/L	5	10/11/2017	10/11/2017 15:17	EPA 8260B	
Toluene	ND	0.27	2.5	ug/L	5	10/11/2017	10/11/2017 15:17	EPA 8260B	
trans-1,2-Dichloroethene	ND	0.55	2.5	ug/L	5	10/11/2017	10/11/2017 15:17	EPA 8260B	
trans-1,3-Dichloropropene	ND	0.48	2.5	ug/L	5	10/11/2017	10/11/2017 15:17	EPA 8260B	
Trichloroethene	**7.6**	0.31	2.5	ug/L	5	10/11/2017	10/11/2017 15:17	EPA 8260B	D
Trichlorofluoromethane	ND	0.65	2.5	ug/L	5	10/11/2017	10/11/2017 15:17	EPA 8260B	

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708 Heartland Trail, Ste 3000	Project Number: 266431
Madison WI, 53717	Project Manager: Andrew Stehn

DUP-02

A174103-13 (Water)

Date Sampled
10/06/2017 00:00

Analyte	Result	Limit of Detection	Limit of Quantitation	Units	Dilution	Prepared	Analyzed	Method	Qualifiers
Pace Analytical - Madison									
Volatile Organic Compounds by Method 8260 - Purge and Trap						**Preparation Batch:A710031**			
Vinyl chloride	ND	0.80	2.5	ug/L	5	10/11/2017	10/11/2017 15:17	EPA 8260B	
Xylenes, total	ND	0.58	7.5	ug/L	5	10/11/2017	10/11/2017 15:17	EPA 8260B	
Surrogate: Dibromofluoromethane			*96.9 %*	*68.9-141*		*10/11/2017*	*10/11/2017 15:17*	*EPA 8260B*	
Surrogate: Toluene-d8			*96.3 %*	*73.3-114*		*10/11/2017*	*10/11/2017 15:17*	*EPA 8260B*	
Surrogate: 4-Bromofluorobenzene			*95.5 %*	*72.2-114*		*10/11/2017*	*10/11/2017 15:17*	*EPA 8260B*	
Pace Analytical-Green Bay, WI									
SM 2540C						**Preparation Batch:WET 29793**			
Total Dissolved Solids	**644**	8.7	20.0	mg/L	1	10/12/2017	10/12/2017 13:39	SM 2540C	
SM 2540D						**Preparation Batch:WET 29768**			
Total Suspended Solids	**18.0**	1.9	4.0	mg/L	1	10/11/2017	10/11/2017 12:37	SM 2540D	

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708 Heartland Trail, Ste 3000	Project Number: 266431
Madison WI, 53717	Project Manager: Andrew Stehn

DUP-03

A174103-14 (Water)

Date Sampled
10/06/2017 00:00

Pace Analytical - Madison

Analyte	Result	Limit of Detection	Limit of Quantitation	Units	Dilution	Prepared	Analyzed	Method	Qualifiers
Polychlorinated Biphenyls by EPA Method 8082							**Preparation Batch:A710057**		
PCB-1016	ND	0.035	0.13	ug/L	1	10/16/2017	10/18/2017 01:12	EPA 8082A	
PCB-1221	ND	0.020	0.25	ug/L	1	10/16/2017	10/18/2017 01:12	EPA 8082A	
PCB-1232	ND	0.037	0.13	ug/L	1	10/16/2017	10/18/2017 01:12	EPA 8082A	
PCB-1242	ND	0.038	0.13	ug/L	1	10/16/2017	10/18/2017 01:12	EPA 8082A	
PCB-1248	**1.9**	0.020	0.13	ug/L	1	10/16/2017	10/18/2017 01:12	EPA 8082A	
PCB-1254	ND	0.0090	0.13	ug/L	1	10/16/2017	10/18/2017 01:12	EPA 8082A	
PCB-1260	ND	0.025	0.13	ug/L	1	10/16/2017	10/18/2017 01:12	EPA 8082A	
Total PCBs	**1.9**	0.038	0.25	ug/L	1	10/16/2017	10/18/2017 01:12	EPA 8082A	
Surrogate: Decachlorobiphenyl			*95.2 %*	*72.5-127*		*10/16/2017*	*10/18/2017 01:12*	*EPA 8082A*	
Surrogate: Tetrachloro-meta-xylene			*89.9 %*	*59.9-118*		*10/16/2017*	*10/18/2017 01:12*	*EPA 8082A*	
Volatile Organic Compounds by Method 8260 - Purge and Trap							**Preparation Batch:A710031**		
1,1,1,2-Tetrachloroethane	ND	0.11	0.50	ug/L	1	10/11/2017	10/11/2017 15:45	EPA 8260B	
1,1,1-Trichloroethane	ND	0.10	0.50	ug/L	1	10/11/2017	10/11/2017 15:45	EPA 8260B	
1,1,2,2-Tetrachloroethane	ND	0.099	0.50	ug/L	1	10/11/2017	10/11/2017 15:45	EPA 8260B	
1,1,2-Trichloroethane	ND	0.10	0.50	ug/L	1	10/11/2017	10/11/2017 15:45	EPA 8260B	
1,1,2-Trichlorotrifluoroethane	ND	0.13	0.50	ug/L	1	10/11/2017	10/11/2017 15:45	EPA 8260B	
1,1-Dichloroethane	ND	0.12	0.50	ug/L	1	10/11/2017	10/11/2017 15:45	EPA 8260B	
1,1-Dichloroethene	**0.14**	0.14	0.50	ug/L	1	10/11/2017	10/11/2017 15:45	EPA 8260B	J
1,1-Dichloropropene	ND	0.11	0.50	ug/L	1	10/11/2017	10/11/2017 15:45	EPA 8260B	
1,2,3-Trichlorobenzene	ND	0.045	2.0	ug/L	1	10/11/2017	10/11/2017 15:45	EPA 8260B	
1,2,3-Trichloropropane	ND	0.15	1.0	ug/L	1	10/11/2017	10/11/2017 15:45	EPA 8260B	
1,2,4-Trichlorobenzene	ND	0.077	2.0	ug/L	1	10/11/2017	10/11/2017 15:45	EPA 8260B	
1,2,4-Trimethylbenzene	ND	0.060	0.50	ug/L	1	10/11/2017	10/11/2017 15:45	EPA 8260B	
1,2-Dibromo-3-chloropropane	ND	0.25	0.50	ug/L	1	10/11/2017	10/11/2017 15:45	EPA 8260B	
1,2-Dibromoethane (EDB)	ND	0.13	0.50	ug/L	1	10/11/2017	10/11/2017 15:45	EPA 8260B	
1,2-Dichlorobenzene	**0.11**	0.076	0.50	ug/L	1	10/11/2017	10/11/2017 15:45	EPA 8260B	J
1,2-Dichloroethane	ND	0.078	0.50	ug/L	1	10/11/2017	10/11/2017 15:45	EPA 8260B	
1,2-Dichloropropane	ND	0.10	0.50	ug/L	1	10/11/2017	10/11/2017 15:45	EPA 8260B	
1,3,5-Trimethylbenzene	ND	0.075	0.50	ug/L	1	10/11/2017	10/11/2017 15:45	EPA 8260B	
1,3-Dichlorobenzene	ND	0.096	0.50	ug/L	1	10/11/2017	10/11/2017 15:45	EPA 8260B	
1,3-Dichloropropane	ND	0.11	0.50	ug/L	1	10/11/2017	10/11/2017 15:45	EPA 8260B	
1,4-Dichlorobenzene	ND	0.070	0.50	ug/L	1	10/11/2017	10/11/2017 15:45	EPA 8260B	
2,2-Dichloropropane	ND	0.14	0.50	ug/L	1	10/11/2017	10/11/2017 15:45	EPA 8260B	
2-Butanone	ND	3.0	20	ug/L	1	10/11/2017	10/11/2017 15:45	EPA 8260B	
2-Chlorotoluene	ND	0.075	0.50	ug/L	1	10/11/2017	10/11/2017 15:45	EPA 8260B	
2-Hexanone	ND	0.95	20	ug/L	1	10/11/2017	10/11/2017 15:45	EPA 8260B	
4-Chlorotoluene	ND	0.073	0.50	ug/L	1	10/11/2017	10/11/2017 15:45	EPA 8260B	
4-Methyl-2-pentanone	ND	0.77	20	ug/L	1	10/11/2017	10/11/2017 15:45	EPA 8260B	
Acetone	**11**	3.4	20	ug/L	1	10/11/2017	10/11/2017 15:45	EPA 8260B	J

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Madison WI, 53717	Project Manager: Andrew Stehn

DUP-03

A174103-14 (Water)

Date Sampled
10/06/2017 00:00

Pace Analytical - Madison

Volatile Organic Compounds by Method 8260 - Purge and Trap — **Preparation Batch:A710031**

Analyte	Result	Limit of Detection	Limit of Quantitation	Units	Dilution	Prepared	Analyzed	Method	Qualifiers
Benzene	ND	0.089	0.50	ug/L	1	10/11/2017	10/11/2017 15:45	EPA 8260B	
Bromobenzene	ND	0.084	0.50	ug/L	1	10/11/2017	10/11/2017 15:45	EPA 8260B	
Bromochloromethane	ND	0.31	0.50	ug/L	1	10/11/2017	10/11/2017 15:45	EPA 8260B	
Bromodichloromethane	ND	0.077	0.50	ug/L	1	10/11/2017	10/11/2017 15:45	EPA 8260B	
Bromoform	ND	0.088	0.50	ug/L	1	10/11/2017	10/11/2017 15:45	EPA 8260B	
Bromomethane	ND	0.59	5.0	ug/L	1	10/11/2017	10/11/2017 15:45	EPA 8260B	
Carbon disulfide	ND	0.053	0.50	ug/L	1	10/11/2017	10/11/2017 15:45	EPA 8260B	
Carbon tetrachloride	ND	0.038	0.50	ug/L	1	10/11/2017	10/11/2017 15:45	EPA 8260B	
Chlorobenzene	ND	0.073	0.50	ug/L	1	10/11/2017	10/11/2017 15:45	EPA 8260B	
Chloroethane	ND	0.25	5.0	ug/L	1	10/11/2017	10/11/2017 15:45	EPA 8260B	
Chloroform	**0.49**	0.062	0.50	ug/L	1	10/11/2017	10/11/2017 15:45	EPA 8260B	J
Chloromethane	**5.2**	0.16	2.0	ug/L	1	10/11/2017	10/11/2017 15:45	EPA 8260B	
cis-1,2-Dichloroethene	**37**	0.11	0.50	ug/L	1	10/11/2017	10/11/2017 15:45	EPA 8260B	
cis-1,3-Dichloropropene	ND	0.061	0.50	ug/L	1	10/11/2017	10/11/2017 15:45	EPA 8260B	
Dibromochloromethane	ND	0.091	0.50	ug/L	1	10/11/2017	10/11/2017 15:45	EPA 8260B	
Dibromomethane	ND	0.14	0.50	ug/L	1	10/11/2017	10/11/2017 15:45	EPA 8260B	
Dichlorodifluoromethane	ND	0.11	0.50	ug/L	1	10/11/2017	10/11/2017 15:45	EPA 8260B	
Diisopropyl Ether	ND	0.15	0.50	ug/L	1	10/11/2017	10/11/2017 15:45	EPA 8260B	
Ethylbenzene	ND	0.054	0.50	ug/L	1	10/11/2017	10/11/2017 15:45	EPA 8260B	
Hexachlorobutadiene	ND	0.13	2.0	ug/L	1	10/11/2017	10/11/2017 15:45	EPA 8260B	
Isopropylbenzene	ND	0.081	0.50	ug/L	1	10/11/2017	10/11/2017 15:45	EPA 8260B	
m,p-Xylene	ND	0.057	1.0	ug/L	1	10/11/2017	10/11/2017 15:45	EPA 8260B	
Methyl t-Butyl Ether	ND	0.14	0.50	ug/L	1	10/11/2017	10/11/2017 15:45	EPA 8260B	
Methylene chloride	ND	0.14	2.0	ug/L	1	10/11/2017	10/11/2017 15:45	EPA 8260B	
Naphthalene	ND	0.088	5.0	ug/L	1	10/11/2017	10/11/2017 15:45	EPA 8260B	
n-Butyl Benzene	ND	0.14	0.50	ug/L	1	10/11/2017	10/11/2017 15:45	EPA 8260B	
n-Hexane	ND	0.21	0.50	ug/L	1	10/11/2017	10/11/2017 15:45	EPA 8260B	
n-Propyl Benzene	ND	0.10	0.50	ug/L	1	10/11/2017	10/11/2017 15:45	EPA 8260B	
o-Xylene	ND	0.058	0.50	ug/L	1	10/11/2017	10/11/2017 15:45	EPA 8260B	
p-Isopropyltoluene	ND	0.085	0.50	ug/L	1	10/11/2017	10/11/2017 15:45	EPA 8260B	
sec-Butyl Benzene	ND	0.13	0.50	ug/L	1	10/11/2017	10/11/2017 15:45	EPA 8260B	
Styrene	ND	0.065	0.50	ug/L	1	10/11/2017	10/11/2017 15:45	EPA 8260B	
tert-Butylbenzene	ND	0.12	0.50	ug/L	1	10/11/2017	10/11/2017 15:45	EPA 8260B	
Tetrachloroethene	**23**	0.081	0.50	ug/L	1	10/11/2017	10/11/2017 15:45	EPA 8260B	B
Tetrahydrofuran	ND	1.2	10	ug/L	1	10/11/2017	10/11/2017 15:45	EPA 8260B	
Toluene	ND	0.053	0.50	ug/L	1	10/11/2017	10/11/2017 15:45	EPA 8260B	
trans-1,2-Dichloroethene	**0.46**	0.11	0.50	ug/L	1	10/11/2017	10/11/2017 15:45	EPA 8260B	J
trans-1,3-Dichloropropene	ND	0.096	0.50	ug/L	1	10/11/2017	10/11/2017 15:45	EPA 8260B	
Trichloroethene	**9.1**	0.062	0.50	ug/L	1	10/11/2017	10/11/2017 15:45	EPA 8260B	
Trichlorofluoromethane	ND	0.13	0.50	ug/L	1	10/11/2017	10/11/2017 15:45	EPA 8260B	

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708 Heartland Trail, Ste 3000	Project Number: 266431
Madison WI, 53717	Project Manager: Andrew Stehn

DUP-03

A174103-14 (Water)

Date Sampled
10/06/2017 00:00

Analyte	Result	Limit of Detection	Limit of Quantitation	Units	Dilution	Prepared	Analyzed	Method	Qualifiers
Pace Analytical - Madison									
Volatile Organic Compounds by Method 8260 - Purge and Trap							**Preparation Batch:A710031**		
Vinyl chloride	**0.80**	0.16	0.50	ug/L	1	10/11/2017	10/11/2017 15:45	EPA 8260B	
Xylenes, total	ND	0.12	1.5	ug/L	1	10/11/2017	10/11/2017 15:45	EPA 8260B	
Surrogate: Dibromofluoromethane			*102 %*	*68.9-141*		*10/11/2017*	*10/11/2017 15:45*	*EPA 8260B*	
Surrogate: Toluene-d8			*100 %*	*73.3-114*		*10/11/2017*	*10/11/2017 15:45*	*EPA 8260B*	
Surrogate: 4-Bromofluorobenzene			*97.9 %*	*72.2-114*		*10/11/2017*	*10/11/2017 15:45*	*EPA 8260B*	
Pace Analytical-Green Bay, WI									
SM 2540C							**Preparation Batch:WET 29793**		
Total Dissolved Solids	**838**	8.7	20.0	mg/L	1	10/12/2017	10/12/2017 13:40	SM 2540C	
SM 2540D							**Preparation Batch:WET 29768**		
Total Suspended Solids	ND	0.95	2.0	mg/L	1	10/11/2017	10/11/2017 12:37	SM 2540D	

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708 Heartland Trail, Ste 3000	Project Number: 266431
Madison WI, 53717	Project Manager: Andrew Stehn

DUP-04

A174103-15 (Water)

Date Sampled
10/06/2017 00:00

Pace Analytical - Madison

Analyte	Result	Limit of Detection	Limit of Quantitation	Units	Dilution	Prepared	Analyzed	Method	Qualifiers
Polychlorinated Biphenyls by EPA Method 8082							**Preparation Batch:A710057**		
PCB-1016	ND	0.035	0.13	ug/L	1	10/16/2017	10/18/2017 03:17	EPA 8082A	
PCB-1221	ND	0.020	0.25	ug/L	1	10/16/2017	10/18/2017 03:17	EPA 8082A	
PCB-1232	ND	0.037	0.13	ug/L	1	10/16/2017	10/18/2017 03:17	EPA 8082A	
PCB-1242	ND	0.038	0.13	ug/L	1	10/16/2017	10/18/2017 03:17	EPA 8082A	
PCB-1248	**0.31**	0.020	0.13	ug/L	1	10/16/2017	10/18/2017 03:17	EPA 8082A	
PCB-1254	ND	0.0090	0.13	ug/L	1	10/16/2017	10/18/2017 03:17	EPA 8082A	
PCB-1260	ND	0.025	0.13	ug/L	1	10/16/2017	10/18/2017 03:17	EPA 8082A	
Total PCBs	**0.31**	0.038	0.25	ug/L	1	10/16/2017	10/18/2017 03:17	EPA 8082A	
Surrogate: Decachlorobiphenyl			*113 %*	*72.5-127*		*10/16/2017*	*10/18/2017 03:17*	*EPA 8082A*	
Surrogate: Tetrachloro-meta-xylene			*107 %*	*59.9-118*		*10/16/2017*	*10/18/2017 03:17*	*EPA 8082A*	
Volatile Organic Compounds by Method 8260 - Purge and Trap							**Preparation Batch:A710031**		
1,1,1,2-Tetrachloroethane	ND	0.55	2.5	ug/L	5	10/11/2017	10/11/2017 16:13	EPA 8260B	
1,1,1-Trichloroethane	ND	0.50	2.5	ug/L	5	10/11/2017	10/11/2017 16:13	EPA 8260B	
1,1,2,2-Tetrachloroethane	ND	0.50	2.5	ug/L	5	10/11/2017	10/11/2017 16:13	EPA 8260B	
1,1,2-Trichloroethane	ND	0.50	2.5	ug/L	5	10/11/2017	10/11/2017 16:13	EPA 8260B	
1,1,2-Trichlorotrifluoroethane	ND	0.65	2.5	ug/L	5	10/11/2017	10/11/2017 16:13	EPA 8260B	
1,1-Dichloroethane	ND	0.60	2.5	ug/L	5	10/11/2017	10/11/2017 16:13	EPA 8260B	
1,1-Dichloroethene	ND	0.70	2.5	ug/L	5	10/11/2017	10/11/2017 16:13	EPA 8260B	
1,1-Dichloropropene	ND	0.55	2.5	ug/L	5	10/11/2017	10/11/2017 16:13	EPA 8260B	
1,2,3-Trichlorobenzene	ND	0.23	10	ug/L	5	10/11/2017	10/11/2017 16:13	EPA 8260B	
1,2,3-Trichloropropane	ND	0.75	5.0	ug/L	5	10/11/2017	10/11/2017 16:13	EPA 8260B	
1,2,4-Trichlorobenzene	ND	0.39	10	ug/L	5	10/11/2017	10/11/2017 16:13	EPA 8260B	
1,2,4-Trimethylbenzene	ND	0.30	2.5	ug/L	5	10/11/2017	10/11/2017 16:13	EPA 8260B	
1,2-Dibromo-3-chloropropane	ND	1.3	2.5	ug/L	5	10/11/2017	10/11/2017 16:13	EPA 8260B	
1,2-Dibromoethane (EDB)	ND	0.65	2.5	ug/L	5	10/11/2017	10/11/2017 16:13	EPA 8260B	
1,2-Dichlorobenzene	ND	0.38	2.5	ug/L	5	10/11/2017	10/11/2017 16:13	EPA 8260B	
1,2-Dichloroethane	ND	0.39	2.5	ug/L	5	10/11/2017	10/11/2017 16:13	EPA 8260B	
1,2-Dichloropropane	ND	0.50	2.5	ug/L	5	10/11/2017	10/11/2017 16:13	EPA 8260B	
1,3,5-Trimethylbenzene	ND	0.38	2.5	ug/L	5	10/11/2017	10/11/2017 16:13	EPA 8260B	
1,3-Dichlorobenzene	ND	0.48	2.5	ug/L	5	10/11/2017	10/11/2017 16:13	EPA 8260B	
1,3-Dichloropropane	ND	0.55	2.5	ug/L	5	10/11/2017	10/11/2017 16:13	EPA 8260B	
1,4-Dichlorobenzene	ND	0.35	2.5	ug/L	5	10/11/2017	10/11/2017 16:13	EPA 8260B	
2,2-Dichloropropane	ND	0.70	2.5	ug/L	5	10/11/2017	10/11/2017 16:13	EPA 8260B	
2-Butanone	ND	15	100	ug/L	5	10/11/2017	10/11/2017 16:13	EPA 8260B	
2-Chlorotoluene	ND	0.38	2.5	ug/L	5	10/11/2017	10/11/2017 16:13	EPA 8260B	
2-Hexanone	ND	4.8	100	ug/L	5	10/11/2017	10/11/2017 16:13	EPA 8260B	
4-Chlorotoluene	ND	0.37	2.5	ug/L	5	10/11/2017	10/11/2017 16:13	EPA 8260B	
4-Methyl-2-pentanone	ND	3.9	100	ug/L	5	10/11/2017	10/11/2017 16:13	EPA 8260B	
Acetone	ND	17	100	ug/L	5	10/11/2017	10/11/2017 16:13	EPA 8260B	

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708 Heartland Trail, Ste 3000	Project Number: 266431
Madison WI, 53717	Project Manager: Andrew Stehn

DUP-04

A174103-15 (Water)

Date Sampled
10/06/2017 00:00

Pace Analytical - Madison

Volatile Organic Compounds by Method 8260 - Purge and Trap — **Preparation Batch:A710031**

Analyte	Result	Limit of Detection	Limit of Quantitation	Units	Dilution	Prepared	Analyzed	Method	Qualifiers
Benzene	ND	0.45	2.5	ug/L	5	10/11/2017	10/11/2017 16:13	EPA 8260B	
Bromobenzene	ND	0.42	2.5	ug/L	5	10/11/2017	10/11/2017 16:13	EPA 8260B	
Bromochloromethane	ND	1.6	2.5	ug/L	5	10/11/2017	10/11/2017 16:13	EPA 8260B	
Bromodichloromethane	ND	0.39	2.5	ug/L	5	10/11/2017	10/11/2017 16:13	EPA 8260B	
Bromoform	ND	0.44	2.5	ug/L	5	10/11/2017	10/11/2017 16:13	EPA 8260B	
Bromomethane	ND	3.0	25	ug/L	5	10/11/2017	10/11/2017 16:13	EPA 8260B	
Carbon disulfide	ND	0.27	2.5	ug/L	5	10/11/2017	10/11/2017 16:13	EPA 8260B	
Carbon tetrachloride	ND	0.19	2.5	ug/L	5	10/11/2017	10/11/2017 16:13	EPA 8260B	
Chlorobenzene	ND	0.37	2.5	ug/L	5	10/11/2017	10/11/2017 16:13	EPA 8260B	
Chloroethane	ND	1.3	25	ug/L	5	10/11/2017	10/11/2017 16:13	EPA 8260B	
Chloroform	ND	0.31	2.5	ug/L	5	10/11/2017	10/11/2017 16:13	EPA 8260B	
Chloromethane	**4.9**	0.80	10	ug/L	5	10/11/2017	10/11/2017 16:13	EPA 8260B	J, D
cis-1,2-Dichloroethene	**47**	0.55	2.5	ug/L	5	10/11/2017	10/11/2017 16:13	EPA 8260B	D
cis-1,3-Dichloropropene	ND	0.31	2.5	ug/L	5	10/11/2017	10/11/2017 16:13	EPA 8260B	
Dibromochloromethane	ND	0.46	2.5	ug/L	5	10/11/2017	10/11/2017 16:13	EPA 8260B	
Dibromomethane	ND	0.70	2.5	ug/L	5	10/11/2017	10/11/2017 16:13	EPA 8260B	
Dichlorodifluoromethane	ND	0.55	2.5	ug/L	5	10/11/2017	10/11/2017 16:13	EPA 8260B	
Diisopropyl Ether	ND	0.75	2.5	ug/L	5	10/11/2017	10/11/2017 16:13	EPA 8260B	
Ethylbenzene	ND	0.27	2.5	ug/L	5	10/11/2017	10/11/2017 16:13	EPA 8260B	
Hexachlorobutadiene	ND	0.65	10	ug/L	5	10/11/2017	10/11/2017 16:13	EPA 8260B	
Isopropylbenzene	ND	0.41	2.5	ug/L	5	10/11/2017	10/11/2017 16:13	EPA 8260B	
m,p-Xylene	ND	0.29	5.0	ug/L	5	10/11/2017	10/11/2017 16:13	EPA 8260B	
Methyl t-Butyl Ether	ND	0.70	2.5	ug/L	5	10/11/2017	10/11/2017 16:13	EPA 8260B	
Methylene chloride	ND	0.70	10	ug/L	5	10/11/2017	10/11/2017 16:13	EPA 8260B	
Naphthalene	ND	0.44	25	ug/L	5	10/11/2017	10/11/2017 16:13	EPA 8260B	
n-Butyl Benzene	ND	0.70	2.5	ug/L	5	10/11/2017	10/11/2017 16:13	EPA 8260B	
n-Hexane	ND	1.1	2.5	ug/L	5	10/11/2017	10/11/2017 16:13	EPA 8260B	
n-Propyl Benzene	ND	0.50	2.5	ug/L	5	10/11/2017	10/11/2017 16:13	EPA 8260B	
o-Xylene	ND	0.29	2.5	ug/L	5	10/11/2017	10/11/2017 16:13	EPA 8260B	
p-Isopropyltoluene	ND	0.43	2.5	ug/L	5	10/11/2017	10/11/2017 16:13	EPA 8260B	
sec-Butyl Benzene	ND	0.65	2.5	ug/L	5	10/11/2017	10/11/2017 16:13	EPA 8260B	
Styrene	**0.35**	0.33	2.5	ug/L	5	10/11/2017	10/11/2017 16:13	EPA 8260B	B, J, D
tert-Butylbenzene	ND	0.60	2.5	ug/L	5	10/11/2017	10/11/2017 16:13	EPA 8260B	
Tetrachloroethene	**120**	0.41	2.5	ug/L	5	10/11/2017	10/11/2017 16:13	EPA 8260B	D, B
Tetrahydrofuran	ND	6.0	50	ug/L	5	10/11/2017	10/11/2017 16:13	EPA 8260B	
Toluene	ND	0.27	2.5	ug/L	5	10/11/2017	10/11/2017 16:13	EPA 8260B	
trans-1,2-Dichloroethene	**2.5**	0.55	2.5	ug/L	5	10/11/2017	10/11/2017 16:13	EPA 8260B	D
trans-1,3-Dichloropropene	ND	0.48	2.5	ug/L	5	10/11/2017	10/11/2017 16:13	EPA 8260B	
Trichloroethene	**9.4**	0.31	2.5	ug/L	5	10/11/2017	10/11/2017 16:13	EPA 8260B	D
Trichlorofluoromethane	ND	0.65	2.5	ug/L	5	10/11/2017	10/11/2017 16:13	EPA 8260B	

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708 Heartland Trail, Ste 3000	Project Number: 266431
Madison WI, 53717	Project Manager: Andrew Stehn

DUP-04

A174103-15 (Water)

Date Sampled
10/06/2017 00:00

Analyte	Result	Limit of Detection	Limit of Quantitation	Units	Dilution	Prepared	Analyzed	Method	Qualifiers
Pace Analytical - Madison									
Volatile Organic Compounds by Method 8260 - Purge and Trap						**Preparation Batch:A710031**			
Vinyl chloride	**11**	0.80	2.5	ug/L	5	10/11/2017	10/11/2017 16:13	EPA 8260B	D
Xylenes, total	ND	0.58	7.5	ug/L	5	10/11/2017	10/11/2017 16:13	EPA 8260B	
Surrogate: Dibromofluoromethane			*99.9 %*	*68.9-141*		*10/11/2017*	*10/11/2017 16:13*	*EPA 8260B*	
Surrogate: Toluene-d8			*97.4 %*	*73.3-114*		*10/11/2017*	*10/11/2017 16:13*	*EPA 8260B*	
Surrogate: 4-Bromofluorobenzene			*98.9 %*	*72.2-114*		*10/11/2017*	*10/11/2017 16:13*	*EPA 8260B*	
Pace Analytical-Green Bay, WI									
SM 2540C						**Preparation Batch:WET 29793**			
Total Dissolved Solids	**890**	8.7	20.0	mg/L	1	10/12/2017	10/12/2017 13:40	SM 2540C	
SM 2540D						**Preparation Batch:WET 29768**			
Total Suspended Solids	ND	0.95	2.0	mg/L	1	10/11/2017	10/11/2017 12:37	SM 2540D	

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Polychlorinated Biphenyls by EPA Method 8082 - Quality Control

Pace Analytical - Madison

Analyte	Result	Limit of Quantitation	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch A710057 - EPA 3511										
Blank (A710057-BLK1)				Prepared: 10/16/2017 Analyzed: 10/17/2017 21:53						
PCB-1016	ND	0.13	ug/L							
PCB-1221	ND	0.25	ug/L							
PCB-1232	ND	0.13	ug/L							
PCB-1242	ND	0.13	ug/L							
PCB-1248	ND	0.13	ug/L							
PCB-1254	ND	0.13	ug/L							
PCB-1260	ND	0.13	ug/L							
Total PCBs	ND	0.25	ug/L							
Surrogate: Decachlorobiphenyl	*0.921*		*ug/L*	*0.7500*		*123*	*72.5-127*			
Surrogate: Tetrachloro-meta-xylene	*0.766*		*ug/L*	*0.7500*		*102*	*59.9-118*			
LCS (A710057-BS1)				Prepared: 10/16/2017 Analyzed: 10/17/2017 21:28						
PCB-1016	15.1	0.13	ug/L	12.50		121	70-130			
PCB-1260	16.2	0.13	ug/L	12.50		130	70-130			
Surrogate: Decachlorobiphenyl	*0.950*		*ug/L*	*0.7500*		*127*	*72.5-127*			
Surrogate: Tetrachloro-meta-xylene	*0.818*		*ug/L*	*0.7500*		*109*	*59.9-118*			
Matrix Spike (A710057-MS1)	**Source: A174110-01**			Prepared: 10/16/2017 Analyzed: 10/18/2017 06:36						
PCB-1016	15.7	0.13	ug/L	12.50	ND	125	60-140			
PCB-1260	16.4	0.13	ug/L	12.50	ND	131	60-140			
Surrogate: Decachlorobiphenyl	*0.968*		*ug/L*	*0.7500*		*129*	*72.5-127*			*S*
Surrogate: Tetrachloro-meta-xylene	*0.844*		*ug/L*	*0.7500*		*113*	*59.9-118*			
Matrix Spike Dup (A710057-MSD1)	**Source: A174110-01**			Prepared: 10/16/2017 Analyzed: 10/18/2017 07:01						
PCB-1016	15.2	0.13	ug/L	12.50	ND	122	60-140	2.72	20	
PCB-1260	15.9	0.13	ug/L	12.50	ND	127	60-140	3.09	20	
Surrogate: Decachlorobiphenyl	*0.918*		*ug/L*	*0.7500*		*122*	*72.5-127*			
Surrogate: Tetrachloro-meta-xylene	*0.856*		*ug/L*	*0.7500*		*114*	*59.9-118*			

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708 Heartland Trail, Ste 3000	Project Number: 266431
Madison WI, 53717	Project Manager: Andrew Stehn

Volatile Organic Compounds by Method 8260 - Purge and Trap - Quality Control

Pace Analytical - Madison

Analyte	Result	Limit of Quantitation	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch A710031 - EPA 5030B										
Blank (A710031-BLK1)			Prepared: 10/11/2017 Analyzed: 10/11/2017 08:46							
1,1,1,2-Tetrachloroethane	ND	0.50	ug/L							
1,1,1-Trichloroethane	ND	0.50	ug/L							
1,1,2,2-Tetrachloroethane	ND	0.50	ug/L							
1,1,2-Trichloroethane	ND	0.50	ug/L							
1,1,2-Trichlorotrifluoroethane	ND	0.50	ug/L							
1,1-Dichloroethane	ND	0.50	ug/L							
1,1-Dichloroethene	ND	0.50	ug/L							
1,1-Dichloropropene	ND	0.50	ug/L							
1,2,3-Trichlorobenzene	0.10	2.0	ug/L							J
1,2,3-Trichloropropane	ND	1.0	ug/L							
1,2,4-Trichlorobenzene	0.10	2.0	ug/L							J
1,2,4-Trimethylbenzene	ND	0.50	ug/L							
1,2-Dibromo-3-chloropropane	ND	0.50	ug/L							
1,2-Dibromoethane (EDB)	ND	0.50	ug/L							
1,2-Dichlorobenzene	ND	0.50	ug/L							
1,2-Dichloroethane	ND	0.50	ug/L							
1,2-Dichloropropane	ND	0.50	ug/L							
1,3,5-Trimethylbenzene	ND	0.50	ug/L							
1,3-Dichlorobenzene	ND	0.50	ug/L							
1,3-Dichloropropane	ND	0.50	ug/L							
1,4-Dichlorobenzene	ND	0.50	ug/L							
2,2-Dichloropropane	ND	0.50	ug/L							
2-Butanone	ND	20	ug/L							
2-Chlorotoluene	ND	0.50	ug/L							
2-Hexanone	ND	20	ug/L							
4-Chlorotoluene	ND	0.50	ug/L							
4-Methyl-2-pentanone	ND	20	ug/L							
Acetone	ND	20	ug/L							
Benzene	ND	0.50	ug/L							
Bromobenzene	ND	0.50	ug/L							
Bromochloromethane	ND	0.50	ug/L							
Bromodichloromethane	ND	0.50	ug/L							
Bromoform	ND	0.50	ug/L							
Bromomethane	ND	5.0	ug/L							
Carbon disulfide	ND	0.50	ug/L							
Carbon tetrachloride	ND	0.50	ug/L							
Chlorobenzene	ND	0.50	ug/L							
Chloroethane	ND	5.0	ug/L							
Chloroform	ND	0.50	ug/L							
Chloromethane	ND	2.0	ug/L							
cis-1,2-Dichloroethene	ND	0.50	ug/L							
cis-1,3-Dichloropropene	ND	0.50	ug/L							
Dibromochloromethane	ND	0.50	ug/L							
Dibromomethane	ND	0.50	ug/L							

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TRC Environmental Corporation, Inc.	Project: Madison Kipp Corp. Semi-Annual Sampling
708 Heartland Trail, Ste 3000	Project Number: 266431
Madison WI, 53717	Project Manager: Andrew Stehn

Volatile Organic Compounds by Method 8260 - Purge and Trap - Quality Control

Pace Analytical - Madison

Analyte	Result	Limit of Quantitation	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch A710031 - EPA 5030B										
Blank (A710031-BLK1)				Prepared: 10/11/2017 Analyzed: 10/11/2017 08:46						
Dichlorodifluoromethane	ND	0.50	ug/L							
Diisopropyl Ether	ND	0.50	ug/L							
Ethylbenzene	ND	0.50	ug/L							
Hexachlorobutadiene	ND	2.0	ug/L							
Isopropylbenzene	ND	0.50	ug/L							
m,p-Xylene	ND	1.0	ug/L							
Methyl t-Butyl Ether	ND	0.50	ug/L							
Methylene chloride	ND	2.0	ug/L							
Naphthalene	0.61	5.0	ug/L							J
n-Butyl Benzene	ND	0.50	ug/L							
n-Hexane	ND	0.50	ug/L							
n-Propyl Benzene	ND	0.50	ug/L							
o-Xylene	ND	0.50	ug/L							
p-Isopropyltoluene	ND	0.50	ug/L							
sec-Butyl Benzene	ND	0.50	ug/L							
Styrene	0.070	0.50	ug/L							J
tert-Butylbenzene	ND	0.50	ug/L							
Tetrachloroethene	0.16	0.50	ug/L							J
Tetrahydrofuran	ND	10	ug/L							
Toluene	ND	0.50	ug/L							
trans-1,2-Dichloroethene	ND	0.50	ug/L							
trans-1,3-Dichloropropene	ND	0.50	ug/L							
Trichloroethene	ND	0.50	ug/L							
Trichlorofluoromethane	ND	0.50	ug/L							
Vinyl chloride	ND	0.50	ug/L							
Xylenes, total	ND	1.5	ug/L							
Surrogate: Dibromofluoromethane	*9.77*		*ug/L*	*10.00*		*97.7*	*68.9-141*			
Surrogate: Toluene-d8	*9.82*		*ug/L*	*10.00*		*98.2*	*73.3-114*			
Surrogate: 4-Bromofluorobenzene	*9.59*		*ug/L*	*10.00*		*95.9*	*72.2-114*			
LCS (A710031-BS1)				Prepared: 10/11/2017 Analyzed: 10/11/2017 08:18						
1,1,1,2-Tetrachloroethane	4.90	0.50	ug/L	5.000		98.0	75.8-136			
1,1,1-Trichloroethane	5.15	0.50	ug/L	5.000		103	66.1-164			
1,1,2,2-Tetrachloroethane	4.73	0.50	ug/L	5.000		94.6	61.8-138			
1,1,2-Trichloroethane	4.93	0.50	ug/L	5.000		98.6	76.7-127			
1,1,2-Trichlorotrifluoroethane	5.24	0.50	ug/L	5.000		105	55.6-199			
1,1-Dichloroethane	5.09	0.50	ug/L	5.000		102	69.1-153			
1,1-Dichloroethene	4.90	0.50	ug/L	5.000		98.0	51.2-180			
1,1-Dichloropropene	5.32	0.50	ug/L	5.000		106	77.3-125			
1,2,3-Trichlorobenzene	4.60	2.0	ug/L	5.000		92.0	74-122			B
1,2,3-Trichloropropane	4.79	1.0	ug/L	5.000		95.8	69.8-140			
1,2,4-Trichlorobenzene	4.66	2.0	ug/L	5.000		93.2	73.3-120			B
1,2,4-Trimethylbenzene	4.90	0.50	ug/L	5.000		98.0	86.6-121			
1,2-Dibromo-3-chloropropane	4.81	0.50	ug/L	5.000		96.2	42.9-137			

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708 Heartland Trail, Ste 3000	Project Number: 266431
Madison WI, 53717	Project Manager: Andrew Stehn

Volatile Organic Compounds by Method 8260 - Purge and Trap - Quality Control

Pace Analytical - Madison

Analyte	Result	Limit of Quantitation	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch A710031 - EPA 5030B										
LCS (A710031-BS1)				Prepared: 10/11/2017 Analyzed: 10/11/2017 08:18						
1,2-Dibromoethane (EDB)	4.96	0.50	ug/L	5.000		99.2	75.2-124			
1,2-Dichlorobenzene	4.77	0.50	ug/L	5.000		95.4	88.3-115			
1,2-Dichloroethane	5.23	0.50	ug/L	5.000		105	69.2-160			
1,2-Dichloropropane	4.99	0.50	ug/L	5.000		99.8	73.1-128			
1,3,5-Trimethylbenzene	4.91	0.50	ug/L	5.000		98.2	87.3-122			
1,3-Dichlorobenzene	4.68	0.50	ug/L	5.000		93.6	90.7-114			
1,3-Dichloropropane	4.84	0.50	ug/L	5.000		96.8	76.8-125			
1,4-Dichlorobenzene	4.66	0.50	ug/L	5.000		93.2	88.9-112			
2,2-Dichloropropane	4.91	0.50	ug/L	5.000		98.2	70.2-147			
2-Butanone	47.6	20	ug/L	50.00		95.3	39.5-160			
2-Chlorotoluene	4.86	0.50	ug/L	5.000		97.2	87.3-118			
2-Hexanone	48.4	20	ug/L	50.00		96.8	30.4-168			
4-Chlorotoluene	4.81	0.50	ug/L	5.000		96.2	87.6-120			
4-Methyl-2-pentanone	49.5	20	ug/L	50.00		99.1	38.8-166			
Acetone	50.2	20	ug/L	50.00		100	30.1-197			
Benzene	4.91	0.50	ug/L	5.000		98.2	68.2-135			
Bromobenzene	4.73	0.50	ug/L	5.000		94.6	84.4-112			
Bromochloromethane	4.96	0.50	ug/L	5.000		99.2	76.7-138			
Bromodichloromethane	5.05	0.50	ug/L	5.000		101	77.2-140			
Bromoform	4.94	0.50	ug/L	5.000		98.8	60-142			
Bromomethane	5.20	5.0	ug/L	5.000		104	52.3-196			
Carbon disulfide	5.11	0.50	ug/L	5.000		102	20.2-197			
Carbon tetrachloride	4.97	0.50	ug/L	5.000		99.4	61.2-157			
Chlorobenzene	4.80	0.50	ug/L	5.000		96.0	88.7-113			
Chloroethane	4.98	5.0	ug/L	5.000		99.6	43.1-196			J
Chloroform	4.92	0.50	ug/L	5.000		98.4	68.7-161			
Chloromethane	4.67	2.0	ug/L	5.000		93.4	37.7-187			
cis-1,2-Dichloroethene	4.84	0.50	ug/L	5.000		96.8	76.1-127			
cis-1,3-Dichloropropene	4.95	0.50	ug/L	5.000		99.0	65.5-122			
Dibromochloromethane	5.07	0.50	ug/L	5.000		101	74.8-135			
Dibromomethane	5.02	0.50	ug/L	5.000		100	75-140			
Dichlorodifluoromethane	5.06	0.50	ug/L	5.000		101	68.8-164			
Diisopropyl Ether	5.15	0.50	ug/L	5.000		103	62.1-134			
Ethylbenzene	4.97	0.50	ug/L	5.000		99.4	86-119			
Hexachlorobutadiene	4.88	2.0	ug/L	5.000		97.6	54.7-158			
Isopropylbenzene	5.09	0.50	ug/L	5.000		102	86.3-118			
m,p-Xylene	9.83	1.0	ug/L	10.00		98.3	87.1-118			
Methyl t-Butyl Ether	5.16	0.50	ug/L	5.000		103	58.1-138			
Methylene chloride	5.07	2.0	ug/L	5.000		101	63.5-153			
Naphthalene	4.91	5.0	ug/L	5.000		98.2	39.3-132			J, B
n-Butyl Benzene	4.85	0.50	ug/L	5.000		97.0	84.7-121			
n-Hexane	5.07	0.50	ug/L	5.000		101	49.5-147			
n-Propyl Benzene	4.80	0.50	ug/L	5.000		96.0	84.2-124			
o-Xylene	4.94	0.50	ug/L	5.000		98.8	82.8-114			

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708 Heartland Trail, Ste 3000	Project Number: 266431
Madison WI, 53717	Project Manager: Andrew Stehn

Volatile Organic Compounds by Method 8260 - Purge and Trap - Quality Control

Pace Analytical - Madison

Analyte	Result	Limit of Quantitation	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch A710031 - EPA 5030B										
LCS (A710031-BS1)				Prepared: 10/11/2017 Analyzed: 10/11/2017 08:18						
p-Isopropyltoluene	4.98	0.50	ug/L	5.000		99.6	88.1-116			
sec-Butyl Benzene	4.88	0.50	ug/L	5.000		97.6	85.3-121			
Styrene	4.72	0.50	ug/L	5.000		94.4	84.7-120			B
tert-Butylbenzene	4.87	0.50	ug/L	5.000		97.4	76.2-123			
Tetrachloroethene	4.78	0.50	ug/L	5.000		95.6	79.3-122			B
Tetrahydrofuran	24.3	10	ug/L	25.00		97.0	27.8-152			
Toluene	4.80	0.50	ug/L	5.000		96.0	82.7-117			
trans-1,2-Dichloroethene	5.05	0.50	ug/L	5.000		101	72.3-135			
trans-1,3-Dichloropropene	4.93	0.50	ug/L	5.000		98.6	72.5-122			
Trichloroethene	4.99	0.50	ug/L	5.000		99.8	77-126			
Trichlorofluoromethane	5.23	0.50	ug/L	5.000		105	56-195			
Vinyl chloride	5.06	0.50	ug/L	5.000		101	52.3-186			
Surrogate: Dibromofluoromethane	*4.91*		*ug/L*	*5.000*		*98.2*	*68.9-141*			
Surrogate: Toluene-d8	*4.99*		*ug/L*	*5.000*		*99.8*	*73.3-114*			
Surrogate: 4-Bromofluorobenzene	*4.95*		*ug/L*	*5.000*		*99.0*	*72.2-114*			
Matrix Spike (A710031-MS1)	**Source: A174103-11**			Prepared: 10/11/2017 Analyzed: 10/11/2017 16:41						
1,1,1,2-Tetrachloroethane	5.02	0.50	ug/L	5.000	ND	100	77.8-137			
1,1,1-Trichloroethane	5.32	0.50	ug/L	5.000	ND	106	66.3-167			
1,1,2,2-Tetrachloroethane	4.84	0.50	ug/L	5.000	ND	96.8	61.3-138			
1,1,2-Trichloroethane	6.06	0.50	ug/L	5.000	ND	121	75.4-132			
1,1,2-Trichlorotrifluoroethane	5.32	0.50	ug/L	5.000	ND	106	57.7-198			
1,1-Dichloroethane	5.25	0.50	ug/L	5.000	ND	105	66.9-154			
1,1-Dichloroethene	5.28	0.50	ug/L	5.000	ND	106	50.1-187			
1,1-Dichloropropene	5.28	0.50	ug/L	5.000	ND	106	74.1-127			
1,2,3-Trichlorobenzene	4.65	2.0	ug/L	5.000	ND	93.0	75.4-122			B
1,2,3-Trichloropropane	4.93	1.0	ug/L	5.000	ND	98.6	68.4-141			
1,2,4-Trichlorobenzene	4.57	2.0	ug/L	5.000	0.0800	89.8	72.1-121			B
1,2,4-Trimethylbenzene	5.00	0.50	ug/L	5.000	ND	100	86.5-121			
1,2-Dibromo-3-chloropropane	4.70	0.50	ug/L	5.000	ND	94.0	49.9-130			
1,2-Dibromoethane (EDB)	4.86	0.50	ug/L	5.000	ND	97.2	74.4-124			
1,2-Dichlorobenzene	4.99	0.50	ug/L	5.000	0.110	97.6	88.5-114			
1,2-Dichloroethane	5.45	0.50	ug/L	5.000	ND	109	72.6-161			
1,2-Dichloropropane	5.00	0.50	ug/L	5.000	ND	100	84.7-119			
1,3,5-Trimethylbenzene	5.01	0.50	ug/L	5.000	ND	100	87.3-122			
1,3-Dichlorobenzene	4.80	0.50	ug/L	5.000	ND	96.0	90.1-115			
1,3-Dichloropropane	4.92	0.50	ug/L	5.000	ND	98.4	76.6-126			
1,4-Dichlorobenzene	4.73	0.50	ug/L	5.000	ND	94.6	87.6-113			
2,2-Dichloropropane	4.49	0.50	ug/L	5.000	ND	89.8	72.3-145			
2-Butanone	52.0	20	ug/L	50.00	ND	104	32.2-170			
2-Chlorotoluene	4.93	0.50	ug/L	5.000	ND	98.6	87.9-117			
2-Hexanone	47.7	20	ug/L	50.00	ND	95.4	30.2-168			
4-Chlorotoluene	4.97	0.50	ug/L	5.000	ND	99.4	87.5-120			
4-Methyl-2-pentanone	49.2	20	ug/L	50.00	ND	98.4	39.1-168			

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Madison WI, 53717	Project Manager: Andrew Stehn

Volatile Organic Compounds by Method 8260 - Purge and Trap - Quality Control

Pace Analytical - Madison

Analyte	Result	Limit of Quantitation	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch A710031 - EPA 5030B										
Matrix Spike (A710031-MS1)	**Source: A174103-11**		Prepared: 10/11/2017 Analyzed: 10/11/2017 16:41							
Acetone	52.2	20	ug/L	50.00	ND	104	31.2-199			
Benzene	5.00	0.50	ug/L	5.000	ND	100	67.8-136			
Bromobenzene	4.90	0.50	ug/L	5.000	ND	98.0	84.5-111			
Bromochloromethane	5.07	0.50	ug/L	5.000	ND	101	80.9-134			
Bromodichloromethane	5.20	0.50	ug/L	5.000	ND	104	76.1-144			
Bromoform	4.85	0.50	ug/L	5.000	ND	97.0	60.2-142			
Bromomethane	5.36	5.0	ug/L	5.000	ND	107	50.3-198			
Carbon disulfide	5.13	0.50	ug/L	5.000	ND	103	35.6-196			
Carbon tetrachloride	5.05	0.50	ug/L	5.000	ND	101	69.7-152			
Chlorobenzene	4.89	0.50	ug/L	5.000	ND	97.8	89.3-113			
Chloroethane	5.35	5.0	ug/L	5.000	ND	107	50.2-198			
Chloroform	5.45	0.50	ug/L	5.000	0.500	99.0	66.2-164			
Chloromethane	6.80	2.0	ug/L	5.000	2.97	76.6	46.5-179			
cis-1,2-Dichloroethene	41.5	0.50	ug/L	5.000	37.7	75.6	67.5-137			
cis-1,3-Dichloropropene	4.84	0.50	ug/L	5.000	ND	96.8	63.3-123			
Dibromochloromethane	5.06	0.50	ug/L	5.000	ND	101	76-133			
Dibromomethane	5.04	0.50	ug/L	5.000	ND	101	78.2-139			
Dichlorodifluoromethane	5.35	0.50	ug/L	5.000	ND	107	70.6-150			
Diisopropyl Ether	5.23	0.50	ug/L	5.000	ND	105	57.3-137			
Ethylbenzene	4.97	0.50	ug/L	5.000	ND	99.4	87.3-118			
Hexachlorobutadiene	5.07	2.0	ug/L	5.000	ND	101	55.4-161			
Isopropylbenzene	5.17	0.50	ug/L	5.000	ND	103	89-115			
m,p-Xylene	9.99	1.0	ug/L	10.00	ND	99.9	88.4-117			
Methyl t-Butyl Ether	5.25	0.50	ug/L	5.000	ND	105	54.4-145			
Methylene chloride	5.15	2.0	ug/L	5.000	ND	103	59.2-154			
Naphthalene	4.56	5.0	ug/L	5.000	ND	91.2	43.3-129			J, B
n-Butyl Benzene	4.95	0.50	ug/L	5.000	ND	99.0	85.9-119			
n-Hexane	5.21	0.50	ug/L	5.000	ND	104	44.3-150			
n-Propyl Benzene	4.95	0.50	ug/L	5.000	ND	99.0	83.7-124			
o-Xylene	5.00	0.50	ug/L	5.000	ND	100	83.9-112			
p-Isopropyltoluene	5.03	0.50	ug/L	5.000	ND	101	89.6-114			
sec-Butyl Benzene	5.00	0.50	ug/L	5.000	ND	100	85.5-120			
Styrene	4.75	0.50	ug/L	5.000	ND	95.0	79.7-123			B
tert-Butylbenzene	5.07	0.50	ug/L	5.000	ND	101	78.6-120			
Tetrachloroethene	29.4	0.50	ug/L	5.000	23.9	110	78.8-123			B
Tetrahydrofuran	24.2	10	ug/L	25.00	ND	97.0	24.7-155			
Toluene	4.88	0.50	ug/L	5.000	ND	97.6	81-118			
trans-1,2-Dichloroethene	5.48	0.50	ug/L	5.000	0.490	99.8	65.3-141			
trans-1,3-Dichloropropene	4.80	0.50	ug/L	5.000	ND	96.0	73.7-120			
Trichloroethene	14.4	0.50	ug/L	5.000	9.36	101	77.1-123			
Trichlorofluoromethane	5.37	0.50	ug/L	5.000	ND	107	44.8-199			
Vinyl chloride	5.77	0.50	ug/L	5.000	0.850	98.4	49.8-180			
Surrogate: Dibromofluoromethane	*5.05*		*ug/L*	*5.000*		*101*	*68.9-141*			
Surrogate: Toluene-d8	*5.01*		*ug/L*	*5.000*		*100*	*73.3-114*			

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Volatile Organic Compounds by Method 8260 - Purge and Trap - Quality Control

Pace Analytical - Madison

Analyte	Result	Limit of Quantitation	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch A710031 - EPA 5030B										
Matrix Spike (A710031-MS1)	**Source: A174103-11**			Prepared: 10/11/2017 Analyzed: 10/11/2017 16:41						
Surrogate: 4-Bromofluorobenzene	*5.00*		*ug/L*	*5.000*		*100*	*72.2-114*			
Matrix Spike Dup (A710031-MSD1)	**Source: A174103-11**			Prepared: 10/11/2017 Analyzed: 10/11/2017 17:09						
1,1,1,2-Tetrachloroethane	5.01	0.50	ug/L	5.000	ND	100	77.8-137	0.199	20	
1,1,1-Trichloroethane	5.34	0.50	ug/L	5.000	ND	107	66.3-167	0.375	20	
1,1,2,2-Tetrachloroethane	4.77	0.50	ug/L	5.000	ND	95.4	61.3-138	1.46	20	
1,1,2-Trichloroethane	5.98	0.50	ug/L	5.000	ND	120	75.4-132	1.33	20	
1,1,2-Trichlorotrifluoroethane	5.53	0.50	ug/L	5.000	ND	111	57.7-198	3.87	20	
1,1-Dichloroethane	5.38	0.50	ug/L	5.000	ND	108	66.9-154	2.45	20	
1,1-Dichloroethene	5.29	0.50	ug/L	5.000	ND	106	50.1-187	0.189	20	
1,1-Dichloropropene	5.39	0.50	ug/L	5.000	ND	108	74.1-127	2.06	20	
1,2,3-Trichlorobenzene	4.54	2.0	ug/L	5.000	ND	90.8	75.4-122	2.39	20	B
1,2,3-Trichloropropane	5.05	1.0	ug/L	5.000	ND	101	68.4-141	2.40	20	
1,2,4-Trichlorobenzene	4.56	2.0	ug/L	5.000	0.0800	89.6	72.1-121	0.223	20	B
1,2,4-Trimethylbenzene	4.91	0.50	ug/L	5.000	ND	98.2	86.5-121	1.82	20	
1,2-Dibromo-3-chloropropane	4.65	0.50	ug/L	5.000	ND	93.0	49.9-130	1.07	20	
1,2-Dibromoethane (EDB)	4.90	0.50	ug/L	5.000	ND	98.0	74.4-124	0.820	20	
1,2-Dichlorobenzene	4.98	0.50	ug/L	5.000	0.110	97.4	88.5-114	0.205	20	
1,2-Dichloroethane	5.41	0.50	ug/L	5.000	ND	108	72.6-161	0.737	20	
1,2-Dichloropropane	4.98	0.50	ug/L	5.000	ND	99.6	84.7-119	0.401	20	
1,3,5-Trimethylbenzene	4.88	0.50	ug/L	5.000	ND	97.6	87.3-122	2.63	20	
1,3-Dichlorobenzene	4.67	0.50	ug/L	5.000	ND	93.4	90.1-115	2.75	20	
1,3-Dichloropropane	4.99	0.50	ug/L	5.000	ND	99.8	76.6-126	1.41	20	
1,4-Dichlorobenzene	4.72	0.50	ug/L	5.000	ND	94.4	87.6-113	0.212	20	
2,2-Dichloropropane	4.66	0.50	ug/L	5.000	ND	93.2	72.3-145	3.72	20	
2-Butanone	53.0	20	ug/L	50.00	ND	106	32.2-170	1.85	20	
2-Chlorotoluene	4.89	0.50	ug/L	5.000	ND	97.8	87.9-117	0.815	20	
2-Hexanone	48.2	20	ug/L	50.00	ND	96.5	30.2-168	1.06	20	
4-Chlorotoluene	4.92	0.50	ug/L	5.000	ND	98.4	87.5-120	1.01	20	
4-Methyl-2-pentanone	50.2	20	ug/L	50.00	ND	100	39.1-168	2.13	20	
Acetone	59.0	20	ug/L	50.00	ND	118	31.2-199	12.4	20	
Benzene	5.03	0.50	ug/L	5.000	ND	101	67.8-136	0.598	20	
Bromobenzene	4.88	0.50	ug/L	5.000	ND	97.6	84.5-111	0.409	20	
Bromochloromethane	5.02	0.50	ug/L	5.000	ND	100	80.9-134	0.991	20	
Bromodichloromethane	5.26	0.50	ug/L	5.000	ND	105	76.1-144	1.15	20	
Bromoform	4.85	0.50	ug/L	5.000	ND	97.0	60.2-142	0.00	20	
Bromomethane	5.53	5.0	ug/L	5.000	ND	111	50.3-198	3.12	20	
Carbon disulfide	5.25	0.50	ug/L	5.000	ND	105	35.6-196	2.31	20	
Carbon tetrachloride	5.08	0.50	ug/L	5.000	ND	102	69.7-152	0.592	20	
Chlorobenzene	4.87	0.50	ug/L	5.000	ND	97.4	89.3-113	0.410	20	
Chloroethane	5.59	5.0	ug/L	5.000	ND	112	50.2-198	4.39	20	
Chloroform	5.52	0.50	ug/L	5.000	0.500	100	66.2-164	1.40	20	
Chloromethane	7.09	2.0	ug/L	5.000	2.97	82.4	46.5-179	7.30	20	
cis-1,2-Dichloroethene	40.5	0.50	ug/L	5.000	37.7	54.8	67.5-137	31.9	20	M, X

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TRC Environmental Corporation, Inc.	Project: Madison Kipp Corp. Semi-Annual Sampling
708 Heartland Trail, Ste 3000	Project Number: 266431
Madison WI, 53717	Project Manager: Andrew Stehn

Volatile Organic Compounds by Method 8260 - Purge and Trap - Quality Control

Pace Analytical - Madison

Analyte	Result	Limit of Quantitation	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch A710031 - EPA 5030B										
Matrix Spike Dup (A710031-MSD1)	**Source: A174103-11**		Prepared: 10/11/2017 Analyzed: 10/11/2017 17:09							
cis-1,3-Dichloropropene	4.79	0.50	ug/L	5.000	ND	95.8	63.3-123	1.04	20	
Dibromochloromethane	4.97	0.50	ug/L	5.000	ND	99.4	76-133	1.79	20	
Dibromomethane	4.98	0.50	ug/L	5.000	ND	99.6	78.2-139	1.20	20	
Dichlorodifluoromethane	5.47	0.50	ug/L	5.000	ND	109	70.6-150	2.22	20	
Diisopropyl Ether	5.54	0.50	ug/L	5.000	ND	111	57.3-137	5.76	20	
Ethylbenzene	4.94	0.50	ug/L	5.000	ND	98.8	87.3-118	0.605	20	
Hexachlorobutadiene	4.92	2.0	ug/L	5.000	ND	98.4	55.4-161	3.00	20	
Isopropylbenzene	5.10	0.50	ug/L	5.000	ND	102	89-115	1.36	20	
m,p-Xylene	9.94	1.0	ug/L	10.00	ND	99.4	88.4-117	0.502	20	
Methyl t-Butyl Ether	5.51	0.50	ug/L	5.000	ND	110	54.4-145	4.83	20	
Methylene chloride	5.29	2.0	ug/L	5.000	ND	106	59.2-154	2.68	20	
Naphthalene	4.73	5.0	ug/L	5.000	ND	94.6	43.3-129	3.66	20	J, B
n-Butyl Benzene	4.86	0.50	ug/L	5.000	ND	97.2	85.9-119	1.83	20	
n-Hexane	5.37	0.50	ug/L	5.000	ND	107	44.3-150	3.02	20	
n-Propyl Benzene	4.79	0.50	ug/L	5.000	ND	95.8	83.7-124	3.29	20	
o-Xylene	5.01	0.50	ug/L	5.000	ND	100	83.9-112	0.200	20	
p-Isopropyltoluene	4.92	0.50	ug/L	5.000	ND	98.4	89.6-114	2.21	20	
sec-Butyl Benzene	4.89	0.50	ug/L	5.000	ND	97.8	85.5-120	2.22	20	
Styrene	4.67	0.50	ug/L	5.000	ND	93.4	79.7-123	1.70	20	B
tert-Butylbenzene	4.94	0.50	ug/L	5.000	ND	98.8	78.6-120	2.60	20	
Tetrachloroethene	28.0	0.50	ug/L	5.000	23.9	80.8	78.8-123	30.3	20	X, B
Tetrahydrofuran	26.1	10	ug/L	25.00	ND	104	24.7-155	7.27	20	
Toluene	4.72	0.50	ug/L	5.000	ND	94.4	81-118	3.33	20	
trans-1,2-Dichloroethene	5.70	0.50	ug/L	5.000	0.490	104	65.3-141	4.31	20	
trans-1,3-Dichloropropene	4.82	0.50	ug/L	5.000	ND	96.4	73.7-120	0.416	20	
Trichloroethene	13.9	0.50	ug/L	5.000	9.36	89.8	77.1-123	11.9	20	
Trichlorofluoromethane	5.50	0.50	ug/L	5.000	ND	110	44.8-199	2.39	20	
Vinyl chloride	6.18	0.50	ug/L	5.000	0.850	107	49.8-180	8.00	20	
Surrogate: Dibromofluoromethane	*5.11*		*ug/L*	*5.000*		*102*	*68.9-141*			
Surrogate: Toluene-d8	*5.00*		*ug/L*	*5.000*		*100*	*73.3-114*			
Surrogate: 4-Bromofluorobenzene	*4.99*		*ug/L*	*5.000*		*99.8*	*72.2-114*			

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708 Heartland Trail, Ste 3000	Project Number: 266431
Madison WI, 53717	Project Manager: Andrew Stehn

Volatile Organic Compounds by Method 8260 - Purge and Trap - Quality Control

Pace Analytical - Madison

Analyte	Result	Limit of Quantitation	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch A710035 - EPA 5030B										
Blank (A710035-BLK1)				Prepared: 10/11/2017 Analyzed: 10/11/2017 18:33						
1,1,1,2-Tetrachloroethane	ND	0.50	ug/L							
1,1,1-Trichloroethane	ND	0.50	ug/L							
1,1,2,2-Tetrachloroethane	ND	0.50	ug/L							
1,1,2-Trichloroethane	ND	0.50	ug/L							
1,1,2-Trichlorotrifluoroethane	ND	0.50	ug/L							
1,1-Dichloroethane	ND	0.50	ug/L							
1,1-Dichloroethene	ND	0.50	ug/L							
1,1-Dichloropropene	ND	0.50	ug/L							
1,2,3-Trichlorobenzene	ND	2.0	ug/L							
1,2,3-Trichloropropane	ND	1.0	ug/L							
1,2,4-Trichlorobenzene	ND	2.0	ug/L							
1,2,4-Trimethylbenzene	ND	0.50	ug/L							
1,2-Dibromo-3-chloropropane	ND	0.50	ug/L							
1,2-Dibromoethane (EDB)	ND	0.50	ug/L							
1,2-Dichlorobenzene	ND	0.50	ug/L							
1,2-Dichloroethane	ND	0.50	ug/L							
1,2-Dichloropropane	ND	0.50	ug/L							
1,3,5-Trimethylbenzene	ND	0.50	ug/L							
1,3-Dichlorobenzene	ND	0.50	ug/L							
1,3-Dichloropropane	ND	0.50	ug/L							
1,4-Dichlorobenzene	ND	0.50	ug/L							
2,2-Dichloropropane	ND	0.50	ug/L							
2-Butanone	ND	20	ug/L							
2-Chlorotoluene	ND	0.50	ug/L							
2-Hexanone	ND	20	ug/L							
4-Chlorotoluene	ND	0.50	ug/L							
4-Methyl-2-pentanone	ND	20	ug/L							
Acetone	ND	20	ug/L							
Benzene	ND	0.50	ug/L							
Bromobenzene	ND	0.50	ug/L							
Bromochloromethane	ND	0.50	ug/L							
Bromodichloromethane	ND	0.50	ug/L							
Bromoform	ND	0.50	ug/L							
Bromomethane	ND	5.0	ug/L							
Carbon disulfide	ND	0.50	ug/L							
Carbon tetrachloride	ND	0.50	ug/L							
Chlorobenzene	ND	0.50	ug/L							
Chloroethane	ND	5.0	ug/L							
Chloroform	ND	0.50	ug/L							
Chloromethane	ND	2.0	ug/L							
cis-1,2-Dichloroethene	ND	0.50	ug/L							
cis-1,3-Dichloropropene	ND	0.50	ug/L							
Dibromochloromethane	ND	0.50	ug/L							
Dibromomethane	ND	0.50	ug/L							

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Volatile Organic Compounds by Method 8260 - Purge and Trap - Quality Control

Pace Analytical - Madison

Analyte	Result	Limit of Quantitation	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch A710035 - EPA 5030B										
Blank (A710035-BLK1)			Prepared: 10/11/2017 Analyzed: 10/11/2017 18:33							
Dichlorodifluoromethane	ND	0.50	ug/L							
Diisopropyl Ether	ND	0.50	ug/L							
Ethylbenzene	ND	0.50	ug/L							
Hexachlorobutadiene	ND	2.0	ug/L							
Isopropylbenzene	ND	0.50	ug/L							
m,p-Xylene	ND	1.0	ug/L							
Methyl t-Butyl Ether	ND	0.50	ug/L							
Methylene chloride	ND	2.0	ug/L							
Naphthalene	0.11	5.0	ug/L							J
n-Butyl Benzene	ND	0.50	ug/L							
n-Hexane	ND	0.50	ug/L							
n-Propyl Benzene	ND	0.50	ug/L							
o-Xylene	ND	0.50	ug/L							
p-Isopropyltoluene	ND	0.50	ug/L							
sec-Butyl Benzene	ND	0.50	ug/L							
Styrene	ND	0.50	ug/L							
tert-Butylbenzene	ND	0.50	ug/L							
Tetrachloroethene	0.17	0.50	ug/L							J
Tetrahydrofuran	ND	10	ug/L							
Toluene	ND	0.50	ug/L							
trans-1,2-Dichloroethene	ND	0.50	ug/L							
trans-1,3-Dichloropropene	ND	0.50	ug/L							
Trichloroethene	ND	0.50	ug/L							
Trichlorofluoromethane	ND	0.50	ug/L							
Vinyl chloride	ND	0.50	ug/L							
Xylenes, total	ND	1.5	ug/L							
Surrogate: Dibromofluoromethane	*10.5*		*ug/L*	*10.00*		*105*	*68.9-141*			
Surrogate: Toluene-d8	*10.0*		*ug/L*	*10.00*		*100*	*73.3-114*			
Surrogate: 4-Bromofluorobenzene	*9.72*		*ug/L*	*10.00*		*97.2*	*72.2-114*			
LCS (A710035-BS1)			Prepared: 10/11/2017 Analyzed: 10/11/2017 22:45							
1,1,1,2-Tetrachloroethane	5.15	0.50	ug/L	5.000		103	75.8-136			
1,1,1-Trichloroethane	5.54	0.50	ug/L	5.000		111	66.1-164			
1,1,2,2-Tetrachloroethane	4.93	0.50	ug/L	5.000		98.6	61.8-138			
1,1,2-Trichloroethane	5.10	0.50	ug/L	5.000		102	76.7-127			
1,1,2-Trichlorotrifluoroethane	5.62	0.50	ug/L	5.000		112	55.6-199			
1,1-Dichloroethane	5.59	0.50	ug/L	5.000		112	69.1-153			
1,1-Dichloroethene	5.38	0.50	ug/L	5.000		108	51.2-180			
1,1-Dichloropropene	5.64	0.50	ug/L	5.000		113	77.3-125			
1,2,3-Trichlorobenzene	4.51	2.0	ug/L	5.000		90.2	74-122			
1,2,3-Trichloropropane	4.91	1.0	ug/L	5.000		98.2	69.8-140			
1,2,4-Trichlorobenzene	4.42	2.0	ug/L	5.000		88.4	73.3-120			
1,2,4-Trimethylbenzene	4.94	0.50	ug/L	5.000		98.8	86.6-121			
1,2-Dibromo-3-chloropropane	4.56	0.50	ug/L	5.000		91.2	42.9-137			

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708 Heartland Trail, Ste 3000	Project Number: 266431
Madison WI, 53717	Project Manager: Andrew Stehn

Volatile Organic Compounds by Method 8260 - Purge and Trap - Quality Control

Pace Analytical - Madison

Analyte	Result	Limit of Quantitation	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch A710035 - EPA 5030B										
LCS (A710035-BS1)				Prepared: 10/11/2017 Analyzed: 10/11/2017 22:45						
1,2-Dibromoethane (EDB)	4.95	0.50	ug/L	5.000		99.0	75.2-124			
1,2-Dichlorobenzene	4.87	0.50	ug/L	5.000		97.4	88.3-115			
1,2-Dichloroethane	5.75	0.50	ug/L	5.000		115	69.2-160			
1,2-Dichloropropane	5.09	0.50	ug/L	5.000		102	73.1-128			
1,3,5-Trimethylbenzene	4.97	0.50	ug/L	5.000		99.4	87.3-122			
1,3-Dichlorobenzene	4.76	0.50	ug/L	5.000		95.2	90.7-114			
1,3-Dichloropropane	5.02	0.50	ug/L	5.000		100	76.8-125			
1,4-Dichlorobenzene	4.67	0.50	ug/L	5.000		93.4	88.9-112			
2,2-Dichloropropane	4.65	0.50	ug/L	5.000		93.0	70.2-147			
2-Butanone	49.7	20	ug/L	50.00		99.4	39.5-160			
2-Chlorotoluene	4.89	0.50	ug/L	5.000		97.8	87.3-118			
2-Hexanone	48.0	20	ug/L	50.00		96.1	30.4-168			
4-Chlorotoluene	4.87	0.50	ug/L	5.000		97.4	87.6-120			
4-Methyl-2-pentanone	50.1	20	ug/L	50.00		100	38.8-166			
Acetone	53.4	20	ug/L	50.00		107	30.1-197			
Benzene	5.16	0.50	ug/L	5.000		103	68.2-135			
Bromobenzene	4.79	0.50	ug/L	5.000		95.8	84.4-112			
Bromochloromethane	5.22	0.50	ug/L	5.000		104	76.7-138			
Bromodichloromethane	5.29	0.50	ug/L	5.000		106	77.2-140			
Bromoform	4.98	0.50	ug/L	5.000		99.6	60-142			
Bromomethane	5.63	5.0	ug/L	5.000		113	52.3-196			
Carbon disulfide	5.30	0.50	ug/L	5.000		106	20.2-197			
Carbon tetrachloride	5.36	0.50	ug/L	5.000		107	61.2-157			
Chlorobenzene	4.96	0.50	ug/L	5.000		99.2	88.7-113			
Chloroethane	5.46	5.0	ug/L	5.000		109	43.1-196			
Chloroform	5.29	0.50	ug/L	5.000		106	68.7-161			
Chloromethane	4.98	2.0	ug/L	5.000		99.6	37.7-187			
cis-1,2-Dichloroethene	5.19	0.50	ug/L	5.000		104	76.1-127			
cis-1,3-Dichloropropene	4.81	0.50	ug/L	5.000		96.2	65.5-122			
Dibromochloromethane	5.12	0.50	ug/L	5.000		102	74.8-135			
Dibromomethane	5.07	0.50	ug/L	5.000		101	75-140			
Dichlorodifluoromethane	5.17	0.50	ug/L	5.000		103	68.8-164			
Diisopropyl Ether	5.63	0.50	ug/L	5.000		113	62.1-134			
Ethylbenzene	5.09	0.50	ug/L	5.000		102	86-119			
Hexachlorobutadiene	4.85	2.0	ug/L	5.000		97.0	54.7-158			
Isopropylbenzene	5.10	0.50	ug/L	5.000		102	86.3-118			
m,p-Xylene	9.94	1.0	ug/L	10.00		99.4	87.1-118			
Methyl t-Butyl Ether	5.60	0.50	ug/L	5.000		112	58.1-138			
Methylene chloride	5.53	2.0	ug/L	5.000		111	63.5-153			
Naphthalene	4.61	5.0	ug/L	5.000		92.2	39.3-132			J, B
n-Butyl Benzene	4.68	0.50	ug/L	5.000		93.6	84.7-121			
n-Hexane	5.41	0.50	ug/L	5.000		108	49.5-147			
n-Propyl Benzene	4.80	0.50	ug/L	5.000		96.0	84.2-124			
o-Xylene	4.91	0.50	ug/L	5.000		98.2	82.8-114			

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708 Heartland Trail, Ste 3000	Project Number: 266431
Madison WI, 53717	Project Manager: Andrew Stehn

Volatile Organic Compounds by Method 8260 - Purge and Trap - Quality Control

Pace Analytical - Madison

Analyte	Result	Limit of Quantitation	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch A710035 - EPA 5030B										
LCS (A710035-BS1)				Prepared: 10/11/2017 Analyzed: 10/11/2017 22:45						
p-Isopropyltoluene	4.91	0.50	ug/L	5.000		98.2	88.1-116			
sec-Butyl Benzene	4.93	0.50	ug/L	5.000		98.6	85.3-121			
Styrene	4.70	0.50	ug/L	5.000		94.0	84.7-120			
tert-Butylbenzene	4.98	0.50	ug/L	5.000		99.6	76.2-123			
Tetrachloroethene	4.84	0.50	ug/L	5.000		96.8	79.3-122			B
Tetrahydrofuran	25.6	10	ug/L	25.00		102	27.8-152			
Toluene	4.83	0.50	ug/L	5.000		96.6	82.7-117			
trans-1,2-Dichloroethene	5.38	0.50	ug/L	5.000		108	72.3-135			
trans-1,3-Dichloropropene	4.82	0.50	ug/L	5.000		96.4	72.5-122			
Trichloroethene	5.13	0.50	ug/L	5.000		103	77-126			
Trichlorofluoromethane	5.61	0.50	ug/L	5.000		112	56-195			
Vinyl chloride	5.34	0.50	ug/L	5.000		107	52.3-186			
Surrogate: Dibromofluoromethane	*5.34*		*ug/L*	*5.000*		*107*	*68.9-141*			
Surrogate: Toluene-d8	*5.02*		*ug/L*	*5.000*		*100*	*73.3-114*			
Surrogate: 4-Bromofluorobenzene	*4.93*		*ug/L*	*5.000*		*98.6*	*72.2-114*			
Matrix Spike (A710035-MS1)	**Source: A174103-08**			Prepared: 10/11/2017 Analyzed: 10/12/2017 00:36						
1,1,1,2-Tetrachloroethane	25.0	2.5	ug/L	25.00	ND	99.8	77.8-137			
1,1,1-Trichloroethane	28.0	2.5	ug/L	25.00	ND	112	66.3-167			
1,1,2,2-Tetrachloroethane	26.3	2.5	ug/L	25.00	ND	105	61.3-138			
1,1,2-Trichloroethane	30.8	2.5	ug/L	25.00	ND	123	75.4-132			
1,1,2-Trichlorotrifluoroethane	28.9	2.5	ug/L	25.00	ND	115	57.7-198			
1,1-Dichloroethane	29.2	2.5	ug/L	25.00	ND	117	66.9-154			
1,1-Dichloroethene	27.8	2.5	ug/L	25.00	ND	111	50.1-187			
1,1-Dichloropropene	28.0	2.5	ug/L	25.00	ND	112	74.1-127			
1,2,3-Trichlorobenzene	23.0	10	ug/L	25.00	ND	92.0	75.4-122			
1,2,3-Trichloropropane	27.9	5.0	ug/L	25.00	ND	111	68.4-141			
1,2,4-Trichlorobenzene	21.5	10	ug/L	25.00	ND	86.0	72.1-121			
1,2,4-Trimethylbenzene	24.8	2.5	ug/L	25.00	ND	99.2	86.5-121			
1,2-Dibromo-3-chloropropane	26.2	2.5	ug/L	25.00	ND	105	49.9-130			
1,2-Dibromoethane (EDB)	25.8	2.5	ug/L	25.00	ND	103	74.4-124			
1,2-Dichlorobenzene	24.9	2.5	ug/L	25.00	ND	99.4	88.5-114			
1,2-Dichloroethane	30.2	2.5	ug/L	25.00	ND	121	72.6-161			
1,2-Dichloropropane	24.6	2.5	ug/L	25.00	ND	98.4	84.7-119			
1,3,5-Trimethylbenzene	25.2	2.5	ug/L	25.00	ND	101	87.3-122			
1,3-Dichlorobenzene	23.5	2.5	ug/L	25.00	ND	94.0	90.1-115			
1,3-Dichloropropane	25.7	2.5	ug/L	25.00	ND	103	76.6-126			
1,4-Dichlorobenzene	23.4	2.5	ug/L	25.00	ND	93.4	87.6-113			
2,2-Dichloropropane	23.5	2.5	ug/L	25.00	ND	93.8	72.3-145			
2-Butanone	274	100	ug/L	250.0	ND	110	32.2-170			
2-Chlorotoluene	25.2	2.5	ug/L	25.00	ND	101	87.9-117			
2-Hexanone	259	100	ug/L	250.0	ND	103	30.2-168			
4-Chlorotoluene	24.8	2.5	ug/L	25.00	ND	99.0	87.5-120			
4-Methyl-2-pentanone	271	100	ug/L	250.0	ND	109	39.1-168			

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TRC Environmental Corporation, Inc.	Project: Madison Kipp Corp. Semi-Annual Sampling
708 Heartland Trail, Ste 3000	Project Number: 266431
Madison WI, 53717	Project Manager: Andrew Stehn

Volatile Organic Compounds by Method 8260 - Purge and Trap - Quality Control

Pace Analytical - Madison

Analyte	Result	Limit of Quantitation	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch A710035 - EPA 5030B										
Matrix Spike (A710035-MS1)	**Source: A174103-08**			Prepared: 10/11/2017 Analyzed: 10/12/2017 00:36						
Acetone	307	100	ug/L	250.0	ND	123	31.2-199			
Benzene	26.1	2.5	ug/L	25.00	ND	104	67.8-136			
Bromobenzene	25.1	2.5	ug/L	25.00	ND	100	84.5-111			
Bromochloromethane	27.7	2.5	ug/L	25.00	ND	111	80.9-134			
Bromodichloromethane	26.2	2.5	ug/L	25.00	ND	105	76.1-144			
Bromoform	25.4	2.5	ug/L	25.00	ND	101	60.2-142			
Bromomethane	28.7	25	ug/L	25.00	ND	115	50.3-198			
Carbon disulfide	27.2	2.5	ug/L	25.00	ND	109	35.6-196			
Carbon tetrachloride	27.1	2.5	ug/L	25.00	ND	108	69.7-152			
Chlorobenzene	24.2	2.5	ug/L	25.00	ND	96.8	89.3-113			
Chloroethane	28.9	25	ug/L	25.00	ND	115	50.2-198			
Chloroform	26.5	2.5	ug/L	25.00	ND	106	66.2-164			
Chloromethane	27.0	10	ug/L	25.00	1.45	102	46.5-179			
cis-1,2-Dichloroethene	26.1	2.5	ug/L	25.00	ND	104	67.5-137			
cis-1,3-Dichloropropene	24.0	2.5	ug/L	25.00	ND	95.8	63.3-123			
Dibromochloromethane	25.8	2.5	ug/L	25.00	ND	103	76-133			
Dibromomethane	26.8	2.5	ug/L	25.00	ND	107	78.2-139			
Dichlorodifluoromethane	27.5	2.5	ug/L	25.00	ND	110	70.6-150			
Diisopropyl Ether	29.7	2.5	ug/L	25.00	ND	119	57.3-137			
Ethylbenzene	24.7	2.5	ug/L	25.00	ND	98.8	87.3-118			
Hexachlorobutadiene	24.8	10	ug/L	25.00	ND	99.2	55.4-161			
Isopropylbenzene	24.9	2.5	ug/L	25.00	ND	99.4	89-115			
m,p-Xylene	48.2	5.0	ug/L	50.00	ND	96.4	88.4-117			
Methyl t-Butyl Ether	29.8	2.5	ug/L	25.00	ND	119	54.4-145			
Methylene chloride	28.9	10	ug/L	25.00	ND	115	59.2-154			
Naphthalene	24.5	25	ug/L	25.00	ND	97.8	43.3-129			J, B
n-Butyl Benzene	23.3	2.5	ug/L	25.00	ND	93.0	85.9-119			
n-Hexane	28.5	2.5	ug/L	25.00	ND	114	44.3-150			
n-Propyl Benzene	24.3	2.5	ug/L	25.00	ND	97.0	83.7-124			
o-Xylene	24.2	2.5	ug/L	25.00	ND	96.8	83.9-112			
p-Isopropyltoluene	24.8	2.5	ug/L	25.00	ND	99.2	89.6-114			
sec-Butyl Benzene	25.1	2.5	ug/L	25.00	ND	100	85.5-120			
Styrene	23.2	2.5	ug/L	25.00	0.450	90.8	79.7-123			
tert-Butylbenzene	25.5	2.5	ug/L	25.00	ND	102	78.6-120			
Tetrachloroethene	146	2.5	ug/L	25.00	128	70.6	78.8-123			M, B
Tetrahydrofuran	138	50	ug/L	125.0	ND	110	24.7-155			
Toluene	23.5	2.5	ug/L	25.00	ND	93.8	81-118			
trans-1,2-Dichloroethene	27.8	2.5	ug/L	25.00	ND	111	65.3-141			
trans-1,3-Dichloropropene	23.6	2.5	ug/L	25.00	ND	94.4	73.7-120			
Trichloroethene	24.9	2.5	ug/L	25.00	ND	99.6	77.1-123			
Trichlorofluoromethane	29.7	2.5	ug/L	25.00	ND	119	44.8-199			
Vinyl chloride	28.5	2.5	ug/L	25.00	ND	114	49.8-180			
Surrogate: Dibromofluoromethane	*28.0*		*ug/L*	*25.00*		*112*	*68.9-141*			
Surrogate: Toluene-d8	*24.9*		*ug/L*	*25.00*		*99.4*	*73.3-114*			

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TRC Environmental Corporation, Inc.
708 Heartland Trail, Ste 3000
Madison WI, 53717

Project: Madison Kipp Corp. Semi-Annual Sampling
Project Number: 266431
Project Manager: Andrew Stehn

Volatile Organic Compounds by Method 8260 - Purge and Trap - Quality Control

Pace Analytical - Madison

Analyte	Result	Limit of Quantitation	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch A710035 - EPA 5030B										
Matrix Spike (A710035-MS1)	**Source: A174103-08**			Prepared: 10/11/2017	Analyzed: 10/12/2017 00:36					
Surrogate: 4-Bromofluorobenzene	*24.3*		*ug/L*	*25.00*		*97.2*	*72.2-114*			
Matrix Spike Dup (A710035-MSD1)	**Source: A174103-08**			Prepared: 10/11/2017	Analyzed: 10/12/2017 01:04					
1,1,1,2-Tetrachloroethane	25.7	2.5	ug/L	25.00	ND	103	77.8-137	2.96	20	
1,1,1-Trichloroethane	28.0	2.5	ug/L	25.00	ND	112	66.3-167	0.179	20	
1,1,2,2-Tetrachloroethane	27.5	2.5	ug/L	25.00	ND	110	61.3-138	4.65	20	
1,1,2-Trichloroethane	31.9	2.5	ug/L	25.00	ND	128	75.4-132	3.67	20	
1,1,2-Trichlorotrifluoroethane	29.4	2.5	ug/L	25.00	ND	117	57.7-198	1.72	20	
1,1-Dichloroethane	29.1	2.5	ug/L	25.00	ND	116	66.9-154	0.172	20	
1,1-Dichloroethene	28.2	2.5	ug/L	25.00	ND	113	50.1-187	1.43	20	
1,1-Dichloropropene	28.6	2.5	ug/L	25.00	ND	114	74.1-127	1.95	20	
1,2,3-Trichlorobenzene	24.1	10	ug/L	25.00	ND	96.2	75.4-122	4.46	20	
1,2,3-Trichloropropane	29.5	5.0	ug/L	25.00	ND	118	68.4-141	5.58	20	
1,2,4-Trichlorobenzene	22.8	10	ug/L	25.00	ND	91.0	72.1-121	5.65	20	
1,2,4-Trimethylbenzene	24.9	2.5	ug/L	25.00	ND	99.4	86.5-121	0.201	20	
1,2-Dibromo-3-chloropropane	27.3	2.5	ug/L	25.00	ND	109	49.9-130	4.12	20	
1,2-Dibromoethane (EDB)	27.5	2.5	ug/L	25.00	ND	110	74.4-124	6.39	20	
1,2-Dichlorobenzene	25.3	2.5	ug/L	25.00	ND	101	88.5-114	1.60	20	
1,2-Dichloroethane	31.3	2.5	ug/L	25.00	ND	125	72.6-161	3.58	20	
1,2-Dichloropropane	25.8	2.5	ug/L	25.00	ND	103	84.7-119	4.57	20	
1,3,5-Trimethylbenzene	24.9	2.5	ug/L	25.00	ND	99.6	87.3-122	0.999	20	
1,3-Dichlorobenzene	24.2	2.5	ug/L	25.00	ND	96.6	90.1-115	2.73	20	
1,3-Dichloropropane	27.1	2.5	ug/L	25.00	ND	108	76.6-126	5.50	20	
1,4-Dichlorobenzene	23.9	2.5	ug/L	25.00	ND	95.6	87.6-113	2.33	20	
2,2-Dichloropropane	23.9	2.5	ug/L	25.00	ND	95.4	72.3-145	1.69	20	
2-Butanone	307	100	ug/L	250.0	ND	123	32.2-170	11.6	20	
2-Chlorotoluene	24.9	2.5	ug/L	25.00	ND	99.4	87.9-117	1.40	20	
2-Hexanone	291	100	ug/L	250.0	ND	117	30.2-168	11.9	20	
4-Chlorotoluene	23.8	2.5	ug/L	25.00	ND	95.2	87.5-120	3.91	20	
4-Methyl-2-pentanone	302	100	ug/L	250.0	ND	121	39.1-168	10.7	20	
Acetone	346	100	ug/L	250.0	ND	138	31.2-199	12.1	20	
Benzene	25.9	2.5	ug/L	25.00	ND	104	67.8-136	0.769	20	
Bromobenzene	25.2	2.5	ug/L	25.00	ND	101	84.5-111	0.199	20	
Bromochloromethane	27.7	2.5	ug/L	25.00	ND	111	80.9-134	0.00	20	
Bromodichloromethane	27.4	2.5	ug/L	25.00	ND	109	76.1-144	4.30	20	
Bromoform	27.0	2.5	ug/L	25.00	ND	108	60.2-142	6.30	20	
Bromomethane	29.7	25	ug/L	25.00	ND	119	50.3-198	3.26	20	
Carbon disulfide	27.4	2.5	ug/L	25.00	ND	110	35.6-196	0.733	20	
Carbon tetrachloride	26.7	2.5	ug/L	25.00	ND	107	69.7-152	1.49	20	
Chlorobenzene	24.7	2.5	ug/L	25.00	ND	98.6	89.3-113	1.84	20	
Chloroethane	28.9	25	ug/L	25.00	ND	115	50.2-198	0.00	20	
Chloroform	27.3	2.5	ug/L	25.00	ND	109	66.2-164	3.16	20	
Chloromethane	26.5	10	ug/L	25.00	1.45	100	46.5-179	1.98	20	
cis-1,2-Dichloroethene	26.0	2.5	ug/L	25.00	ND	104	67.5-137	0.385	20	

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TRC Environmental Corporation, Inc.	Project: Madison Kipp Corp. Semi-Annual Sampling
708 Heartland Trail, Ste 3000	Project Number: 266431
Madison WI, 53717	Project Manager: Andrew Stehn

Volatile Organic Compounds by Method 8260 - Purge and Trap - Quality Control

Pace Analytical - Madison

Analyte	Result	Limit of Quantitation	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch A710035 - EPA 5030B										
Matrix Spike Dup (A710035-MSD1)	**Source: A174103-08**			Prepared: 10/11/2017 Analyzed: 10/12/2017 01:04						
cis-1,3-Dichloropropene	24.9	2.5	ug/L	25.00	ND	99.6	63.3-123	3.89	20	
Dibromochloromethane	27.5	2.5	ug/L	25.00	ND	110	76-133	6.39	20	
Dibromomethane	27.6	2.5	ug/L	25.00	ND	110	78.2-139	2.95	20	
Dichlorodifluoromethane	27.7	2.5	ug/L	25.00	ND	111	70.6-150	0.726	20	
Diisopropyl Ether	29.9	2.5	ug/L	25.00	ND	119	57.3-137	0.672	20	
Ethylbenzene	24.9	2.5	ug/L	25.00	ND	99.6	87.3-118	0.806	20	
Hexachlorobutadiene	24.3	10	ug/L	25.00	ND	97.2	55.4-161	2.04	20	
Isopropylbenzene	25.9	2.5	ug/L	25.00	ND	103	89-115	3.94	20	
m,p-Xylene	49.6	5.0	ug/L	50.00	ND	99.1	88.4-117	2.76	20	
Methyl t-Butyl Ether	31.7	2.5	ug/L	25.00	ND	127	54.4-145	6.02	20	
Methylene chloride	29.1	10	ug/L	25.00	ND	116	59.2-154	0.863	20	
Naphthalene	28.0	25	ug/L	25.00	ND	112	43.3-129	13.4	20	B
n-Butyl Benzene	23.9	2.5	ug/L	25.00	ND	95.4	85.9-119	2.55	20	
n-Hexane	30.0	2.5	ug/L	25.00	ND	120	44.3-150	5.13	20	
n-Propyl Benzene	24.2	2.5	ug/L	25.00	ND	96.8	83.7-124	0.206	20	
o-Xylene	25.1	2.5	ug/L	25.00	ND	100	83.9-112	3.45	20	
p-Isopropyltoluene	24.8	2.5	ug/L	25.00	ND	99.0	89.6-114	0.202	20	
sec-Butyl Benzene	24.7	2.5	ug/L	25.00	ND	98.6	85.5-120	1.81	20	
Styrene	23.8	2.5	ug/L	25.00	0.450	93.4	79.7-123	2.82	20	
tert-Butylbenzene	25.0	2.5	ug/L	25.00	ND	99.8	78.6-120	2.18	20	
Tetrachloroethene	146	2.5	ug/L	25.00	128	70.4	78.8-123	0.284	20	M, B
Tetrahydrofuran	156	50	ug/L	125.0	ND	125	24.7-155	12.2	20	
Toluene	24.2	2.5	ug/L	25.00	ND	96.6	81-118	2.94	20	
trans-1,2-Dichloroethene	27.3	2.5	ug/L	25.00	ND	109	65.3-141	2.00	20	
trans-1,3-Dichloropropene	24.9	2.5	ug/L	25.00	ND	99.4	73.7-120	5.16	20	
Trichloroethene	26.6	2.5	ug/L	25.00	ND	106	77.1-123	6.41	20	
Trichlorofluoromethane	30.0	2.5	ug/L	25.00	ND	120	44.8-199	1.01	20	
Vinyl chloride	28.6	2.5	ug/L	25.00	ND	114	49.8-180	0.351	20	
Surrogate: Dibromofluoromethane	*27.7*		*ug/L*	*25.00*		*111*	*68.9-141*			
Surrogate: Toluene-d8	*25.7*		*ug/L*	*25.00*		*103*	*73.3-114*			
Surrogate: 4-Bromofluorobenzene	*25.8*		*ug/L*	*25.00*		*103*	*72.2-114*			

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TRC Environmental Corporation, Inc.	Project: Madison Kipp Corp. Semi-Annual Sampling
708 Heartland Trail, Ste 3000	Project Number: 266431
Madison WI, 53717	Project Manager: Andrew Stehn

Notes and Definitions

X	Precision for the matrix spike duplicate, laboratory control sample duplicate or lab duplicate was outside of control limits.
S	Surrogate recovery was outside of laboratory control limits due to an apparent matrix effect.
M	The matrix spike and/or matrix spike duplicate recovery was outside of the laboratory control limits.
Ja	Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.
J	Analyte was detected but is below the reporting limit. The concentration is estimated.
D	Data reported from a dilution
B	Analyte is also detected in the associated method blank.
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis. If the word 'dry' does not appear after the units, results are reported on an as-is basis.
RPD	Relative Percent Difference

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CHAIN OF CUSTODY

No. 8378 Page: of:

Lab Work Order #: A174103

Report To: ANDREW STEHN
Company: TRC
Address 1: 708 Heartland Trl. Suite 3000
Address 2:
E-mail Address: astehn@trcsolutions.com

Project Number: 266431 Ph. 1 PO Number:
Project Name: MKC OM+M
Project Location (City, State): Madison, WI

Preservation Codes
Analyses Requested: B | A | A | A

Turn Around (check one): ☒ Normal ☐ Rush
If Rush, Report Due Date:
Sampled By (Print): Wes Braga / Andrew Stehn

Invoice To:
Company: Same as
Address 1: above
Address 2:

Sample Description	Collection Date	Collection Time	Matrix	Total # of Containers	VOCs	PCBs	TSS	TDS			Comments	Lab ID	Lab Receipt Time
MW-4D2	10/5/17	0947	W	3	X							01	
MW-4S	10/5/17	0957	W	4		X	X	X				02	
MW-4D	10/5/17	1209	W	4		X	X	X			HOLD - cancelled	03	
MW-3D3	10/5/17	1444	W	3	X							04	
MW-3D2	10/5/17	1449	W	3	X							05	
MW-3S	10/5/17	15:52	W	3	X							06	
MW-3D	10/5/17	16:26	W	3	X							07	
MW-23D	10/6/17	10:46	W	21	X	X	X	X			MS/MSD	08	
MW-23S	10/6/17	13:09	W	7	X	X	X	X			~~HOLD~~ KW 10/9/17	09	
MW-22D	10/6/17	15:46	W	7	X	X	X	X				10	

Preservation Codes
A=None B=HCL C=H_2SO_4
D=HNO_3 E=EnCore F=Methanol
G=NaOH O=Other (Indicate)

Matrix Codes
A=Air S=Soil W=Water O=Other

Other Comments:

	Date	Time		Date	Time
Relinquished By:	10/9/17	12:30	Received By:	10-09-17	1230
Relinquished By:			Received By:		

Custody Seal: ☒ NA ☐ Intact ☐ Not Intact
Shipped Via: Walk In
Receipt Temp: 3.8°C
Thermometer #/ Exp. Date: 160142274 1/21/18
Temp Blank: ☒ Y ☐ N

Rev. 12/15

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CHAIN OF CUSTODY

No. 8101 Page: of:

Lab Work Order #: A174103

Report To: ANDREW STEHN
Company: TRC
Address 1: 708 Heartland Tr. ste 3000
Address 2:
E-mail Address: astehn@trcsolutions.com

Project Number: 266431 Ph.1 PO Number:
Project Name: MKC OM+M
Project Location (City, State): Madison, WI

Turn Around (check one): ☒ Normal ☐ Rush
If Rush, Report Due Date:
Sampled By (Print): Wesley Brager/Andrew Stehn

Invoice To:
Company: same as above
Address 1:
Address 2:

Sample Description	Collection Date	Collection Time	Matrix	Total # of Containers	Preservation Codes	Analyses Requested: VOCs	PCBs	TSS	TDS			Comments	Lab ID	Lab Receipt Time
						B	A	A	A					
MW-22S	10/6/17	1520	W	21		X	X	X	X			MS/MSD	11	
DUP-01	10/6/17	-	W	7		X	X	X	X				12	
DUP-02	10/6/17	-	W	7		X	X	X	X				13	
DUP-03	10/6/17	-	W	7		X	X	X	X			All vials air bubble <6mm	14	
DUP-04	10/6/17	-	W	7		X	X	X	X			6 bottles only 2 VOA 2 VOA air bubble < 6mm	15	

Preservation Codes
A=None B=HCL C=H_2SO_4
D=HNO_3 E=EnCore F=Methanol
G=NaOH O=Other (Indicate)

Matrix Codes
A=Air S=Soil W=Water O=Other

Other Comments:

Relinquished By: Andrew Stehn	Date: 10/9/17	Time: 12:30	Received By: [signature]	Date: 10/9/17	Time: 1230
Relinquished By:	Date:	Time:	Received By:	Date:	Time:

Custody Seal: ☒ NA ☐ Intact ☐ Not Intact
Shipped Via: Walk in
Receipt Temp: 3.8°C
Thermometer #/ Exp. Date: 160142274 1/21/18
Temp Blank: ☒ Y ☐ N

Rev. 12/15

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

October 17, 2017

Jessica Esser
Pace Analytical Madison
2525 Advance Road
Madison, WI 53718

RE: Project: A174103 MADISON KIPP CORP.
Pace Project No.: 40158284

Dear Jessica Esser:
Enclosed are the analytical results for sample(s) received by the laboratory on October 10, 2017. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Dan Milewsky
dan.milewsky@pacelabs.com
(920)469-2436
Project Manager

Enclosures

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

CERTIFICATIONS

Project: A174103 MADISON KIPP CORP.
Pace Project No.: 40158284

Green Bay Certification IDs

1241 Bellevue Street, Green Bay, WI 54302
Florida/NELAP Certification #: E87948
Illinois Certification #: 200050
Kentucky UST Certification #: 82
Louisiana Certification #: 04168
Minnesota Certification #: 055-999-334
New York Certification #: 12064
North Dakota Certification #: R-150
Virginia VELAP ID: 460263
South Carolina Certification #: 83006001
Texas Certification #: T104704529-14-1
Wisconsin Certification #: 405132750
Wisconsin DATCP Certification #: 105-444
USDA Soil Permit #: P330-16-00157
Federal Fish & Wildlife Permit #: LE51774A-0

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

SAMPLE SUMMARY

Project: A174103 MADISON KIPP CORP.
Pace Project No.: 40158284

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40158284001	**A174103-02**	Water	10/05/17 09:57	10/10/17 09:55
40158284002	**A174103-08**	Water	10/06/17 10:46	10/10/17 09:55
40158284003	**A174103-09**	Water	10/06/17 13:09	10/10/17 09:55
40158284004	**A174103-10**	Water	10/06/17 15:46	10/10/17 09:55
40158284005	**A174103-11**	Water	10/06/17 15:20	10/10/17 09:55
40158284006	**A174103-12**	Water	10/06/17 00:00	10/10/17 09:55
40158284007	**A174103-13**	Water	10/06/17 00:00	10/10/17 09:55
40158284008	**A174103-14**	Water	10/06/17 00:00	10/10/17 09:55
40158284009	**A174103-15**	Water	10/06/17 00:00	10/10/17 09:55

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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(920)469-2436

SAMPLE ANALYTE COUNT

Project: A174103 MADISON KIPP CORP.
Pace Project No.: 40158284

Lab ID	Sample ID	Method	Analysts	Analytes Reported
40158284001	**A174103-02**	SM 2540C	TMK	1
		SM 2540D	JMN	1
40158284002	**A174103-08**	SM 2540C	TMK	1
		SM 2540D	JMN	1
40158284003	**A174103-09**	SM 2540C	TMK	1
		SM 2540D	JMN	1
40158284004	**A174103-10**	SM 2540C	TMK	1
		SM 2540D	JMN	1
40158284005	**A174103-11**	SM 2540C	TMK	1
		SM 2540D	JMN	1
40158284006	**A174103-12**	SM 2540C	TMK	1
		SM 2540D	JMN	1
40158284007	**A174103-13**	SM 2540C	TMK	1
		SM 2540D	JMN	1
40158284008	**A174103-14**	SM 2540C	TMK	1
		SM 2540D	JMN	1
40158284009	**A174103-15**	SM 2540C	TMK	1
		SM 2540D	JMN	1

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ANALYTICAL RESULTS

Project: A174103 MADISON KIPP CORP.
Pace Project No.: 40158284

Sample: A174103-02 **Lab ID: 40158284001** Collected: 10/05/17 09:57 Received: 10/10/17 09:55 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
2540C Total Dissolved Solids	Analytical Method: SM 2540C								
Total Dissolved Solids	**3750**	mg/L	20.0	8.7	1		10/12/17 13:37		
2540D Total Suspended Solids	Analytical Method: SM 2540D								
Total Suspended Solids	**<0.95**	mg/L	2.0	0.95	1		10/11/17 12:36		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: A174103 MADISON KIPP CORP.
Pace Project No.: 40158284

Sample: A174103-08 **Lab ID: 40158284002** Collected: 10/06/17 10:46 Received: 10/10/17 09:55 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
2540C Total Dissolved Solids	Analytical Method: SM 2540C								
Total Dissolved Solids	**524**	mg/L	20.0	8.7	1		10/12/17 13:37		
2540D Total Suspended Solids	Analytical Method: SM 2540D								
Total Suspended Solids	**<0.95**	mg/L	2.0	0.95	1		10/11/17 12:36		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: A174103 MADISON KIPP CORP.
Pace Project No.: 40158284

Sample: A174103-09 **Lab ID: 40158284003** Collected: 10/06/17 13:09 Received: 10/10/17 09:55 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
2540C Total Dissolved Solids	Analytical Method: SM 2540C								
Total Dissolved Solids	**656**	mg/L	20.0	8.7	1		10/12/17 13:38		
2540D Total Suspended Solids	Analytical Method: SM 2540D								
Total Suspended Solids	**16.8**	mg/L	4.0	1.9	1		10/11/17 12:36		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: A174103 MADISON KIPP CORP.
Pace Project No.: 40158284

Sample: A174103-10 **Lab ID: 40158284004** Collected: 10/06/17 15:46 Received: 10/10/17 09:55 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
2540C Total Dissolved Solids	Analytical Method: SM 2540C								
Total Dissolved Solids	**892**	mg/L	20.0	8.7	1		10/12/17 13:39		
2540D Total Suspended Solids	Analytical Method: SM 2540D								
Total Suspended Solids	**<0.95**	mg/L	2.0	0.95	1		10/11/17 12:36		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: A174103 MADISON KIPP CORP.
Pace Project No.: 40158284

Sample: A174103-11 **Lab ID: 40158284005** Collected: 10/06/17 15:20 Received: 10/10/17 09:55 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
2540C Total Dissolved Solids	Analytical Method: SM 2540C								
Total Dissolved Solids	**830**	mg/L	20.0	8.7	1		10/12/17 13:39		
2540D Total Suspended Solids	Analytical Method: SM 2540D								
Total Suspended Solids	**1.2J**	mg/L	2.0	0.95	1		10/11/17 12:36		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: A174103 MADISON KIPP CORP.
Pace Project No.: 40158284

Sample: A174103-12 **Lab ID: 40158284006** Collected: 10/06/17 00:00 Received: 10/10/17 09:55 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
2540C Total Dissolved Solids	Analytical Method: SM 2540C								
Total Dissolved Solids	**534**	mg/L	20.0	8.7	1		10/12/17 13:39		
2540D Total Suspended Solids	Analytical Method: SM 2540D								
Total Suspended Solids	**<0.95**	mg/L	2.0	0.95	1		10/11/17 12:36		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: A174103 MADISON KIPP CORP.
Pace Project No.: 40158284

Sample: A174103-13 **Lab ID: 40158284007** Collected: 10/06/17 00:00 Received: 10/10/17 09:55 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
2540C Total Dissolved Solids	Analytical Method: SM 2540C								
Total Dissolved Solids	**644**	mg/L	20.0	8.7	1		10/12/17 13:39		
2540D Total Suspended Solids	Analytical Method: SM 2540D								
Total Suspended Solids	**18.0**	mg/L	4.0	1.9	1		10/11/17 12:37		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: A174103 MADISON KIPP CORP.
Pace Project No.: 40158284

Sample: A174103-14 **Lab ID: 40158284008** Collected: 10/06/17 00:00 Received: 10/10/17 09:55 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
2540C Total Dissolved Solids	Analytical Method: SM 2540C								
Total Dissolved Solids	**838**	mg/L	20.0	8.7	1		10/12/17 13:40		
2540D Total Suspended Solids	Analytical Method: SM 2540D								
Total Suspended Solids	**<0.95**	mg/L	2.0	0.95	1		10/11/17 12:37		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: A174103 MADISON KIPP CORP.
Pace Project No.: 40158284

Sample: A174103-15 **Lab ID: 40158284009** Collected: 10/06/17 00:00 Received: 10/10/17 09:55 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
2540C Total Dissolved Solids	Analytical Method: SM 2540C								
Total Dissolved Solids	**890**	mg/L	20.0	8.7	1		10/12/17 13:40		
2540D Total Suspended Solids	Analytical Method: SM 2540D								
Total Suspended Solids	**<0.95**	mg/L	2.0	0.95	1		10/11/17 12:37		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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Green Bay, WI 54302
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QUALITY CONTROL DATA

Project: A174103 MADISON KIPP CORP.
Pace Project No.: 40158284

QC Batch: 270414 Analysis Method: SM 2540C
QC Batch Method: SM 2540C Analysis Description: 2540C Total Dissolved Solids
Associated Lab Samples: 40158284001, 40158284002, 40158284003, 40158284004, 40158284005, 40158284006, 40158284007, 40158284008, 40158284009

METHOD BLANK: 1589179 Matrix: Water
Associated Lab Samples: 40158284001, 40158284002, 40158284003, 40158284004, 40158284005, 40158284006, 40158284007, 40158284008, 40158284009

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	<8.7	20.0	10/12/17 13:36	

LABORATORY CONTROL SAMPLE: 1589180

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	553	562	102	80-120	

SAMPLE DUPLICATE: 1589181

Parameter	Units	40158284002 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	524	518	1	5	

SAMPLE DUPLICATE: 1589182

Parameter	Units	40158284005 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	830	868	4	5	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: A174103 MADISON KIPP CORP.
Pace Project No.: 40158284

QC Batch: 270209 Analysis Method: SM 2540D
QC Batch Method: SM 2540D Analysis Description: 2540D Total Suspended Solids
Associated Lab Samples: 40158284001, 40158284002, 40158284003, 40158284004, 40158284005, 40158284006, 40158284007, 40158284008, 40158284009

METHOD BLANK: 1587809 Matrix: Water
Associated Lab Samples: 40158284001, 40158284002, 40158284003, 40158284004, 40158284005, 40158284006, 40158284007, 40158284008, 40158284009

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Suspended Solids	mg/L	<0.48	1.0	10/11/17 12:34	

LABORATORY CONTROL SAMPLE: 1587810

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Suspended Solids	mg/L	100	104	104	80-120	

SAMPLE DUPLICATE: 1587817

Parameter	Units	40158284002 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Suspended Solids	mg/L	<0.95	<0.95		5	

SAMPLE DUPLICATE: 1587818

Parameter	Units	40158284005 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Suspended Solids	mg/L	1.2J	1.0J		5	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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Green Bay, WI 54302
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QUALIFIERS

Project: A174103 MADISON KIPP CORP.
Pace Project No.: 40158284

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above LOD.

J - Estimated concentration at or above the LOD and below the LOQ.

LOD - Limit of Detection adjusted for dilution factor and percent moisture.

LOQ - Limit of Quantitation adjusted for dilution factor and percent moisture.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

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.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected at or above the adjusted LOD.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

Pace Analytical Services, LLC
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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: A174103 MADISON KIPP CORP.
Pace Project No.: 40158284

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40158284001	**A174103-02**	SM 2540C	270414		
40158284002	**A174103-08**	SM 2540C	270414		
40158284003	**A174103-09**	SM 2540C	270414		
40158284004	**A174103-10**	SM 2540C	270414		
40158284005	**A174103-11**	SM 2540C	270414		
40158284006	**A174103-12**	SM 2540C	270414		
40158284007	**A174103-13**	SM 2540C	270414		
40158284008	**A174103-14**	SM 2540C	270414		
40158284009	**A174103-15**	SM 2540C	270414		
40158284001	**A174103-02**	SM 2540D	270209		
40158284002	**A174103-08**	SM 2540D	270209		
40158284003	**A174103-09**	SM 2540D	270209		
40158284004	**A174103-10**	SM 2540D	270209		
40158284005	**A174103-11**	SM 2540D	270209		
40158284006	**A174103-12**	SM 2540D	270209		
40158284007	**A174103-13**	SM 2540D	270209		
40158284008	**A174103-14**	SM 2540D	270209		
40158284009	**A174103-15**	SM 2540D	270209		

40158284

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ECCS Mobile Lab Services

SUBCONTRACT ORDER

Pace Analytical - Madison

A174103

SENDING LABORATORY:

Pace Analytical - Madison
2525 Advance Road
Madison, WI 53718
Phone: 608.221.8700
Fax: 608,221,4889
Project Manager: Jessica Esser

RECEIVING LABORATORY:

Pace Analytical
1241 Bellevue Street, Suite 9
Green Bay, WI 54302
Phone :(920) 469-2436
Fax: (920) 469-8827

Turn around Time: X Normal
_____ Rush

Project Name: Madison Kipp Corp. Semi-Annual Sampling

			Laboratory ID	Comments
001				
Lab ID: A174103-02	**Water**	**Sampled: 10/05/2017 09:57**	1-1LpA	1-250mlpA
2540D - Suspended Solids				
Subcontracted Analysis - Pace				Dissolved Solids, Total
Containers Supplied:				
14_1000mL Plastic Cool t 14_250mL Plastic Cool to				
002				
Lab ID: A174103-08	**Water**	**Sampled: 10/06/2017 10:46**	3-250mlpA 3-1LpA	
2540D - Suspended Solids				
Subcontracted Analysis - Pace				Dissolved Solids, Total
Containers Supplied:				
14_1000mL Plastic Cool t 14_1000mL Plastic Cool t 14_1000mL Plastic Cool t 14_250mL Plastic Cool to 14_250mL Plastic Cool to 14_250mL Plastic Cool to				
003				
Lab ID: A174103-09	**Water**	**Sampled: 10/06/2017 13:09**	1-250mlpA	1-1LpA
2540D - Suspended Solids				
Subcontracted Analysis - Pace				Dissolved Solids, Total
Containers Supplied:				
14_1000mL Plastic Cool t 14_250mL Plastic Cool to				
004				
Lab ID: A174103-10	**Water**	**Sampled: 10/06/2017 15:46**		
2540D - Suspended Solids				
Subcontracted Analysis - Pace				Dissolved Solids, Total
Containers Supplied:				
14_1000mL Plastic Cool t 14_250mL Plastic Cool to				

Released By	Date	Received By	Date
Kari-Ann Killen	10/9/17 1500		
Spee Dee	10/10/17 0955	Susan Kilgus Pace	10/10/17 0955

40158284

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SUBCONTRACT ORDER

Pace Analytical - Madison

A174103

401582 84

	Laboratory ID	Comments
005		
Lab ID: A174103-11 **Water** **Sampled: 10/06/2017 15:20**	3-250mlpA	3-1LpA
2540D - Suspended Solids		
Subcontracted Analysis - Pace		Dissolved Solids, Total
Containers Supplied:		
14_1000mL Plastic Cool t 14_1000mL Plastic Cool t 14_1000mL Plastic Cool t 14_250mL Plastic Cool to 14_250mL Plastic Cool to 14_250mL Plastic Cool to		
006		
Lab ID: A174103-12 **Water** **Sampled: 10/06/2017 00:00**	1-250mlpA	1-1LpA
2540D - Suspended Solids		
Subcontracted Analysis - Pace		Dissolved Solids, Total
Containers Supplied:		
14_1000mL Plastic Cool t 14_250mL Plastic Cool to		
007		
Lab ID: A174103-13 **Water** **Sampled: 10/06/2017 00:00**		
2540D - Suspended Solids		
Subcontracted Analysis - Pace		Dissolved Solids, Total
Containers Supplied:		
14_1000mL Plastic Cool t 14_250mL Plastic Cool to		
008		
Lab ID: A174103-14 **Water** **Sampled: 10/06/2017 00:00**		
2540D - Suspended Solids		
Subcontracted Analysis - Pace		Dissolved Solids, Total
Containers Supplied:		
14_1000mL Plastic Cool t 14_250mL Plastic Cool to		
009		
Lab ID: A174103-15 **Water** **Sampled: 10/06/2017 00:00**		
2540D - Suspended Solids		
Subcontracted Analysis - Pace		Dissolved Solids, Total
Containers Supplied:		
14_1000mL Plastic Cool t 14_250mL Plastic Cool to		

~~010 Lab ID A174103 (MW45)~~ (1) ~~10/5/17 @ 0957~~ ~~1-1LpA~~ ~~10/10/17 SW~~

010 Lab ID A174103 (1*) 10/5/17 @ 1209 1-250mlpA

401582 84

Kari-Ann Killian 10/9/17 1500
Released By Date Received By Date

Spee Dee 10/10/17 0955 Susan Tyler Pace 10/10/17 0955
Released By Date Received By Date

Page 2 of 2

(1) In shipment La

Sample Condition Upon Receipt

Pace Analytical Services, LLC. - Green Bay WI
1241 Bellevue Street, Suite 9
Green Bay, WI 54302

Pace Analytical™

Client Name: Pace, Madison, WI Project #:

WO# : 40158284

40158284

Courier: ☐ Fed Ex ☐ UPS ☐ Client ☐ Pace Other: SpeeDee

Tracking #: 5P00742303 2821733321

Custody Seal on Cooler/Box Present: ☐ yes ☒ no Seals intact: ☐ yes ☐ no

Custody Seal on Samples Present: ☐ yes ☒ no Seals intact: ☐ yes ☐ no

Packing Material: ☐ Bubble Wrap ☐ Bubble Bags ☑ None ☐ Other

Thermometer Used N/A **Type of Ice:** (Wet) Blue Dry None ☑ Samples on ice, cooling process has begun

Cooler Temperature Uncorr: 2.0 /Corr: **Biological Tissue is Frozen:** ☐ yes ☐ no

Temp Blank Present: ☐ yes ☑ no

Person examining contents:
Date: 10-10-17 SW
Initials:

Temp should be above freezing to 6°C.
Biota Samples may be received at ≤ 0°C.

		Comments:
Chain of Custody Present:	☑Yes ☐No ☐N/A	1.
Chain of Custody Filled Out: 10/10/17 SW	☑Yes ☐No ☐N/A	2. 1-250 mlpA-010 - added to COC
Chain of Custody Relinquished:	☑Yes ☐No ☐N/A	3. 10-10 SW
Sampler Name & Signature on COC:	☐Yes ☐No ☑N/A	4. Sub Work 10-10-17 SW
Samples Arrived within Hold Time:	☑Yes ☐No ☐N/A	5.
- VOA Samples frozen upon receipt	☐Yes ☐No	Date/Time:
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	
-Pace IR 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. (Non-Compliance noted in 13.)	☐Yes ☐No ☑N/A	13. ☐ HNO3 ☐ H2SO4 ☐ NaOH ☐ NaOH +ZnAct
All containers needing preservation are found to be in compliance with EPA recommendation. (HNO3, H2SO4 ≤2; NaOH+ZnAct ≥9, NaOH ≥12)	☐Yes ☐No ☑N/A	
exceptions: VOA, coliform, TOC, TOX, TOH, O&G, WIDROW, Phenolics, OTHER:	☐Yes ☑No	Initial when completed / Lab Std #ID of preservative / Date/ Time:
Headspace in VOA Vials (>6mm):	☐Yes ☐No ☑N/A	14.
Trip Blank Present:	☐Yes ☐No ☑N/A	15.
Trip Blank Custody Seals Present	☐Yes ☐No ☑N/A	
Pace Trip Blank Lot # (if purchased):		

Client Notification/ Resolution: If checked, see attached form for additional comments ☐

Person Contacted: Date/Time:

Comments/ Resolution:

Project Manager Review: LMC for DM **Date:** 10/10/17

F-GB-C-031-Rev.04 (12Dec2016) SCUR.xls
Pace Analytical Services LLC. - Green Bay WI

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Madison, WI 53718
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October 26, 2017

Andrew Stehn
TRC Environmental Corporation, Inc.
708 Heartland Trail, Ste 3000
Madison, WI 53717

RE: Madison Kipp Corp. Semi-Annual Sampling

Enclosed are revised analytical results for the samples received by the laboratory on 10/10/2017.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. These results are in compliance with the 2009 NELAC Standards and the appropriate agencies listed below, unless otherwise noted in the case narrative. This analytical report should be reproduced in its entirety.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Jessica Esser

Project Manager

Certification List			Expires
ADEQ	Arkansas Department of Environmental Quality	17-065-0	09/26/2018
DODELAP	DOD ELAP Accreditation (A2LA)	3269.01	03/31/2018
ILEPA	Illinois Secondary NELAP Accreditation	003174	04/30/2018
KDHE	Kansas Secondary NELAP Accreditation	E-10384	04/30/2018
LELAP	Louisiana Primary NELAP Accreditation	04165	06/30/2018
NCDEQ	North Carolina Dept. of Environmental Quality Accr	688	12/31/2017
NJDEP	New Jersey Secondary NELAP Accreditation	WI004	06/30/2018
ODEQ	Oklahoma Department of Environmental Quality Ac	2017-154	08/31/2018
TCEQ	Texas Secondary NELAP Accreditation	T104704504-16-7	11/30/2017
WDNR	Wisconsin Certification under NR 149	113289110	08/31/2018

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Revised Report

TRC Environmental Corporation, Inc.	Project: Madison Kipp Corp. Semi-Annual Sampling
708 Heartland Trail, Ste 3000	Project Number: 266431
Madison WI, 53717	Project Manager: Andrew Stehn

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-6S	A174110-01	Water	10/09/2017	10/10/2017
MW-6D	A174110-02	Water	10/09/2017	10/10/2017
MW-17	A174110-03	Water	10/09/2017	10/10/2017
MW-24	A174110-04	Water	10/09/2017	10/10/2017
MW-11S	A174110-05	Water	10/09/2017	10/10/2017
MW-28	A174110-06	Water	10/10/2017	10/10/2017
DUP-05	A174110-07	Water	10/09/2017	10/10/2017
FB-01	A174110-08	Water	10/09/2017	10/10/2017
Trip Blank	A174110-09	Water	10/09/2017	10/10/2017

CASE NARRATIVE

Sample Receipt Information:
9 samples were received on 10/10/2017. Samples were received at 2.1 degrees Celsius. Samples were received in acceptable condition with the exception of the label discrepancies noted below.

Four plastic containers labeled MW-28 were received. Containers were differentiated, using the time collected, into MW-24 and MW-28. Client was notified.

TSS and TDS analysis was subcontracted to Pace Analytical in Green Bay, WI. Please see their appended report for quality control results.

Please see the chain of custody (COC) document at the end of this report for additional information.

Continuing Calibration Verification (CCV):
CCV indicates a potential high bias for acetone for sample A174110-07. Sample was less than the reporting limit for this analyte so no further action is required.

REASON FOR REVISED REPORT

This report was revised to correct the detections and reporting limits for sample A174110-08 for the VOCs by method 8260 analysis. Due to an error in the preparation batch amount, all results and reporting limits for this sample were incorrectly elevated by a factor of 5. This report should replace "A174110 FINAL 10 19 2017 1702".

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708 Heartland Trail, Ste 3000	Project Number: 266431
Madison WI, 53717	Project Manager: Andrew Stehn

MW-6S

A174110-01 (Water)

Date Sampled
10/09/2017 09:28

Pace Analytical - Madison

Analyte	Result	Limit of Detection	Limit of Quantitation	Units	Dilution	Prepared	Analyzed	Method	Qualifiers
Polychlorinated Biphenyls by EPA Method 8082						**Preparation Batch:A710057**			
PCB-1016	ND	0.035	0.13	ug/L	1	10/16/2017	10/18/2017 03:42	EPA 8082A	
PCB-1221	ND	0.020	0.25	ug/L	1	10/16/2017	10/18/2017 03:42	EPA 8082A	
PCB-1232	ND	0.037	0.13	ug/L	1	10/16/2017	10/18/2017 03:42	EPA 8082A	
PCB-1242	ND	0.038	0.13	ug/L	1	10/16/2017	10/18/2017 03:42	EPA 8082A	
PCB-1248	ND	0.020	0.13	ug/L	1	10/16/2017	10/18/2017 03:42	EPA 8082A	
PCB-1254	ND	0.0090	0.13	ug/L	1	10/16/2017	10/18/2017 03:42	EPA 8082A	
PCB-1260	ND	0.025	0.13	ug/L	1	10/16/2017	10/18/2017 03:42	EPA 8082A	
Total PCBs	ND	0.038	0.25	ug/L	1	10/16/2017	10/18/2017 03:42	EPA 8082A	
Surrogate: Decachlorobiphenyl			*116 %*	*72.5-127*		*10/16/2017*	*10/18/2017 03:42*	*EPA 8082A*	
Surrogate: Tetrachloro-meta-xylene			*109 %*	*59.9-118*		*10/16/2017*	*10/18/2017 03:42*	*EPA 8082A*	
Volatile Organic Compounds by Method 8260 - Purge and Trap						**Preparation Batch:A710036**			
1,1,1,2-Tetrachloroethane	ND	0.11	0.50	ug/L	1	10/11/2017	10/12/2017 01:33	EPA 8260B	
1,1,1-Trichloroethane	ND	0.10	0.50	ug/L	1	10/11/2017	10/12/2017 01:33	EPA 8260B	
1,1,2,2-Tetrachloroethane	ND	0.099	0.50	ug/L	1	10/11/2017	10/12/2017 01:33	EPA 8260B	
1,1,2-Trichloroethane	ND	0.10	0.50	ug/L	1	10/11/2017	10/12/2017 01:33	EPA 8260B	
1,1,2-Trichlorotrifluoroethane	ND	0.13	0.50	ug/L	1	10/11/2017	10/12/2017 01:33	EPA 8260B	
1,1-Dichloroethane	ND	0.12	0.50	ug/L	1	10/11/2017	10/12/2017 01:33	EPA 8260B	
1,1-Dichloroethene	ND	0.14	0.50	ug/L	1	10/11/2017	10/12/2017 01:33	EPA 8260B	
1,1-Dichloropropene	ND	0.11	0.50	ug/L	1	10/11/2017	10/12/2017 01:33	EPA 8260B	
1,2,3-Trichlorobenzene	**0.070**	0.045	2.0	ug/L	1	10/11/2017	10/12/2017 01:33	EPA 8260B	B, J
1,2,3-Trichloropropane	ND	0.15	1.0	ug/L	1	10/11/2017	10/12/2017 01:33	EPA 8260B	
1,2,4-Trichlorobenzene	ND	0.077	2.0	ug/L	1	10/11/2017	10/12/2017 01:33	EPA 8260B	
1,2,4-Trimethylbenzene	**0.37**	0.060	0.50	ug/L	1	10/11/2017	10/12/2017 01:33	EPA 8260B	J
1,2-Dibromo-3-chloropropane	ND	0.25	0.50	ug/L	1	10/11/2017	10/12/2017 01:33	EPA 8260B	
1,2-Dibromoethane (EDB)	ND	0.13	0.50	ug/L	1	10/11/2017	10/12/2017 01:33	EPA 8260B	
1,2-Dichlorobenzene	ND	0.076	0.50	ug/L	1	10/11/2017	10/12/2017 01:33	EPA 8260B	
1,2-Dichloroethane	ND	0.078	0.50	ug/L	1	10/11/2017	10/12/2017 01:33	EPA 8260B	
1,2-Dichloropropane	ND	0.10	0.50	ug/L	1	10/11/2017	10/12/2017 01:33	EPA 8260B	
1,3,5-Trimethylbenzene	**0.17**	0.075	0.50	ug/L	1	10/11/2017	10/12/2017 01:33	EPA 8260B	J
1,3-Dichlorobenzene	ND	0.096	0.50	ug/L	1	10/11/2017	10/12/2017 01:33	EPA 8260B	
1,3-Dichloropropane	ND	0.11	0.50	ug/L	1	10/11/2017	10/12/2017 01:33	EPA 8260B	
1,4-Dichlorobenzene	ND	0.070	0.50	ug/L	1	10/11/2017	10/12/2017 01:33	EPA 8260B	
2,2-Dichloropropane	ND	0.14	0.50	ug/L	1	10/11/2017	10/12/2017 01:33	EPA 8260B	
2-Butanone	ND	3.0	20	ug/L	1	10/11/2017	10/12/2017 01:33	EPA 8260B	
2-Chlorotoluene	ND	0.075	0.50	ug/L	1	10/11/2017	10/12/2017 01:33	EPA 8260B	
2-Hexanone	ND	0.95	20	ug/L	1	10/11/2017	10/12/2017 01:33	EPA 8260B	
4-Chlorotoluene	ND	0.073	0.50	ug/L	1	10/11/2017	10/12/2017 01:33	EPA 8260B	
4-Methyl-2-pentanone	ND	0.77	20	ug/L	1	10/11/2017	10/12/2017 01:33	EPA 8260B	
Acetone	ND	3.4	20	ug/L	1	10/11/2017	10/12/2017 01:33	EPA 8260B	

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708 Heartland Trail, Ste 3000	Project Number: 266431
Madison WI, 53717	Project Manager: Andrew Stehn

MW-6S

A174110-01 (Water)

Date Sampled
10/09/2017 09:28

Pace Analytical - Madison

Volatile Organic Compounds by Method 8260 - Purge and Trap — **Preparation Batch:A710036**

Analyte	Result	Limit of Detection	Limit of Quantitation	Units	Dilution	Prepared	Analyzed	Method	Qualifiers
Benzene	**0.71**	0.089	0.50	ug/L	1	10/11/2017	10/12/2017 01:33	EPA 8260B	
Bromobenzene	ND	0.084	0.50	ug/L	1	10/11/2017	10/12/2017 01:33	EPA 8260B	
Bromochloromethane	ND	0.31	0.50	ug/L	1	10/11/2017	10/12/2017 01:33	EPA 8260B	
Bromodichloromethane	ND	0.077	0.50	ug/L	1	10/11/2017	10/12/2017 01:33	EPA 8260B	
Bromoform	ND	0.088	0.50	ug/L	1	10/11/2017	10/12/2017 01:33	EPA 8260B	
Bromomethane	ND	0.59	5.0	ug/L	1	10/11/2017	10/12/2017 01:33	EPA 8260B	
Carbon disulfide	ND	0.053	0.50	ug/L	1	10/11/2017	10/12/2017 01:33	EPA 8260B	
Carbon tetrachloride	ND	0.038	0.50	ug/L	1	10/11/2017	10/12/2017 01:33	EPA 8260B	
Chlorobenzene	ND	0.073	0.50	ug/L	1	10/11/2017	10/12/2017 01:33	EPA 8260B	
Chloroethane	ND	0.25	5.0	ug/L	1	10/11/2017	10/12/2017 01:33	EPA 8260B	
Chloroform	ND	0.062	0.50	ug/L	1	10/11/2017	10/12/2017 01:33	EPA 8260B	
Chloromethane	**2.2**	0.16	2.0	ug/L	1	10/11/2017	10/12/2017 01:33	EPA 8260B	
cis-1,2-Dichloroethene	ND	0.11	0.50	ug/L	1	10/11/2017	10/12/2017 01:33	EPA 8260B	
cis-1,3-Dichloropropene	ND	0.061	0.50	ug/L	1	10/11/2017	10/12/2017 01:33	EPA 8260B	
Dibromochloromethane	ND	0.091	0.50	ug/L	1	10/11/2017	10/12/2017 01:33	EPA 8260B	
Dibromomethane	ND	0.14	0.50	ug/L	1	10/11/2017	10/12/2017 01:33	EPA 8260B	
Dichlorodifluoromethane	ND	0.11	0.50	ug/L	1	10/11/2017	10/12/2017 01:33	EPA 8260B	
Diisopropyl Ether	ND	0.15	0.50	ug/L	1	10/11/2017	10/12/2017 01:33	EPA 8260B	
Ethylbenzene	**0.79**	0.054	0.50	ug/L	1	10/11/2017	10/12/2017 01:33	EPA 8260B	
Hexachlorobutadiene	ND	0.13	2.0	ug/L	1	10/11/2017	10/12/2017 01:33	EPA 8260B	
Isopropylbenzene	**0.53**	0.081	0.50	ug/L	1	10/11/2017	10/12/2017 01:33	EPA 8260B	
m,p-Xylene	**0.37**	0.057	1.0	ug/L	1	10/11/2017	10/12/2017 01:33	EPA 8260B	J
Methyl t-Butyl Ether	ND	0.14	0.50	ug/L	1	10/11/2017	10/12/2017 01:33	EPA 8260B	
Methylene chloride	ND	0.14	2.0	ug/L	1	10/11/2017	10/12/2017 01:33	EPA 8260B	
Naphthalene	**0.69**	0.088	5.0	ug/L	1	10/11/2017	10/12/2017 01:33	EPA 8260B	B, J
n-Butyl Benzene	ND	0.14	0.50	ug/L	1	10/11/2017	10/12/2017 01:33	EPA 8260B	
n-Hexane	ND	0.21	0.50	ug/L	1	10/11/2017	10/12/2017 01:33	EPA 8260B	
n-Propyl Benzene	**0.19**	0.10	0.50	ug/L	1	10/11/2017	10/12/2017 01:33	EPA 8260B	J
o-Xylene	**0.11**	0.058	0.50	ug/L	1	10/11/2017	10/12/2017 01:33	EPA 8260B	J
p-Isopropyltoluene	**0.16**	0.085	0.50	ug/L	1	10/11/2017	10/12/2017 01:33	EPA 8260B	J
sec-Butyl Benzene	**0.13**	0.13	0.50	ug/L	1	10/11/2017	10/12/2017 01:33	EPA 8260B	J
Styrene	**0.10**	0.065	0.50	ug/L	1	10/11/2017	10/12/2017 01:33	EPA 8260B	B, J
tert-Butylbenzene	ND	0.12	0.50	ug/L	1	10/11/2017	10/12/2017 01:33	EPA 8260B	
Tetrachloroethene	ND	0.081	0.50	ug/L	1	10/11/2017	10/12/2017 01:33	EPA 8260B	
Tetrahydrofuran	ND	1.2	10	ug/L	1	10/11/2017	10/12/2017 01:33	EPA 8260B	
Toluene	**0.32**	0.053	0.50	ug/L	1	10/11/2017	10/12/2017 01:33	EPA 8260B	B, J
trans-1,2-Dichloroethene	ND	0.11	0.50	ug/L	1	10/11/2017	10/12/2017 01:33	EPA 8260B	
trans-1,3-Dichloropropene	ND	0.096	0.50	ug/L	1	10/11/2017	10/12/2017 01:33	EPA 8260B	
Trichloroethene	ND	0.062	0.50	ug/L	1	10/11/2017	10/12/2017 01:33	EPA 8260B	
Trichlorofluoromethane	ND	0.13	0.50	ug/L	1	10/11/2017	10/12/2017 01:33	EPA 8260B	

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Madison WI, 53717	Project Manager: Andrew Stehn

MW-6S

A174110-01 (Water)

Date Sampled
10/09/2017 09:28

Analyte	Result	Limit of Detection	Limit of Quantitation	Units	Dilution	Prepared	Analyzed	Method	Qualifiers
Pace Analytical - Madison									
Volatile Organic Compounds by Method 8260 - Purge and Trap						**Preparation Batch:A710036**			
Vinyl chloride	ND	0.16	0.50	ug/L	1	10/11/2017	10/12/2017 01:33	EPA 8260B	
Xylenes, total	**0.48**	0.12	1.5	ug/L	1	10/11/2017	10/12/2017 01:33	EPA 8260B	J
Surrogate: Dibromofluoromethane			*106 %*	*68.9-141*		*10/11/2017*	*10/12/2017 01:33*	*EPA 8260B*	
Surrogate: Toluene-d8			*97.8 %*	*73.3-114*		*10/11/2017*	*10/12/2017 01:33*	*EPA 8260B*	
Surrogate: 4-Bromofluorobenzene			*99.1 %*	*72.2-114*		*10/11/2017*	*10/12/2017 01:33*	*EPA 8260B*	
Pace Analytical-Green Bay, WI									
SM 2540C						**Preparation Batch:WET 29822**			
Total Dissolved Solids	**3970**	8.7	20.0	mg/L	1	10/16/2017	10/16/2017 13:57	SM 2540C	
SM 2540D						**Preparation Batch:WET 29806**			
Total Suspended Solids	**1.2**	0.95	2.0	mg/L	1	10/13/2017	10/13/2017 11:26	SM 2540D	Ja

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Madison WI, 53717	Project Manager: Andrew Stehn

MW-6D

A174110-02 (Water)

Date Sampled
10/09/2017 12:40

Pace Analytical - Madison

Volatile Organic Compounds by Method 8260 - Purge and Trap — **Preparation Batch:A710035**

Analyte	Result	Limit of Detection	Limit of Quantitation	Units	Dilution	Prepared	Analyzed	Method	Qualifiers
1,1,1,2-Tetrachloroethane	ND	5.5	25	ug/L	50	10/11/2017	10/12/2017 04:20	EPA 8260B	
1,1,1-Trichloroethane	ND	5.0	25	ug/L	50	10/11/2017	10/12/2017 04:20	EPA 8260B	
1,1,2,2-Tetrachloroethane	ND	5.0	25	ug/L	50	10/11/2017	10/12/2017 04:20	EPA 8260B	
1,1,2-Trichloroethane	ND	5.0	25	ug/L	50	10/11/2017	10/12/2017 04:20	EPA 8260B	
1,1,2-Trichlorotrifluoroethane	ND	6.5	25	ug/L	50	10/11/2017	10/12/2017 04:20	EPA 8260B	
1,1-Dichloroethane	ND	6.0	25	ug/L	50	10/11/2017	10/12/2017 04:20	EPA 8260B	
1,1-Dichloroethene	ND	7.0	25	ug/L	50	10/11/2017	10/12/2017 04:20	EPA 8260B	
1,1-Dichloropropene	ND	5.5	25	ug/L	50	10/11/2017	10/12/2017 04:20	EPA 8260B	
1,2,3-Trichlorobenzene	ND	2.3	100	ug/L	50	10/11/2017	10/12/2017 04:20	EPA 8260B	
1,2,3-Trichloropropane	ND	7.5	50	ug/L	50	10/11/2017	10/12/2017 04:20	EPA 8260B	
1,2,4-Trichlorobenzene	ND	3.9	100	ug/L	50	10/11/2017	10/12/2017 04:20	EPA 8260B	
1,2,4-Trimethylbenzene	**170**	3.0	25	ug/L	50	10/11/2017	10/12/2017 04:20	EPA 8260B	D
1,2-Dibromo-3-chloropropane	ND	13	25	ug/L	50	10/11/2017	10/12/2017 04:20	EPA 8260B	
1,2-Dibromoethane (EDB)	ND	6.5	25	ug/L	50	10/11/2017	10/12/2017 04:20	EPA 8260B	
1,2-Dichlorobenzene	ND	3.8	25	ug/L	50	10/11/2017	10/12/2017 04:20	EPA 8260B	
1,2-Dichloroethane	ND	3.9	25	ug/L	50	10/11/2017	10/12/2017 04:20	EPA 8260B	
1,2-Dichloropropane	ND	5.0	25	ug/L	50	10/11/2017	10/12/2017 04:20	EPA 8260B	
1,3,5-Trimethylbenzene	ND	3.8	25	ug/L	50	10/11/2017	10/12/2017 04:20	EPA 8260B	
1,3-Dichlorobenzene	ND	4.8	25	ug/L	50	10/11/2017	10/12/2017 04:20	EPA 8260B	
1,3-Dichloropropane	ND	5.5	25	ug/L	50	10/11/2017	10/12/2017 04:20	EPA 8260B	
1,4-Dichlorobenzene	ND	3.5	25	ug/L	50	10/11/2017	10/12/2017 04:20	EPA 8260B	
2,2-Dichloropropane	ND	7.0	25	ug/L	50	10/11/2017	10/12/2017 04:20	EPA 8260B	
2-Butanone	ND	150	1000	ug/L	50	10/11/2017	10/12/2017 04:20	EPA 8260B	
2-Chlorotoluene	ND	3.8	25	ug/L	50	10/11/2017	10/12/2017 04:20	EPA 8260B	
2-Hexanone	ND	48	1000	ug/L	50	10/11/2017	10/12/2017 04:20	EPA 8260B	
4-Chlorotoluene	ND	3.7	25	ug/L	50	10/11/2017	10/12/2017 04:20	EPA 8260B	
4-Methyl-2-pentanone	ND	39	1000	ug/L	50	10/11/2017	10/12/2017 04:20	EPA 8260B	
Acetone	ND	170	1000	ug/L	50	10/11/2017	10/12/2017 04:20	EPA 8260B	
Benzene	**2000**	4.5	25	ug/L	50	10/11/2017	10/12/2017 04:20	EPA 8260B	D
Bromobenzene	ND	4.2	25	ug/L	50	10/11/2017	10/12/2017 04:20	EPA 8260B	
Bromochloromethane	ND	16	25	ug/L	50	10/11/2017	10/12/2017 04:20	EPA 8260B	
Bromodichloromethane	ND	3.9	25	ug/L	50	10/11/2017	10/12/2017 04:20	EPA 8260B	
Bromoform	ND	4.4	25	ug/L	50	10/11/2017	10/12/2017 04:20	EPA 8260B	
Bromomethane	ND	30	250	ug/L	50	10/11/2017	10/12/2017 04:20	EPA 8260B	
Carbon disulfide	ND	2.7	25	ug/L	50	10/11/2017	10/12/2017 04:20	EPA 8260B	
Carbon tetrachloride	ND	1.9	25	ug/L	50	10/11/2017	10/12/2017 04:20	EPA 8260B	
Chlorobenzene	ND	3.7	25	ug/L	50	10/11/2017	10/12/2017 04:20	EPA 8260B	
Chloroethane	ND	13	250	ug/L	50	10/11/2017	10/12/2017 04:20	EPA 8260B	
Chloroform	ND	3.1	25	ug/L	50	10/11/2017	10/12/2017 04:20	EPA 8260B	
Chloromethane	**19**	8.0	100	ug/L	50	10/11/2017	10/12/2017 04:20	EPA 8260B	J, D

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Madison WI, 53717	Project Manager: Andrew Stehn

MW-6D

A174110-02 (Water)

Date Sampled
10/09/2017 12:40

Pace Analytical - Madison

Volatile Organic Compounds by Method 8260 - Purge and Trap — **Preparation Batch:A710035**

Analyte	Result	Limit of Detection	Limit of Quantitation	Units	Dilution	Prepared	Analyzed	Method	Qualifiers
cis-1,2-Dichloroethene	ND	5.5	25	ug/L	50	10/11/2017	10/12/2017 04:20	EPA 8260B	
cis-1,3-Dichloropropene	ND	3.1	25	ug/L	50	10/11/2017	10/12/2017 04:20	EPA 8260B	
Dibromochloromethane	ND	4.6	25	ug/L	50	10/11/2017	10/12/2017 04:20	EPA 8260B	
Dibromomethane	ND	7.0	25	ug/L	50	10/11/2017	10/12/2017 04:20	EPA 8260B	
Dichlorodifluoromethane	ND	5.5	25	ug/L	50	10/11/2017	10/12/2017 04:20	EPA 8260B	
Diisopropyl Ether	ND	7.5	25	ug/L	50	10/11/2017	10/12/2017 04:20	EPA 8260B	
Ethylbenzene	**36**	2.7	25	ug/L	50	10/11/2017	10/12/2017 04:20	EPA 8260B	D
Hexachlorobutadiene	ND	6.5	100	ug/L	50	10/11/2017	10/12/2017 04:20	EPA 8260B	
Isopropylbenzene	**33**	4.1	25	ug/L	50	10/11/2017	10/12/2017 04:20	EPA 8260B	D
m,p-Xylene	**140**	2.9	50	ug/L	50	10/11/2017	10/12/2017 04:20	EPA 8260B	D
Methyl t-Butyl Ether	ND	7.0	25	ug/L	50	10/11/2017	10/12/2017 04:20	EPA 8260B	
Methylene chloride	ND	7.0	100	ug/L	50	10/11/2017	10/12/2017 04:20	EPA 8260B	
Naphthalene	**140**	4.4	250	ug/L	50	10/11/2017	10/12/2017 04:20	EPA 8260B	B, J, D
n-Butyl Benzene	ND	7.0	25	ug/L	50	10/11/2017	10/12/2017 04:20	EPA 8260B	
n-Hexane	ND	11	25	ug/L	50	10/11/2017	10/12/2017 04:20	EPA 8260B	
n-Propyl Benzene	**28**	5.0	25	ug/L	50	10/11/2017	10/12/2017 04:20	EPA 8260B	D
o-Xylene	**9.5**	2.9	25	ug/L	50	10/11/2017	10/12/2017 04:20	EPA 8260B	J, D
p-Isopropyltoluene	ND	4.3	25	ug/L	50	10/11/2017	10/12/2017 04:20	EPA 8260B	
sec-Butyl Benzene	ND	6.5	25	ug/L	50	10/11/2017	10/12/2017 04:20	EPA 8260B	
Styrene	**6.0**	3.3	25	ug/L	50	10/11/2017	10/12/2017 04:20	EPA 8260B	J, D
tert-Butylbenzene	ND	6.0	25	ug/L	50	10/11/2017	10/12/2017 04:20	EPA 8260B	
Tetrachloroethene	**9.0**	4.1	25	ug/L	50	10/11/2017	10/12/2017 04:20	EPA 8260B	B, J, D
Tetrahydrofuran	ND	60	500	ug/L	50	10/11/2017	10/12/2017 04:20	EPA 8260B	
Toluene	**140**	2.7	25	ug/L	50	10/11/2017	10/12/2017 04:20	EPA 8260B	D
trans-1,2-Dichloroethene	ND	5.5	25	ug/L	50	10/11/2017	10/12/2017 04:20	EPA 8260B	
trans-1,3-Dichloropropene	ND	4.8	25	ug/L	50	10/11/2017	10/12/2017 04:20	EPA 8260B	
Trichloroethene	**20**	3.1	25	ug/L	50	10/11/2017	10/12/2017 04:20	EPA 8260B	J, D
Trichlorofluoromethane	ND	6.5	25	ug/L	50	10/11/2017	10/12/2017 04:20	EPA 8260B	
Vinyl chloride	ND	8.0	25	ug/L	50	10/11/2017	10/12/2017 04:20	EPA 8260B	
Xylenes, total	**150**	5.8	75	ug/L	50	10/11/2017	10/12/2017 04:20	EPA 8260B	D
Surrogate: Dibromofluoromethane			*104 %*	*68.9-141*		*10/11/2017*	*10/12/2017 04:20*	*EPA 8260B*	
Surrogate: Toluene-d8			*99.4 %*	*73.3-114*		*10/11/2017*	*10/12/2017 04:20*	*EPA 8260B*	
Surrogate: 4-Bromofluorobenzene			*97.6 %*	*72.2-114*		*10/11/2017*	*10/12/2017 04:20*	*EPA 8260B*	

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Revised Report

TRC Environmental Corporation, Inc.	Project: Madison Kipp Corp. Semi-Annual Sampling
708 Heartland Trail, Ste 3000	Project Number: 266431
Madison WI, 53717	Project Manager: Andrew Stehn

MW-17

A174110-03 (Water)

Date Sampled
10/09/2017 10:10

Pace Analytical - Madison

Volatile Organic Compounds by Method 8260 - Purge and Trap — **Preparation Batch:A710035**

Analyte	Result	Limit of Detection	Limit of Quantitation	Units	Dilution	Prepared	Analyzed	Method	Qualifiers
1,1,1,2-Tetrachloroethane	ND	2.8	13	ug/L	25	10/11/2017	10/12/2017 03:52	EPA 8260B	
1,1,1-Trichloroethane	ND	2.5	13	ug/L	25	10/11/2017	10/12/2017 03:52	EPA 8260B	
1,1,2,2-Tetrachloroethane	ND	2.5	13	ug/L	25	10/11/2017	10/12/2017 03:52	EPA 8260B	
1,1,2-Trichloroethane	ND	2.5	13	ug/L	25	10/11/2017	10/12/2017 03:52	EPA 8260B	
1,1,2-Trichlorotrifluoroethane	ND	3.3	13	ug/L	25	10/11/2017	10/12/2017 03:52	EPA 8260B	
1,1-Dichloroethane	ND	3.0	13	ug/L	25	10/11/2017	10/12/2017 03:52	EPA 8260B	
1,1-Dichloroethene	ND	3.5	13	ug/L	25	10/11/2017	10/12/2017 03:52	EPA 8260B	
1,1-Dichloropropene	ND	2.8	13	ug/L	25	10/11/2017	10/12/2017 03:52	EPA 8260B	
1,2,3-Trichlorobenzene	ND	1.1	50	ug/L	25	10/11/2017	10/12/2017 03:52	EPA 8260B	
1,2,3-Trichloropropane	ND	3.8	25	ug/L	25	10/11/2017	10/12/2017 03:52	EPA 8260B	
1,2,4-Trichlorobenzene	ND	1.9	50	ug/L	25	10/11/2017	10/12/2017 03:52	EPA 8260B	
1,2,4-Trimethylbenzene	ND	1.5	13	ug/L	25	10/11/2017	10/12/2017 03:52	EPA 8260B	
1,2-Dibromo-3-chloropropane	ND	6.3	13	ug/L	25	10/11/2017	10/12/2017 03:52	EPA 8260B	
1,2-Dibromoethane (EDB)	ND	3.3	13	ug/L	25	10/11/2017	10/12/2017 03:52	EPA 8260B	
1,2-Dichlorobenzene	ND	1.9	13	ug/L	25	10/11/2017	10/12/2017 03:52	EPA 8260B	
1,2-Dichloroethane	ND	2.0	13	ug/L	25	10/11/2017	10/12/2017 03:52	EPA 8260B	
1,2-Dichloropropane	ND	2.5	13	ug/L	25	10/11/2017	10/12/2017 03:52	EPA 8260B	
1,3,5-Trimethylbenzene	ND	1.9	13	ug/L	25	10/11/2017	10/12/2017 03:52	EPA 8260B	
1,3-Dichlorobenzene	ND	2.4	13	ug/L	25	10/11/2017	10/12/2017 03:52	EPA 8260B	
1,3-Dichloropropane	ND	2.8	13	ug/L	25	10/11/2017	10/12/2017 03:52	EPA 8260B	
1,4-Dichlorobenzene	ND	1.8	13	ug/L	25	10/11/2017	10/12/2017 03:52	EPA 8260B	
2,2-Dichloropropane	ND	3.5	13	ug/L	25	10/11/2017	10/12/2017 03:52	EPA 8260B	
2-Butanone	ND	75	500	ug/L	25	10/11/2017	10/12/2017 03:52	EPA 8260B	
2-Chlorotoluene	ND	1.9	13	ug/L	25	10/11/2017	10/12/2017 03:52	EPA 8260B	
2-Hexanone	ND	24	500	ug/L	25	10/11/2017	10/12/2017 03:52	EPA 8260B	
4-Chlorotoluene	ND	1.8	13	ug/L	25	10/11/2017	10/12/2017 03:52	EPA 8260B	
4-Methyl-2-pentanone	ND	19	500	ug/L	25	10/11/2017	10/12/2017 03:52	EPA 8260B	
Acetone	ND	85	500	ug/L	25	10/11/2017	10/12/2017 03:52	EPA 8260B	
Benzene	ND	2.2	13	ug/L	25	10/11/2017	10/12/2017 03:52	EPA 8260B	
Bromobenzene	ND	2.1	13	ug/L	25	10/11/2017	10/12/2017 03:52	EPA 8260B	
Bromochloromethane	ND	7.8	13	ug/L	25	10/11/2017	10/12/2017 03:52	EPA 8260B	
Bromodichloromethane	ND	1.9	13	ug/L	25	10/11/2017	10/12/2017 03:52	EPA 8260B	
Bromoform	ND	2.2	13	ug/L	25	10/11/2017	10/12/2017 03:52	EPA 8260B	
Bromomethane	ND	15	130	ug/L	25	10/11/2017	10/12/2017 03:52	EPA 8260B	
Carbon disulfide	ND	1.3	13	ug/L	25	10/11/2017	10/12/2017 03:52	EPA 8260B	
Carbon tetrachloride	ND	0.95	13	ug/L	25	10/11/2017	10/12/2017 03:52	EPA 8260B	
Chlorobenzene	ND	1.8	13	ug/L	25	10/11/2017	10/12/2017 03:52	EPA 8260B	
Chloroethane	ND	6.3	130	ug/L	25	10/11/2017	10/12/2017 03:52	EPA 8260B	
Chloroform	**4.5**	1.6	13	ug/L	25	10/11/2017	10/12/2017 03:52	EPA 8260B	J, D
Chloromethane	**9.3**	4.0	50	ug/L	25	10/11/2017	10/12/2017 03:52	EPA 8260B	J, D

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TRC Environmental Corporation, Inc.	Project: Madison Kipp Corp. Semi-Annual Sampling
708 Heartland Trail, Ste 3000	Project Number: 266431
Madison WI, 53717	Project Manager: Andrew Stehn

MW-17

A174110-03 (Water)

Date Sampled
10/09/2017 10:10

Pace Analytical - Madison

Volatile Organic Compounds by Method 8260 - Purge and Trap — **Preparation Batch:A710035**

Analyte	Result	Limit of Detection	Limit of Quantitation	Units	Dilution	Prepared	Analyzed	Method	Qualifiers
cis-1,2-Dichloroethene	**5.3**	2.8	13	ug/L	25	10/11/2017	10/12/2017 03:52	EPA 8260B	J, D
cis-1,3-Dichloropropene	ND	1.5	13	ug/L	25	10/11/2017	10/12/2017 03:52	EPA 8260B	
Dibromochloromethane	ND	2.3	13	ug/L	25	10/11/2017	10/12/2017 03:52	EPA 8260B	
Dibromomethane	ND	3.5	13	ug/L	25	10/11/2017	10/12/2017 03:52	EPA 8260B	
Dichlorodifluoromethane	ND	2.8	13	ug/L	25	10/11/2017	10/12/2017 03:52	EPA 8260B	
Diisopropyl Ether	ND	3.8	13	ug/L	25	10/11/2017	10/12/2017 03:52	EPA 8260B	
Ethylbenzene	ND	1.4	13	ug/L	25	10/11/2017	10/12/2017 03:52	EPA 8260B	
Hexachlorobutadiene	ND	3.3	50	ug/L	25	10/11/2017	10/12/2017 03:52	EPA 8260B	
Isopropylbenzene	ND	2.0	13	ug/L	25	10/11/2017	10/12/2017 03:52	EPA 8260B	
m,p-Xylene	ND	1.4	25	ug/L	25	10/11/2017	10/12/2017 03:52	EPA 8260B	
Methyl t-Butyl Ether	ND	3.5	13	ug/L	25	10/11/2017	10/12/2017 03:52	EPA 8260B	
Methylene chloride	ND	3.5	50	ug/L	25	10/11/2017	10/12/2017 03:52	EPA 8260B	
Naphthalene	**2.8**	2.2	130	ug/L	25	10/11/2017	10/12/2017 03:52	EPA 8260B	B, J, D
n-Butyl Benzene	ND	3.5	13	ug/L	25	10/11/2017	10/12/2017 03:52	EPA 8260B	
n-Hexane	ND	5.3	13	ug/L	25	10/11/2017	10/12/2017 03:52	EPA 8260B	
n-Propyl Benzene	ND	2.5	13	ug/L	25	10/11/2017	10/12/2017 03:52	EPA 8260B	
o-Xylene	ND	1.5	13	ug/L	25	10/11/2017	10/12/2017 03:52	EPA 8260B	
p-Isopropyltoluene	ND	2.1	13	ug/L	25	10/11/2017	10/12/2017 03:52	EPA 8260B	
sec-Butyl Benzene	ND	3.3	13	ug/L	25	10/11/2017	10/12/2017 03:52	EPA 8260B	
Styrene	**1.8**	1.6	13	ug/L	25	10/11/2017	10/12/2017 03:52	EPA 8260B	J, D
tert-Butylbenzene	ND	3.0	13	ug/L	25	10/11/2017	10/12/2017 03:52	EPA 8260B	
Tetrachloroethene	**790**	2.0	13	ug/L	25	10/11/2017	10/12/2017 03:52	EPA 8260B	B, D
Tetrahydrofuran	ND	30	250	ug/L	25	10/11/2017	10/12/2017 03:52	EPA 8260B	
Toluene	ND	1.3	13	ug/L	25	10/11/2017	10/12/2017 03:52	EPA 8260B	
trans-1,2-Dichloroethene	ND	2.8	13	ug/L	25	10/11/2017	10/12/2017 03:52	EPA 8260B	
trans-1,3-Dichloropropene	ND	2.4	13	ug/L	25	10/11/2017	10/12/2017 03:52	EPA 8260B	
Trichloroethene	**59**	1.6	13	ug/L	25	10/11/2017	10/12/2017 03:52	EPA 8260B	D
Trichlorofluoromethane	ND	3.3	13	ug/L	25	10/11/2017	10/12/2017 03:52	EPA 8260B	
Vinyl chloride	ND	4.0	13	ug/L	25	10/11/2017	10/12/2017 03:52	EPA 8260B	
Xylenes, total	ND	2.9	38	ug/L	25	10/11/2017	10/12/2017 03:52	EPA 8260B	
Surrogate: Dibromofluoromethane			*106 %*	*68.9-141*		*10/11/2017*	*10/12/2017 03:52*	*EPA 8260B*	
Surrogate: Toluene-d8			*96.5 %*	*73.3-114*		*10/11/2017*	*10/12/2017 03:52*	*EPA 8260B*	
Surrogate: 4-Bromofluorobenzene			*96.0 %*	*72.2-114*		*10/11/2017*	*10/12/2017 03:52*	*EPA 8260B*	

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708 Heartland Trail, Ste 3000	Project Number: 266431
Madison WI, 53717	Project Manager: Andrew Stehn

MW-24

A174110-04 (Water)

Date Sampled
10/09/2017 13:07

Analyte	Result	Limit of Detection	Limit of Quantitation	Units	Dilution	Prepared	Analyzed	Method	Qualifiers
Pace Analytical - Madison									
Polychlorinated Biphenyls by EPA Method 8082							**Preparation Batch:A710057**		
PCB-1016	ND	0.035	0.13	ug/L	1	10/16/2017	10/18/2017 04:07	EPA 8082A	
PCB-1221	ND	0.020	0.25	ug/L	1	10/16/2017	10/18/2017 04:07	EPA 8082A	
PCB-1232	ND	0.037	0.13	ug/L	1	10/16/2017	10/18/2017 04:07	EPA 8082A	
PCB-1242	ND	0.038	0.13	ug/L	1	10/16/2017	10/18/2017 04:07	EPA 8082A	
PCB-1248	ND	0.020	0.13	ug/L	1	10/16/2017	10/18/2017 04:07	EPA 8082A	
PCB-1254	ND	0.0090	0.13	ug/L	1	10/16/2017	10/18/2017 04:07	EPA 8082A	
PCB-1260	ND	0.025	0.13	ug/L	1	10/16/2017	10/18/2017 04:07	EPA 8082A	
Total PCBs	ND	0.038	0.25	ug/L	1	10/16/2017	10/18/2017 04:07	EPA 8082A	
Surrogate: Decachlorobiphenyl			*111 %*	*72.5-127*		*10/16/2017*	*10/18/2017 04:07*	*EPA 8082A*	
Surrogate: Tetrachloro-meta-xylene			*101 %*	*59.9-118*		*10/16/2017*	*10/18/2017 04:07*	*EPA 8082A*	
Pace Analytical-Green Bay, WI									
SM 2540C							**Preparation Batch:WET 29822**		
Total Dissolved Solids	**2060**	8.7	20.0	mg/L	1	10/16/2017	10/16/2017 13:58	SM 2540C	
SM 2540D							**Preparation Batch:WET 29806**		
Total Suspended Solids	**1.0**	0.95	2.0	mg/L	1	10/13/2017	10/13/2017 11:26	SM 2540D	Ja

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708 Heartland Trail, Ste 3000	Project Number: 266431
Madison WI, 53717	Project Manager: Andrew Stehn

MW-11S

A174110-05 (Water)

Date Sampled
10/09/2017 15:31

Pace Analytical - Madison

Polychlorinated Biphenyls by EPA Method 8082 — **Preparation Batch:A710057**

Analyte	Result	Limit of Detection	Limit of Quantitation	Units	Dilution	Prepared	Analyzed	Method	Qualifiers
PCB-1016	ND	0.035	0.13	ug/L	1	10/16/2017	10/18/2017 04:32	EPA 8082A	
PCB-1221	ND	0.020	0.25	ug/L	1	10/16/2017	10/18/2017 04:32	EPA 8082A	
PCB-1232	ND	0.037	0.13	ug/L	1	10/16/2017	10/18/2017 04:32	EPA 8082A	
PCB-1242	ND	0.038	0.13	ug/L	1	10/16/2017	10/18/2017 04:32	EPA 8082A	
PCB-1248	ND	0.020	0.13	ug/L	1	10/16/2017	10/18/2017 04:32	EPA 8082A	
PCB-1254	ND	0.0090	0.13	ug/L	1	10/16/2017	10/18/2017 04:32	EPA 8082A	
PCB-1260	ND	0.025	0.13	ug/L	1	10/16/2017	10/18/2017 04:32	EPA 8082A	
Total PCBs	ND	0.038	0.25	ug/L	1	10/16/2017	10/18/2017 04:32	EPA 8082A	
Surrogate: Decachlorobiphenyl			*119 %*	*72.5-127*		*10/16/2017*	*10/18/2017 04:32*	*EPA 8082A*	
Surrogate: Tetrachloro-meta-xylene			*110 %*	*59.9-118*		*10/16/2017*	*10/18/2017 04:32*	*EPA 8082A*	

Pace Analytical-Green Bay, WI

SM 2540C — **Preparation Batch:WET 29822**

Total Dissolved Solids	**1960**	8.7	20.0	mg/L	1	10/16/2017	10/16/2017 13:58	SM 2540C	

SM 2540D — **Preparation Batch:WET 29806**

Total Suspended Solids	ND	0.95	2.0	mg/L	1	10/13/2017	10/13/2017 11:26	SM 2540D	

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708 Heartland Trail, Ste 3000	Project Number: 266431
Madison WI, 53717	Project Manager: Andrew Stehn

MW-28

A174110-06 (Water)

Date Sampled
10/10/2017 13:57

Pace Analytical - Madison

Polychlorinated Biphenyls by EPA Method 8082 — **Preparation Batch:A710057**

Analyte	Result	Limit of Detection	Limit of Quantitation	Units	Dilution	Prepared	Analyzed	Method	Qualifiers
PCB-1016	ND	0.035	0.13	ug/L	1	10/16/2017	10/18/2017 04:57	EPA 8082A	
PCB-1221	ND	0.020	0.25	ug/L	1	10/16/2017	10/18/2017 04:57	EPA 8082A	
PCB-1232	ND	0.037	0.13	ug/L	1	10/16/2017	10/18/2017 04:57	EPA 8082A	
PCB-1242	ND	0.038	0.13	ug/L	1	10/16/2017	10/18/2017 04:57	EPA 8082A	
PCB-1248	ND	0.020	0.13	ug/L	1	10/16/2017	10/18/2017 04:57	EPA 8082A	
PCB-1254	ND	0.0090	0.13	ug/L	1	10/16/2017	10/18/2017 04:57	EPA 8082A	
PCB-1260	ND	0.025	0.13	ug/L	1	10/16/2017	10/18/2017 04:57	EPA 8082A	
Total PCBs	ND	0.038	0.25	ug/L	1	10/16/2017	10/18/2017 04:57	EPA 8082A	
Surrogate: Decachlorobiphenyl			*115 %*	*72.5-127*		*10/16/2017*	*10/18/2017 04:57*	*EPA 8082A*	
Surrogate: Tetrachloro-meta-xylene			*99.8 %*	*59.9-118*		*10/16/2017*	*10/18/2017 04:57*	*EPA 8082A*	

Pace Analytical-Green Bay, WI

SM 2540C — **Preparation Batch:WET 29822**

Analyte	Result	Limit of Detection	Limit of Quantitation	Units	Dilution	Prepared	Analyzed	Method	Qualifiers
Total Dissolved Solids	**1530**	8.7	20.0	mg/L	1	10/16/2017	10/16/2017 13:58	SM 2540C	

SM 2540D — **Preparation Batch:WET 29806**

Analyte	Result	Limit of Detection	Limit of Quantitation	Units	Dilution	Prepared	Analyzed	Method	Qualifiers
Total Suspended Solids	ND	0.95	2.0	mg/L	1	10/13/2017	10/13/2017 11:26	SM 2540D	

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Revised Report

TRC Environmental Corporation, Inc.	Project: Madison Kipp Corp. Semi-Annual Sampling
708 Heartland Trail, Ste 3000	Project Number: 266431
Madison WI, 53717	Project Manager: Andrew Stehn

DUP-05

A174110-07 (Water)

Date Sampled
10/09/2017 00:00

Pace Analytical - Madison

Analyte	Result	Limit of Detection	Limit of Quantitation	Units	Dilution	Prepared	Analyzed	Method	Qualifiers
Polychlorinated Biphenyls by EPA Method 8082						**Preparation Batch:A710057**			
PCB-1016	ND	0.035	0.13	ug/L	1	10/16/2017	10/18/2017 05:21	EPA 8082A	
PCB-1221	ND	0.020	0.25	ug/L	1	10/16/2017	10/18/2017 05:21	EPA 8082A	
PCB-1232	ND	0.037	0.13	ug/L	1	10/16/2017	10/18/2017 05:21	EPA 8082A	
PCB-1242	ND	0.038	0.13	ug/L	1	10/16/2017	10/18/2017 05:21	EPA 8082A	
PCB-1248	ND	0.020	0.13	ug/L	1	10/16/2017	10/18/2017 05:21	EPA 8082A	
PCB-1254	ND	0.0090	0.13	ug/L	1	10/16/2017	10/18/2017 05:21	EPA 8082A	
PCB-1260	ND	0.025	0.13	ug/L	1	10/16/2017	10/18/2017 05:21	EPA 8082A	
Total PCBs	ND	0.038	0.25	ug/L	1	10/16/2017	10/18/2017 05:21	EPA 8082A	
Surrogate: Decachlorobiphenyl			*118 %*	*72.5-127*		*10/16/2017*	*10/18/2017 05:21*	*EPA 8082A*	
Surrogate: Tetrachloro-meta-xylene			*110 %*	*59.9-118*		*10/16/2017*	*10/18/2017 05:21*	*EPA 8082A*	
Volatile Organic Compounds by Method 8260 - Purge and Trap						**Preparation Batch:A710035**			
1,1,1,2-Tetrachloroethane	ND	0.11	0.50	ug/L	1	10/11/2017	10/12/2017 08:40	EPA 8260B	
1,1,1-Trichloroethane	ND	0.10	0.50	ug/L	1	10/11/2017	10/12/2017 08:40	EPA 8260B	
1,1,2,2-Tetrachloroethane	ND	0.099	0.50	ug/L	1	10/11/2017	10/12/2017 08:40	EPA 8260B	
1,1,2-Trichloroethane	ND	0.10	0.50	ug/L	1	10/11/2017	10/12/2017 08:40	EPA 8260B	
1,1,2-Trichlorotrifluoroethane	ND	0.13	0.50	ug/L	1	10/11/2017	10/12/2017 08:40	EPA 8260B	
1,1-Dichloroethane	ND	0.12	0.50	ug/L	1	10/11/2017	10/12/2017 08:40	EPA 8260B	
1,1-Dichloroethene	ND	0.14	0.50	ug/L	1	10/11/2017	10/12/2017 08:40	EPA 8260B	
1,1-Dichloropropene	ND	0.11	0.50	ug/L	1	10/11/2017	10/12/2017 08:40	EPA 8260B	
1,2,3-Trichlorobenzene	ND	0.045	2.0	ug/L	1	10/11/2017	10/12/2017 08:40	EPA 8260B	
1,2,3-Trichloropropane	ND	0.15	1.0	ug/L	1	10/11/2017	10/12/2017 08:40	EPA 8260B	
1,2,4-Trichlorobenzene	ND	0.077	2.0	ug/L	1	10/11/2017	10/12/2017 08:40	EPA 8260B	
1,2,4-Trimethylbenzene	**0.30**	0.060	0.50	ug/L	1	10/11/2017	10/12/2017 08:40	EPA 8260B	J
1,2-Dibromo-3-chloropropane	ND	0.25	0.50	ug/L	1	10/11/2017	10/12/2017 08:40	EPA 8260B	
1,2-Dibromoethane (EDB)	ND	0.13	0.50	ug/L	1	10/11/2017	10/12/2017 08:40	EPA 8260B	
1,2-Dichlorobenzene	ND	0.076	0.50	ug/L	1	10/11/2017	10/12/2017 08:40	EPA 8260B	
1,2-Dichloroethane	ND	0.078	0.50	ug/L	1	10/11/2017	10/12/2017 08:40	EPA 8260B	
1,2-Dichloropropane	ND	0.10	0.50	ug/L	1	10/11/2017	10/12/2017 08:40	EPA 8260B	
1,3,5-Trimethylbenzene	**0.15**	0.075	0.50	ug/L	1	10/11/2017	10/12/2017 08:40	EPA 8260B	J
1,3-Dichlorobenzene	ND	0.096	0.50	ug/L	1	10/11/2017	10/12/2017 08:40	EPA 8260B	
1,3-Dichloropropane	ND	0.11	0.50	ug/L	1	10/11/2017	10/12/2017 08:40	EPA 8260B	
1,4-Dichlorobenzene	ND	0.070	0.50	ug/L	1	10/11/2017	10/12/2017 08:40	EPA 8260B	
2,2-Dichloropropane	ND	0.14	0.50	ug/L	1	10/11/2017	10/12/2017 08:40	EPA 8260B	
2-Butanone	ND	3.0	20	ug/L	1	10/11/2017	10/12/2017 08:40	EPA 8260B	
2-Chlorotoluene	ND	0.075	0.50	ug/L	1	10/11/2017	10/12/2017 08:40	EPA 8260B	
2-Hexanone	ND	0.95	20	ug/L	1	10/11/2017	10/12/2017 08:40	EPA 8260B	
4-Chlorotoluene	ND	0.073	0.50	ug/L	1	10/11/2017	10/12/2017 08:40	EPA 8260B	
4-Methyl-2-pentanone	ND	0.77	20	ug/L	1	10/11/2017	10/12/2017 08:40	EPA 8260B	
Acetone	ND	3.4	20	ug/L	1	10/11/2017	10/12/2017 08:40	EPA 8260B	

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Revised Report

TRC Environmental Corporation, Inc.	Project: Madison Kipp Corp. Semi-Annual Sampling
708 Heartland Trail, Ste 3000	Project Number: 266431
Madison WI, 53717	Project Manager: Andrew Stehn

DUP-05

A174110-07 (Water)

Date Sampled
10/09/2017 00:00

Pace Analytical - Madison

Volatile Organic Compounds by Method 8260 - Purge and Trap — **Preparation Batch:A710035**

Analyte	Result	Limit of Detection	Limit of Quantitation	Units	Dilution	Prepared	Analyzed	Method	Qualifiers
Benzene	**0.65**	0.089	0.50	ug/L	1	10/11/2017	10/12/2017 08:40	EPA 8260B	
Bromobenzene	ND	0.084	0.50	ug/L	1	10/11/2017	10/12/2017 08:40	EPA 8260B	
Bromochloromethane	ND	0.31	0.50	ug/L	1	10/11/2017	10/12/2017 08:40	EPA 8260B	
Bromodichloromethane	ND	0.077	0.50	ug/L	1	10/11/2017	10/12/2017 08:40	EPA 8260B	
Bromoform	ND	0.088	0.50	ug/L	1	10/11/2017	10/12/2017 08:40	EPA 8260B	
Bromomethane	ND	0.59	5.0	ug/L	1	10/11/2017	10/12/2017 08:40	EPA 8260B	
Carbon disulfide	ND	0.053	0.50	ug/L	1	10/11/2017	10/12/2017 08:40	EPA 8260B	
Carbon tetrachloride	ND	0.038	0.50	ug/L	1	10/11/2017	10/12/2017 08:40	EPA 8260B	
Chlorobenzene	ND	0.073	0.50	ug/L	1	10/11/2017	10/12/2017 08:40	EPA 8260B	
Chloroethane	ND	0.25	5.0	ug/L	1	10/11/2017	10/12/2017 08:40	EPA 8260B	
Chloroform	ND	0.062	0.50	ug/L	1	10/11/2017	10/12/2017 08:40	EPA 8260B	
Chloromethane	**3.6**	0.16	2.0	ug/L	1	10/11/2017	10/12/2017 08:40	EPA 8260B	
cis-1,2-Dichloroethene	ND	0.11	0.50	ug/L	1	10/11/2017	10/12/2017 08:40	EPA 8260B	
cis-1,3-Dichloropropene	ND	0.061	0.50	ug/L	1	10/11/2017	10/12/2017 08:40	EPA 8260B	
Dibromochloromethane	ND	0.091	0.50	ug/L	1	10/11/2017	10/12/2017 08:40	EPA 8260B	
Dibromomethane	ND	0.14	0.50	ug/L	1	10/11/2017	10/12/2017 08:40	EPA 8260B	
Dichlorodifluoromethane	ND	0.11	0.50	ug/L	1	10/11/2017	10/12/2017 08:40	EPA 8260B	
Diisopropyl Ether	ND	0.15	0.50	ug/L	1	10/11/2017	10/12/2017 08:40	EPA 8260B	
Ethylbenzene	**0.75**	0.054	0.50	ug/L	1	10/11/2017	10/12/2017 08:40	EPA 8260B	
Hexachlorobutadiene	ND	0.13	2.0	ug/L	1	10/11/2017	10/12/2017 08:40	EPA 8260B	
Isopropylbenzene	**0.52**	0.081	0.50	ug/L	1	10/11/2017	10/12/2017 08:40	EPA 8260B	
m,p-Xylene	**0.35**	0.057	1.0	ug/L	1	10/11/2017	10/12/2017 08:40	EPA 8260B	J
Methyl t-Butyl Ether	ND	0.14	0.50	ug/L	1	10/11/2017	10/12/2017 08:40	EPA 8260B	
Methylene chloride	ND	0.14	2.0	ug/L	1	10/11/2017	10/12/2017 08:40	EPA 8260B	
Naphthalene	**0.29**	0.088	5.0	ug/L	1	10/11/2017	10/12/2017 08:40	EPA 8260B	B, J
n-Butyl Benzene	ND	0.14	0.50	ug/L	1	10/11/2017	10/12/2017 08:40	EPA 8260B	
n-Hexane	ND	0.21	0.50	ug/L	1	10/11/2017	10/12/2017 08:40	EPA 8260B	
n-Propyl Benzene	ND	0.10	0.50	ug/L	1	10/11/2017	10/12/2017 08:40	EPA 8260B	
o-Xylene	**0.10**	0.058	0.50	ug/L	1	10/11/2017	10/12/2017 08:40	EPA 8260B	J
p-Isopropyltoluene	**0.14**	0.085	0.50	ug/L	1	10/11/2017	10/12/2017 08:40	EPA 8260B	J
sec-Butyl Benzene	ND	0.13	0.50	ug/L	1	10/11/2017	10/12/2017 08:40	EPA 8260B	
Styrene	**0.070**	0.065	0.50	ug/L	1	10/11/2017	10/12/2017 08:40	EPA 8260B	J
tert-Butylbenzene	ND	0.12	0.50	ug/L	1	10/11/2017	10/12/2017 08:40	EPA 8260B	
Tetrachloroethene	ND	0.081	0.50	ug/L	1	10/11/2017	10/12/2017 08:40	EPA 8260B	
Tetrahydrofuran	ND	1.2	10	ug/L	1	10/11/2017	10/12/2017 08:40	EPA 8260B	
Toluene	**0.32**	0.053	0.50	ug/L	1	10/11/2017	10/12/2017 08:40	EPA 8260B	J
trans-1,2-Dichloroethene	ND	0.11	0.50	ug/L	1	10/11/2017	10/12/2017 08:40	EPA 8260B	
trans-1,3-Dichloropropene	ND	0.096	0.50	ug/L	1	10/11/2017	10/12/2017 08:40	EPA 8260B	
Trichloroethene	ND	0.062	0.50	ug/L	1	10/11/2017	10/12/2017 08:40	EPA 8260B	
Trichlorofluoromethane	ND	0.13	0.50	ug/L	1	10/11/2017	10/12/2017 08:40	EPA 8260B	

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708 Heartland Trail, Ste 3000	Project Number: 266431
Madison WI, 53717	Project Manager: Andrew Stehn

DUP-05

A174110-07 (Water)

Date Sampled
10/09/2017 00:00

Analyte	Result	Limit of Detection	Limit of Quantitation	Units	Dilution	Prepared	Analyzed	Method	Qualifiers
Pace Analytical - Madison									
Volatile Organic Compounds by Method 8260 - Purge and Trap						**Preparation Batch:A710035**			
Vinyl chloride	ND	0.16	0.50	ug/L	1	10/11/2017	10/12/2017 08:40	EPA 8260B	
Xylenes, total	**0.45**	0.12	1.5	ug/L	1	10/11/2017	10/12/2017 08:40	EPA 8260B	J
Surrogate: Dibromofluoromethane			*102 %*	*68.9-141*		*10/11/2017*	*10/12/2017 08:40*	*EPA 8260B*	
Surrogate: Toluene-d8			*98.2 %*	*73.3-114*		*10/11/2017*	*10/12/2017 08:40*	*EPA 8260B*	
Surrogate: 4-Bromofluorobenzene			*97.5 %*	*72.2-114*		*10/11/2017*	*10/12/2017 08:40*	*EPA 8260B*	
Pace Analytical-Green Bay, WI									
SM 2540C						**Preparation Batch:WET 29822**			
Total Dissolved Solids	**3910**	8.7	20.0	mg/L	1	10/16/2017	10/16/2017 13:59	SM 2540C	
SM 2540D						**Preparation Batch:WET 29806**			
Total Suspended Solids	**1.2**	0.95	2.0	mg/L	1	10/13/2017	10/13/2017 11:26	SM 2540D	Ja

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708 Heartland Trail, Ste 3000	Project Number: 266431
Madison WI, 53717	Project Manager: Andrew Stehn

FB-01

A174110-08 (Water)

Date Sampled
10/09/2017 15:08

Pace Analytical - Madison

Analyte	Result	Limit of Detection	Limit of Quantitation	Units	Dilution	Prepared	Analyzed	Method	Qualifiers
Polychlorinated Biphenyls by EPA Method 8082						**Preparation Batch:A710057**			
PCB-1016	ND	0.035	0.13	ug/L	1	10/16/2017	10/18/2017 05:46	EPA 8082A	
PCB-1221	ND	0.020	0.25	ug/L	1	10/16/2017	10/18/2017 05:46	EPA 8082A	
PCB-1232	ND	0.037	0.13	ug/L	1	10/16/2017	10/18/2017 05:46	EPA 8082A	
PCB-1242	ND	0.038	0.13	ug/L	1	10/16/2017	10/18/2017 05:46	EPA 8082A	
PCB-1248	ND	0.020	0.13	ug/L	1	10/16/2017	10/18/2017 05:46	EPA 8082A	
PCB-1254	ND	0.0090	0.13	ug/L	1	10/16/2017	10/18/2017 05:46	EPA 8082A	
PCB-1260	ND	0.025	0.13	ug/L	1	10/16/2017	10/18/2017 05:46	EPA 8082A	
Total PCBs	ND	0.038	0.25	ug/L	1	10/16/2017	10/18/2017 05:46	EPA 8082A	
Surrogate: Decachlorobiphenyl			*111 %*	*72.5-127*		*10/16/2017*	*10/18/2017 05:46*	*EPA 8082A*	
Surrogate: Tetrachloro-meta-xylene			*95.6 %*	*59.9-118*		*10/16/2017*	*10/18/2017 05:46*	*EPA 8082A*	
Volatile Organic Compounds by Method 8260 - Purge and Trap						**Preparation Batch:A710035**			
1,1,1,2-Tetrachloroethane	ND	0.11	0.50	ug/L	1	10/11/2017	10/12/2017 05:44	EPA 8260B	
1,1,1-Trichloroethane	ND	0.10	0.50	ug/L	1	10/11/2017	10/12/2017 05:44	EPA 8260B	
1,1,2,2-Tetrachloroethane	ND	0.099	0.50	ug/L	1	10/11/2017	10/12/2017 05:44	EPA 8260B	
1,1,2-Trichloroethane	ND	0.10	0.50	ug/L	1	10/11/2017	10/12/2017 05:44	EPA 8260B	
1,1,2-Trichlorotrifluoroethane	ND	0.13	0.50	ug/L	1	10/11/2017	10/12/2017 05:44	EPA 8260B	
1,1-Dichloroethane	ND	0.12	0.50	ug/L	1	10/11/2017	10/12/2017 05:44	EPA 8260B	
1,1-Dichloroethene	ND	0.14	0.50	ug/L	1	10/11/2017	10/12/2017 05:44	EPA 8260B	
1,1-Dichloropropene	ND	0.11	0.50	ug/L	1	10/11/2017	10/12/2017 05:44	EPA 8260B	
1,2,3-Trichlorobenzene	ND	0.045	2.0	ug/L	1	10/11/2017	10/12/2017 05:44	EPA 8260B	
1,2,3-Trichloropropane	ND	0.15	1.0	ug/L	1	10/11/2017	10/12/2017 05:44	EPA 8260B	
1,2,4-Trichlorobenzene	ND	0.077	2.0	ug/L	1	10/11/2017	10/12/2017 05:44	EPA 8260B	
1,2,4-Trimethylbenzene	**0.16**	0.060	0.50	ug/L	1	10/11/2017	10/12/2017 05:44	EPA 8260B	J
1,2-Dibromo-3-chloropropane	ND	0.25	0.50	ug/L	1	10/11/2017	10/12/2017 05:44	EPA 8260B	
1,2-Dibromoethane (EDB)	ND	0.13	0.50	ug/L	1	10/11/2017	10/12/2017 05:44	EPA 8260B	
1,2-Dichlorobenzene	ND	0.076	0.50	ug/L	1	10/11/2017	10/12/2017 05:44	EPA 8260B	
1,2-Dichloroethane	ND	0.078	0.50	ug/L	1	10/11/2017	10/12/2017 05:44	EPA 8260B	
1,2-Dichloropropane	ND	0.10	0.50	ug/L	1	10/11/2017	10/12/2017 05:44	EPA 8260B	
1,3,5-Trimethylbenzene	ND	0.075	0.50	ug/L	1	10/11/2017	10/12/2017 05:44	EPA 8260B	
1,3-Dichlorobenzene	ND	0.096	0.50	ug/L	1	10/11/2017	10/12/2017 05:44	EPA 8260B	
1,3-Dichloropropane	ND	0.11	0.50	ug/L	1	10/11/2017	10/12/2017 05:44	EPA 8260B	
1,4-Dichlorobenzene	ND	0.070	0.50	ug/L	1	10/11/2017	10/12/2017 05:44	EPA 8260B	
2,2-Dichloropropane	ND	0.14	0.50	ug/L	1	10/11/2017	10/12/2017 05:44	EPA 8260B	
2-Butanone	ND	3.0	20	ug/L	1	10/11/2017	10/12/2017 05:44	EPA 8260B	
2-Chlorotoluene	ND	0.075	0.50	ug/L	1	10/11/2017	10/12/2017 05:44	EPA 8260B	
2-Hexanone	ND	0.95	20	ug/L	1	10/11/2017	10/12/2017 05:44	EPA 8260B	
4-Chlorotoluene	ND	0.073	0.50	ug/L	1	10/11/2017	10/12/2017 05:44	EPA 8260B	
4-Methyl-2-pentanone	ND	0.77	20	ug/L	1	10/11/2017	10/12/2017 05:44	EPA 8260B	
Acetone	ND	3.4	20	ug/L	1	10/11/2017	10/12/2017 05:44	EPA 8260B	

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FB-01

A174110-08 (Water)

Date Sampled
10/09/2017 15:08

Pace Analytical - Madison

Volatile Organic Compounds by Method 8260 - Purge and Trap — **Preparation Batch:A710035**

Analyte	Result	Limit of Detection	Limit of Quantitation	Units	Dilution	Prepared	Analyzed	Method	Qualifiers
Benzene	**0.24**	0.089	0.50	ug/L	1	10/11/2017	10/12/2017 05:44	EPA 8260B	J
Bromobenzene	ND	0.084	0.50	ug/L	1	10/11/2017	10/12/2017 05:44	EPA 8260B	
Bromochloromethane	ND	0.31	0.50	ug/L	1	10/11/2017	10/12/2017 05:44	EPA 8260B	
Bromodichloromethane	ND	0.077	0.50	ug/L	1	10/11/2017	10/12/2017 05:44	EPA 8260B	
Bromoform	ND	0.088	0.50	ug/L	1	10/11/2017	10/12/2017 05:44	EPA 8260B	
Bromomethane	ND	0.59	5.0	ug/L	1	10/11/2017	10/12/2017 05:44	EPA 8260B	
Carbon disulfide	ND	0.053	0.50	ug/L	1	10/11/2017	10/12/2017 05:44	EPA 8260B	
Carbon tetrachloride	ND	0.038	0.50	ug/L	1	10/11/2017	10/12/2017 05:44	EPA 8260B	
Chlorobenzene	ND	0.073	0.50	ug/L	1	10/11/2017	10/12/2017 05:44	EPA 8260B	
Chloroethane	ND	0.25	5.0	ug/L	1	10/11/2017	10/12/2017 05:44	EPA 8260B	
Chloroform	ND	0.062	0.50	ug/L	1	10/11/2017	10/12/2017 05:44	EPA 8260B	
Chloromethane	**1.2**	0.16	2.0	ug/L	1	10/11/2017	10/12/2017 05:44	EPA 8260B	J
cis-1,2-Dichloroethene	ND	0.11	0.50	ug/L	1	10/11/2017	10/12/2017 05:44	EPA 8260B	
cis-1,3-Dichloropropene	ND	0.061	0.50	ug/L	1	10/11/2017	10/12/2017 05:44	EPA 8260B	
Dibromochloromethane	ND	0.091	0.50	ug/L	1	10/11/2017	10/12/2017 05:44	EPA 8260B	
Dibromomethane	ND	0.14	0.50	ug/L	1	10/11/2017	10/12/2017 05:44	EPA 8260B	
Dichlorodifluoromethane	ND	0.11	0.50	ug/L	1	10/11/2017	10/12/2017 05:44	EPA 8260B	
Diisopropyl Ether	ND	0.15	0.50	ug/L	1	10/11/2017	10/12/2017 05:44	EPA 8260B	
Ethylbenzene	ND	0.054	0.50	ug/L	1	10/11/2017	10/12/2017 05:44	EPA 8260B	
Hexachlorobutadiene	ND	0.13	2.0	ug/L	1	10/11/2017	10/12/2017 05:44	EPA 8260B	
Isopropylbenzene	ND	0.081	0.50	ug/L	1	10/11/2017	10/12/2017 05:44	EPA 8260B	
m,p-Xylene	**0.15**	0.057	1.0	ug/L	1	10/11/2017	10/12/2017 05:44	EPA 8260B	J
Methyl t-Butyl Ether	ND	0.14	0.50	ug/L	1	10/11/2017	10/12/2017 05:44	EPA 8260B	
Methylene chloride	ND	0.14	2.0	ug/L	1	10/11/2017	10/12/2017 05:44	EPA 8260B	
Naphthalene	**0.24**	0.088	5.0	ug/L	1	10/11/2017	10/12/2017 05:44	EPA 8260B	B, J
n-Butyl Benzene	ND	0.14	0.50	ug/L	1	10/11/2017	10/12/2017 05:44	EPA 8260B	
n-Hexane	ND	0.21	0.50	ug/L	1	10/11/2017	10/12/2017 05:44	EPA 8260B	
n-Propyl Benzene	ND	0.10	0.50	ug/L	1	10/11/2017	10/12/2017 05:44	EPA 8260B	
o-Xylene	ND	0.058	0.50	ug/L	1	10/11/2017	10/12/2017 05:44	EPA 8260B	
p-Isopropyltoluene	ND	0.085	0.50	ug/L	1	10/11/2017	10/12/2017 05:44	EPA 8260B	
sec-Butyl Benzene	ND	0.13	0.50	ug/L	1	10/11/2017	10/12/2017 05:44	EPA 8260B	
Styrene	ND	0.065	0.50	ug/L	1	10/11/2017	10/12/2017 05:44	EPA 8260B	
tert-Butylbenzene	ND	0.12	0.50	ug/L	1	10/11/2017	10/12/2017 05:44	EPA 8260B	
Tetrachloroethene	**0.29**	0.081	0.50	ug/L	1	10/11/2017	10/12/2017 05:44	EPA 8260B	B, J
Tetrahydrofuran	ND	1.2	10	ug/L	1	10/11/2017	10/12/2017 05:44	EPA 8260B	
Toluene	**0.23**	0.053	0.50	ug/L	1	10/11/2017	10/12/2017 05:44	EPA 8260B	J
trans-1,2-Dichloroethene	ND	0.11	0.50	ug/L	1	10/11/2017	10/12/2017 05:44	EPA 8260B	
trans-1,3-Dichloropropene	ND	0.096	0.50	ug/L	1	10/11/2017	10/12/2017 05:44	EPA 8260B	
Trichloroethene	ND	0.062	0.50	ug/L	1	10/11/2017	10/12/2017 05:44	EPA 8260B	
Trichlorofluoromethane	ND	0.13	0.50	ug/L	1	10/11/2017	10/12/2017 05:44	EPA 8260B	

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Revised Report

TRC Environmental Corporation, Inc.	Project: Madison Kipp Corp. Semi-Annual Sampling
708 Heartland Trail, Ste 3000	Project Number: 266431
Madison WI, 53717	Project Manager: Andrew Stehn

FB-01

A174110-08 (Water)

Date Sampled
10/09/2017 15:08

Analyte	Result	Limit of Detection	Limit of Quantitation	Units	Dilution	Prepared	Analyzed	Method	Qualifiers
Pace Analytical - Madison									
Volatile Organic Compounds by Method 8260 - Purge and Trap						**Preparation Batch:A710035**			
Vinyl chloride	ND	0.16	0.50	ug/L	1	10/11/2017	10/12/2017 05:44	EPA 8260B	
Xylenes, total	**0.15**	0.12	1.5	ug/L	1	10/11/2017	10/12/2017 05:44	EPA 8260B	J
Surrogate: Dibromofluoromethane			*102 %*	*68.9-141*		*10/11/2017*	*10/12/2017 05:44*	*EPA 8260B*	
Surrogate: Toluene-d8			*95.8 %*	*73.3-114*		*10/11/2017*	*10/12/2017 05:44*	*EPA 8260B*	
Surrogate: 4-Bromofluorobenzene			*94.3 %*	*72.2-114*		*10/11/2017*	*10/12/2017 05:44*	*EPA 8260B*	
Pace Analytical-Green Bay, WI									
SM 2540C						**Preparation Batch:WET 29822**			
Total Dissolved Solids	ND	8.7	20.0	mg/L	1	10/16/2017	10/16/2017 13:59	SM 2540C	
SM 2540D						**Preparation Batch:WET 29806**			
Total Suspended Solids	ND	0.95	2.0	mg/L	1	10/13/2017	10/13/2017 11:27	SM 2540D	

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TRC Environmental Corporation, Inc.	Project: Madison Kipp Corp. Semi-Annual Sampling
708 Heartland Trail, Ste 3000	Project Number: 266431
Madison WI, 53717	Project Manager: Andrew Stehn

Trip Blank

A174110-09 (Water)

Date Sampled
10/09/2017 00:00

Pace Analytical - Madison

Volatile Organic Compounds by Method 8260 - Purge and Trap — **Preparation Batch:A710035**

Analyte	Result	Limit of Detection	Limit of Quantitation	Units	Dilution	Prepared	Analyzed	Method	Qualifiers
1,1,1,2-Tetrachloroethane	ND	0.11	0.50	ug/L	1	10/11/2017	10/12/2017 05:16	EPA 8260B	
1,1,1-Trichloroethane	ND	0.10	0.50	ug/L	1	10/11/2017	10/12/2017 05:16	EPA 8260B	
1,1,2,2-Tetrachloroethane	ND	0.099	0.50	ug/L	1	10/11/2017	10/12/2017 05:16	EPA 8260B	
1,1,2-Trichloroethane	ND	0.10	0.50	ug/L	1	10/11/2017	10/12/2017 05:16	EPA 8260B	
1,1,2-Trichlorotrifluoroethane	ND	0.13	0.50	ug/L	1	10/11/2017	10/12/2017 05:16	EPA 8260B	
1,1-Dichloroethane	ND	0.12	0.50	ug/L	1	10/11/2017	10/12/2017 05:16	EPA 8260B	
1,1-Dichloroethene	ND	0.14	0.50	ug/L	1	10/11/2017	10/12/2017 05:16	EPA 8260B	
1,1-Dichloropropene	ND	0.11	0.50	ug/L	1	10/11/2017	10/12/2017 05:16	EPA 8260B	
1,2,3-Trichlorobenzene	ND	0.045	2.0	ug/L	1	10/11/2017	10/12/2017 05:16	EPA 8260B	
1,2,3-Trichloropropane	ND	0.15	1.0	ug/L	1	10/11/2017	10/12/2017 05:16	EPA 8260B	
1,2,4-Trichlorobenzene	ND	0.077	2.0	ug/L	1	10/11/2017	10/12/2017 05:16	EPA 8260B	
1,2,4-Trimethylbenzene	ND	0.060	0.50	ug/L	1	10/11/2017	10/12/2017 05:16	EPA 8260B	
1,2-Dibromo-3-chloropropane	ND	0.25	0.50	ug/L	1	10/11/2017	10/12/2017 05:16	EPA 8260B	
1,2-Dibromoethane (EDB)	ND	0.13	0.50	ug/L	1	10/11/2017	10/12/2017 05:16	EPA 8260B	
1,2-Dichlorobenzene	ND	0.076	0.50	ug/L	1	10/11/2017	10/12/2017 05:16	EPA 8260B	
1,2-Dichloroethane	ND	0.078	0.50	ug/L	1	10/11/2017	10/12/2017 05:16	EPA 8260B	
1,2-Dichloropropane	ND	0.10	0.50	ug/L	1	10/11/2017	10/12/2017 05:16	EPA 8260B	
1,3,5-Trimethylbenzene	ND	0.075	0.50	ug/L	1	10/11/2017	10/12/2017 05:16	EPA 8260B	
1,3-Dichlorobenzene	ND	0.096	0.50	ug/L	1	10/11/2017	10/12/2017 05:16	EPA 8260B	
1,3-Dichloropropane	ND	0.11	0.50	ug/L	1	10/11/2017	10/12/2017 05:16	EPA 8260B	
1,4-Dichlorobenzene	ND	0.070	0.50	ug/L	1	10/11/2017	10/12/2017 05:16	EPA 8260B	
2,2-Dichloropropane	ND	0.14	0.50	ug/L	1	10/11/2017	10/12/2017 05:16	EPA 8260B	
2-Butanone	ND	3.0	20	ug/L	1	10/11/2017	10/12/2017 05:16	EPA 8260B	
2-Chlorotoluene	ND	0.075	0.50	ug/L	1	10/11/2017	10/12/2017 05:16	EPA 8260B	
2-Hexanone	ND	0.95	20	ug/L	1	10/11/2017	10/12/2017 05:16	EPA 8260B	
4-Chlorotoluene	ND	0.073	0.50	ug/L	1	10/11/2017	10/12/2017 05:16	EPA 8260B	
4-Methyl-2-pentanone	ND	0.77	20	ug/L	1	10/11/2017	10/12/2017 05:16	EPA 8260B	
Acetone	ND	3.4	20	ug/L	1	10/11/2017	10/12/2017 05:16	EPA 8260B	
Benzene	ND	0.089	0.50	ug/L	1	10/11/2017	10/12/2017 05:16	EPA 8260B	
Bromobenzene	ND	0.084	0.50	ug/L	1	10/11/2017	10/12/2017 05:16	EPA 8260B	
Bromochloromethane	ND	0.31	0.50	ug/L	1	10/11/2017	10/12/2017 05:16	EPA 8260B	
Bromodichloromethane	ND	0.077	0.50	ug/L	1	10/11/2017	10/12/2017 05:16	EPA 8260B	
Bromoform	ND	0.088	0.50	ug/L	1	10/11/2017	10/12/2017 05:16	EPA 8260B	
Bromomethane	ND	0.59	5.0	ug/L	1	10/11/2017	10/12/2017 05:16	EPA 8260B	
Carbon disulfide	ND	0.053	0.50	ug/L	1	10/11/2017	10/12/2017 05:16	EPA 8260B	
Carbon tetrachloride	ND	0.038	0.50	ug/L	1	10/11/2017	10/12/2017 05:16	EPA 8260B	
Chlorobenzene	ND	0.073	0.50	ug/L	1	10/11/2017	10/12/2017 05:16	EPA 8260B	
Chloroethane	ND	0.25	5.0	ug/L	1	10/11/2017	10/12/2017 05:16	EPA 8260B	
Chloroform	ND	0.062	0.50	ug/L	1	10/11/2017	10/12/2017 05:16	EPA 8260B	

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Revised Report

TRC Environmental Corporation, Inc.	Project: Madison Kipp Corp. Semi-Annual Sampling
708 Heartland Trail, Ste 3000	Project Number: 266431
Madison WI, 53717	Project Manager: Andrew Stehn

Trip Blank

A174110-09 (Water)

Date Sampled
10/09/2017 00:00

Pace Analytical - Madison

Volatile Organic Compounds by Method 8260 - Purge and Trap — **Preparation Batch:A710035**

Analyte	Result	Limit of Detection	Limit of Quantitation	Units	Dilution	Prepared	Analyzed	Method	Qualifiers
Chloromethane	**1.3**	0.16	2.0	ug/L	1	10/11/2017	10/12/2017 05:16	EPA 8260B	J
cis-1,2-Dichloroethene	ND	0.11	0.50	ug/L	1	10/11/2017	10/12/2017 05:16	EPA 8260B	
cis-1,3-Dichloropropene	ND	0.061	0.50	ug/L	1	10/11/2017	10/12/2017 05:16	EPA 8260B	
Dibromochloromethane	ND	0.091	0.50	ug/L	1	10/11/2017	10/12/2017 05:16	EPA 8260B	
Dibromomethane	ND	0.14	0.50	ug/L	1	10/11/2017	10/12/2017 05:16	EPA 8260B	
Dichlorodifluoromethane	ND	0.11	0.50	ug/L	1	10/11/2017	10/12/2017 05:16	EPA 8260B	
Diisopropyl Ether	ND	0.15	0.50	ug/L	1	10/11/2017	10/12/2017 05:16	EPA 8260B	
Ethylbenzene	ND	0.054	0.50	ug/L	1	10/11/2017	10/12/2017 05:16	EPA 8260B	
Hexachlorobutadiene	ND	0.13	2.0	ug/L	1	10/11/2017	10/12/2017 05:16	EPA 8260B	
Isopropylbenzene	ND	0.081	0.50	ug/L	1	10/11/2017	10/12/2017 05:16	EPA 8260B	
m,p-Xylene	**0.070**	0.057	1.0	ug/L	1	10/11/2017	10/12/2017 05:16	EPA 8260B	J
Methyl t-Butyl Ether	ND	0.14	0.50	ug/L	1	10/11/2017	10/12/2017 05:16	EPA 8260B	
Methylene chloride	ND	0.14	2.0	ug/L	1	10/11/2017	10/12/2017 05:16	EPA 8260B	
Naphthalene	**0.40**	0.088	5.0	ug/L	1	10/11/2017	10/12/2017 05:16	EPA 8260B	B, J
n-Butyl Benzene	ND	0.14	0.50	ug/L	1	10/11/2017	10/12/2017 05:16	EPA 8260B	
n-Hexane	ND	0.21	0.50	ug/L	1	10/11/2017	10/12/2017 05:16	EPA 8260B	
n-Propyl Benzene	ND	0.10	0.50	ug/L	1	10/11/2017	10/12/2017 05:16	EPA 8260B	
o-Xylene	ND	0.058	0.50	ug/L	1	10/11/2017	10/12/2017 05:16	EPA 8260B	
p-Isopropyltoluene	ND	0.085	0.50	ug/L	1	10/11/2017	10/12/2017 05:16	EPA 8260B	
sec-Butyl Benzene	ND	0.13	0.50	ug/L	1	10/11/2017	10/12/2017 05:16	EPA 8260B	
Styrene	**0.090**	0.065	0.50	ug/L	1	10/11/2017	10/12/2017 05:16	EPA 8260B	J
tert-Butylbenzene	ND	0.12	0.50	ug/L	1	10/11/2017	10/12/2017 05:16	EPA 8260B	
Tetrachloroethene	ND	0.081	0.50	ug/L	1	10/11/2017	10/12/2017 05:16	EPA 8260B	
Tetrahydrofuran	ND	1.2	10	ug/L	1	10/11/2017	10/12/2017 05:16	EPA 8260B	
Toluene	ND	0.053	0.50	ug/L	1	10/11/2017	10/12/2017 05:16	EPA 8260B	
trans-1,2-Dichloroethene	ND	0.11	0.50	ug/L	1	10/11/2017	10/12/2017 05:16	EPA 8260B	
trans-1,3-Dichloropropene	ND	0.096	0.50	ug/L	1	10/11/2017	10/12/2017 05:16	EPA 8260B	
Trichloroethene	ND	0.062	0.50	ug/L	1	10/11/2017	10/12/2017 05:16	EPA 8260B	
Trichlorofluoromethane	ND	0.13	0.50	ug/L	1	10/11/2017	10/12/2017 05:16	EPA 8260B	
Vinyl chloride	ND	0.16	0.50	ug/L	1	10/11/2017	10/12/2017 05:16	EPA 8260B	
Xylenes, total	ND	0.12	1.5	ug/L	1	10/11/2017	10/12/2017 05:16	EPA 8260B	
Surrogate: Dibromofluoromethane			*103 %*	*68.9-141*		*10/11/2017*	*10/12/2017 05:16*	*EPA 8260B*	
Surrogate: Toluene-d8			*99.1 %*	*73.3-114*		*10/11/2017*	*10/12/2017 05:16*	*EPA 8260B*	
Surrogate: 4-Bromofluorobenzene			*98.0 %*	*72.2-114*		*10/11/2017*	*10/12/2017 05:16*	*EPA 8260B*	

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Revised Report

TRC Environmental Corporation, Inc.	Project: Madison Kipp Corp. Semi-Annual Sampling
708 Heartland Trail, Ste 3000	Project Number: 266431
Madison WI, 53717	Project Manager: Andrew Stehn

Polychlorinated Biphenyls by EPA Method 8082 - Quality Control

Pace Analytical - Madison

Analyte	Result	Limit of Quantitation	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch A710057 - EPA 3511										
Blank (A710057-BLK1)				Prepared: 10/16/2017 Analyzed: 10/17/2017 21:53						
PCB-1016	ND	0.13	ug/L							
PCB-1221	ND	0.25	ug/L							
PCB-1232	ND	0.13	ug/L							
PCB-1242	ND	0.13	ug/L							
PCB-1248	ND	0.13	ug/L							
PCB-1254	ND	0.13	ug/L							
PCB-1260	ND	0.13	ug/L							
Total PCBs	ND	0.25	ug/L							
Surrogate: Decachlorobiphenyl	*0.921*		*ug/L*	*0.7500*		*123*	*72.5-127*			
Surrogate: Tetrachloro-meta-xylene	*0.766*		*ug/L*	*0.7500*		*102*	*59.9-118*			
LCS (A710057-BS1)				Prepared: 10/16/2017 Analyzed: 10/17/2017 21:28						
PCB-1016	15.1	0.13	ug/L	12.50		121	70-130			
PCB-1260	16.2	0.13	ug/L	12.50		130	70-130			
Surrogate: Decachlorobiphenyl	*0.950*		*ug/L*	*0.7500*		*127*	*72.5-127*			
Surrogate: Tetrachloro-meta-xylene	*0.818*		*ug/L*	*0.7500*		*109*	*59.9-118*			
Matrix Spike (A710057-MS1)	**Source: A174110-01**			Prepared: 10/16/2017 Analyzed: 10/18/2017 06:36						
PCB-1016	15.7	0.13	ug/L	12.50	ND	125	60-140			
PCB-1260	16.4	0.13	ug/L	12.50	ND	131	60-140			
Surrogate: Decachlorobiphenyl	*0.968*		*ug/L*	*0.7500*		*129*	*72.5-127*			*S*
Surrogate: Tetrachloro-meta-xylene	*0.844*		*ug/L*	*0.7500*		*113*	*59.9-118*			
Matrix Spike Dup (A710057-MSD1)	**Source: A174110-01**			Prepared: 10/16/2017 Analyzed: 10/18/2017 07:01						
PCB-1016	15.2	0.13	ug/L	12.50	ND	122	60-140	2.72	20	
PCB-1260	15.9	0.13	ug/L	12.50	ND	127	60-140	3.09	20	
Surrogate: Decachlorobiphenyl	*0.918*		*ug/L*	*0.7500*		*122*	*72.5-127*			
Surrogate: Tetrachloro-meta-xylene	*0.856*		*ug/L*	*0.7500*		*114*	*59.9-118*			

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708 Heartland Trail, Ste 3000	Project Number: 266431
Madison WI, 53717	Project Manager: Andrew Stehn

Volatile Organic Compounds by Method 8260 - Purge and Trap - Quality Control

Pace Analytical - Madison

Analyte	Result	Limit of Quantitation	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch A710035 - EPA 5030B										
Blank (A710035-BLK1)				Prepared: 10/11/2017 Analyzed: 10/11/2017 18:33						
1,1,1,2-Tetrachloroethane	ND	0.50	ug/L							
1,1,1-Trichloroethane	ND	0.50	ug/L							
1,1,2,2-Tetrachloroethane	ND	0.50	ug/L							
1,1,2-Trichloroethane	ND	0.50	ug/L							
1,1,2-Trichlorotrifluoroethane	ND	0.50	ug/L							
1,1-Dichloroethane	ND	0.50	ug/L							
1,1-Dichloroethene	ND	0.50	ug/L							
1,1-Dichloropropene	ND	0.50	ug/L							
1,2,3-Trichlorobenzene	ND	2.0	ug/L							
1,2,3-Trichloropropane	ND	1.0	ug/L							
1,2,4-Trichlorobenzene	ND	2.0	ug/L							
1,2,4-Trimethylbenzene	ND	0.50	ug/L							
1,2-Dibromo-3-chloropropane	ND	0.50	ug/L							
1,2-Dibromoethane (EDB)	ND	0.50	ug/L							
1,2-Dichlorobenzene	ND	0.50	ug/L							
1,2-Dichloroethane	ND	0.50	ug/L							
1,2-Dichloropropane	ND	0.50	ug/L							
1,3,5-Trimethylbenzene	ND	0.50	ug/L							
1,3-Dichlorobenzene	ND	0.50	ug/L							
1,3-Dichloropropane	ND	0.50	ug/L							
1,4-Dichlorobenzene	ND	0.50	ug/L							
2,2-Dichloropropane	ND	0.50	ug/L							
2-Butanone	ND	20	ug/L							
2-Chlorotoluene	ND	0.50	ug/L							
2-Hexanone	ND	20	ug/L							
4-Chlorotoluene	ND	0.50	ug/L							
4-Methyl-2-pentanone	ND	20	ug/L							
Acetone	ND	20	ug/L							
Benzene	ND	0.50	ug/L							
Bromobenzene	ND	0.50	ug/L							
Bromochloromethane	ND	0.50	ug/L							
Bromodichloromethane	ND	0.50	ug/L							
Bromoform	ND	0.50	ug/L							
Bromomethane	ND	5.0	ug/L							
Carbon disulfide	ND	0.50	ug/L							
Carbon tetrachloride	ND	0.50	ug/L							
Chlorobenzene	ND	0.50	ug/L							
Chloroethane	ND	5.0	ug/L							
Chloroform	ND	0.50	ug/L							
Chloromethane	ND	2.0	ug/L							
cis-1,2-Dichloroethene	ND	0.50	ug/L							
cis-1,3-Dichloropropene	ND	0.50	ug/L							
Dibromochloromethane	ND	0.50	ug/L							
Dibromomethane	ND	0.50	ug/L							

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708 Heartland Trail, Ste 3000	Project Number: 266431
Madison WI, 53717	Project Manager: Andrew Stehn

Volatile Organic Compounds by Method 8260 - Purge and Trap - Quality Control

Pace Analytical - Madison

Analyte	Result	Limit of Quantitation	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch A710035 - EPA 5030B										
Blank (A710035-BLK1)			Prepared: 10/11/2017 Analyzed: 10/11/2017 18:33							
Dichlorodifluoromethane	ND	0.50	ug/L							
Diisopropyl Ether	ND	0.50	ug/L							
Ethylbenzene	ND	0.50	ug/L							
Hexachlorobutadiene	ND	2.0	ug/L							
Isopropylbenzene	ND	0.50	ug/L							
m,p-Xylene	ND	1.0	ug/L							
Methyl t-Butyl Ether	ND	0.50	ug/L							
Methylene chloride	ND	2.0	ug/L							
Naphthalene	0.11	5.0	ug/L							J
n-Butyl Benzene	ND	0.50	ug/L							
n-Hexane	ND	0.50	ug/L							
n-Propyl Benzene	ND	0.50	ug/L							
o-Xylene	ND	0.50	ug/L							
p-Isopropyltoluene	ND	0.50	ug/L							
sec-Butyl Benzene	ND	0.50	ug/L							
Styrene	ND	0.50	ug/L							
tert-Butylbenzene	ND	0.50	ug/L							
Tetrachloroethene	0.17	0.50	ug/L							J
Tetrahydrofuran	ND	10	ug/L							
Toluene	ND	0.50	ug/L							
trans-1,2-Dichloroethene	ND	0.50	ug/L							
trans-1,3-Dichloropropene	ND	0.50	ug/L							
Trichloroethene	ND	0.50	ug/L							
Trichlorofluoromethane	ND	0.50	ug/L							
Vinyl chloride	ND	0.50	ug/L							
Xylenes, total	ND	1.5	ug/L							
Surrogate: Dibromofluoromethane	*10.5*		*ug/L*	*10.00*		*105*	*68.9-141*			
Surrogate: Toluene-d8	*10.0*		*ug/L*	*10.00*		*100*	*73.3-114*			
Surrogate: 4-Bromofluorobenzene	*9.72*		*ug/L*	*10.00*		*97.2*	*72.2-114*			
LCS (A710035-BS1)			Prepared: 10/11/2017 Analyzed: 10/11/2017 22:45							
1,1,1,2-Tetrachloroethane	5.15	0.50	ug/L	5.000		103	75.8-136			
1,1,1-Trichloroethane	5.54	0.50	ug/L	5.000		111	66.1-164			
1,1,2,2-Tetrachloroethane	4.93	0.50	ug/L	5.000		98.6	61.8-138			
1,1,2-Trichloroethane	5.10	0.50	ug/L	5.000		102	76.7-127			
1,1,2-Trichlorotrifluoroethane	5.62	0.50	ug/L	5.000		112	55.6-199			
1,1-Dichloroethane	5.59	0.50	ug/L	5.000		112	69.1-153			
1,1-Dichloroethene	5.38	0.50	ug/L	5.000		108	51.2-180			
1,1-Dichloropropene	5.64	0.50	ug/L	5.000		113	77.3-125			
1,2,3-Trichlorobenzene	4.51	2.0	ug/L	5.000		90.2	74-122			
1,2,3-Trichloropropane	4.91	1.0	ug/L	5.000		98.2	69.8-140			
1,2,4-Trichlorobenzene	4.42	2.0	ug/L	5.000		88.4	73.3-120			
1,2,4-Trimethylbenzene	4.94	0.50	ug/L	5.000		98.8	86.6-121			
1,2-Dibromo-3-chloropropane	4.56	0.50	ug/L	5.000		91.2	42.9-137			

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Revised Report

TRC Environmental Corporation, Inc.	Project: Madison Kipp Corp. Semi-Annual Sampling
708 Heartland Trail, Ste 3000	Project Number: 266431
Madison WI, 53717	Project Manager: Andrew Stehn

Volatile Organic Compounds by Method 8260 - Purge and Trap - Quality Control

Pace Analytical - Madison

Analyte	Result	Limit of Quantitation	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch A710035 - EPA 5030B										
LCS (A710035-BS1)				Prepared: 10/11/2017 Analyzed: 10/11/2017 22:45						
1,2-Dibromoethane (EDB)	4.95	0.50	ug/L	5.000		99.0	75.2-124			
1,2-Dichlorobenzene	4.87	0.50	ug/L	5.000		97.4	88.3-115			
1,2-Dichloroethane	5.75	0.50	ug/L	5.000		115	69.2-160			
1,2-Dichloropropane	5.09	0.50	ug/L	5.000		102	73.1-128			
1,3,5-Trimethylbenzene	4.97	0.50	ug/L	5.000		99.4	87.3-122			
1,3-Dichlorobenzene	4.76	0.50	ug/L	5.000		95.2	90.7-114			
1,3-Dichloropropane	5.02	0.50	ug/L	5.000		100	76.8-125			
1,4-Dichlorobenzene	4.67	0.50	ug/L	5.000		93.4	88.9-112			
2,2-Dichloropropane	4.65	0.50	ug/L	5.000		93.0	70.2-147			
2-Butanone	49.7	20	ug/L	50.00		99.4	39.5-160			
2-Chlorotoluene	4.89	0.50	ug/L	5.000		97.8	87.3-118			
2-Hexanone	48.0	20	ug/L	50.00		96.1	30.4-168			
4-Chlorotoluene	4.87	0.50	ug/L	5.000		97.4	87.6-120			
4-Methyl-2-pentanone	50.1	20	ug/L	50.00		100	38.8-166			
Acetone	53.4	20	ug/L	50.00		107	30.1-197			
Benzene	5.16	0.50	ug/L	5.000		103	68.2-135			
Bromobenzene	4.79	0.50	ug/L	5.000		95.8	84.4-112			
Bromochloromethane	5.22	0.50	ug/L	5.000		104	76.7-138			
Bromodichloromethane	5.29	0.50	ug/L	5.000		106	77.2-140			
Bromoform	4.98	0.50	ug/L	5.000		99.6	60-142			
Bromomethane	5.63	5.0	ug/L	5.000		113	52.3-196			
Carbon disulfide	5.30	0.50	ug/L	5.000		106	20.2-197			
Carbon tetrachloride	5.36	0.50	ug/L	5.000		107	61.2-157			
Chlorobenzene	4.96	0.50	ug/L	5.000		99.2	88.7-113			
Chloroethane	5.46	5.0	ug/L	5.000		109	43.1-196			
Chloroform	5.29	0.50	ug/L	5.000		106	68.7-161			
Chloromethane	4.98	2.0	ug/L	5.000		99.6	37.7-187			
cis-1,2-Dichloroethene	5.19	0.50	ug/L	5.000		104	76.1-127			
cis-1,3-Dichloropropene	4.81	0.50	ug/L	5.000		96.2	65.5-122			
Dibromochloromethane	5.12	0.50	ug/L	5.000		102	74.8-135			
Dibromomethane	5.07	0.50	ug/L	5.000		101	75-140			
Dichlorodifluoromethane	5.17	0.50	ug/L	5.000		103	68.8-164			
Diisopropyl Ether	5.63	0.50	ug/L	5.000		113	62.1-134			
Ethylbenzene	5.09	0.50	ug/L	5.000		102	86-119			
Hexachlorobutadiene	4.85	2.0	ug/L	5.000		97.0	54.7-158			
Isopropylbenzene	5.10	0.50	ug/L	5.000		102	86.3-118			
m,p-Xylene	9.94	1.0	ug/L	10.00		99.4	87.1-118			
Methyl t-Butyl Ether	5.60	0.50	ug/L	5.000		112	58.1-138			
Methylene chloride	5.53	2.0	ug/L	5.000		111	63.5-153			
Naphthalene	4.61	5.0	ug/L	5.000		92.2	39.3-132			J, B
n-Butyl Benzene	4.68	0.50	ug/L	5.000		93.6	84.7-121			
n-Hexane	5.41	0.50	ug/L	5.000		108	49.5-147			
n-Propyl Benzene	4.80	0.50	ug/L	5.000		96.0	84.2-124			
o-Xylene	4.91	0.50	ug/L	5.000		98.2	82.8-114			

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708 Heartland Trail, Ste 3000	Project Number: 266431
Madison WI, 53717	Project Manager: Andrew Stehn

Volatile Organic Compounds by Method 8260 - Purge and Trap - Quality Control

Pace Analytical - Madison

Analyte	Result	Limit of Quantitation	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch A710035 - EPA 5030B										
LCS (A710035-BS1)				Prepared: 10/11/2017 Analyzed: 10/11/2017 22:45						
p-Isopropyltoluene	4.91	0.50	ug/L	5.000		98.2	88.1-116			
sec-Butyl Benzene	4.93	0.50	ug/L	5.000		98.6	85.3-121			
Styrene	4.70	0.50	ug/L	5.000		94.0	84.7-120			
tert-Butylbenzene	4.98	0.50	ug/L	5.000		99.6	76.2-123			
Tetrachloroethene	4.84	0.50	ug/L	5.000		96.8	79.3-122			B
Tetrahydrofuran	25.6	10	ug/L	25.00		102	27.8-152			
Toluene	4.83	0.50	ug/L	5.000		96.6	82.7-117			
trans-1,2-Dichloroethene	5.38	0.50	ug/L	5.000		108	72.3-135			
trans-1,3-Dichloropropene	4.82	0.50	ug/L	5.000		96.4	72.5-122			
Trichloroethene	5.13	0.50	ug/L	5.000		103	77-126			
Trichlorofluoromethane	5.61	0.50	ug/L	5.000		112	56-195			
Vinyl chloride	5.34	0.50	ug/L	5.000		107	52.3-186			
Surrogate: Dibromofluoromethane	*5.34*		*ug/L*	*5.000*		*107*	*68.9-141*			
Surrogate: Toluene-d8	*5.02*		*ug/L*	*5.000*		*100*	*73.3-114*			
Surrogate: 4-Bromofluorobenzene	*4.93*		*ug/L*	*5.000*		*98.6*	*72.2-114*			
Matrix Spike (A710035-MS1)	**Source: A174103-08**			Prepared: 10/11/2017 Analyzed: 10/12/2017 00:36						
1,1,1,2-Tetrachloroethane	25.0	2.5	ug/L	25.00	ND	99.8	77.8-137			
1,1,1-Trichloroethane	28.0	2.5	ug/L	25.00	ND	112	66.3-167			
1,1,2,2-Tetrachloroethane	26.3	2.5	ug/L	25.00	ND	105	61.3-138			
1,1,2-Trichloroethane	30.8	2.5	ug/L	25.00	ND	123	75.4-132			
1,1,2-Trichlorotrifluoroethane	28.9	2.5	ug/L	25.00	ND	115	57.7-198			
1,1-Dichloroethane	29.2	2.5	ug/L	25.00	ND	117	66.9-154			
1,1-Dichloroethene	27.8	2.5	ug/L	25.00	ND	111	50.1-187			
1,1-Dichloropropene	28.0	2.5	ug/L	25.00	ND	112	74.1-127			
1,2,3-Trichlorobenzene	23.0	10	ug/L	25.00	ND	92.0	75.4-122			
1,2,3-Trichloropropane	27.9	5.0	ug/L	25.00	ND	111	68.4-141			
1,2,4-Trichlorobenzene	21.5	10	ug/L	25.00	ND	86.0	72.1-121			
1,2,4-Trimethylbenzene	24.8	2.5	ug/L	25.00	ND	99.2	86.5-121			
1,2-Dibromo-3-chloropropane	26.2	2.5	ug/L	25.00	ND	105	49.9-130			
1,2-Dibromoethane (EDB)	25.8	2.5	ug/L	25.00	ND	103	74.4-124			
1,2-Dichlorobenzene	24.9	2.5	ug/L	25.00	ND	99.4	88.5-114			
1,2-Dichloroethane	30.2	2.5	ug/L	25.00	ND	121	72.6-161			
1,2-Dichloropropane	24.6	2.5	ug/L	25.00	ND	98.4	84.7-119			
1,3,5-Trimethylbenzene	25.2	2.5	ug/L	25.00	ND	101	87.3-122			
1,3-Dichlorobenzene	23.5	2.5	ug/L	25.00	ND	94.0	90.1-115			
1,3-Dichloropropane	25.7	2.5	ug/L	25.00	ND	103	76.6-126			
1,4-Dichlorobenzene	23.4	2.5	ug/L	25.00	ND	93.4	87.6-113			
2,2-Dichloropropane	23.5	2.5	ug/L	25.00	ND	93.8	72.3-145			
2-Butanone	274	100	ug/L	250.0	ND	110	32.2-170			
2-Chlorotoluene	25.2	2.5	ug/L	25.00	ND	101	87.9-117			
2-Hexanone	259	100	ug/L	250.0	ND	103	30.2-168			
4-Chlorotoluene	24.8	2.5	ug/L	25.00	ND	99.0	87.5-120			
4-Methyl-2-pentanone	271	100	ug/L	250.0	ND	109	39.1-168			

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708 Heartland Trail, Ste 3000	Project Number: 266431
Madison WI, 53717	Project Manager: Andrew Stehn

Volatile Organic Compounds by Method 8260 - Purge and Trap - Quality Control

Pace Analytical - Madison

Analyte	Result	Limit of Quantitation	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch A710035 - EPA 5030B										
Matrix Spike (A710035-MS1)	**Source: A174103-08**			Prepared: 10/11/2017 Analyzed: 10/12/2017 00:36						
Acetone	307	100	ug/L	250.0	ND	123	31.2-199			
Benzene	26.1	2.5	ug/L	25.00	ND	104	67.8-136			
Bromobenzene	25.1	2.5	ug/L	25.00	ND	100	84.5-111			
Bromochloromethane	27.7	2.5	ug/L	25.00	ND	111	80.9-134			
Bromodichloromethane	26.2	2.5	ug/L	25.00	ND	105	76.1-144			
Bromoform	25.4	2.5	ug/L	25.00	ND	101	60.2-142			
Bromomethane	28.7	25	ug/L	25.00	ND	115	50.3-198			
Carbon disulfide	27.2	2.5	ug/L	25.00	ND	109	35.6-196			
Carbon tetrachloride	27.1	2.5	ug/L	25.00	ND	108	69.7-152			
Chlorobenzene	24.2	2.5	ug/L	25.00	ND	96.8	89.3-113			
Chloroethane	28.9	25	ug/L	25.00	ND	115	50.2-198			
Chloroform	26.5	2.5	ug/L	25.00	ND	106	66.2-164			
Chloromethane	27.0	10	ug/L	25.00	1.45	102	46.5-179			
cis-1,2-Dichloroethene	26.1	2.5	ug/L	25.00	ND	104	67.5-137			
cis-1,3-Dichloropropene	24.0	2.5	ug/L	25.00	ND	95.8	63.3-123			
Dibromochloromethane	25.8	2.5	ug/L	25.00	ND	103	76-133			
Dibromomethane	26.8	2.5	ug/L	25.00	ND	107	78.2-139			
Dichlorodifluoromethane	27.5	2.5	ug/L	25.00	ND	110	70.6-150			
Diisopropyl Ether	29.7	2.5	ug/L	25.00	ND	119	57.3-137			
Ethylbenzene	24.7	2.5	ug/L	25.00	ND	98.8	87.3-118			
Hexachlorobutadiene	24.8	10	ug/L	25.00	ND	99.2	55.4-161			
Isopropylbenzene	24.9	2.5	ug/L	25.00	ND	99.4	89-115			
m,p-Xylene	48.2	5.0	ug/L	50.00	ND	96.4	88.4-117			
Methyl t-Butyl Ether	29.8	2.5	ug/L	25.00	ND	119	54.4-145			
Methylene chloride	28.9	10	ug/L	25.00	ND	115	59.2-154			
Naphthalene	24.5	25	ug/L	25.00	ND	97.8	43.3-129			J, B
n-Butyl Benzene	23.3	2.5	ug/L	25.00	ND	93.0	85.9-119			
n-Hexane	28.5	2.5	ug/L	25.00	ND	114	44.3-150			
n-Propyl Benzene	24.3	2.5	ug/L	25.00	ND	97.0	83.7-124			
o-Xylene	24.2	2.5	ug/L	25.00	ND	96.8	83.9-112			
p-Isopropyltoluene	24.8	2.5	ug/L	25.00	ND	99.2	89.6-114			
sec-Butyl Benzene	25.1	2.5	ug/L	25.00	ND	100	85.5-120			
Styrene	23.2	2.5	ug/L	25.00	0.450	90.8	79.7-123			
tert-Butylbenzene	25.5	2.5	ug/L	25.00	ND	102	78.6-120			
Tetrachloroethene	146	2.5	ug/L	25.00	128	70.6	78.8-123			M, B
Tetrahydrofuran	138	50	ug/L	125.0	ND	110	24.7-155			
Toluene	23.5	2.5	ug/L	25.00	ND	93.8	81-118			
trans-1,2-Dichloroethene	27.8	2.5	ug/L	25.00	ND	111	65.3-141			
trans-1,3-Dichloropropene	23.6	2.5	ug/L	25.00	ND	94.4	73.7-120			
Trichloroethene	24.9	2.5	ug/L	25.00	ND	99.6	77.1-123			
Trichlorofluoromethane	29.7	2.5	ug/L	25.00	ND	119	44.8-199			
Vinyl chloride	28.5	2.5	ug/L	25.00	ND	114	49.8-180			
Surrogate: Dibromofluoromethane	*28.0*		*ug/L*	*25.00*		*112*	*68.9-141*			
Surrogate: Toluene-d8	*24.9*		*ug/L*	*25.00*		*99.4*	*73.3-114*			

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Volatile Organic Compounds by Method 8260 - Purge and Trap - Quality Control

Pace Analytical - Madison

Analyte	Result	Limit of Quantitation	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch A710035 - EPA 5030B										
Matrix Spike (A710035-MS1)	**Source: A174103-08**			Prepared: 10/11/2017	Analyzed: 10/12/2017 00:36					
Surrogate: 4-Bromofluorobenzene	*24.3*		*ug/L*	*25.00*		*97.2*	*72.2-114*			
Matrix Spike Dup (A710035-MSD1)	**Source: A174103-08**			Prepared: 10/11/2017	Analyzed: 10/12/2017 01:04					
1,1,1,2-Tetrachloroethane	25.7	2.5	ug/L	25.00	ND	103	77.8-137	2.96	20	
1,1,1-Trichloroethane	28.0	2.5	ug/L	25.00	ND	112	66.3-167	0.179	20	
1,1,2,2-Tetrachloroethane	27.5	2.5	ug/L	25.00	ND	110	61.3-138	4.65	20	
1,1,2-Trichloroethane	31.9	2.5	ug/L	25.00	ND	128	75.4-132	3.67	20	
1,1,2-Trichlorotrifluoroethane	29.4	2.5	ug/L	25.00	ND	117	57.7-198	1.72	20	
1,1-Dichloroethane	29.1	2.5	ug/L	25.00	ND	116	66.9-154	0.172	20	
1,1-Dichloroethene	28.2	2.5	ug/L	25.00	ND	113	50.1-187	1.43	20	
1,1-Dichloropropene	28.6	2.5	ug/L	25.00	ND	114	74.1-127	1.95	20	
1,2,3-Trichlorobenzene	24.1	10	ug/L	25.00	ND	96.2	75.4-122	4.46	20	
1,2,3-Trichloropropane	29.5	5.0	ug/L	25.00	ND	118	68.4-141	5.58	20	
1,2,4-Trichlorobenzene	22.8	10	ug/L	25.00	ND	91.0	72.1-121	5.65	20	
1,2,4-Trimethylbenzene	24.9	2.5	ug/L	25.00	ND	99.4	86.5-121	0.201	20	
1,2-Dibromo-3-chloropropane	27.3	2.5	ug/L	25.00	ND	109	49.9-130	4.12	20	
1,2-Dibromoethane (EDB)	27.5	2.5	ug/L	25.00	ND	110	74.4-124	6.39	20	
1,2-Dichlorobenzene	25.3	2.5	ug/L	25.00	ND	101	88.5-114	1.60	20	
1,2-Dichloroethane	31.3	2.5	ug/L	25.00	ND	125	72.6-161	3.58	20	
1,2-Dichloropropane	25.8	2.5	ug/L	25.00	ND	103	84.7-119	4.57	20	
1,3,5-Trimethylbenzene	24.9	2.5	ug/L	25.00	ND	99.6	87.3-122	0.999	20	
1,3-Dichlorobenzene	24.2	2.5	ug/L	25.00	ND	96.6	90.1-115	2.73	20	
1,3-Dichloropropane	27.1	2.5	ug/L	25.00	ND	108	76.6-126	5.50	20	
1,4-Dichlorobenzene	23.9	2.5	ug/L	25.00	ND	95.6	87.6-113	2.33	20	
2,2-Dichloropropane	23.9	2.5	ug/L	25.00	ND	95.4	72.3-145	1.69	20	
2-Butanone	307	100	ug/L	250.0	ND	123	32.2-170	11.6	20	
2-Chlorotoluene	24.9	2.5	ug/L	25.00	ND	99.4	87.9-117	1.40	20	
2-Hexanone	291	100	ug/L	250.0	ND	117	30.2-168	11.9	20	
4-Chlorotoluene	23.8	2.5	ug/L	25.00	ND	95.2	87.5-120	3.91	20	
4-Methyl-2-pentanone	302	100	ug/L	250.0	ND	121	39.1-168	10.7	20	
Acetone	346	100	ug/L	250.0	ND	138	31.2-199	12.1	20	
Benzene	25.9	2.5	ug/L	25.00	ND	104	67.8-136	0.769	20	
Bromobenzene	25.2	2.5	ug/L	25.00	ND	101	84.5-111	0.199	20	
Bromochloromethane	27.7	2.5	ug/L	25.00	ND	111	80.9-134	0.00	20	
Bromodichloromethane	27.4	2.5	ug/L	25.00	ND	109	76.1-144	4.30	20	
Bromoform	27.0	2.5	ug/L	25.00	ND	108	60.2-142	6.30	20	
Bromomethane	29.7	25	ug/L	25.00	ND	119	50.3-198	3.26	20	
Carbon disulfide	27.4	2.5	ug/L	25.00	ND	110	35.6-196	0.733	20	
Carbon tetrachloride	26.7	2.5	ug/L	25.00	ND	107	69.7-152	1.49	20	
Chlorobenzene	24.7	2.5	ug/L	25.00	ND	98.6	89.3-113	1.84	20	
Chloroethane	28.9	25	ug/L	25.00	ND	115	50.2-198	0.00	20	
Chloroform	27.3	2.5	ug/L	25.00	ND	109	66.2-164	3.16	20	
Chloromethane	26.5	10	ug/L	25.00	1.45	100	46.5-179	1.98	20	
cis-1,2-Dichloroethene	26.0	2.5	ug/L	25.00	ND	104	67.5-137	0.385	20	

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Revised Report

TRC Environmental Corporation, Inc.	Project: Madison Kipp Corp. Semi-Annual Sampling
708 Heartland Trail, Ste 3000	Project Number: 266431
Madison WI, 53717	Project Manager: Andrew Stehn

Volatile Organic Compounds by Method 8260 - Purge and Trap - Quality Control

Pace Analytical - Madison

Analyte	Result	Limit of Quantitation	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch A710035 - EPA 5030B										
Matrix Spike Dup (A710035-MSD1)	**Source: A174103-08**			Prepared: 10/11/2017 Analyzed: 10/12/2017 01:04						
cis-1,3-Dichloropropene	24.9	2.5	ug/L	25.00	ND	99.6	63.3-123	3.89	20	
Dibromochloromethane	27.5	2.5	ug/L	25.00	ND	110	76-133	6.39	20	
Dibromomethane	27.6	2.5	ug/L	25.00	ND	110	78.2-139	2.95	20	
Dichlorodifluoromethane	27.7	2.5	ug/L	25.00	ND	111	70.6-150	0.726	20	
Diisopropyl Ether	29.9	2.5	ug/L	25.00	ND	119	57.3-137	0.672	20	
Ethylbenzene	24.9	2.5	ug/L	25.00	ND	99.6	87.3-118	0.806	20	
Hexachlorobutadiene	24.3	10	ug/L	25.00	ND	97.2	55.4-161	2.04	20	
Isopropylbenzene	25.9	2.5	ug/L	25.00	ND	103	89-115	3.94	20	
m,p-Xylene	49.6	5.0	ug/L	50.00	ND	99.1	88.4-117	2.76	20	
Methyl t-Butyl Ether	31.7	2.5	ug/L	25.00	ND	127	54.4-145	6.02	20	
Methylene chloride	29.1	10	ug/L	25.00	ND	116	59.2-154	0.863	20	
Naphthalene	28.0	25	ug/L	25.00	ND	112	43.3-129	13.4	20	B
n-Butyl Benzene	23.9	2.5	ug/L	25.00	ND	95.4	85.9-119	2.55	20	
n-Hexane	30.0	2.5	ug/L	25.00	ND	120	44.3-150	5.13	20	
n-Propyl Benzene	24.2	2.5	ug/L	25.00	ND	96.8	83.7-124	0.206	20	
o-Xylene	25.1	2.5	ug/L	25.00	ND	100	83.9-112	3.45	20	
p-Isopropyltoluene	24.8	2.5	ug/L	25.00	ND	99.0	89.6-114	0.202	20	
sec-Butyl Benzene	24.7	2.5	ug/L	25.00	ND	98.6	85.5-120	1.81	20	
Styrene	23.8	2.5	ug/L	25.00	0.450	93.4	79.7-123	2.82	20	
tert-Butylbenzene	25.0	2.5	ug/L	25.00	ND	99.8	78.6-120	2.18	20	
Tetrachloroethene	146	2.5	ug/L	25.00	128	70.4	78.8-123	0.284	20	M, B
Tetrahydrofuran	156	50	ug/L	125.0	ND	125	24.7-155	12.2	20	
Toluene	24.2	2.5	ug/L	25.00	ND	96.6	81-118	2.94	20	
trans-1,2-Dichloroethene	27.3	2.5	ug/L	25.00	ND	109	65.3-141	2.00	20	
trans-1,3-Dichloropropene	24.9	2.5	ug/L	25.00	ND	99.4	73.7-120	5.16	20	
Trichloroethene	26.6	2.5	ug/L	25.00	ND	106	77.1-123	6.41	20	
Trichlorofluoromethane	30.0	2.5	ug/L	25.00	ND	120	44.8-199	1.01	20	
Vinyl chloride	28.6	2.5	ug/L	25.00	ND	114	49.8-180	0.351	20	
Surrogate: Dibromofluoromethane	*27.7*		*ug/L*	*25.00*		*111*	*68.9-141*			
Surrogate: Toluene-d8	*25.7*		*ug/L*	*25.00*		*103*	*73.3-114*			
Surrogate: 4-Bromofluorobenzene	*25.8*		*ug/L*	*25.00*		*103*	*72.2-114*			

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Revised Report

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708 Heartland Trail, Ste 3000	Project Number: 266431
Madison WI, 53717	Project Manager: Andrew Stehn

Volatile Organic Compounds by Method 8260 - Purge and Trap - Quality Control

Pace Analytical - Madison

Analyte	Result	Limit of Quantitation	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch A710036 - EPA 5030B										
Blank (A710036-BLK1)				Prepared: 10/11/2017 Analyzed: 10/12/2017 06:12						
1,1,1,2-Tetrachloroethane	ND	0.50	ug/L							
1,1,1-Trichloroethane	ND	0.50	ug/L							
1,1,2,2-Tetrachloroethane	ND	0.50	ug/L							
1,1,2-Trichloroethane	ND	0.50	ug/L							
1,1,2-Trichlorotrifluoroethane	ND	0.50	ug/L							
1,1-Dichloroethane	ND	0.50	ug/L							
1,1-Dichloroethene	ND	0.50	ug/L							
1,1-Dichloropropene	ND	0.50	ug/L							
1,2,3-Trichlorobenzene	ND	2.0	ug/L							
1,2,3-Trichloropropane	ND	1.0	ug/L							
1,2,4-Trichlorobenzene	ND	2.0	ug/L							
1,2,4-Trimethylbenzene	ND	0.50	ug/L							
1,2-Dibromo-3-chloropropane	ND	0.50	ug/L							
1,2-Dibromoethane (EDB)	ND	0.50	ug/L							
1,2-Dichlorobenzene	ND	0.50	ug/L							
1,2-Dichloroethane	ND	0.50	ug/L							
1,2-Dichloropropane	ND	0.50	ug/L							
1,3,5-Trimethylbenzene	ND	0.50	ug/L							
1,3-Dichlorobenzene	ND	0.50	ug/L							
1,3-Dichloropropane	ND	0.50	ug/L							
1,4-Dichlorobenzene	ND	0.50	ug/L							
2,2-Dichloropropane	ND	0.50	ug/L							
2-Butanone	ND	20	ug/L							
2-Chlorotoluene	ND	0.50	ug/L							
2-Hexanone	ND	20	ug/L							
4-Chlorotoluene	ND	0.50	ug/L							
4-Methyl-2-pentanone	ND	20	ug/L							
Acetone	ND	20	ug/L							
Benzene	ND	0.50	ug/L							
Bromobenzene	ND	0.50	ug/L							
Bromochloromethane	ND	0.50	ug/L							
Bromodichloromethane	ND	0.50	ug/L							
Bromoform	ND	0.50	ug/L							
Bromomethane	ND	5.0	ug/L							
Carbon disulfide	ND	0.50	ug/L							
Carbon tetrachloride	ND	0.50	ug/L							
Chlorobenzene	ND	0.50	ug/L							
Chloroethane	ND	5.0	ug/L							
Chloroform	ND	0.50	ug/L							
Chloromethane	ND	2.0	ug/L							
cis-1,2-Dichloroethene	ND	0.50	ug/L							
cis-1,3-Dichloropropene	ND	0.50	ug/L							
Dibromochloromethane	ND	0.50	ug/L							
Dibromomethane	ND	0.50	ug/L							

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Pace Analytical - Madison

Analyte	Result	Limit of Quantitation	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch A710036 - EPA 5030B										
Blank (A710036-BLK1)			Prepared: 10/11/2017 Analyzed: 10/12/2017 06:12							
Dichlorodifluoromethane	ND	0.50	ug/L							
Diisopropyl Ether	ND	0.50	ug/L							
Ethylbenzene	ND	0.50	ug/L							
Hexachlorobutadiene	ND	2.0	ug/L							
Isopropylbenzene	ND	0.50	ug/L							
m,p-Xylene	ND	1.0	ug/L							
Methyl t-Butyl Ether	ND	0.50	ug/L							
Methylene chloride	ND	2.0	ug/L							
Naphthalene	ND	5.0	ug/L							
n-Butyl Benzene	ND	0.50	ug/L							
n-Hexane	ND	0.50	ug/L							
n-Propyl Benzene	ND	0.50	ug/L							
o-Xylene	ND	0.50	ug/L							
p-Isopropyltoluene	ND	0.50	ug/L							
sec-Butyl Benzene	ND	0.50	ug/L							
Styrene	0.080	0.50	ug/L							J
tert-Butylbenzene	ND	0.50	ug/L							
Tetrachloroethene	ND	0.50	ug/L							
Tetrahydrofuran	ND	10	ug/L							
Toluene	ND	0.50	ug/L							
trans-1,2-Dichloroethene	ND	0.50	ug/L							
trans-1,3-Dichloropropene	ND	0.50	ug/L							
Trichloroethene	ND	0.50	ug/L							
Trichlorofluoromethane	ND	0.50	ug/L							
Vinyl chloride	ND	0.50	ug/L							
Xylenes, total	ND	1.5	ug/L							
Surrogate: Dibromofluoromethane	*10.6*		*ug/L*	*10.00*		*106*	*68.9-141*			
Surrogate: Toluene-d8	*9.83*		*ug/L*	*10.00*		*98.3*	*73.3-114*			
Surrogate: 4-Bromofluorobenzene	*9.81*		*ug/L*	*10.00*		*98.1*	*72.2-114*			
Blank (A710036-BLK2)			Prepared: 10/12/2017 Analyzed: 10/12/2017 15:04							
1,1,1,2-Tetrachloroethane	ND	0.50	ug/L							
1,1,1-Trichloroethane	ND	0.50	ug/L							
1,1,2,2-Tetrachloroethane	ND	0.50	ug/L							
1,1,2-Trichloroethane	ND	0.50	ug/L							
1,1,2-Trichlorotrifluoroethane	ND	0.50	ug/L							
1,1-Dichloroethane	ND	0.50	ug/L							
1,1-Dichloroethene	ND	0.50	ug/L							
1,1-Dichloropropene	ND	0.50	ug/L							
1,2,3-Trichlorobenzene	0.050	2.0	ug/L							J
1,2,3-Trichloropropane	ND	1.0	ug/L							
1,2,4-Trichlorobenzene	ND	2.0	ug/L							
1,2,4-Trimethylbenzene	ND	0.50	ug/L							
1,2-Dibromo-3-chloropropane	ND	0.50	ug/L							

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Volatile Organic Compounds by Method 8260 - Purge and Trap - Quality Control

Pace Analytical - Madison

Analyte	Result	Limit of Quantitation	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch A710036 - EPA 5030B										
Blank (A710036-BLK2)			Prepared: 10/12/2017 Analyzed: 10/12/2017 15:04							
1,2-Dibromoethane (EDB)	ND	0.50	ug/L							
1,2-Dichlorobenzene	ND	0.50	ug/L							
1,2-Dichloroethane	ND	0.50	ug/L							
1,2-Dichloropropane	ND	0.50	ug/L							
1,3,5-Trimethylbenzene	ND	0.50	ug/L							
1,3-Dichlorobenzene	ND	0.50	ug/L							
1,3-Dichloropropane	ND	0.50	ug/L							
1,4-Dichlorobenzene	ND	0.50	ug/L							
2,2-Dichloropropane	ND	0.50	ug/L							
2-Butanone	ND	20	ug/L							
2-Chlorotoluene	ND	0.50	ug/L							
2-Hexanone	ND	20	ug/L							
4-Chlorotoluene	ND	0.50	ug/L							
4-Methyl-2-pentanone	ND	20	ug/L							
Acetone	ND	20	ug/L							
Benzene	ND	0.50	ug/L							
Bromobenzene	ND	0.50	ug/L							
Bromochloromethane	ND	0.50	ug/L							
Bromodichloromethane	ND	0.50	ug/L							
Bromoform	ND	0.50	ug/L							
Bromomethane	ND	5.0	ug/L							
Carbon disulfide	ND	0.50	ug/L							
Carbon tetrachloride	ND	0.50	ug/L							
Chlorobenzene	ND	0.50	ug/L							
Chloroethane	ND	5.0	ug/L							
Chloroform	ND	0.50	ug/L							
Chloromethane	ND	2.0	ug/L							
cis-1,2-Dichloroethene	ND	0.50	ug/L							
cis-1,3-Dichloropropene	ND	0.50	ug/L							
Dibromochloromethane	ND	0.50	ug/L							
Dibromomethane	ND	0.50	ug/L							
Dichlorodifluoromethane	ND	0.50	ug/L							
Diisopropyl Ether	ND	0.50	ug/L							
Ethylbenzene	ND	0.50	ug/L							
Hexachlorobutadiene	ND	2.0	ug/L							
Isopropylbenzene	ND	0.50	ug/L							
m,p-Xylene	ND	1.0	ug/L							
Methyl t-Butyl Ether	ND	0.50	ug/L							
Methylene chloride	0.14	2.0	ug/L							J
Naphthalene	0.30	5.0	ug/L							J
n-Butyl Benzene	ND	0.50	ug/L							
n-Hexane	ND	0.50	ug/L							
n-Propyl Benzene	ND	0.50	ug/L							
o-Xylene	ND	0.50	ug/L							

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Volatile Organic Compounds by Method 8260 - Purge and Trap - Quality Control

Pace Analytical - Madison

Analyte	Result	Limit of Quantitation	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch A710036 - EPA 5030B										
Blank (A710036-BLK2)				Prepared: 10/12/2017 Analyzed: 10/12/2017 15:04						
p-Isopropyltoluene	ND	0.50	ug/L							
sec-Butyl Benzene	ND	0.50	ug/L							
Styrene	0.090	0.50	ug/L							J
tert-Butylbenzene	ND	0.50	ug/L							
Tetrachloroethene	ND	0.50	ug/L							
Tetrahydrofuran	ND	10	ug/L							
Toluene	0.060	0.50	ug/L							J
trans-1,2-Dichloroethene	ND	0.50	ug/L							
trans-1,3-Dichloropropene	ND	0.50	ug/L							
Trichloroethene	ND	0.50	ug/L							
Trichlorofluoromethane	ND	0.50	ug/L							
Vinyl chloride	ND	0.50	ug/L							
Xylenes, total	ND	1.5	ug/L							
Surrogate: Dibromofluoromethane	*10.1*		*ug/L*	*10.00*		*101*	*68.9-141*			
Surrogate: Toluene-d8	*9.74*		*ug/L*	*10.00*		*97.4*	*73.3-114*			
Surrogate: 4-Bromofluorobenzene	*9.73*		*ug/L*	*10.00*		*97.3*	*72.2-114*			
LCS (A710036-BS1)				Prepared: 10/11/2017 Analyzed: 10/12/2017 02:57						
1,1,1,2-Tetrachloroethane	5.15	0.50	ug/L	5.000		103	75.8-136			
1,1,1-Trichloroethane	5.60	0.50	ug/L	5.000		112	66.1-164			
1,1,2,2-Tetrachloroethane	5.18	0.50	ug/L	5.000		104	61.8-138			
1,1,2-Trichloroethane	5.22	0.50	ug/L	5.000		104	76.7-127			
1,1,2-Trichlorotrifluoroethane	5.81	0.50	ug/L	5.000		116	55.6-199			
1,1-Dichloroethane	5.73	0.50	ug/L	5.000		115	69.1-153			
1,1-Dichloroethene	5.67	0.50	ug/L	5.000		113	51.2-180			
1,1-Dichloropropene	5.70	0.50	ug/L	5.000		114	77.3-125			
1,2,3-Trichlorobenzene	4.66	2.0	ug/L	5.000		93.2	74-122			B
1,2,3-Trichloropropane	5.33	1.0	ug/L	5.000		107	69.8-140			
1,2,4-Trichlorobenzene	4.50	2.0	ug/L	5.000		90.0	73.3-120			
1,2,4-Trimethylbenzene	4.98	0.50	ug/L	5.000		99.6	86.6-121			
1,2-Dibromo-3-chloropropane	5.10	0.50	ug/L	5.000		102	42.9-137			
1,2-Dibromoethane (EDB)	5.14	0.50	ug/L	5.000		103	75.2-124			
1,2-Dichlorobenzene	4.95	0.50	ug/L	5.000		99.0	88.3-115			
1,2-Dichloroethane	5.86	0.50	ug/L	5.000		117	69.2-160			
1,2-Dichloropropane	5.11	0.50	ug/L	5.000		102	73.1-128			
1,3,5-Trimethylbenzene	5.07	0.50	ug/L	5.000		101	87.3-122			
1,3-Dichlorobenzene	4.87	0.50	ug/L	5.000		97.4	90.7-114			
1,3-Dichloropropane	5.22	0.50	ug/L	5.000		104	76.8-125			
1,4-Dichlorobenzene	4.77	0.50	ug/L	5.000		95.4	88.9-112			
2,2-Dichloropropane	4.59	0.50	ug/L	5.000		91.8	70.2-147			
2-Butanone	51.9	20	ug/L	50.00		104	39.5-160			
2-Chlorotoluene	5.02	0.50	ug/L	5.000		100	87.3-118			
2-Hexanone	50.9	20	ug/L	50.00		102	30.4-168			
4-Chlorotoluene	4.95	0.50	ug/L	5.000		99.0	87.6-120			

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Pace Analytical - Madison

Analyte	Result	Limit of Quantitation	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch A710036 - EPA 5030B										
LCS (A710036-BS1)				Prepared: 10/11/2017 Analyzed: 10/12/2017 02:57						
4-Methyl-2-pentanone	53.0	20	ug/L	50.00		106	38.8-166			
Acetone	57.6	20	ug/L	50.00		115	30.1-197			
Benzene	5.23	0.50	ug/L	5.000		105	68.2-135			
Bromobenzene	5.07	0.50	ug/L	5.000		101	84.4-112			
Bromochloromethane	5.44	0.50	ug/L	5.000		109	76.7-138			
Bromodichloromethane	5.33	0.50	ug/L	5.000		107	77.2-140			
Bromoform	5.19	0.50	ug/L	5.000		104	60-142			
Bromomethane	5.80	5.0	ug/L	5.000		116	52.3-196			
Carbon disulfide	5.48	0.50	ug/L	5.000		110	20.2-197			
Carbon tetrachloride	5.43	0.50	ug/L	5.000		109	61.2-157			
Chlorobenzene	4.99	0.50	ug/L	5.000		99.8	88.7-113			
Chloroethane	5.79	5.0	ug/L	5.000		116	43.1-196			
Chloroform	5.28	0.50	ug/L	5.000		106	68.7-161			
Chloromethane	5.34	2.0	ug/L	5.000		107	37.7-187			
cis-1,2-Dichloroethene	5.09	0.50	ug/L	5.000		102	76.1-127			
cis-1,3-Dichloropropene	4.85	0.50	ug/L	5.000		97.0	65.5-122			
Dibromochloromethane	5.23	0.50	ug/L	5.000		105	74.8-135			
Dibromomethane	5.31	0.50	ug/L	5.000		106	75-140			
Dichlorodifluoromethane	5.64	0.50	ug/L	5.000		113	68.8-164			
Diisopropyl Ether	5.77	0.50	ug/L	5.000		115	62.1-134			
Ethylbenzene	5.09	0.50	ug/L	5.000		102	86-119			
Hexachlorobutadiene	5.00	2.0	ug/L	5.000		100	54.7-158			
Isopropylbenzene	5.14	0.50	ug/L	5.000		103	86.3-118			
m,p-Xylene	9.97	1.0	ug/L	10.00		99.7	87.1-118			
Methyl t-Butyl Ether	5.73	0.50	ug/L	5.000		115	58.1-138			
Methylene chloride	5.66	2.0	ug/L	5.000		113	63.5-153			B
Naphthalene	5.21	5.0	ug/L	5.000		104	39.3-132			B
n-Butyl Benzene	4.75	0.50	ug/L	5.000		95.0	84.7-121			
n-Hexane	6.07	0.50	ug/L	5.000		121	49.5-147			
n-Propyl Benzene	4.89	0.50	ug/L	5.000		97.8	84.2-124			
o-Xylene	5.12	0.50	ug/L	5.000		102	82.8-114			
p-Isopropyltoluene	5.03	0.50	ug/L	5.000		101	88.1-116			
sec-Butyl Benzene	5.06	0.50	ug/L	5.000		101	85.3-121			
Styrene	4.80	0.50	ug/L	5.000		96.0	84.7-120			B
tert-Butylbenzene	5.13	0.50	ug/L	5.000		103	76.2-123			
Tetrachloroethene	4.72	0.50	ug/L	5.000		94.4	79.3-122			
Tetrahydrofuran	27.0	10	ug/L	25.00		108	27.8-152			
Toluene	4.80	0.50	ug/L	5.000		96.0	82.7-117			B
trans-1,2-Dichloroethene	5.50	0.50	ug/L	5.000		110	72.3-135			
trans-1,3-Dichloropropene	4.82	0.50	ug/L	5.000		96.4	72.5-122			
Trichloroethene	5.15	0.50	ug/L	5.000		103	77-126			
Trichlorofluoromethane	5.87	0.50	ug/L	5.000		117	56-195			
Vinyl chloride	5.56	0.50	ug/L	5.000		111	52.3-186			
Surrogate: Dibromofluoromethane	*5.41*		*ug/L*	*5.000*		*108*	*68.9-141*			

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Revised Report

TRC Environmental Corporation, Inc.	Project: Madison Kipp Corp. Semi-Annual Sampling
708 Heartland Trail, Ste 3000	Project Number: 266431
Madison WI, 53717	Project Manager: Andrew Stehn

Volatile Organic Compounds by Method 8260 - Purge and Trap - Quality Control

Pace Analytical - Madison

Analyte	Result	Limit of Quantitation	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch A710036 - EPA 5030B										
LCS (A710036-BS1)				Prepared: 10/11/2017 Analyzed: 10/12/2017 02:57						
Surrogate: Toluene-d8	*5.08*		*ug/L*	*5.000*		*102*	*73.3-114*			
Surrogate: 4-Bromofluorobenzene	*5.05*		*ug/L*	*5.000*		*101*	*72.2-114*			
LCS (A710036-BS2)				Prepared: 10/12/2017 Analyzed: 10/12/2017 14:37						
1,1,1,2-Tetrachloroethane	5.27	0.50	ug/L	5.000		105	75.8-136			
1,1,1-Trichloroethane	5.34	0.50	ug/L	5.000		107	66.1-164			
1,1,2,2-Tetrachloroethane	4.64	0.50	ug/L	5.000		92.8	61.8-138			
1,1,2-Trichloroethane	5.11	0.50	ug/L	5.000		102	76.7-127			
1,1,2-Trichlorotrifluoroethane	5.58	0.50	ug/L	5.000		112	55.6-199			
1,1-Dichloroethane	5.47	0.50	ug/L	5.000		109	69.1-153			
1,1-Dichloroethene	5.31	0.50	ug/L	5.000		106	51.2-180			
1,1-Dichloropropene	5.40	0.50	ug/L	5.000		108	77.3-125			
1,2,3-Trichlorobenzene	4.70	2.0	ug/L	5.000		94.0	74-122			B
1,2,3-Trichloropropane	4.84	1.0	ug/L	5.000		96.8	69.8-140			
1,2,4-Trichlorobenzene	4.75	2.0	ug/L	5.000		95.0	73.3-120			
1,2,4-Trimethylbenzene	4.96	0.50	ug/L	5.000		99.2	86.6-121			
1,2-Dibromo-3-chloropropane	4.55	0.50	ug/L	5.000		91.0	42.9-137			
1,2-Dibromoethane (EDB)	5.10	0.50	ug/L	5.000		102	75.2-124			
1,2-Dichlorobenzene	4.84	0.50	ug/L	5.000		96.8	88.3-115			
1,2-Dichloroethane	5.56	0.50	ug/L	5.000		111	69.2-160			
1,2-Dichloropropane	5.01	0.50	ug/L	5.000		100	73.1-128			
1,3,5-Trimethylbenzene	4.91	0.50	ug/L	5.000		98.2	87.3-122			
1,3-Dichlorobenzene	4.72	0.50	ug/L	5.000		94.4	90.7-114			
1,3-Dichloropropane	5.16	0.50	ug/L	5.000		103	76.8-125			
1,4-Dichlorobenzene	4.72	0.50	ug/L	5.000		94.4	88.9-112			
2,2-Dichloropropane	5.19	0.50	ug/L	5.000		104	70.2-147			
2-Butanone	48.3	20	ug/L	50.00		96.6	39.5-160			
2-Chlorotoluene	4.89	0.50	ug/L	5.000		97.8	87.3-118			
2-Hexanone	48.7	20	ug/L	50.00		97.3	30.4-168			
4-Chlorotoluene	4.87	0.50	ug/L	5.000		97.4	87.6-120			
4-Methyl-2-pentanone	50.0	20	ug/L	50.00		99.9	38.8-166			
Acetone	59.7	20	ug/L	50.00		119	30.1-197			
Benzene	4.89	0.50	ug/L	5.000		97.8	68.2-135			
Bromobenzene	4.65	0.50	ug/L	5.000		93.0	84.4-112			
Bromochloromethane	5.07	0.50	ug/L	5.000		101	76.7-138			
Bromodichloromethane	5.21	0.50	ug/L	5.000		104	77.2-140			
Bromoform	5.05	0.50	ug/L	5.000		101	60-142			
Bromomethane	5.53	5.0	ug/L	5.000		111	52.3-196			
Carbon disulfide	5.31	0.50	ug/L	5.000		106	20.2-197			
Carbon tetrachloride	5.15	0.50	ug/L	5.000		103	61.2-157			
Chlorobenzene	5.01	0.50	ug/L	5.000		100	88.7-113			
Chloroethane	5.50	5.0	ug/L	5.000		110	43.1-196			
Chloroform	5.10	0.50	ug/L	5.000		102	68.7-161			
Chloromethane	4.99	2.0	ug/L	5.000		99.8	37.7-187			

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708 Heartland Trail, Ste 3000	Project Number: 266431
Madison WI, 53717	Project Manager: Andrew Stehn

Volatile Organic Compounds by Method 8260 - Purge and Trap - Quality Control

Pace Analytical - Madison

Analyte	Result	Limit of Quantitation	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch A710036 - EPA 5030B										
LCS (A710036-BS2)				Prepared: 10/12/2017 Analyzed: 10/12/2017 14:37						
cis-1,2-Dichloroethene	4.90	0.50	ug/L	5.000		98.0	76.1-127			
cis-1,3-Dichloropropene	5.04	0.50	ug/L	5.000		101	65.5-122			
Dibromochloromethane	5.19	0.50	ug/L	5.000		104	74.8-135			
Dibromomethane	5.21	0.50	ug/L	5.000		104	75-140			
Dichlorodifluoromethane	5.10	0.50	ug/L	5.000		102	68.8-164			
Diisopropyl Ether	5.42	0.50	ug/L	5.000		108	62.1-134			
Ethylbenzene	5.17	0.50	ug/L	5.000		103	86-119			
Hexachlorobutadiene	5.10	2.0	ug/L	5.000		102	54.7-158			
Isopropylbenzene	5.39	0.50	ug/L	5.000		108	86.3-118			
m,p-Xylene	10.2	1.0	ug/L	10.00		102	87.1-118			
Methyl t-Butyl Ether	5.44	0.50	ug/L	5.000		109	58.1-138			
Methylene chloride	5.60	2.0	ug/L	5.000		112	63.5-153			B
Naphthalene	4.86	5.0	ug/L	5.000		97.2	39.3-132			J, B
n-Butyl Benzene	4.88	0.50	ug/L	5.000		97.6	84.7-121			
n-Hexane	5.59	0.50	ug/L	5.000		112	49.5-147			
n-Propyl Benzene	4.74	0.50	ug/L	5.000		94.8	84.2-124			
o-Xylene	5.05	0.50	ug/L	5.000		101	82.8-114			
p-Isopropyltoluene	4.96	0.50	ug/L	5.000		99.2	88.1-116			
sec-Butyl Benzene	4.83	0.50	ug/L	5.000		96.6	85.3-121			
Styrene	4.89	0.50	ug/L	5.000		97.8	84.7-120			B
tert-Butylbenzene	4.90	0.50	ug/L	5.000		98.0	76.2-123			
Tetrachloroethene	4.82	0.50	ug/L	5.000		96.4	79.3-122			
Tetrahydrofuran	25.6	10	ug/L	25.00		102	27.8-152			
Toluene	4.81	0.50	ug/L	5.000		96.2	82.7-117			B
trans-1,2-Dichloroethene	5.30	0.50	ug/L	5.000		106	72.3-135			
trans-1,3-Dichloropropene	5.00	0.50	ug/L	5.000		100	72.5-122			
Trichloroethene	5.18	0.50	ug/L	5.000		104	77-126			
Trichlorofluoromethane	5.54	0.50	ug/L	5.000		111	56-195			
Vinyl chloride	5.16	0.50	ug/L	5.000		103	52.3-186			
Surrogate: Dibromofluoromethane	*5.09*		*ug/L*	*5.000*		*102*	*68.9-141*			
Surrogate: Toluene-d8	*5.07*		*ug/L*	*5.000*		*101*	*73.3-114*			
Surrogate: 4-Bromofluorobenzene	*5.13*		*ug/L*	*5.000*		*103*	*72.2-114*			
Matrix Spike (A710036-MS1)	**Source: A174110-01**			Prepared: 10/11/2017 Analyzed: 10/12/2017 02:00						
1,1,1,2-Tetrachloroethane	5.15	0.50	ug/L	5.000	ND	103	77.8-137			
1,1,1-Trichloroethane	5.57	0.50	ug/L	5.000	ND	111	66.3-167			
1,1,2,2-Tetrachloroethane	5.17	0.50	ug/L	5.000	ND	103	61.3-138			
1,1,2-Trichloroethane	5.22	0.50	ug/L	5.000	ND	104	75.4-132			
1,1,2-Trichlorotrifluoroethane	5.73	0.50	ug/L	5.000	ND	115	57.7-198			
1,1-Dichloroethane	5.64	0.50	ug/L	5.000	ND	113	66.9-154			
1,1-Dichloroethene	5.48	0.50	ug/L	5.000	ND	110	50.1-187			
1,1-Dichloropropene	5.23	0.50	ug/L	5.000	ND	105	74.1-127			
1,2,3-Trichlorobenzene	4.72	2.0	ug/L	5.000	0.0700	93.0	75.4-122			B
1,2,3-Trichloropropane	5.28	1.0	ug/L	5.000	ND	106	68.4-141			

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708 Heartland Trail, Ste 3000	Project Number: 266431
Madison WI, 53717	Project Manager: Andrew Stehn

Volatile Organic Compounds by Method 8260 - Purge and Trap - Quality Control

Pace Analytical - Madison

Analyte	Result	Limit of Quantitation	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch A710036 - EPA 5030B										
Matrix Spike (A710036-MS1)	**Source: A174110-01**		Prepared: 10/11/2017 Analyzed: 10/12/2017 02:00							
1,2,4-Trichlorobenzene	4.58	2.0	ug/L	5.000	ND	91.6	72.1-121			
1,2,4-Trimethylbenzene	5.25	0.50	ug/L	5.000	0.370	97.6	86.5-121			
1,2-Dibromo-3-chloropropane	5.17	0.50	ug/L	5.000	ND	103	49.9-130			
1,2-Dibromoethane (EDB)	5.16	0.50	ug/L	5.000	ND	103	74.4-124			
1,2-Dichlorobenzene	5.01	0.50	ug/L	5.000	ND	100	88.5-114			
1,2-Dichloroethane	5.98	0.50	ug/L	5.000	ND	120	72.6-161			
1,2-Dichloropropane	5.09	0.50	ug/L	5.000	ND	102	84.7-119			
1,3,5-Trimethylbenzene	5.15	0.50	ug/L	5.000	0.170	99.6	87.3-122			
1,3-Dichlorobenzene	4.79	0.50	ug/L	5.000	ND	95.8	90.1-115			
1,3-Dichloropropane	5.18	0.50	ug/L	5.000	ND	104	76.6-126			
1,4-Dichlorobenzene	4.60	0.50	ug/L	5.000	ND	92.0	87.6-113			
2,2-Dichloropropane	4.24	0.50	ug/L	5.000	ND	84.8	72.3-145			
2-Butanone	54.6	20	ug/L	50.00	ND	109	32.2-170			
2-Chlorotoluene	5.04	0.50	ug/L	5.000	ND	101	87.9-117			
2-Hexanone	52.0	20	ug/L	50.00	ND	104	30.2-168			
4-Chlorotoluene	4.80	0.50	ug/L	5.000	ND	96.0	87.5-120			
4-Methyl-2-pentanone	53.2	20	ug/L	50.00	ND	106	39.1-168			
Acetone	67.2	20	ug/L	50.00	ND	134	31.2-199			
Benzene	5.79	0.50	ug/L	5.000	0.710	102	67.8-136			
Bromobenzene	4.95	0.50	ug/L	5.000	ND	99.0	84.5-111			
Bromochloromethane	5.29	0.50	ug/L	5.000	ND	106	80.9-134			
Bromodichloromethane	5.25	0.50	ug/L	5.000	ND	105	76.1-144			
Bromoform	5.14	0.50	ug/L	5.000	ND	103	60.2-142			
Bromomethane	5.66	5.0	ug/L	5.000	ND	113	50.3-198			
Carbon disulfide	5.35	0.50	ug/L	5.000	ND	107	35.6-196			
Carbon tetrachloride	5.27	0.50	ug/L	5.000	ND	105	69.7-152			
Chlorobenzene	4.93	0.50	ug/L	5.000	ND	98.6	89.3-113			
Chloroethane	5.53	5.0	ug/L	5.000	ND	111	50.2-198			
Chloroform	5.25	0.50	ug/L	5.000	ND	105	66.2-164			
Chloromethane	6.89	2.0	ug/L	5.000	2.23	93.2	46.5-179			
cis-1,2-Dichloroethene	5.08	0.50	ug/L	5.000	ND	102	67.5-137			
cis-1,3-Dichloropropene	4.87	0.50	ug/L	5.000	ND	97.4	63.3-123			
Dibromochloromethane	5.16	0.50	ug/L	5.000	ND	103	76-133			
Dibromomethane	5.26	0.50	ug/L	5.000	ND	105	78.2-139			
Dichlorodifluoromethane	5.26	0.50	ug/L	5.000	ND	105	70.6-150			
Diisopropyl Ether	5.59	0.50	ug/L	5.000	ND	112	57.3-137			
Ethylbenzene	5.83	0.50	ug/L	5.000	0.790	101	87.3-118			
Hexachlorobutadiene	5.04	2.0	ug/L	5.000	ND	101	55.4-161			
Isopropylbenzene	5.66	0.50	ug/L	5.000	0.530	103	89-115			
m,p-Xylene	10.2	1.0	ug/L	10.00	0.370	98.6	88.4-117			
Methyl t-Butyl Ether	5.67	0.50	ug/L	5.000	ND	113	54.4-145			
Methylene chloride	5.70	2.0	ug/L	5.000	ND	114	59.2-154			B
Naphthalene	5.40	5.0	ug/L	5.000	0.690	94.2	43.3-129			B
n-Butyl Benzene	4.95	0.50	ug/L	5.000	ND	99.0	85.9-119			

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708 Heartland Trail, Ste 3000	Project Number: 266431
Madison WI, 53717	Project Manager: Andrew Stehn

Volatile Organic Compounds by Method 8260 - Purge and Trap - Quality Control

Pace Analytical - Madison

Analyte	Result	Limit of Quantitation	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch A710036 - EPA 5030B										
Matrix Spike (A710036-MS1)	**Source: A174110-01**			Prepared: 10/11/2017 Analyzed: 10/12/2017 02:00						
n-Hexane	5.41	0.50	ug/L	5.000	ND	108	44.3-150			
n-Propyl Benzene	5.03	0.50	ug/L	5.000	0.190	96.8	83.7-124			
o-Xylene	5.06	0.50	ug/L	5.000	0.110	99.0	83.9-112			
p-Isopropyltoluene	5.15	0.50	ug/L	5.000	0.160	99.8	89.6-114			
sec-Butyl Benzene	5.03	0.50	ug/L	5.000	0.130	98.0	85.5-120			
Styrene	4.65	0.50	ug/L	5.000	0.100	91.0	79.7-123			B
tert-Butylbenzene	4.99	0.50	ug/L	5.000	ND	99.8	78.6-120			
Tetrachloroethene	4.60	0.50	ug/L	5.000	ND	92.0	78.8-123			
Tetrahydrofuran	26.1	10	ug/L	25.00	ND	104	24.7-155			
Toluene	5.14	0.50	ug/L	5.000	0.320	96.4	81-118			B
trans-1,2-Dichloroethene	5.41	0.50	ug/L	5.000	ND	108	65.3-141			
trans-1,3-Dichloropropene	5.33	0.50	ug/L	5.000	ND	107	73.7-120			
Trichloroethene	5.21	0.50	ug/L	5.000	ND	104	77.1-123			
Trichlorofluoromethane	5.71	0.50	ug/L	5.000	ND	114	44.8-199			
Vinyl chloride	5.53	0.50	ug/L	5.000	ND	111	49.8-180			
Surrogate: Dibromofluoromethane	*5.34*		*ug/L*	*5.000*		*107*	*68.9-141*			
Surrogate: Toluene-d8	*4.99*		*ug/L*	*5.000*		*99.8*	*73.3-114*			
Surrogate: 4-Bromofluorobenzene	*5.12*		*ug/L*	*5.000*		*102*	*72.2-114*			
Matrix Spike (A710036-MS2)	**Source: A174009-05**			Prepared: 10/12/2017 Analyzed: 10/12/2017 16:29						
1,1,1,2-Tetrachloroethane	5.18	0.50	ug/L	5.000	ND	104	77.8-137			
1,1,1-Trichloroethane	5.46	0.50	ug/L	5.000	ND	109	66.3-167			
1,1,2,2-Tetrachloroethane	5.14	0.50	ug/L	5.000	ND	103	61.3-138			
1,1,2-Trichloroethane	6.35	0.50	ug/L	5.000	ND	127	75.4-132			
1,1,2-Trichlorotrifluoroethane	5.69	0.50	ug/L	5.000	ND	114	57.7-198			
1,1-Dichloroethane	5.67	0.50	ug/L	5.000	ND	113	66.9-154			
1,1-Dichloroethene	5.50	0.50	ug/L	5.000	ND	110	50.1-187			
1,1-Dichloropropene	5.43	0.50	ug/L	5.000	ND	109	74.1-127			
1,2,3-Trichlorobenzene	4.60	2.0	ug/L	5.000	ND	92.0	75.4-122			B
1,2,3-Trichloropropane	5.54	1.0	ug/L	5.000	ND	111	68.4-141			
1,2,4-Trichlorobenzene	4.67	2.0	ug/L	5.000	ND	93.4	72.1-121			
1,2,4-Trimethylbenzene	4.93	0.50	ug/L	5.000	ND	98.6	86.5-121			
1,2-Dibromo-3-chloropropane	4.94	0.50	ug/L	5.000	ND	98.8	49.9-130			
1,2-Dibromoethane (EDB)	5.37	0.50	ug/L	5.000	ND	107	74.4-124			
1,2-Dichlorobenzene	4.87	0.50	ug/L	5.000	ND	97.4	88.5-114			
1,2-Dichloroethane	5.90	0.50	ug/L	5.000	ND	118	72.6-161			
1,2-Dichloropropane	5.05	0.50	ug/L	5.000	ND	101	84.7-119			
1,3,5-Trimethylbenzene	4.97	0.50	ug/L	5.000	ND	99.4	87.3-122			
1,3-Dichlorobenzene	4.79	0.50	ug/L	5.000	ND	95.8	90.1-115			
1,3-Dichloropropane	5.25	0.50	ug/L	5.000	ND	105	76.6-126			
1,4-Dichlorobenzene	4.71	0.50	ug/L	5.000	ND	94.2	87.6-113			
2,2-Dichloropropane	5.13	0.50	ug/L	5.000	ND	103	72.3-145			
2-Butanone	54.3	20	ug/L	50.00	ND	109	32.2-170			
2-Chlorotoluene	4.99	0.50	ug/L	5.000	ND	99.8	87.9-117			

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Analyte	Result	Limit of Quantitation	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch A710036 - EPA 5030B										
Matrix Spike (A710036-MS2)	**Source: A174009-05**		Prepared: 10/12/2017 Analyzed: 10/12/2017 16:29							
2-Hexanone	54.0	20	ug/L	50.00	ND	108	30.2-168			
4-Chlorotoluene	5.02	0.50	ug/L	5.000	ND	100	87.5-120			
4-Methyl-2-pentanone	55.9	20	ug/L	50.00	ND	112	39.1-168			
Acetone	64.2	20	ug/L	50.00	ND	128	31.2-199			
Benzene	4.97	0.50	ug/L	5.000	ND	99.4	67.8-136			
Bromobenzene	4.84	0.50	ug/L	5.000	ND	96.8	84.5-111			
Bromochloromethane	5.39	0.50	ug/L	5.000	ND	108	80.9-134			
Bromodichloromethane	5.32	0.50	ug/L	5.000	ND	106	76.1-144			
Bromoform	5.17	0.50	ug/L	5.000	ND	103	60.2-142			
Bromomethane	5.62	5.0	ug/L	5.000	ND	112	50.3-198			
Carbon disulfide	5.45	0.50	ug/L	5.000	ND	109	35.6-196			
Carbon tetrachloride	5.30	0.50	ug/L	5.000	ND	106	69.7-152			
Chlorobenzene	5.00	0.50	ug/L	5.000	ND	100	89.3-113			
Chloroethane	5.59	5.0	ug/L	5.000	ND	112	50.2-198			
Chloroform	5.22	0.50	ug/L	5.000	ND	104	66.2-164			
Chloromethane	5.30	2.0	ug/L	5.000	0.400	98.0	46.5-179			
cis-1,2-Dichloroethene	6.69	0.50	ug/L	5.000	1.75	98.8	67.5-137			
cis-1,3-Dichloropropene	4.99	0.50	ug/L	5.000	ND	99.8	63.3-123			
Dibromochloromethane	5.27	0.50	ug/L	5.000	ND	105	76-133			
Dibromomethane	5.35	0.50	ug/L	5.000	ND	107	78.2-139			
Dichlorodifluoromethane	5.13	0.50	ug/L	5.000	ND	103	70.6-150			
Diisopropyl Ether	5.68	0.50	ug/L	5.000	ND	114	57.3-137			
Ethylbenzene	5.08	0.50	ug/L	5.000	ND	102	87.3-118			
Hexachlorobutadiene	5.08	2.0	ug/L	5.000	ND	102	55.4-161			
Isopropylbenzene	5.19	0.50	ug/L	5.000	ND	104	89-115			
m,p-Xylene	10.0	1.0	ug/L	10.00	ND	100	88.4-117			
Methyl t-Butyl Ether	5.78	0.50	ug/L	5.000	ND	116	54.4-145			
Methylene chloride	5.61	2.0	ug/L	5.000	ND	112	59.2-154			B
Naphthalene	4.83	5.0	ug/L	5.000	ND	96.6	43.3-129			J, B
n-Butyl Benzene	4.87	0.50	ug/L	5.000	ND	97.4	85.9-119			
n-Hexane	5.81	0.50	ug/L	5.000	ND	116	44.3-150			
n-Propyl Benzene	4.80	0.50	ug/L	5.000	ND	96.0	83.7-124			
o-Xylene	4.94	0.50	ug/L	5.000	ND	98.8	83.9-112			
p-Isopropyltoluene	4.94	0.50	ug/L	5.000	ND	98.8	89.6-114			
sec-Butyl Benzene	4.86	0.50	ug/L	5.000	ND	97.2	85.5-120			
Styrene	4.71	0.50	ug/L	5.000	ND	94.2	79.7-123			B
tert-Butylbenzene	4.94	0.50	ug/L	5.000	ND	98.8	78.6-120			
Tetrachloroethene	34.2	0.50	ug/L	5.000	29.7	89.2	78.8-123			
Tetrahydrofuran	28.3	10	ug/L	25.00	ND	113	24.7-155			
Toluene	4.88	0.50	ug/L	5.000	ND	97.6	81-118			B
trans-1,2-Dichloroethene	5.59	0.50	ug/L	5.000	ND	112	65.3-141			
trans-1,3-Dichloropropene	5.23	0.50	ug/L	5.000	ND	105	73.7-120			
Trichloroethene	11.6	0.50	ug/L	5.000	6.33	105	77.1-123			
Trichlorofluoromethane	5.86	0.50	ug/L	5.000	ND	117	44.8-199			

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Revised Report

TRC Environmental Corporation, Inc.	Project: Madison Kipp Corp. Semi-Annual Sampling
708 Heartland Trail, Ste 3000	Project Number: 266431
Madison WI, 53717	Project Manager: Andrew Stehn

Volatile Organic Compounds by Method 8260 - Purge and Trap - Quality Control

Pace Analytical - Madison

Analyte	Result	Limit of Quantitation	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch A710036 - EPA 5030B										
Matrix Spike (A710036-MS2)	**Source: A174009-05**			Prepared: 10/12/2017	Analyzed: 10/12/2017 16:29					
Vinyl chloride	5.43	0.50	ug/L	5.000	ND	109	49.8-180			
Surrogate: Dibromofluoromethane	*5.28*		*ug/L*	*5.000*		*106*	*68.9-141*			
Surrogate: Toluene-d8	*5.03*		*ug/L*	*5.000*		*101*	*73.3-114*			
Surrogate: 4-Bromofluorobenzene	*5.12*		*ug/L*	*5.000*		*102*	*72.2-114*			
Matrix Spike Dup (A710036-MSD1)	**Source: A174110-01**			Prepared: 10/11/2017	Analyzed: 10/12/2017 02:28					
1,1,1,2-Tetrachloroethane	5.06	0.50	ug/L	5.000	ND	101	77.8-137	1.76	20	
1,1,1-Trichloroethane	5.45	0.50	ug/L	5.000	ND	109	66.3-167	2.18	20	
1,1,2,2-Tetrachloroethane	5.23	0.50	ug/L	5.000	ND	105	61.3-138	1.15	20	
1,1,2-Trichloroethane	5.23	0.50	ug/L	5.000	ND	105	75.4-132	0.191	20	
1,1,2-Trichlorotrifluoroethane	5.73	0.50	ug/L	5.000	ND	115	57.7-198	0.00	20	
1,1-Dichloroethane	5.64	0.50	ug/L	5.000	ND	113	66.9-154	0.00	20	
1,1-Dichloroethene	5.39	0.50	ug/L	5.000	ND	108	50.1-187	1.66	20	
1,1-Dichloropropene	5.16	0.50	ug/L	5.000	ND	103	74.1-127	1.35	20	
1,2,3-Trichlorobenzene	4.77	2.0	ug/L	5.000	0.0700	94.0	75.4-122	1.07	20	B
1,2,3-Trichloropropane	5.31	1.0	ug/L	5.000	ND	106	68.4-141	0.567	20	
1,2,4-Trichlorobenzene	4.63	2.0	ug/L	5.000	ND	92.6	72.1-121	1.09	20	
1,2,4-Trimethylbenzene	5.03	0.50	ug/L	5.000	0.370	93.2	86.5-121	4.61	20	
1,2-Dibromo-3-chloropropane	5.06	0.50	ug/L	5.000	ND	101	49.9-130	2.15	20	
1,2-Dibromoethane (EDB)	5.20	0.50	ug/L	5.000	ND	104	74.4-124	0.772	20	
1,2-Dichlorobenzene	4.97	0.50	ug/L	5.000	ND	99.4	88.5-114	0.802	20	
1,2-Dichloroethane	5.92	0.50	ug/L	5.000	ND	118	72.6-161	1.01	20	
1,2-Dichloropropane	5.12	0.50	ug/L	5.000	ND	102	84.7-119	0.588	20	
1,3,5-Trimethylbenzene	4.94	0.50	ug/L	5.000	0.170	95.4	87.3-122	4.31	20	
1,3-Dichlorobenzene	4.68	0.50	ug/L	5.000	ND	93.6	90.1-115	2.32	20	
1,3-Dichloropropane	5.20	0.50	ug/L	5.000	ND	104	76.6-126	0.385	20	
1,4-Dichlorobenzene	4.68	0.50	ug/L	5.000	ND	93.6	87.6-113	1.72	20	
2,2-Dichloropropane	4.23	0.50	ug/L	5.000	ND	84.6	72.3-145	0.236	20	
2-Butanone	51.4	20	ug/L	50.00	ND	103	32.2-170	6.08	20	
2-Chlorotoluene	4.94	0.50	ug/L	5.000	ND	98.8	87.9-117	2.00	20	
2-Hexanone	51.3	20	ug/L	50.00	ND	103	30.2-168	1.28	20	
4-Chlorotoluene	4.89	0.50	ug/L	5.000	ND	97.8	87.5-120	1.86	20	
4-Methyl-2-pentanone	53.3	20	ug/L	50.00	ND	107	39.1-168	0.207	20	
Acetone	68.5	20	ug/L	50.00	ND	137	31.2-199	1.99	20	
Benzene	5.70	0.50	ug/L	5.000	0.710	99.8	67.8-136	1.79	20	
Bromobenzene	4.98	0.50	ug/L	5.000	ND	99.6	84.5-111	0.604	20	
Bromochloromethane	5.33	0.50	ug/L	5.000	ND	107	80.9-134	0.753	20	
Bromodichloromethane	5.29	0.50	ug/L	5.000	ND	106	76.1-144	0.759	20	
Bromoform	5.20	0.50	ug/L	5.000	ND	104	60.2-142	1.16	20	
Bromomethane	5.71	5.0	ug/L	5.000	ND	114	50.3-198	0.880	20	
Carbon disulfide	5.34	0.50	ug/L	5.000	ND	107	35.6-196	0.187	20	
Carbon tetrachloride	5.34	0.50	ug/L	5.000	ND	107	69.7-152	1.32	20	
Chlorobenzene	4.91	0.50	ug/L	5.000	ND	98.2	89.3-113	0.407	20	
Chloroethane	5.78	5.0	ug/L	5.000	ND	116	50.2-198	4.42	20	

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708 Heartland Trail, Ste 3000	Project Number: 266431
Madison WI, 53717	Project Manager: Andrew Stehn

Volatile Organic Compounds by Method 8260 - Purge and Trap - Quality Control

Pace Analytical - Madison

Analyte	Result	Limit of Quantitation	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch A710036 - EPA 5030B										
Matrix Spike Dup (A710036-MSD1)	**Source: A174110-01**			Prepared: 10/11/2017 Analyzed: 10/12/2017 02:28						
Chloroform	5.26	0.50	ug/L	5.000	ND	105	66.2-164	0.190	20	
Chloromethane	6.74	2.0	ug/L	5.000	2.23	90.2	46.5-179	3.27	20	
cis-1,2-Dichloroethene	5.06	0.50	ug/L	5.000	ND	101	67.5-137	0.394	20	
cis-1,3-Dichloropropene	4.80	0.50	ug/L	5.000	ND	96.0	63.3-123	1.45	20	
Dibromochloromethane	5.15	0.50	ug/L	5.000	ND	103	76-133	0.194	20	
Dibromomethane	5.35	0.50	ug/L	5.000	ND	107	78.2-139	1.70	20	
Dichlorodifluoromethane	5.56	0.50	ug/L	5.000	ND	111	70.6-150	5.55	20	
Diisopropyl Ether	5.56	0.50	ug/L	5.000	ND	111	57.3-137	0.538	20	
Ethylbenzene	5.77	0.50	ug/L	5.000	0.790	99.6	87.3-118	1.20	20	
Hexachlorobutadiene	5.08	2.0	ug/L	5.000	ND	102	55.4-161	0.791	20	
Isopropylbenzene	5.67	0.50	ug/L	5.000	0.530	103	89-115	0.195	20	
m,p-Xylene	10.2	1.0	ug/L	10.00	0.370	98.3	88.4-117	0.305	20	
Methyl t-Butyl Ether	5.68	0.50	ug/L	5.000	ND	114	54.4-145	0.176	20	
Methylene chloride	5.64	2.0	ug/L	5.000	ND	113	59.2-154	1.06	20	B
Naphthalene	5.51	5.0	ug/L	5.000	0.690	96.4	43.3-129	2.31	20	B
n-Butyl Benzene	4.89	0.50	ug/L	5.000	ND	97.8	85.9-119	1.22	20	
n-Hexane	5.49	0.50	ug/L	5.000	ND	110	44.3-150	1.47	20	
n-Propyl Benzene	5.06	0.50	ug/L	5.000	0.190	97.4	83.7-124	0.618	20	
o-Xylene	5.11	0.50	ug/L	5.000	0.110	100	83.9-112	1.01	20	
p-Isopropyltoluene	5.07	0.50	ug/L	5.000	0.160	98.2	89.6-114	1.62	20	
sec-Butyl Benzene	5.08	0.50	ug/L	5.000	0.130	99.0	85.5-120	1.02	20	
Styrene	4.32	0.50	ug/L	5.000	0.100	84.4	79.7-123	7.53	20	B
tert-Butylbenzene	5.11	0.50	ug/L	5.000	ND	102	78.6-120	2.38	20	
Tetrachloroethene	4.81	0.50	ug/L	5.000	ND	96.2	78.8-123	4.46	20	
Tetrahydrofuran	26.2	10	ug/L	25.00	ND	105	24.7-155	0.268	20	
Toluene	5.12	0.50	ug/L	5.000	0.320	96.0	81-118	0.416	20	B
trans-1,2-Dichloroethene	5.52	0.50	ug/L	5.000	ND	110	65.3-141	2.01	20	
trans-1,3-Dichloropropene	5.21	0.50	ug/L	5.000	ND	104	73.7-120	2.28	20	
Trichloroethene	5.14	0.50	ug/L	5.000	ND	103	77.1-123	1.35	20	
Trichlorofluoromethane	5.77	0.50	ug/L	5.000	ND	115	44.8-199	1.05	20	
Vinyl chloride	5.58	0.50	ug/L	5.000	ND	112	49.8-180	0.900	20	
Surrogate: Dibromofluoromethane	*5.38*		*ug/L*	*5.000*		*108*	*68.9-141*			
Surrogate: Toluene-d8	*5.08*		*ug/L*	*5.000*		*102*	*73.3-114*			
Surrogate: 4-Bromofluorobenzene	*5.12*		*ug/L*	*5.000*		*102*	*72.2-114*			
Matrix Spike Dup (A710036-MSD2)	**Source: A174009-05**			Prepared: 10/12/2017 Analyzed: 10/12/2017 16:57						
1,1,1,2-Tetrachloroethane	5.00	0.50	ug/L	5.000	ND	100	77.8-137	3.54	20	
1,1,1-Trichloroethane	5.30	0.50	ug/L	5.000	ND	106	66.3-167	2.97	20	
1,1,2,2-Tetrachloroethane	4.86	0.50	ug/L	5.000	ND	97.2	61.3-138	5.60	20	
1,1,2-Trichloroethane	6.23	0.50	ug/L	5.000	ND	125	75.4-132	1.91	20	
1,1,2-Trichlorotrifluoroethane	5.70	0.50	ug/L	5.000	ND	114	57.7-198	0.176	20	
1,1-Dichloroethane	5.50	0.50	ug/L	5.000	ND	110	66.9-154	3.04	20	
1,1-Dichloroethene	5.37	0.50	ug/L	5.000	ND	107	50.1-187	2.39	20	
1,1-Dichloropropene	5.51	0.50	ug/L	5.000	ND	110	74.1-127	1.46	20	

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708 Heartland Trail, Ste 3000	Project Number: 266431
Madison WI, 53717	Project Manager: Andrew Stehn

Volatile Organic Compounds by Method 8260 - Purge and Trap - Quality Control

Pace Analytical - Madison

Analyte	Result	Limit of Quantitation	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch A710036 - EPA 5030B										
Matrix Spike Dup (A710036-MSD2)	**Source: A174009-05**		Prepared: 10/12/2017 Analyzed: 10/12/2017 16:57							
1,2,3-Trichlorobenzene	4.64	2.0	ug/L	5.000	ND	92.8	75.4-122	0.866	20	B
1,2,3-Trichloropropane	5.13	1.0	ug/L	5.000	ND	103	68.4-141	7.69	20	
1,2,4-Trichlorobenzene	4.53	2.0	ug/L	5.000	ND	90.6	72.1-121	3.04	20	
1,2,4-Trimethylbenzene	4.85	0.50	ug/L	5.000	ND	97.0	86.5-121	1.64	20	
1,2-Dibromo-3-chloropropane	4.71	0.50	ug/L	5.000	ND	94.2	49.9-130	4.77	20	
1,2-Dibromoethane (EDB)	5.32	0.50	ug/L	5.000	ND	106	74.4-124	0.935	20	
1,2-Dichlorobenzene	4.79	0.50	ug/L	5.000	ND	95.8	88.5-114	1.66	20	
1,2-Dichloroethane	5.63	0.50	ug/L	5.000	ND	113	72.6-161	4.68	20	
1,2-Dichloropropane	4.94	0.50	ug/L	5.000	ND	98.8	84.7-119	2.20	20	
1,3,5-Trimethylbenzene	4.91	0.50	ug/L	5.000	ND	98.2	87.3-122	1.21	20	
1,3-Dichlorobenzene	4.67	0.50	ug/L	5.000	ND	93.4	90.1-115	2.54	20	
1,3-Dichloropropane	5.15	0.50	ug/L	5.000	ND	103	76.6-126	1.92	20	
1,4-Dichlorobenzene	4.61	0.50	ug/L	5.000	ND	92.2	87.6-113	2.15	20	
2,2-Dichloropropane	5.15	0.50	ug/L	5.000	ND	103	72.3-145	0.389	20	
2-Butanone	52.1	20	ug/L	50.00	ND	104	32.2-170	4.14	20	
2-Chlorotoluene	4.86	0.50	ug/L	5.000	ND	97.2	87.9-117	2.64	20	
2-Hexanone	50.7	20	ug/L	50.00	ND	101	30.2-168	6.25	20	
4-Chlorotoluene	4.78	0.50	ug/L	5.000	ND	95.6	87.5-120	4.90	20	
4-Methyl-2-pentanone	52.7	20	ug/L	50.00	ND	105	39.1-168	5.78	20	
Acetone	57.7	20	ug/L	50.00	ND	115	31.2-199	10.7	20	
Benzene	4.93	0.50	ug/L	5.000	ND	98.6	67.8-136	0.808	20	
Bromobenzene	4.75	0.50	ug/L	5.000	ND	95.0	84.5-111	1.88	20	
Bromochloromethane	4.96	0.50	ug/L	5.000	ND	99.2	80.9-134	8.31	20	
Bromodichloromethane	5.12	0.50	ug/L	5.000	ND	102	76.1-144	3.83	20	
Bromoform	4.88	0.50	ug/L	5.000	ND	97.6	60.2-142	5.77	20	
Bromomethane	5.69	5.0	ug/L	5.000	ND	114	50.3-198	1.24	20	
Carbon disulfide	5.27	0.50	ug/L	5.000	ND	105	35.6-196	3.36	20	
Carbon tetrachloride	5.14	0.50	ug/L	5.000	ND	103	69.7-152	3.07	20	
Chlorobenzene	4.84	0.50	ug/L	5.000	ND	96.8	89.3-113	3.25	20	
Chloroethane	5.52	5.0	ug/L	5.000	ND	110	50.2-198	1.26	20	
Chloroform	5.03	0.50	ug/L	5.000	ND	101	66.2-164	3.71	20	
Chloromethane	5.46	2.0	ug/L	5.000	0.400	101	46.5-179	3.21	20	
cis-1,2-Dichloroethene	6.58	0.50	ug/L	5.000	1.75	96.6	67.5-137	2.25	20	
cis-1,3-Dichloropropene	4.79	0.50	ug/L	5.000	ND	95.8	63.3-123	4.09	20	
Dibromochloromethane	5.06	0.50	ug/L	5.000	ND	101	76-133	4.07	20	
Dibromomethane	5.13	0.50	ug/L	5.000	ND	103	78.2-139	4.20	20	
Dichlorodifluoromethane	5.10	0.50	ug/L	5.000	ND	102	70.6-150	0.587	20	
Diisopropyl Ether	5.50	0.50	ug/L	5.000	ND	110	57.3-137	3.22	20	
Ethylbenzene	4.94	0.50	ug/L	5.000	ND	98.8	87.3-118	2.79	20	
Hexachlorobutadiene	5.09	2.0	ug/L	5.000	ND	102	55.4-161	0.197	20	
Isopropylbenzene	5.04	0.50	ug/L	5.000	ND	101	89-115	2.93	20	
m,p-Xylene	9.89	1.0	ug/L	10.00	ND	98.9	88.4-117	1.11	20	
Methyl t-Butyl Ether	5.58	0.50	ug/L	5.000	ND	112	54.4-145	3.52	20	
Methylene chloride	5.37	2.0	ug/L	5.000	ND	107	59.2-154	4.37	20	B

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708 Heartland Trail, Ste 3000	Project Number: 266431
Madison WI, 53717	Project Manager: Andrew Stehn

Volatile Organic Compounds by Method 8260 - Purge and Trap - Quality Control

Pace Analytical - Madison

Analyte	Result	Limit of Quantitation	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch A710036 - EPA 5030B										
Matrix Spike Dup (A710036-MSD2)	**Source: A174009-05**			Prepared: 10/12/2017 Analyzed: 10/12/2017 16:57						
Naphthalene	4.93	5.0	ug/L	5.000	ND	98.6	43.3-129	2.05	20	J, B
n-Butyl Benzene	4.82	0.50	ug/L	5.000	ND	96.4	85.9-119	1.03	20	
n-Hexane	5.66	0.50	ug/L	5.000	ND	113	44.3-150	2.62	20	
n-Propyl Benzene	4.73	0.50	ug/L	5.000	ND	94.6	83.7-124	1.47	20	
o-Xylene	4.77	0.50	ug/L	5.000	ND	95.4	83.9-112	3.50	20	
p-Isopropyltoluene	4.80	0.50	ug/L	5.000	ND	96.0	89.6-114	2.87	20	
sec-Butyl Benzene	4.85	0.50	ug/L	5.000	ND	97.0	85.5-120	0.206	20	
Styrene	4.53	0.50	ug/L	5.000	ND	90.6	79.7-123	3.90	20	B
tert-Butylbenzene	4.89	0.50	ug/L	5.000	ND	97.8	78.6-120	1.02	20	
Tetrachloroethene	32.8	0.50	ug/L	5.000	29.7	60.6	78.8-123	38.2	20	M, X
Tetrahydrofuran	26.8	10	ug/L	25.00	ND	107	24.7-155	5.44	20	
Toluene	4.69	0.50	ug/L	5.000	ND	93.8	81-118	3.97	20	B
trans-1,2-Dichloroethene	5.35	0.50	ug/L	5.000	ND	107	65.3-141	4.39	20	
trans-1,3-Dichloropropene	4.92	0.50	ug/L	5.000	ND	98.4	73.7-120	6.11	20	
Trichloroethene	11.1	0.50	ug/L	5.000	6.33	95.4	77.1-123	9.20	20	
Trichlorofluoromethane	5.63	0.50	ug/L	5.000	ND	113	44.8-199	4.00	20	
Vinyl chloride	5.35	0.50	ug/L	5.000	ND	107	49.8-180	1.48	20	
Surrogate: Dibromofluoromethane	*5.16*		*ug/L*	*5.000*		*103*	*68.9-141*			
Surrogate: Toluene-d8	*4.89*		*ug/L*	*5.000*		*97.8*	*73.3-114*			
Surrogate: 4-Bromofluorobenzene	*4.94*		*ug/L*	*5.000*		*98.8*	*72.2-114*			

Pace Analytical®
ECCS Mobile Lab Services

2525 Advance Road
Madison, WI 53718
608.221.8700 Phone
608.221.4889 Fax

Revised Report

TRC Environmental Corporation, Inc.	Project: Madison Kipp Corp. Semi-Annual Sampling
708 Heartland Trail, Ste 3000	Project Number: 266431
Madison WI, 53717	Project Manager: Andrew Stehn

Notes and Definitions

X	Precision for the matrix spike duplicate, laboratory control sample duplicate or lab duplicate was outside of control limits.
S	Surrogate recovery was outside of laboratory control limits due to an apparent matrix effect.
M	The matrix spike and/or matrix spike duplicate recovery was outside of the laboratory control limits.
Ja	Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.
J	Analyte was detected but is below the reporting limit. The concentration is estimated.
D	Data reported from a dilution
B	Analyte is also detected in the associated method blank.
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis. If the word 'dry' does not appear after the units, results are reported on an as-is basis.
RPD	Relative Percent Difference

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Pace Analytical - ECCS Division
2525 Advance Road
Madison, WI 53718
608-221-8700 (phone)
608-221-4889 (fax)

CHAIN OF CUSTODY

No. 8100 Page: of:

Lab Work Order #: A174110

Report To: ANDREW STEHN
Company: TRC ENV.
Address 1: 708 Heartland Tr. ste 3000
Address 2: Madison, WI 53717
E-mail Address: astehn@trcsolutions.com

Project Number: 266431 Ph.1 PO Number:
Project Name: MKC GM+M
Project Location (City, State): Madison, WI

Preservation Codes
Analyses Requested: B A A A

Turn Around (check one): ☒ Normal ☐ Rush
If Rush, Report Due Date:
Sampled By (Print): Wesley Brager

Invoice To:
Company: same as above
Address 1:
Address 2:

Sample Description	Collection Date	Collection Time	Matrix	Total # of Containers	VOCs	TDS	TSS	PCBs			Comments	Lab ID	Lab Receipt Time
MW-6S	10/9/17	0928	W	21	X	X	X	X			Vials MS/MSD 1 air bubble <6mm	01	
MW-6D	10/9/17	1240	W	3	X						Vial C air bubble <6mm	02	
MW-17	10/9/17	1010	W	3	X							03	
MW-24	10/9/17	1307	W	4		X	X	X			Plastic Bottles read MW-28	04	
MW-11S	10/9/17	1531	W	4		X	X	X				05	
MW-28	10/10/17	1357	W	4		X	X	X				06	
DUP-05	10/9/17	—	W	7	X	X	X	X			Vial B+C air bubble <6mm	07	
FB-01	10/9/17	1508	W	7	X	X	X	X				08	
TRIP Blank	—	—	W	2	X							09	

Preservation Codes
A=None B=HCL C=H_2SO_4
D=HNO_3 E=EnCore F=Methanol
G=NaOH O=Other (Indicate)
Matrix Codes
A=Air S=Soil W=Water O=Other

Other Comments:

Relinquished By: Wesley Brager Date: 10/10/17 Time: 1600 Received By: [illegible] Date: 10-10-17 Time: 1600
Relinquished By: Date: Time: Received By: Date: Time:

Custody Seal: ☒ NA ☐ Intact ☐ Not Intact
Shipped Via: Walk In
Receipt Temp: 2.1°C
Thermometer #/ Exp. Date: 160142274 1/21/18
Temp Blank: ☒ Y ☐ N

Rev. 12/15

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

October 19, 2017

Jessica Esser
Pace Analytical Madison
2525 Advance Road
Madison, WI 53718

RE: Project: A174110 MADISON KIPP CORP.
Pace Project No.: 40158484

Dear Jessica Esser:
Enclosed are the analytical results for sample(s) received by the laboratory on October 12, 2017. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Dan Milewsky
dan.milewsky@pacelabs.com
(920)469-2436
Project Manager

Enclosures

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

CERTIFICATIONS

Project: A174110 MADISON KIPP CORP.
Pace Project No.: 40158484

Green Bay Certification IDs

1241 Bellevue Street, Green Bay, WI 54302
Florida/NELAP Certification #: E87948
Illinois Certification #: 200050
Kentucky UST Certification #: 82
Louisiana Certification #: 04168
Minnesota Certification #: 055-999-334
New York Certification #: 12064
North Dakota Certification #: R-150
Virginia VELAP ID: 460263
South Carolina Certification #: 83006001
Texas Certification #: T104704529-14-1
Wisconsin Certification #: 405132750
Wisconsin DATCP Certification #: 105-444
USDA Soil Permit #: P330-16-00157
Federal Fish & Wildlife Permit #: LE51774A-0

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SAMPLE SUMMARY

Project: A174110 MADISON KIPP CORP.
Pace Project No.: 40158484

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40158484001	**A174110-01**	Water	10/09/17 09:28	10/12/17 10:21
40158484002	**A174110-04**	Water	10/09/17 13:07	10/12/17 10:21
40158484003	**A174110-05**	Water	10/09/17 15:31	10/12/17 10:21
40158484004	**A174110-06**	Water	10/10/17 13:57	10/12/17 10:21
40158484005	**A174110-07**	Water	10/09/17 00:00	10/12/17 10:21
40158484006	**A174110-08**	Water	10/09/17 15:08	10/12/17 10:21

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SAMPLE ANALYTE COUNT

Project: A174110 MADISON KIPP CORP.
Pace Project No.: 40158484

Lab ID	Sample ID	Method	Analysts	Analytes Reported
40158484001	**A174110-01**	SM 2540C	TMK	1
		SM 2540D	JMN	1
40158484002	**A174110-04**	SM 2540C	TMK	1
		SM 2540D	JMN	1
40158484003	**A174110-05**	SM 2540C	TMK	1
		SM 2540D	JMN	1
40158484004	**A174110-06**	SM 2540C	TMK	1
		SM 2540D	JMN	1
40158484005	**A174110-07**	SM 2540C	TMK	1
		SM 2540D	JMN	1
40158484006	**A174110-08**	SM 2540C	TMK	1
		SM 2540D	JMN	1

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ANALYTICAL RESULTS

Project: A174110 MADISON KIPP CORP.
Pace Project No.: 40158484

Sample: A174110-01 **Lab ID: 40158484001** Collected: 10/09/17 09:28 Received: 10/12/17 10:21 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
2540C Total Dissolved Solids	Analytical Method: SM 2540C								
Total Dissolved Solids	**3970**	mg/L	20.0	8.7	1		10/16/17 13:57		
2540D Total Suspended Solids	Analytical Method: SM 2540D								
Total Suspended Solids	**1.2J**	mg/L	2.0	0.95	1		10/13/17 11:26		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: A174110 MADISON KIPP CORP.
Pace Project No.: 40158484

Sample: A174110-04 **Lab ID: 40158484002** Collected: 10/09/17 13:07 Received: 10/12/17 10:21 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
2540C Total Dissolved Solids	Analytical Method: SM 2540C								
Total Dissolved Solids	**2060**	mg/L	20.0	8.7	1		10/16/17 13:58		
2540D Total Suspended Solids	Analytical Method: SM 2540D								
Total Suspended Solids	**1.0J**	mg/L	2.0	0.95	1		10/13/17 11:26		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: A174110 MADISON KIPP CORP.
Pace Project No.: 40158484

Sample: A174110-05 **Lab ID: 40158484003** Collected: 10/09/17 15:31 Received: 10/12/17 10:21 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
2540C Total Dissolved Solids	Analytical Method: SM 2540C								
Total Dissolved Solids	**1960**	mg/L	20.0	8.7	1		10/16/17 13:58		
2540D Total Suspended Solids	Analytical Method: SM 2540D								
Total Suspended Solids	**<0.95**	mg/L	2.0	0.95	1		10/13/17 11:26		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: A174110 MADISON KIPP CORP.
Pace Project No.: 40158484

Sample: A174110-06 **Lab ID: 40158484004** Collected: 10/10/17 13:57 Received: 10/12/17 10:21 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
2540C Total Dissolved Solids	Analytical Method: SM 2540C								
Total Dissolved Solids	**1530**	mg/L	20.0	8.7	1		10/16/17 13:58		
2540D Total Suspended Solids	Analytical Method: SM 2540D								
Total Suspended Solids	**<0.95**	mg/L	2.0	0.95	1		10/13/17 11:26		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: A174110 MADISON KIPP CORP.
Pace Project No.: 40158484

Sample: A174110-07 **Lab ID: 40158484005** Collected: 10/09/17 00:00 Received: 10/12/17 10:21 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
2540C Total Dissolved Solids	Analytical Method: SM 2540C								
Total Dissolved Solids	**3910**	mg/L	20.0	8.7	1		10/16/17 13:59		
2540D Total Suspended Solids	Analytical Method: SM 2540D								
Total Suspended Solids	**1.2J**	mg/L	2.0	0.95	1		10/13/17 11:26		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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ANALYTICAL RESULTS

Project: A174110 MADISON KIPP CORP.
Pace Project No.: 40158484

Sample: A174110-08 **Lab ID: 40158484006** Collected: 10/09/17 15:08 Received: 10/12/17 10:21 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
2540C Total Dissolved Solids	Analytical Method: SM 2540C								
Total Dissolved Solids	**<8.7**	mg/L	20.0	8.7	1		10/16/17 13:59		
2540D Total Suspended Solids	Analytical Method: SM 2540D								
Total Suspended Solids	**<0.95**	mg/L	2.0	0.95	1		10/13/17 11:27		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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QUALITY CONTROL DATA

Project: A174110 MADISON KIPP CORP.
Pace Project No.: 40158484

QC Batch: 270732 Analysis Method: SM 2540C
QC Batch Method: SM 2540C Analysis Description: 2540C Total Dissolved Solids
Associated Lab Samples: 40158484001, 40158484002, 40158484003, 40158484004, 40158484005, 40158484006

METHOD BLANK: 1591659 Matrix: Water
Associated Lab Samples: 40158484001, 40158484002, 40158484003, 40158484004, 40158484005, 40158484006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	<8.7	20.0	10/16/17 13:57	

LABORATORY CONTROL SAMPLE: 1591660

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	553	580	105	80-120	

SAMPLE DUPLICATE: 1591661

Parameter	Units	40158484001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	3970	3920	1	5	

SAMPLE DUPLICATE: 1591662

Parameter	Units	40158364001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	638	646	1	5	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: A174110 MADISON KIPP CORP.
Pace Project No.: 40158484

QC Batch: 270533 Analysis Method: SM 2540D
QC Batch Method: SM 2540D Analysis Description: 2540D Total Suspended Solids
Associated Lab Samples: 40158484001, 40158484002, 40158484003, 40158484004, 40158484005, 40158484006

METHOD BLANK: 1589967 Matrix: Water
Associated Lab Samples: 40158484001, 40158484002, 40158484003, 40158484004, 40158484005, 40158484006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Suspended Solids	mg/L	<0.48	1.0	10/13/17 11:24	

LABORATORY CONTROL SAMPLE: 1589968

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Suspended Solids	mg/L	100	104	104	80-120	

SAMPLE DUPLICATE: 1589969

Parameter	Units	40158415001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Suspended Solids	mg/L	397	390	2	5	

SAMPLE DUPLICATE: 1589970

Parameter	Units	40158484001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Suspended Solids	mg/L	1.2J	1.4J		5	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: A174110 MADISON KIPP CORP.
Pace Project No.: 40158484

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above LOD.

J - Estimated concentration at or above the LOD and below the LOQ.

LOD - Limit of Detection adjusted for dilution factor and percent moisture.

LOQ - Limit of Quantitation adjusted for dilution factor and percent moisture.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

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.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected at or above the adjusted LOD.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: A174110 MADISON KIPP CORP.
Pace Project No.: 40158484

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40158484001	**A174110-01**	SM 2540C	270732		
40158484002	**A174110-04**	SM 2540C	270732		
40158484003	**A174110-05**	SM 2540C	270732		
40158484004	**A174110-06**	SM 2540C	270732		
40158484005	**A174110-07**	SM 2540C	270732		
40158484006	**A174110-08**	SM 2540C	270732		
40158484001	**A174110-01**	SM 2540D	270533		
40158484002	**A174110-04**	SM 2540D	270533		
40158484003	**A174110-05**	SM 2540D	270533		
40158484004	**A174110-06**	SM 2540D	270533		
40158484005	**A174110-07**	SM 2540D	270533		
40158484006	**A174110-08**	SM 2540D	270533		

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4015 8484

SUBCONTRACT ORDER

Pace Analytical - Madison

A174110

SENDING LABORATORY:

Pace Analytical - Madison
2525 Advance Road
Madison, WI 53718
Phone: 608.221.8700
Fax: 608,221,4889
Project Manager: Jessica Esser

RECEIVING LABORATORY:

Pace Analytical
1241 Bellevue Street, Suite 9
Green Bay, WI 54302
Phone :(920) 469-2436
Fax: (920) 469-8827

Turn around Time: X Normal
_____ Rush

Project Name: Madison Kipp Corp. Semi-Annual Sampling

			Laboratory ID	Comments
001 **Lab ID: A174110-01**	**Water**	**Sampled: 10/09/2017 09:28**		3-1Lp A 3-250mlp A
2540D - Suspended Solids				
Subcontracted Analysis - Pace				Dissolved Solids, Total
Containers Supplied:				
14_1000mL Plastic Cool t 14_1000mL Plastic Cool t 14_1000mL Plastic Cool t 14_250mL Plastic Cool to 14_250mL Plastic Cool to 14_250mL Plastic Cool to				
002 **Lab ID: A174110-04**	**Water**	**Sampled: 10/09/2017 13:07**		1-1Lp A, 1-250mlp A
2540D - Suspended Solids				
Subcontracted Analysis - Pace				Dissolved Solids, Total
Containers Supplied:				
14_1000mL Plastic Cool t 14_250mL Plastic Cool to				
003 **Lab ID: A174110-05**	**Water**	**Sampled: 10/09/2017 15:31**		
2540D - Suspended Solids				
Subcontracted Analysis - Pace				Dissolved Solids, Total
Containers Supplied:				
14_1000mL Plastic Cool t 14_250mL Plastic Cool to				
004 **Lab ID: A174110-06**	**Water**	**Sampled: 10/10/2017 13:57**		
2540D - Suspended Solids				
Subcontracted Analysis - Pace				Dissolved Solids, Total
Containers Supplied:				
14_1000mL Plastic Cool t 14_250mL Plastic Cool to				
005 **Lab ID: A174110-07**	**Water**	**Sampled: 10/09/2017 00:00**		
2540D - Suspended Solids				
Subcontracted Analysis - Pace				Dissolved Solids, Total
Containers Supplied:				
14_1000mL Plastic Cool t 14_250mL Plastic Cool to				

Released By	Date	Received By	Date
Kari-Ann Killin	10/11/17 1400		
Spee Dee	101217 1021	[signature] Pace	10-12-17 1021

40158484

Pace Analytical®
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SUBCONTRACT ORDER

Pace Analytical - Madison

A174110

40158484

	Laboratory ID	Comments
006		
Lab ID: A174110-08 **Water** **Sampled: 10/09/2017 15:08**		HLp^A 1-25Daily
2540D - Suspended Solids		
Subcontracted Analysis - Pace		Dissolved Solids, Total
Containers Supplied:		
14_1000mL Plastic Cool t 14_250mL Plastic Cool to		

Kari-Ann Kelly 10/11/17 1400
Released By Date Received By Date

Released By 10-12-17 1021 Susan K Myhre Pace 10-12-17 1021
Released By Date Received By Date

Sample Condition Upon Receipt

Pace Analytical Services, LLC. - Green Bay WI
1241 Bellevue Street, Suite 9
Green Bay, WI 54302

Pace Analytical™

Client Name: Pace Madison, WI **Project #:** **WO# : 40158484**

40158484

Courier: ☐ Fed Ex ☐ UPS ☐ Client ☐ Pace Other: SpeeDee

Tracking #: 5P00742303 23417 09829

Custody Seal on Cooler/Box Present: ☒ yes ☐ no Seals intact: ☒ yes ☐ no

Custody Seal on Samples Present: ☐ yes ☒ no Seals intact: ☐ yes ☐ no

Packing Material: ☐ Bubble Wrap ☐ Bubble Bags ☒ None ☐ Other

Thermometer Used N/A **Type of Ice:** (Wet) Blue Dry None ☒ Samples on ice, cooling process has begun

Cooler Temperature Uncorr: ROT /Corr: **Biological Tissue is Frozen:** ☐ yes ☐ no

Temp Blank Present: ☐ yes ☐ no

Person examining contents:
Date: 10-12-17
Initials:

Temp should be above freezing to 6°C.
Biota Samples may be received at ≤ 0°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. Sub Work 10-12-17 SH
Samples Arrived within Hold Time:	☑Yes ☐No ☐N/A	5.
- VOA Samples frozen upon receipt	☐Yes ☐No	Date/Time:
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	
-Pace IR 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. 001-1-250mlpA ID unlegible collect time 003-1-250mlpA ID unlegible) place by
-Includes date/time/ID/Analysis Matrix: W		
All containers needing preservation have been checked. (Non-Compliance noted in 13.)	☐Yes ☐No ☑N/A	13. ☐ HNO3 ☐ H2SO4 ☐ NaOH ☐ NaOH +ZnAct collect time 10-12-17 SH
All containers needing preservation are found to be in compliance with EPA recommendation. (HNO3, H2SO4 ≤2; NaOH+ZnAct ≥9, NaOH ≥12)	☐Yes ☐No ☑N/A	
exceptions: VOA, coliform, TOC, TOX, TOH, O&G, WIDROW, Phenolics, OTHER:	☐Yes ☑No	Initial when completed / Lab Std #ID of preservative / Date/ Time:
Headspace in VOA Vials (>6mm):	☐Yes ☐No ☑N/A	14.
Trip Blank Present:	☐Yes ☐No ☑N/A	15.
Trip Blank Custody Seals Present	☐Yes ☐No ☑N/A	
Pace Trip Blank Lot # (if purchased):		

Client Notification/ Resolution: If checked, see attached form for additional comments ☐

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: AL for DM **Date:** 10-12-17

F-GB-C-031-Rev.04 (12Dec2016) SCUR.xls
Pace Analytical Services LLC. - Green Bay WI

Pace Analytical®
ECCS Mobile Lab Services

2525 Advance Road
Madison, WI 53718
608.221.8700 Phone
608.221.4889 Fax

October 22, 2017

Andrew Stehn
TRC Environmental Corporation, Inc.
708 Heartland Trail, Ste 3000
Madison, WI 53717

RE: Madison Kipp Corp. Semi-Annual Sampling

Enclosed are the analytical results for the samples received by the laboratory on 10/12/2017.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. These results are in compliance with the 2009 NELAC Standards and the appropriate agencies listed below, unless otherwise noted in the case narrative. This analytical report should be reproduced in its entirety.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Jessica Esser
Project Manager

Certification List			Expires
ADEQ	Arkansas Department of Environmental Quality	17-065-0	09/26/2018
DODELAP	DOD ELAP Accreditation (A2LA)	3269.01	03/31/2018
ILEPA	Illinois Secondary NELAP Accreditation	003174	04/30/2018
KDHE	Kansas Secondary NELAP Accreditation	E-10384	04/30/2018
LELAP	Louisiana Primary NELAP Accreditation	04165	06/30/2018
NCDEQ	North Carolina Dept. of Environmental Quality Accreditation	688	12/31/2017
NJDEP	New Jersey Secondary NELAP Accreditation	WI004	06/30/2018
ODEQ	Oklahoma Department of Environmental Quality Accreditation	2017-154	08/31/2018
TCEQ	Texas Secondary NELAP Accreditation	T104704504-16-7	11/30/2017
WDNR	Wisconsin Certification under NR 149	113289110	08/31/2018

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2525 Advance Road
Madison, WI 53718
608.221.8700 Phone
608.221.4889 Fax

TRC Environmental Corporation, Inc.	Project: Madison Kipp Corp. Semi-Annual Sampling
708 Heartland Trail, Ste 3000	Project Number: 266431
Madison WI, 53717	Project Manager: Andrew Stehn

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-4D	A174130-01	Water	10/12/2017	10/12/2017

CASE NARRATIVE

Sample Receipt Information:
1 sample was received on 10/12/2017. Sample was received on ice. Sample was received in acceptable condition.

TSS and TDS analysis was subcontracted to Pace Analytical in Green Bay, WI. Please see their appended report for quality control results.

Please see the chain of custody (COC) document at the end of this report for additional information.

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TRC Environmental Corporation, Inc.	Project: Madison Kipp Corp. Semi-Annual Sampling
708 Heartland Trail, Ste 3000	Project Number: 266431
Madison WI, 53717	Project Manager: Andrew Stehn

MW-4D

A174130-01 (Water)

Date Sampled
10/12/2017 14:57

Pace Analytical - Madison

Polychlorinated Biphenyls by EPA Method 8082 — **Preparation Batch:A710057**

Analyte	Result	Limit of Detection	Limit of Quantitation	Units	Dilution	Prepared	Analyzed	Method	Qualifiers
PCB-1016	ND	0.035	0.13	ug/L	1	10/16/2017	10/18/2017 06:11	EPA 8082A	
PCB-1221	ND	0.020	0.25	ug/L	1	10/16/2017	10/18/2017 06:11	EPA 8082A	
PCB-1232	ND	0.037	0.13	ug/L	1	10/16/2017	10/18/2017 06:11	EPA 8082A	
PCB-1242	ND	0.038	0.13	ug/L	1	10/16/2017	10/18/2017 06:11	EPA 8082A	
PCB-1248	ND	0.020	0.13	ug/L	1	10/16/2017	10/18/2017 06:11	EPA 8082A	
PCB-1254	ND	0.0090	0.13	ug/L	1	10/16/2017	10/18/2017 06:11	EPA 8082A	
PCB-1260	ND	0.025	0.13	ug/L	1	10/16/2017	10/18/2017 06:11	EPA 8082A	
Total PCBs	ND	0.038	0.25	ug/L	1	10/16/2017	10/18/2017 06:11	EPA 8082A	
Surrogate: Decachlorobiphenyl			*118 %*	*72.5-127*		*10/16/2017*	*10/18/2017 06:11*	*EPA 8082A*	
Surrogate: Tetrachloro-meta-xylene			*108 %*	*59.9-118*		*10/16/2017*	*10/18/2017 06:11*	*EPA 8082A*	

Pace Analytical-Green Bay, WI

SM 2540C — **Preparation Batch:WET 29857**

Analyte	Result	Limit of Detection	Limit of Quantitation	Units	Dilution	Prepared	Analyzed	Method	Qualifiers
Total Dissolved Solids	**672**	8.7	20.0	mg/L	1	10/18/2017	10/18/2017 14:41	SM 2540C	

SM 2540D — **Preparation Batch:WET 29855**

Analyte	Result	Limit of Detection	Limit of Quantitation	Units	Dilution	Prepared	Analyzed	Method	Qualifiers
Total Suspended Solids	**5.6**	0.95	2.0	mg/L	1	10/18/2017	10/18/2017 11:47	SM 2540D	

Pace Analytical®
ECCS Mobile Lab Services

2525 Advance Road
Madison, WI 53718
608.221.8700 Phone
608.221.4889 Fax

TRC Environmental Corporation, Inc.	Project: Madison Kipp Corp. Semi-Annual Sampling
708 Heartland Trail, Ste 3000	Project Number: 266431
Madison WI, 53717	Project Manager: Andrew Stehn

Polychlorinated Biphenyls by EPA Method 8082 - Quality Control

Pace Analytical - Madison

Analyte	Result	Limit of Quantitation	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch A710057 - EPA 3511										
Blank (A710057-BLK1)				Prepared: 10/16/2017 Analyzed: 10/17/2017 21:53						
PCB-1016	ND	0.13	ug/L							
PCB-1221	ND	0.25	ug/L							
PCB-1232	ND	0.13	ug/L							
PCB-1242	ND	0.13	ug/L							
PCB-1248	ND	0.13	ug/L							
PCB-1254	ND	0.13	ug/L							
PCB-1260	ND	0.13	ug/L							
Total PCBs	ND	0.25	ug/L							
Surrogate: Decachlorobiphenyl	*0.921*		*ug/L*	*0.7500*		*123*	*72.5-127*			
Surrogate: Tetrachloro-meta-xylene	*0.766*		*ug/L*	*0.7500*		*102*	*59.9-118*			
LCS (A710057-BS1)				Prepared: 10/16/2017 Analyzed: 10/17/2017 21:28						
PCB-1016	15.1	0.13	ug/L	12.50		121	70-130			
PCB-1260	16.2	0.13	ug/L	12.50		130	70-130			
Surrogate: Decachlorobiphenyl	*0.950*		*ug/L*	*0.7500*		*127*	*72.5-127*			
Surrogate: Tetrachloro-meta-xylene	*0.818*		*ug/L*	*0.7500*		*109*	*59.9-118*			
Matrix Spike (A710057-MS1)	**Source: A174110-01**			Prepared: 10/16/2017 Analyzed: 10/18/2017 06:36						
PCB-1016	15.7	0.13	ug/L	12.50	ND	125	60-140			
PCB-1260	16.4	0.13	ug/L	12.50	ND	131	60-140			
Surrogate: Decachlorobiphenyl	*0.968*		*ug/L*	*0.7500*		*129*	*72.5-127*			*S*
Surrogate: Tetrachloro-meta-xylene	*0.844*		*ug/L*	*0.7500*		*113*	*59.9-118*			
Matrix Spike Dup (A710057-MSD1)	**Source: A174110-01**			Prepared: 10/16/2017 Analyzed: 10/18/2017 07:01						
PCB-1016	15.2	0.13	ug/L	12.50	ND	122	60-140	2.72	20	
PCB-1260	15.9	0.13	ug/L	12.50	ND	127	60-140	3.09	20	
Surrogate: Decachlorobiphenyl	*0.918*		*ug/L*	*0.7500*		*122*	*72.5-127*			
Surrogate: Tetrachloro-meta-xylene	*0.856*		*ug/L*	*0.7500*		*114*	*59.9-118*			

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2525 Advance Road
Madison, WI 53718
608.221.8700 Phone
608.221.4889 Fax

TRC Environmental Corporation, Inc.	Project: Madison Kipp Corp. Semi-Annual Sampling
708 Heartland Trail, Ste 3000	Project Number: 266431
Madison WI, 53717	Project Manager: Andrew Stehn

Notes and Definitions

S	Surrogate recovery was outside of laboratory control limits due to an apparent matrix effect.
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis. If the word 'dry' does not appear after the units, results are reported on an as-is basis.
RPD	Relative Percent Difference

Pace Analytical
ECCS Mobile Lab Services

Pace Analytical - ECCS Division
2525 Advance Road
Madison, WI 53718
608-221-8700 (phone)
608-221-4889 (fax)

CHAIN OF CUSTODY

No. 7312 Page: of:

Lab Work Order #: A174130

Project Number: 266431 Ph1 PO Number:
Project Name: Madison Kipp OM+M
Project Location (City, State): Madison, WI

Turn Around (check one): ☒ Normal ☐ Rush
If Rush, Report Due Date:
Sampled By (Print): Wesley Bregar

Report To: A. Stehn
Company: TRC Madison
Address 1: 708 Heartland Tr. Ste 3000
Address 2: Madison, WI 53717
E-mail Address: astehn@trcsolutions.com

Invoice To:
Company:
Address 1:
Address 2:

Sample Description	Collection Date	Collection Time	Matrix	Total # of Containers	Preservation Codes / Analyses Requested: PCBs	TDS	TSS				Comments	Lab ID	Lab Receipt Time
MW-4D	10/12/17	1457	W	4	X	X	X					01	

Preservation Codes
A=None B=HCL C=H_2SO_4
D=HNO_3 E=EnCore F=Methanol
G=NaOH O=Other (Indicate)
Matrix Codes
A=Air S=Soil W=Water O=Other

Other Comments:

Relinquished By: Wesley J Bregar Date: 10/12/17 Time: 1615
Received By: Keri-Ann Kiser Date: 10/12/17 Time: 1615
Relinquished By: Date: Time:
Received By: Date: Time:

Custody Seal: ☒ NA ☐ Intact ☐ Not Intact
Shipped Via: Walkin
Receipt Temp: on ice
Thermometer #/ Exp. Date:
Temp Blank: ☐ Y ☐ N

Rev. 12/15

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

October 20, 2017

Jessica Esser
Pace Analytical Madison
2525 Advance Road
Madison, WI 53718

RE: Project: A174130 MADISON KIPP CORP.
Pace Project No.: 40158773

Dear Jessica Esser:
Enclosed are the analytical results for sample(s) received by the laboratory on October 17, 2017. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Dan Milewsky
dan.milewsky@pacelabs.com
(920)469-2436
Project Manager

Enclosures

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

CERTIFICATIONS

Project: A174130 MADISON KIPP CORP.
Pace Project No.: 40158773

Green Bay Certification IDs

1241 Bellevue Street, Green Bay, WI 54302
Florida/NELAP Certification #: E87948
Illinois Certification #: 200050
Kentucky UST Certification #: 82
Louisiana Certification #: 04168
Minnesota Certification #: 055-999-334
New York Certification #: 12064
North Dakota Certification #: R-150
Virginia VELAP ID: 460263
South Carolina Certification #: 83006001
Texas Certification #: T104704529-14-1
Wisconsin Certification #: 405132750
Wisconsin DATCP Certification #: 105-444
USDA Soil Permit #: P330-16-00157
Federal Fish & Wildlife Permit #: LE51774A-0

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

SAMPLE SUMMARY

Project: A174130 MADISON KIPP CORP.
Pace Project No.: 40158773

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40158773001	**A174130-01**	Water	10/12/17 14:57	10/17/17 10:47

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

SAMPLE ANALYTE COUNT

Project: A174130 MADISON KIPP CORP.
Pace Project No.: 40158773

Lab ID	Sample ID	Method	Analysts	Analytes Reported
40158773001	**A174130-01**	SM 2540C	TMK	1
		SM 2540D	JMN	1

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: A174130 MADISON KIPP CORP.
Pace Project No.: 40158773

Sample: A174130-01 **Lab ID: 40158773001** Collected: 10/12/17 14:57 Received: 10/17/17 10:47 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
2540C Total Dissolved Solids	Analytical Method: SM 2540C								
Total Dissolved Solids	**672**	mg/L	20.0	8.7	1		10/18/17 14:41		
2540D Total Suspended Solids	Analytical Method: SM 2540D								
Total Suspended Solids	**5.6**	mg/L	2.0	0.95	1		10/18/17 11:47		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA

Project: A174130 MADISON KIPP CORP.
Pace Project No.: 40158773

QC Batch: 271065 Analysis Method: SM 2540C
QC Batch Method: SM 2540C Analysis Description: 2540C Total Dissolved Solids
Associated Lab Samples: 40158773001

METHOD BLANK: 1593533 Matrix: Water
Associated Lab Samples: 40158773001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	<8.7	20.0	10/18/17 14:37	

LABORATORY CONTROL SAMPLE: 1593534

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	553	556	101	80-120	

SAMPLE DUPLICATE: 1593535

Parameter	Units	40158722001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	672	658	2	5	

SAMPLE DUPLICATE: 1593536

Parameter	Units	40158755001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	430	434	1	5	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA

Project: A174130 MADISON KIPP CORP.
Pace Project No.: 40158773

QC Batch: 271029 Analysis Method: SM 2540D
QC Batch Method: SM 2540D Analysis Description: 2540D Total Suspended Solids
Associated Lab Samples: 40158773001

METHOD BLANK: 1593324 Matrix: Water
Associated Lab Samples: 40158773001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Suspended Solids	mg/L	<0.48	1.0	10/18/17 11:46	

LABORATORY CONTROL SAMPLE: 1593325

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Suspended Solids	mg/L	100	100	100	80-120	

SAMPLE DUPLICATE: 1593327

Parameter	Units	40158789001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Suspended Solids	mg/L	106	117	10	5	R1

SAMPLE DUPLICATE: 1593336

Parameter	Units	40158766001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Suspended Solids	mg/L	29.2	29.6	1	5	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALIFIERS

Project: A174130 MADISON KIPP CORP.
Pace Project No.: 40158773

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above LOD.

J - Estimated concentration at or above the LOD and below the LOQ.

LOD - Limit of Detection adjusted for dilution factor and percent moisture.

LOQ - Limit of Quantitation adjusted for dilution factor and percent moisture.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

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.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected at or above the adjusted LOD.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

R1 RPD value was outside control limits.

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: A174130 MADISON KIPP CORP.
Pace Project No.: 40158773

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40158773001	**A174130-01**	SM 2540C	271065		
40158773001	**A174130-01**	SM 2540D	271029		

Pace Analytical®
ECCS Mobile Lab Services

SUBCONTRACT ORDER

Pace Analytical - Madison

A174130

40158773

SENDING LABORATORY:

Pace Analytical - Madison
2525 Advance Road
Madison, WI 53718
Phone: 608.221.8700
Fax: 608,221,4889
Project Manager: Jessica Esser

RECEIVING LABORATORY:

RMN

Pace Analytical
1241 Bellevue Street, Suite 9
Green Bay, WI 54302
Phone :(920) 469-2436
Fax: (920) 469-8827

Turn around Time: X Normal 10/26/17
____ Rush

Project Name: Madison Kipp Corp. Semi-Annual Sampling

	Laboratory ID	Comments
001		
Lab ID: A174130-01 **Water** **Sampled: 10/12/2017 14:57**		1-1Lp[A] 1-250mLp[A]
2540D - Suspended Solids		
Subcontracted Analysis - Pace		Dissolved Solids, Total
Containers Supplied:		
14_1000mL Plastic Cool t 14_250mL Plastic Cool to		

40158773

Released By	Date	Received By	Date
Kari-Ann Kjelleri	10/16/17 1530		
Joe Dee	10-17-17 1047	Jessica Esser Pace	10-17-17 1047

Sample Condition Upon Receipt

Pace Analytical Services, LLC. - Green Bay WI
1241 Bellevue Street, Suite 9
Green Bay, WI 54302

Pace Analytical™

Client Name: Pace Madison WI Project #: **WO# : 40158773**

40158773

Courier: ☐ Fed Ex ☐ UPS ☐ Client ☐ Pace Other: Lee Dee

Tracking #: 9400742303289417333732

Custody Seal on Cooler/Box Present: ☐ yes ☒ no Seals intact: ☐ yes ☐ no

Custody Seal on Samples Present: ☐ yes ☒ no Seals intact: ☐ yes ☐ no

Packing Material: ☒ Bubble Wrap ☐ Bubble Bags ☐ None ☐ Other

Thermometer Used N/A **Type of Ice:** (Wet) Blue Dry None ☒ Samples on ice, cooling process has begun

Cooler Temperature Uncorr: RoT /Corr: **Biological Tissue is Frozen:** ☐ yes ☐ no

Temp Blank Present: ☐ yes ☒ no

Person examining contents:
Date: 10-17-17
Initials: SW

Temp should be above freezing to 6°C.
Biota Samples may be received at ≤ 0°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. Sub Work 10-17-17 SW
Samples Arrived within Hold Time:	☑Yes	☐No	☐N/A	5.
- VOA Samples frozen upon receipt	☐Yes	☐No		Date/Time:
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	
-Pace IR 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. C + D after IDS.
-Includes date/time/ID/Analysis Matrix: W				10-17-17 SW
All containers needing preservation have been checked. (Non-Compliance noted in 13.)	☐Yes	☐No	☑N/A	13. ☐ HNO3 ☐ H2SO4 ☐ NaOH ☐ NaOH +ZnAct
All containers needing preservation are found to be in compliance with EPA recommendation. (HNO3, H2SO4 ≤2; NaOH+ZnAct ≥9, NaOH ≥12)	☐Yes	☐No	☑N/A	
exceptions: VOA, coliform, TOC, TOX, TOH, O&G, WIDROW, Phenolics, OTHER:	☐Yes	☑No		Initial when completed / Lab Std #ID of preservative / Date/ Time:
Headspace in VOA Vials (>6mm):	☐Yes	☐No	☑N/A	14.
Trip Blank Present:	☐Yes	☐No	☑N/A	15.
Trip Blank Custody Seals Present	☐Yes	☐No	☑N/A	
Pace Trip Blank Lot # (if purchased):				

Client Notification/ Resolution: If checked, see attached form for additional comments ☐

Person Contacted: Date/Time:

Comments/ Resolution:

Project Manager Review: RMR for DM **Date:** 10/17/17

Appendix G
Annual Soil Gas Monitoring
Laboratory Analytical Report (on CD)

eurofins | Air Toxics

8/12/2017
Mr. Andrew Stehn
TRC Corporation (RMT)
708 Heartland Trail
Suite 3000
Madison WI 53717

Project Name: MKC
Project #: 266431 Ph. 3
Workorder #: 1708041

Dear Mr. Andrew Stehn

The following report includes the data for the above referenced project for sample(s) received on 8/2/2017 at Air Toxics Ltd.

The data and associated QC analyzed by TO-15 are compliant with the project requirements or laboratory criteria with the exception of the deviations noted in the attached case narrative.

Thank you for choosing Eurofins Air Toxics Inc. for your air analysis needs. Eurofins Air Toxics Inc. is committed to providing accurate data of the highest quality. Please feel free to contact the Project Manager: Ausha Scott at 916-985-1000 if you have any questions regarding the data in this report.

Regards,

Ausha Scott

Project Manager

eurofins | Air Toxics

WORK ORDER #: 1708041

Work Order Summary

CLIENT:	Mr. Andrew Stehn TRC Corporation (RMT) 708 Heartland Trail Suite 3000 Madison, WI 53717	**BILL TO:**	Accounts Payable/Windsor TRC Companies, Inc. 21 Griffin Rd North Windsor, CT 06095
PHONE:	608-826-3665	**P.O. #**	223544
FAX:	608-826-3941	**PROJECT #**	266431 Ph. 3 MKC
DATE RECEIVED:	08/02/2017	**CONTACT:**	Ausha Scott
DATE COMPLETED:	08/12/2017		

FRACTION #	NAME	TEST	RECEIPT VAC./PRES.	FINAL PRESSURE
01A	VP-2N	TO-15	4.9 "Hg	4.8 psi
02A	VP-1S	TO-15	5.3 "Hg	5.1 psi
03A	VP-1N	TO-15	4.3 "Hg	4.8 psi
04A	VP-210	TO-15	5.3 "Hg	4.6 psi
05A	VP-102	TO-15	5.3 "Hg	5 psi
06A	DUP	TO-15	5.1 "Hg	5 psi
07A	VP-6	TO-15	6.3 "Hg	4.9 psi
08A	Lab Blank	TO-15	NA	NA
09A	CCV	TO-15	NA	NA
10A	LCS	TO-15	NA	NA
10AA	LCSD	TO-15	NA	NA

CERTIFIED BY: Heidi Hayes DATE: 08/12/17

Technical Director

Certification numbers: AZ Licensure AZ0775, NJ NELAP - CA016, NY NELAP - 11291,
TX NELAP - T104704434-16-11, UT NELAP CA0093332016-7, VA NELAP - 8113, WA NELAP - C935
Name of Accreditation Body: NELAP/ORELAP (Oregon Environmental Laboratory Accreditation Program)
Accreditation number: CA300005, Effective date: 10/18/2016, Expiration date: 10/17/2017.
Eurofins Air Toxics Inc.. certifies that the test results contained in this report meet all requirements of the NELAC standards

LABORATORY NARRATIVE
EPA Method TO-15
TRC Corporation (RMT)
Workorder# 1708041

Seven 6 Liter Summa Canister samples were received on August 02, 2017. The laboratory performed analysis via EPA Method TO-15 using GC/MS in the full scan mode.

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.

Receiving Notes

There were no receiving discrepancies.

Analytical Notes

Dilution was performed on samples VP-102, DUP and VP-6 due to the presence of high level target species.

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 not 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, LOD, or MDL value. See data page for project specific U-flag definition.

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

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

Client Sample ID: VP-2N

Lab ID#: 1708041-01A

No Detections Were Found.

Client Sample ID: VP-1S

Lab ID#: 1708041-02A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Tetrachloroethene	0.82	6.2	5.6	42

Client Sample ID: VP-1N

Lab ID#: 1708041-03A

No Detections Were Found.

Client Sample ID: VP-210

Lab ID#: 1708041-04A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Tetrachloroethene	0.80	7.8	5.4	53

Client Sample ID: VP-102

Lab ID#: 1708041-05A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Trichloroethene	3.2	75	17	400
Tetrachloroethene	3.2	820	22	5600

Client Sample ID: DUP

Lab ID#: 1708041-06A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Trichloroethene	3.2	74	17	400
Tetrachloroethene	3.2	810	22	5500

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

Client Sample ID: VP-6

Lab ID#: 1708041-07A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Trichloroethene	1.7	10	9.1	55
Tetrachloroethene	1.7	380	11	2600

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Client Sample ID: VP-2N

Lab ID#: 1708041-01A

EPA METHOD TO-15 GC/MS

File Name:	**3080422**	**Date of Collection: 7/25/17 9:48:00 AM**	
Dil. Factor:	**1.58**	**Date of Analysis: 8/4/17 10:58 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Vinyl Chloride	0.79	Not Detected	2.0	Not Detected
cis-1,2-Dichloroethene	0.79	Not Detected	3.1	Not Detected
Trichloroethene	0.79	Not Detected	4.2	Not Detected
Tetrachloroethene	0.79	Not Detected	5.4	Not Detected
trans-1,2-Dichloroethene	0.79	Not Detected	3.1	Not Detected

Container Type: 6 Liter Summa Canister

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	92	70-130
Toluene-d8	99	70-130
4-Bromofluorobenzene	106	70-130

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Client Sample ID: VP-1S

Lab ID#: 1708041-02A

EPA METHOD TO-15 GC/MS

File Name:	**3080423**	**Date of Collection: 7/25/17 10:23:00 AM**	
Dil. Factor:	**1.64**	**Date of Analysis: 8/4/17 11:24 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Vinyl Chloride	0.82	Not Detected	2.1	Not Detected
cis-1,2-Dichloroethene	0.82	Not Detected	3.2	Not Detected
Trichloroethene	0.82	Not Detected	4.4	Not Detected
Tetrachloroethene	0.82	6.2	5.6	42
trans-1,2-Dichloroethene	0.82	Not Detected	3.2	Not Detected

Container Type: 6 Liter Summa Canister

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	92	70-130
Toluene-d8	97	70-130
4-Bromofluorobenzene	107	70-130

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Client Sample ID: VP-1N

Lab ID#: 1708041-03A

EPA METHOD TO-15 GC/MS

File Name:	**3080424**	**Date of Collection: 7/25/17 11:33:00 AM**	
Dil. Factor:	**1.55**	**Date of Analysis: 8/4/17 11:50 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Vinyl Chloride	0.78	Not Detected	2.0	Not Detected
cis-1,2-Dichloroethene	0.78	Not Detected	3.1	Not Detected
Trichloroethene	0.78	Not Detected	4.2	Not Detected
Tetrachloroethene	0.78	Not Detected	5.2	Not Detected
trans-1,2-Dichloroethene	0.78	Not Detected	3.1	Not Detected

Container Type: 6 Liter Summa Canister

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	88	70-130
Toluene-d8	98	70-130
4-Bromofluorobenzene	108	70-130

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Client Sample ID: VP-210

Lab ID#: 1708041-04A

EPA METHOD TO-15 GC/MS

File Name:	**3080425**	**Date of Collection: 7/25/17 2:19:00 PM**	
Dil. Factor:	**1.59**	**Date of Analysis: 8/5/17 12:16 AM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Vinyl Chloride	0.80	Not Detected	2.0	Not Detected
cis-1,2-Dichloroethene	0.80	Not Detected	3.2	Not Detected
Trichloroethene	0.80	Not Detected	4.3	Not Detected
Tetrachloroethene	0.80	7.8	5.4	53
trans-1,2-Dichloroethene	0.80	Not Detected	3.2	Not Detected

Container Type: 6 Liter Summa Canister

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	97	70-130
Toluene-d8	91	70-130
4-Bromofluorobenzene	117	70-130

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Client Sample ID: VP-102

Lab ID#: 1708041-05A

EPA METHOD TO-15 GC/MS

File Name:	**3080426**	**Date of Collection: 7/25/17 3:55:00 PM**	
Dil. Factor:	**6.51**	**Date of Analysis: 8/5/17 12:41 AM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Vinyl Chloride	3.2	Not Detected	8.3	Not Detected
cis-1,2-Dichloroethene	3.2	Not Detected	13	Not Detected
Trichloroethene	3.2	75	17	400
Tetrachloroethene	3.2	820	22	5600
trans-1,2-Dichloroethene	3.2	Not Detected	13	Not Detected

Container Type: 6 Liter Summa Canister

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	87	70-130
Toluene-d8	107	70-130
4-Bromofluorobenzene	102	70-130

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Client Sample ID: DUP

Lab ID#: 1708041-06A

EPA METHOD TO-15 GC/MS

File Name:	**3080428**	**Date of Collection: 7/25/17**	
Dil. Factor:	**6.46**	**Date of Analysis: 8/5/17 01:28 AM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Vinyl Chloride	3.2	Not Detected	8.2	Not Detected
cis-1,2-Dichloroethene	3.2	Not Detected	13	Not Detected
Trichloroethene	3.2	74	17	400
Tetrachloroethene	3.2	810	22	5500
trans-1,2-Dichloroethene	3.2	Not Detected	13	Not Detected

Container Type: 6 Liter Summa Canister

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	88	70-130
Toluene-d8	107	70-130
4-Bromofluorobenzene	103	70-130

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Client Sample ID: VP-6

Lab ID#: 1708041-07A

EPA METHOD TO-15 GC/MS

File Name:	**3080427**	**Date of Collection: 7/25/17 5:27:00 PM**	
Dil. Factor:	**3.38**	**Date of Analysis: 8/5/17 01:04 AM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Vinyl Chloride	1.7	Not Detected	4.3	Not Detected
cis-1,2-Dichloroethene	1.7	Not Detected	6.7	Not Detected
Trichloroethene	1.7	10	9.1	55
Tetrachloroethene	1.7	380	11	2600
trans-1,2-Dichloroethene	1.7	Not Detected	6.7	Not Detected

Container Type: 6 Liter Summa Canister

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	87	70-130
Toluene-d8	100	70-130
4-Bromofluorobenzene	106	70-130

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Client Sample ID: Lab Blank

Lab ID#: 1708041-08A

EPA METHOD TO-15 GC/MS

File Name:	**3080411**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 8/4/17 01:39 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Vinyl Chloride	0.50	Not Detected	1.3	Not Detected
cis-1,2-Dichloroethene	0.50	Not Detected	2.0	Not Detected
Trichloroethene	0.50	Not Detected	2.7	Not Detected
Tetrachloroethene	0.50	Not Detected	3.4	Not Detected
trans-1,2-Dichloroethene	0.50	Not Detected	2.0	Not Detected

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	89	70-130
Toluene-d8	99	70-130
4-Bromofluorobenzene	98	70-130

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Client Sample ID: CCV

Lab ID#: 1708041-09A

EPA METHOD TO-15 GC/MS

File Name:	**3080402**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 8/4/17 07:54 AM**	

Compound	%Recovery
Vinyl Chloride	90
cis-1,2-Dichloroethene	85
Trichloroethene	96
Tetrachloroethene	101
trans-1,2-Dichloroethene	103

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	87	70-130
Toluene-d8	100	70-130
4-Bromofluorobenzene	103	70-130

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Client Sample ID: LCS

Lab ID#: 1708041-10A

EPA METHOD TO-15 GC/MS

File Name:	**3080403**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 8/4/17 08:16 AM**	

Compound	%Recovery	Method Limits
Vinyl Chloride	98	70-130
cis-1,2-Dichloroethene	100	70-130
Trichloroethene	106	70-130
Tetrachloroethene	108	70-130
trans-1,2-Dichloroethene	95	70-130

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	84	70-130
Toluene-d8	103	70-130
4-Bromofluorobenzene	102	70-130

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Client Sample ID: LCSD

Lab ID#: 1708041-10AA

EPA METHOD TO-15 GC/MS

File Name:	**3080404**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 8/4/17 09:30 AM**	

Compound	%Recovery	Method Limits
Vinyl Chloride	98	70-130
cis-1,2-Dichloroethene	99	70-130
Trichloroethene	103	70-130
Tetrachloroethene	106	70-130
trans-1,2-Dichloroethene	96	70-130

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	84	70-130
Toluene-d8	101	70-130
4-Bromofluorobenzene	101	70-130

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Sample Transportation Notice
Relinquishing signature on this document indicates that sample is being shipped in compliance with all applicable local, State, Federal, national, and international laws, regulations and ordinances of any kind. Air Toxics Limited assumes no liability with respect to the collection, handling or shipping of these samples. Relinquishing signature also indicates agreement to hold harmless, defend, and indemnify Air Toxics Limited against any claim, demand, or action, of any kind, related to the collection, handling, or shipping of samples. D.O.T. Hotline (800) 467-4922

180 BLUE RAVINE ROAD, SUITE B
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Project Manager Ausha Scott

Collected by: (Print and Sign) Andrew Stehn Andrew St

Company TRC Email astehn@trcsolutions.com

Address 708 Heartland Trl Suite 3001 City Madison State WI Zip 53717

Phone 608-826-3665 Fax

Project Info:
P.O. # 103979
Project # 266431 Ph. 3
Project Name MKC

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)
01A	VP-2N	6L0728	07/25/17	9:06 - 9:48	To-15 (see notes)	-30 in Hg	-6 in Hg		
02A	VP-1S	~~6L~~ 31134	07/25/17	9:43 - 10:23	To-15 (see notes)	-29 in Hg	-6 in Hg		
03A	VP-1N	34226	07/25/17	10:45 - 11:33	TO-15 (see notes)	-30 in Hg	-6 in Hg		
04A	VP-210 AES	~~12593~~ 12953	07/25/17	13:30 - 14:19	TO-15 (see notes)	-30 in Hg	-6 in Hg		
05A	VP-102	6L0684	07/25/17	15:14 - 15:55	TO-15 (see notes)	-29 in Hg	-5.5 in Hg		
06A	DUP	6L0422	07/25/17		TO-15 (see notes)	-30 in Hg	-5.5 in Hg		
07A	VP-6	6L0875	07/25/17	16:47 - 17:27	TO-15 (see notes)	-30 in Hg	-6 in Hg		

Relinquished by: (signature)	Date/Time	Received by: (signature)	Date/Time
Andrew St	07/26/17 0800	R Q EAT	080217 0935
Relinquished by: (signature)	Date/Time	Received by: (signature)	Date/Time
Relinquished by: (signature)	Date/Time	Received by: (signature)	Date/Time

Notes: Samples should be analyzed using method To-15 for PCE, TCE, VC, cis-1,2 dichloroethene, and trans-1,2, dichloroethene. Please Note one drop of water may have gone in canister 12953.

Lab Use Only	Shipper Name	Air Bill #	Temp (°C)	Condition	Custody Seals Intact?	Work Order #
	FedEx		NA	Good	Yes No (None)	170804i

Form 1293 rev.11