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Prepared for

NATIONAL PRESTO INDUSTRIES, INC.

EAU CLAIRE, WISCONSIN

ANNUAL INTERIM REMEDIAL ACTION

STATUS REPORT FOR 2017

PROJECT #34283.000

FEBRUARY 2018

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February 20, 2018

File #34283.000

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Remediation and Redevelopment Program
1300 W. Clairemont Avenue
P.O. Box 4001
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Re: Annual Interim Remedial Action Status Report - 2017
National Presto Industries, Inc., Eau Claire, Wisconsin
USEPA CERCLIS ID WID006196174
WDNR BRRTS 02-09-000267 and FID 609038320

Dear Howard and Mae:

At your request, Gannett Fleming, Inc. (GF) is submitting the referenced annual report for the National Presto Industries, Inc. (NPI) site in Eau Claire, Wisconsin. The report documents the effectiveness of the past and on-going active soil and groundwater remediation at the site. In addition, this report provides analytical results from the samples collected from select water supply wells at the Eau Claire Municipal Well Field (ECMWF) and its water treatment system during 2017, conclusions based on the historical groundwater monitoring data, and a list of activities to be completed in 2018.

Executive Summary

During 2017, NPI continued to monitor groundwater and three soil vapor extraction (SVE) systems: one associated with the Melby Road Disposal Site (MRDS) (former Plume 3/4), and two in the Southwest Corner (SWC) (Plume 1/2), in accordance with the agency-approved sampling plans. Dissolved-phase volatile organic compounds of concern at the site are limited to trichloroethylene (TCE), 1,1,1-trichloroethane (TCA), tetrachloroethylene (PCE), 1,1-dichloroethane (DCA), and 1,1-dichloroethylene (DCE). For this report, they will hereafter be referred to as NPI volatile organic compounds (NPI VOCs). Since project inception, 2016 was the first year there were no exceedances of the NR 140 Enforcement Standards (ESs)/Maximum Contaminant Levels (MCLs) for the NPI VOCs in any monitoring well or piezometer either on site or off site.

Groundwater data from 2017 show that concentrations of NPI VOCs were at or below ESs/MCLs in all monitoring wells associated with the site. Extraction well EW-6, installed in 2011 to help

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capture groundwater migrating from a newly identified VOC source area that we believe is likely located beneath the NPI main building, continues to capture and remove VOC-impacted groundwater in that area of the site.

SVE vent well VW-1, installed inside the NPI main building in late 2014 to remove vapor phase VOCs from the suspected source area beneath the building, became operational in January 2015. Since startup of this vent well, NPI VOC concentrations in groundwater samples collected from MW-76A, the water table monitoring well immediately downgradient from the newly identified source area beneath the building, have decreased. All five VOCs were detected in samples collected from MW-76A from June 2011 through June 2014. By August 2016, NPI VOC concentrations were all below detection limits.

A pilot-test shutdown of EW-6 that started in January 2017 was unsuccessful due to high water levels in late 2016/early 2017. Consequently, EW-6 resumed continuous operation in April 2017.

TCE concentrations in piezometer MW-52B at the airport fluctuated up to 5.0 µg/ℓ in June 2017. This was the only well in NPI Plume 1/2 with a TCE concentration at its MCL/NR 140 ES of 5 µg/ℓ during 2017. However, the overall trend for TCE in Plume 1/2 is decreasing.

New ECMWF production wells that started operating in 2017 include CW-22 and CW-23.

Cadmium (Cd) concentrations in groundwater continue to be above its 5.0 µg/ℓ ES/MCL in on-site monitoring well MW-10A, south of the main building. Like the NPI VOC concentrations in MW-76A, however, overall Cd concentrations continue to show a decreasing trend. In addition, supplemental sampling completed in 2015 confirmed that Cd concentrations above the ES/MCL in groundwater are confined to a relatively small area immediately adjacent to former Lagoon #1, which includes MW-10A.

In summary, VOC concentrations in virtually all the wells used to monitor the original plumes associated with the NPI site are stable or decreasing, and a significant number of wells no longer contain detectable concentrations of TCE. There were no exceedances of the ES/MCL for TCE of 5 µg/ℓ or any other NPI VOC in any monitoring wells either on site or off site in 2016 or 2017.

Site Description, Hydrogeological Setting, and Conceptual Site Model

The site is relatively flat and abuts a sandstone ridge to the south. Areas to the north, east, and west are also relatively level, generally sloping gradually toward the Chippewa River, which is

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located approximately 2 miles north and west of the site. Lake Hallie, an impounded remnant of a former channel of the Chippewa River, lies approximately 1 mile north of the site.

Extending northward from the northwestern portion of the site to Lake Hallie and westerly from the site to the Chippewa River are buried pre-glacial valleys within which alluvial sand and gravel deposits serve as a primary drinking water aquifer in the Eau Claire area. Approximately 2 miles west of the NPI site, for example, the ECMWF draws groundwater from more of these buried deposits and provides drinking water for the City of Eau Claire. The direction of groundwater flow is controlled by the sandstone and granite bedrock valleys beneath the sand and gravel, which carry groundwater to the northwest towards Lake Hallie and to the west towards the Chippewa River and the ECMWF. The depth to bedrock is at or near the surface at the sandstone ridge in the extreme south central portion of the NPI site and dips to the north and west. The top of bedrock is at least 100 feet below the ground surface (ft bgs) at the north and west property boundaries. The average depth to water under NPI's main building and the MRDS is about 70 ft bgs.

Past waste-handling practices related to the manufacturing activities on the NPI site have included the use of dry wells and seepage lagoons. Manufacturing wastes were also discharged to a former sand and gravel pit. The major waste stream was waste forge compound. NPI discharged wastewater containing significant amounts of waste forge compound to Lagoon #1, a remnant of the former sand and gravel pit. From 1966 to 1969, waste forge compound was also landfilled at the MRDS.

The conceptual site model is that contaminants observed in the source areas on the NPI property migrated vertically through the unconsolidated soils to the groundwater and then traveled within the aquifer following the buried valleys. These valleys, which trend westerly toward the Chippewa River and ECMWF (Plume 1/2) and northwesterly toward Lake Hallie (former Plumes 3/4 and 5), control the direction of groundwater flow in the unconsolidated deposits in the area. Figure 1 is a 24-inch x 36-inch area-wide map showing the approximate location of Plume 1/2 and the former locations of Plume 3/4 and Plume 5, as defined by select VOCs in 1993. The outlines of the current/former plumes define a groundwater flow divide that bisects the NPI site along a northwesterly line. The average groundwater flow velocity in the alluvial deposits in the area is approximately 12.5 feet/day, with an average gradient of about 0.015 in Plume 1/2 that stretches from the NPI site to the ECMWF. Figure 2 provides an 11-inch x 17-inch on-site groundwater flow map for convenience.

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Table 1 is a summary of the construction information for all monitoring and extraction wells associated with the NPI site. This summary table also identifies with which plume/former plume each well is/was associated and provides the grid coordinates for each well shown on Figure 1.

General Status of the Remedial Program

Most of the selected interim and final remedies for the site were implemented in the mid- to late-1990s. These included:

- The excavation and off-site disposal of >5,000 BTU/lb waste forge compound from Lagoon #1 and impacted soil from several other waste management areas of concern, including Dry Wells #2 and #5, the swale between former Lagoons #3 and #4, the southwest corner of former Lagoon #2, and the Loading Dock Area. TCA was the primary VOC associated with the waste forge compound removed from Lagoon #1.
- The installation of four groundwater extraction wells and two associated cascade aerators for groundwater capture, control, and treatment. These interim systems were designed to operate continuously as long as they were needed.
- The construction of an engineered landfill with a multi-layer cap and SVE system at the MRDS for the long-term management of residual waste forge compound and impacted soil. Excavated material placed at the MRDS prior to installation of the cap included waste forge compound mixed with soil from Lagoon #1 with <5,000 BTU/lb, soil contaminated with waste forge compound from Drainage Ditch #3, and impacted material from the East Extension of Lagoon #1 and East Disposal Site. The final remedy for the MRDS is the multi-layer cap and SVE system. Over time, it has become apparent that the MRDS SVE no longer needs to operate continuously since the cap has essentially eliminated the vertical migration of contaminants due to the infiltration of precipitation and proven to provide reliable protection of groundwater quality.

However, two supplemental, relatively small TCE source areas have been identified in what is known as the SWC: the MW-34/70 area and an area beneath the main building. SVE systems have been installed and are currently operating at both of these areas to remove VOCs in the soil and provide a barrier to migration of these chemicals to groundwater.

All active remediation systems onsite are effective in protecting human health and the environment. Three of the four groundwater extraction wells (EW-1R, EW-2, and EW-5) and one of the cascade aerators (CAS-1) are no longer in use as a result of the effectiveness of the remedial actions that have been implemented.

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Current and planned future activities at the site include:

- Maintenance of the cap at the MRDS. This activity is ongoing, and annual inspections are conducted to document conditions and monitor progress. No further reference to cap maintenance is provided in this remedial action report. However, copies of the annual inspection reports are available upon request.
- Operation and maintenance (O&M) of the three SVE systems and extraction well EW-6.
- Sampling of the exhaust gas from the MRDS, MW-34/70 area, and main building SVE systems and select on- and off-site groundwater monitoring wells/piezometers, EW-6, cascade aerator CAS-2R, manhole MH-18, city water supply wells, and unit operations at the ECMWF.

SVE System O&M and Sampling

The NPI site currently has three separate SVE systems in operation, as shown on Figure 3. The purpose of these systems is to remove VOCs from the subsurface and provide a vapor barrier to protect/improve groundwater quality.

The largest SVE system is at the MRDS where 12 vent wells are located within the capped landfill, which primarily contains waste forge compound from historic disposal operations there and the on-site remedial excavations described in the previous section. In 2017, the MRDS SVE system was offline until March 15th, due to a 6-month trial shutdown from December 6, 2016, through June 5, 2017. However, it operated in “low-flow” mode March 14th through March 21st for quarterly field screening of the vent wells and exhaust gas sampling. The operator used a variable frequency drive (VFD) to control the flow of the vacuum blower(s).

On June 5, 2017, low-flow operation of the SVE system resumed. On June 12th, the VFD was adjusted for normal seasonal operation. On December 14th, the system was shut down for its second 6-month trial period, as approved by both agencies. See GF’s August 2017 *MRDS SVE System Trial Seasonal Shutdown Assessment* and monthly progress reports for additional details.

In the SWC, the MW-34/70 area SVE system is used to address residual TCE present in degreaser sludge that was buried there in the mid-1900s. This system currently includes six vent wells and operates only during warm weather when the ground is not frozen and the average ambient air temperature is above freezing (i.e., the MW-34/70 area SVE system operates seasonally). When temperatures are below freezing, it is more difficult to keep the system running because the condensate that collects in the knock-out tanks freezes. Furthermore, when frost is in the ground, there is virtually no vertical migration from precipitation. Consequently, running the system

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when the ground is frozen provides little, if any, benefit. Analytical results to date confirm that this remedial approach is effective in protecting groundwater quality.

The main building SVE system is being used to address VOC impacts from a likely source area beneath the main building at NPI. The exact location and size of this source area is not known. The main building SVE system includes just one vent well (VW-1) screened from 15 to 45 feet below the top of the concrete floor, located near the center of Building 103. The intent of this system is to maintain a vapor barrier that helps improve and protect local groundwater quality. Figure 4 shows the locations of VW-1, its blower and condensate knock-out tank, extraction well EW-6, and downgradient monitoring well nests MW-76 and MW-77. As shown on Figure 4, the vacuum blower, its knock-out tank, and the well-head connection to VW-1 are all located indoors. As a result, it is relatively easy for this SVE system to operate continuously, 365 days a year.

The exhaust gas from each of the three SVE systems is discharged directly into the atmosphere through a stack less than 25 feet high. Exhaust gas samples are collected quarterly from the MRDS and main building SVE systems. The samples are analyzed for TCE, 1,1,1-TCA, PCE, and 1,1-DCA. The MW-34/70 area SVE system is sampled annually and only for TCE. The exhaust gas samples are collected in Summa canisters supplied by the laboratory and analyzed using Method TO-15. Analytical results are used for performance and compliance monitoring and available upon request.

Table 2A summarizes compound-specific emission thresholds, as defined in Table A of NR 445.07, when stack heights are less than 25 feet. Table 2B summarizes estimated emissions for 2014-2017 from:

- Each of the three SVE systems, when operating.
- All three of the systems combined.

Based on the relatively low estimated maximum emission rate and cumulative emission mass of 0.00524 lb/hr and 21.03 lb, respectively, for total VOCs from all three of the SVE systems combined in 2017, the compound-specific emissions of TCE and all other compounds were below their respective limits, as summarized in Tables 2A/B. GF's May 2016 *Annual Remedial Action Status Report -2015* and November 2017 *Annual Remedial Action Status Report -2016* provide additional detail.

General Groundwater Monitoring Information

Groundwater samples were collected for NPI VOC analysis at least once from a total of 85 monitoring wells/piezometers, the 4 on-site extraction wells, and 7 city production wells during

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the four routine quarterly sampling rounds completed in 2017. In addition to collecting samples from the above wells/piezometers and manhole MH-18, samples were also collected of the combined pumpage from the production wells in the City's north well field, both before and after the air strippers and following routine water treatment and chlorination by the City. The data from the ECMWF and within the treatment system were used to evaluate the impact of blending the water from several production wells on the TCE concentration and the efficiency of the air strippers in removing TCE from the pumped water. Samples were also collected from 12 monitoring wells/piezometers in the SWC and from the 2 extraction wells in the SWC (EW-5 and EW-6) for analysis of dissolved Cd.

Figure 1 shows the locations of all the groundwater monitoring points that have been sampled during this project. Wells that have been abandoned are shaded.

Ms. Mary Gannon, MCW Scientific Solutions, Cedar Park, Texas, validated the data from each of the four quarterly sampling rounds in 2017. Mary used the EPA guidance documents *National Functional Guidelines for Superfund Organic Methods Data Review*, dated September 2016 and January 2017, and the *National Functional Guidelines for Inorganic Superfund Methods Data Review*, dated September 2016 and January 2017. The reviews were based on Level II data packages supplied by the analytical laboratory. All the VOC and cadmium data reported for 2017 were determined to be usable for assessing groundwater quality. The CD in Appendix A contains a copy of the text of the 2017 quarterly data validation reports.

Water levels were measured in all on-site wells and piezometers quarterly, whether or not they were scheduled to be sampled. Water levels were measured in virtually all monitoring wells and piezometers, regardless of whether they were sampled, during the second quarter sampling round to provide a more complete set of groundwater elevations to allow preparation of a comprehensive groundwater flow map for the project.

Table 3 lists the water level measurements for all four 2017 sampling rounds. Figure 1 includes an area-wide groundwater flow map. Figure 2 is an 11-inch x 17-inch on-site groundwater flow map. To provide the most complete groundwater flow maps, both figures are based on the water level measurements made during the June 2017 sampling round when virtually all project wells were measured. Site datum is mean sea level (MSL).

Note that water levels were relatively high in 2017. For example, consider MW-10A located in the SWC between the south end of the main building and former Lagoon #1. Groundwater elevations in the well ranged from 827.16 to 828.35 feet MSL between December 2014 and 2015, respectively. By August 2017, the measured water level elevation in MW-10A had increased

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nearly 3 feet to 831.16 feet MSL. GF's November 16, 2016, *EW-5 Status Report and Work Plan for a 12-Month Trial Shutdown of EW-6* provides additional detail on the general increase in water levels in the SWC since April 2013.

Groundwater Sampling Methods

Since March 2012, passive diffusion bags (PDBs) have been used almost exclusively to collect groundwater samples for VOC analysis. In March 2012, NPI also received approval from the USEPA to use HydraSleeve® bags for sampling at the NPI site. These bags are used primarily to collect groundwater samples for Cd analysis, but can also be used to collect samples for VOC analysis. Other sampling methods have also been approved for use at this site, but these two are the primary methods currently in use, as described in the *Groundwater Monitoring Plan* for the site (last revised January 2012). In addition, an updated quality assurance plan (QAPP) was submitted on October 30, 2017, for review at Howard's request. Once approved by the agencies, the updated QAPP will supersede all prior QAPPs prepared for the site. The updated QAPP basically formalizes the January 2012 monitoring plan, with several minor changes in protocol to reduce the project's environmental footprint, optimize work flow, and continue to protect human health and the environment.

Groundwater Extractions Wells

MRDS Extraction Wells

Extraction wells EW-1R and EW-2 at the MRDS remained shut down in 2017. Likewise, neither of these wells operated in 2015 or 2016, apart from about 15 minutes in March and June 2015 to purge the wells prior to the collection of groundwater samples from them. In September 2015, the field team was unable to collect a sample from EW-1R, so NPI pulled the pump. Because the collar between the motor and pump was damaged due to corrosion, as approved by both agencies, NPI:

- Left the pump out of EW-1R and pulled the pump from EW-2 (to avoid the type of corrosion evident at EW-1R).
- Stockpiled the standpipe and one operable pump in the MRDS equipment building.
- Hung PDBs in EW-1R and EW-2 for quarterly sampling, instead.

A new replacement pump for EW-1R and two local drillers are readily available to get both extraction wells back online promptly (i.e., in one week or less) if VOC rebound occurs.

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Southwest Corner Extraction Wells

Extraction well EW-5 in the SWC remained shut down in 2017, as approved by both agencies. Like EW-1R and EW-2 at the MRDS, the pump was pulled and PDBs were hung in EW-5 for quarterly sampling instead, starting in 2015. At Mae's request, multi-level PDBs were installed at 10-foot intervals in EW-1R, EW-2, and EW-5 to assess NPI VOC concentrations over the full saturated screen length. GF's November 16, 2016, *EW-5 Status Report and Work Plan for a 12-Month Trial Shutdown of EW-6* provides additional detail regarding EW-5.

Extraction well EW-6 operated continuously in 2017 with one exception. On January 16th, the pump in EW-6 was turned off for a planned 12-month trial shutdown period, as approved by both agencies. In February, the pump was pulled, fouling on the drop pipe and pump was observed, and a PDB was hung in EW-6 for sampling. During the week of March 20th, first quarter groundwater monitoring was conducted. The TCE concentration was <0.33 µg/l in EW-6, but it rebounded from <0.33 to 4.6 µg/l in upgradient monitoring well MW-76A. Contributing factors may include:

- Relatively high groundwater levels late in 2016.
- Shutdown of EW-6 in January.

It appears that rising water levels "flushed out" residual TCE previously trapped in or just above the capillary fringe and below/beyond the main building's SVE system vapor barrier. As a result, EW-6 was redeveloped because the well was fouled, the pump was reinstalled, and operation of EW-6 resumed on April 27th. See the 2017 monthly progress reports that were submitted for the two groundwater pump-and-treat systems for more details.

Southwest Corner and Off-Property Groundwater Quality (Plume 1/2)

Volatile Organic Compounds

Figure 4 is a groundwater flow map for the SWC that was prepared using the groundwater elevations measured in the water table wells in this area of the site in June 2017. The groundwater contours show the general flow of groundwater to be northwesterly and then turning to the west. Table 3 contains all the 2017 groundwater elevations.

Table 4 summarizes the analytical results for the samples collected from EW-5 and EW-6, the one SWC extraction well that operated in 2017. (Note: All tables attached to this report containing analytical results only include data from the last four years to minimize the size of the report. Appendix A contains a CD with Excel workbooks summarizing all historical analytical data for all wells associated with the site. Starting in 2009, the data tables identify the method used for

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collecting each sample for reference.) Each of the extraction wells in the SWC was sampled quarterly in 2017. The TCE concentrations in these extraction wells ranged from 0.33U to 0.64J $\mu\text{g}/\ell$ in EW-5 and 0.33U to 0.82J $\mu\text{g}/\ell$ in EW-6. These concentrations are all well below the 5 $\mu\text{g}/\ell$ ES/MCL and generally lower than those in 2014-2015, confirming a continued decreasing trend in these wells.

On-Site and Off-Site Monitoring/Extraction Wells and Piezometers

Table 5 contains the last four years of historical analytical results for samples collected from the on-site monitoring wells in the SWC area of the site, as well as off-site, downgradient monitoring wells in Plume 1/2. All the laboratory reports and chain of custody records from the quarterly sampling done in 2017 are provided on the CD in Appendix A.

The TCE concentration in piezometer MW-52B at the airport was measured at 5.0 $\mu\text{g}/\ell$ in June 2017. Otherwise, the TCE concentration in groundwater samples collected from all monitoring wells in Plume 1/2 were below the ES/MCL of 5.0 $\mu\text{g}/\ell$ in all four sampling rounds in 2017. This continues the downward trend in Plume 1/2 TCE concentrations and reflects positively on the remedial efforts that have and continue to take place onsite. Appendix B contains TCE concentration versus time graphs for all historically impacted Plume 1/2 wells (i.e., TCE \geq 5 $\mu\text{g}/\ell$) and other select wells of interest or concern. These graphs include best-fit exponential trend lines generated using Excel, and they depict the overall decreasing to stable TCE concentrations in the Plume 1/2 wells.

One possible explanation for the 2017 TCE spike in MW-52B is back diffusion from finer-grained saturated intervals. Based on the boring logs, for example, the saturated zone beneath the airport includes:

- Silty sand at 100-118 ft bgs in MW-49B.
- Clay at 105-107 ft bgs in MW-50B.
- Clay at 124-125 ft bgs in MW-52B.
- Clay at 123.5-124 ft bgs in MW-53B.
- Silty gravel to silty sand at 114-129 ft bgs and clayey gravel at 134-154 ft bgs in MW-54B.
- Silty sand at 99-159 ft bgs and clayey sand at 159-166 ft bgs in MW-55C.
- Silty gravel at 108-119 ft bgs in MW-57B.
- Silty sand at 107-117 ft bgs in MW-58B.
- Silty sand at 97-107 ft bgs and silty gravel at 107-135 ft bgs in MW-61B.

Years ago, when VOC concentrations in Plume 1/2 at the airport were consistently higher, TCE diffused into the finer-grained material, which acted like a sponge. Now, as the TCE diffuses out

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of the finer-grained zones, we observed the localized spike at MW-52B and an anomalous, localized uptrend at MW-54B. However:

- The overall trend for TCE in Plume 1/2 is decreasing (e.g., see the TCE graphs for downgradient wells nests MW-55A/B/C and RW-3A/B/C).
- Figure 5 shows the monitoring well/piezometer network from the airport to the ECMWF. A list of pertinent well nests (and their grid coordinates) to consider for perspective follows: MW-52A/B/C (E6), MW-54A/B/C (D6), MW-55A/B/C (D6), and RW-3A/B/C (C6). Note also that MW-54A/B/C is ~1,600 feet downgradient of MW-52A/B/C, MW-55A/B/C is ~700 feet downgradient of MW-54A/B/C, RW-3A/B/C is ~800 feet downgradient of MW-55A/B/C, and city production well CW-22 (C7) is ~1,600 feet downgradient of RW-3A/B/C. In 2017, sufficient natural attenuation occurred down the centerline of Plume 1/2 to keep elevated TCE concentrations localized to MW-52B and MW-54B.

Figure 6 is a SWC TCE concentration map for December 2015 through December 2017. As described above:

- None of the wells in the SWC had a TCE concentration at or above the ES/MCL of 5.0 µg/ℓ.
- With EW-6 offline, TCE concentrations in MW-76A rebounded from <0.33 to 4.6 µg/ℓ in March 2017. In June though, with the SVE system operating continuously and EW-6 back online to lower water levels, provide hydraulic control, and prevent off-site migration, TCE concentrations in MW-76A decreased from 4.6 to <0.33 µg/ℓ and remained below detection limits for the remainder of 2017.

City of Eau Claire Monitoring Wells

Four of the five remaining City of Eau Claire monitoring wells (EC wells) were sampled in 2017. EC-1 was sampled four times, while EC-2, EC-5, and EC-6 were each sampled once. EC-7 was approved for abandonment several years ago but was retained at the request of the City for its internal use. However, it is no longer being sampled by NPI. The TCE concentrations in the samples collected from EC-2, EC-5, and EC-6 were all below the laboratory's limit of detection. Well EC-1 was once again the only EC well that contained detectable concentrations of TCE, ranging from 0.88J to 1.6 µg/ℓ. Table 5 includes the analytical data for these wells.

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City of Eau Claire Production Wells

Historically, the City of Eau Claire collected and analyzed monthly water samples for VOCs from five of its production wells (CW-11, CW-15 to CW-17, and CW-19) in the north well field. In the fall of 2013, their laboratory instrument broke, and the City contracted the analyses to the Eau Claire County Health Department (County) beginning in December 2013. In May 2014, the City notified GF that they would no longer collect and analyze monthly samples from the above city wells and that the April 2014 samples would be the last ones collected and analyzed by the City.

- On April 25, 2017, the City brought CW-22 and CW-23 online.
- Production well water routed through the air stripper at the ECMWF included city wells 11/15/16/17/19 prior to April 25th and city wells 17/19/22/23 starting on April 25th.

To date, NPI has continued to sample CW-11, CW-15 to CW-17, and CW-19, plus CW-22 and CW-23 (starting in June 2017) quarterly and will continue to have the samples analyzed using drinking water Method 524.2. City staff continue to accompany GF field staff during the collection of quarterly samples from these wells.

Table 6 contains analytical results of the raw water samples that GF collected in 2017 from the individual city production wells; the commingled untreated raw water prior to the two air stripping towers; the commingled treated water after each of the towers, but before chlorination; and the commingled treated water after sand filtration and chlorination. All the quarterly samples collected from CW-11, CW-16, and CW-17 by GF in 2017 and analyzed by Pace's Minneapolis, Minnesota, lab had TCE concentrations below the laboratory's detection limit, which ranged from 0.044 to 0.11 µg/ℓ.

Samples collected from CW-15 in 2017 contained detectable concentrations of TCE ranging from 0.078J to 0.33 µg/ℓ.

CW-19, CW-22, and CW-23 are the three northern-most city production wells. Based on historical data, we believe that these wells, when pumping, intercept virtually all the TCE in Plume 1/2 that reaches the city well field. Most of the samples collected from these wells and analyzed by Pace contained detectable concentrations of TCE, ranging from 0.16J to 2.4 µg/ℓ, all well below the 5.0 µg/ℓ ES/MCL.

The samples of comingled water from all city production wells contained TCE at concentrations ranging from 0.044U to 1.1 µg/ℓ. None of the samples collected following the stripping towers contained TCE at concentrations above the limit of detection, which ranged from 0.044 to 0.11

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µg/l. The final product delivered to the public, following further conventional treatment, did not contain detectable concentrations of TCE in any of the four quarterly samples in 2017.

Eau Claire Municipal Well Field and Revised Groundwater Clean-Up Goal

In December 2009, the USEPA issued an Explanation of Significant Differences (ESD) that revised the groundwater clean-up goal for the ECMWF and NPI sites from the PALs to the ESs/MCLs. This change in the groundwater clean-up goal, to be consistent with NR 140 and the MCL, led to a meeting with the City and ultimately to a short-term sampling program at several of the city wells, the two air stripper towers, and within the water treatment plant. The sampling was done on four days in late November and early December 2011. The data from the sampling program documented that, while TCE was detectable in three of the four samples of the finished water entering the city distribution system, the concentrations were an order of magnitude below the 5.0 µg/l ES/MCL.

Based on historical monitoring data and that from the 2011 city well system sampling program, the USEPA issued an August 1, 2012, letter to the City of Eau Claire confirming that operation of the air strippers to remove VOCs prior to distribution to its customers would no longer be required. The City has subsequently chosen to continue operation of the strippers at its own cost. If the City ever decides to turn the strippers off, the USEPA letter requires that they be kept in operating condition until the USEPA either deletes the NPI site from the National Priorities List (NPL) or until USEPA's review of future NPI site groundwater monitoring data allows it to determine that the strippers can be permanently dismantled prior to the deletion of the NPI site from the NPL. On April 5, 2015, the USEPA issued a Final Closeout Report (FCOR) for the ECMWF site.

Cadmium Monitoring

Historically, dissolved Cd has been present in a few monitoring wells in the SWC. The Cd concentrations in several wells (MW-10A&B and MW-34A) have often been above the 5.0 µg/l NR 140 ES/MCL. The agencies requested during the December 13, 2012, annual on-site meeting that an expanded list of monitoring wells be sampled for Cd during each of the first two quarters of 2013. The agencies wanted to use the data to assist in determining whether additional investigation or remedial action was needed. A total of 15 monitoring wells and the 2 extraction wells in the SWC were sampled for Cd at least twice in 2013. As expected, most of the Cd concentrations in the samples collected from monitoring wells MW-10A&B and MW-34A were above the ES/MCL. One of the four samples collected from monitoring well MW-70B also was above the ES/MCL. At least one sample from five other wells (MW-4B, MW-34B&C, MW-68, and MW-76A) and extraction well EW-5 contained a Cd concentration above the PAL. Of the

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remaining seven wells, only one contained a Cd concentration above the 0.38 µg/ℓ limit of detection. Table 7 contains the last four years of results for the wells in the SWC that were routinely sampled for Cd analysis in 2017. Appendix A includes summary tables with all historical Cd analytical data on a CD.

In 2014, at least one round of groundwater samples was collected from 22 additional monitoring wells in Plume 1/2 between the NPI property boundary and the city well field to confirm that Cd has not historically migrated off site. The results demonstrated that Cd is not currently migrating off site at detectable concentrations.

Metals are relatively immobile in the subsurface. In 2015, additional sampling for Cd in the SWC continued. At least one sample was collected from each of ten on-site monitoring wells and the two extraction wells. Groundwater samples collected from MW-10A (3 samples), MW-10B (3 samples), MW-34A (2 samples), and MW-75 (2 samples) contained Cd at a concentration above the 5 µg/ℓ ES/MCL. This data confirmed that, while there are exceedances of the ES/MCL for Cd in groundwater, the extent of groundwater with Cd concentrations above the ES/MCL is restricted to a relatively small area around former Lagoon #1. They also show that it has not migrated significantly horizontally or vertically at the site within the aquifer. See Figure 4 for a groundwater flow map of the SWC.

As agreed, GF compiled and analyzed all historical Cd data associated with the NPI site in 2015. Based on this data, a remedial alternatives analysis was completed and submitted to the WDNR and USEPA on June 23, 2015. The report concluded that former Lagoon #1, which was remediated in the late 1990s, was the primary source of Cd in groundwater and that the Cd concentrations in groundwater were exhibiting a decreasing trend. It recommended continued monitoring of Cd in groundwater with a re-evaluation as part of the 2016 annual report.

In 2016, groundwater quality directly below and downgradient of former Lagoon #1 continued to improve. As described previously, groundwater samples from MW-10A, MW-10B, MW-34A, and MW-75 contained Cd at a concentration above the 5 µg/ℓ ES/MCL in 2015. By 2016, samples from only two of the four wells (MW-10A and MW-34A) contained Cd at a concentration above the 5 µg/ℓ ES/MCL (see Table 7). Consequently, our recommendation for continued routine monitoring of Cd remained unchanged.

In a letter to NPI dated December 13, 2017, Howard concluded both agencies “are satisfied that NPI has submitted enough lines of evidence to support MNA [monitored natural attenuation] as a viable remedy for the cadmium at the NPI site.” In 2017, samples from only MW-10A contained Cd at a concentration above the 5 µg/ℓ ES/MCL, providing further support for continued MNA.

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Melby Road Disposal Site (Former Plume 3/4)

The installation and startup of the groundwater extraction wells (EW-1 and EW-2) at the MRDS in March 1994 was an interim remedial action that was intended to be used until the final remedy for this area of the site was developed and implemented. The final remedy was the engineered multi-layer cap over the MRDS and the SVE system that was installed beneath the cap, both completed in 1998. Since 1998, both extraction wells were operated continuously apart from down time for pump repairs. None of the groundwater samples collected from the on-site wells under the cap have contained detectable concentrations of TCE since at least 2001, documenting that the final remedy had eliminated the need to continue operation of the interim remedial action (pumping from EW-1R [a replacement for EW-1] and from EW-2).

In 2010, NPI prepared and submitted a draft Restrictive Use Covenant (RUC) for the MRDS as requested by the USEPA, and subsequently the USEPA approved an 18-month trial shutdown of EW-1R and EW-2 to determine whether these wells were needed to protect groundwater quality beneath and downgradient from the site. The trial shutdown occurred from October 2010 through April 2012.

Throughout the shutdown, groundwater quality at and immediately downgradient from the MRDS remained stable or improved slightly. The analytical results from the final sampling round were submitted to the USEPA and WDNR in a May 23, 2012, report. The report recommended approval of the long-term shutdown of the MRDS extraction wells. Both agencies verbally approved the long-term shutdown of extraction wells EW-1R and EW-2 during a December 13, 2012, meeting with NPI.

The groundwater contours at and near the MRDS are shown on Figures 1 and 2 and represent groundwater elevations measured in the monitoring wells in June 2017.

Table 8 contains the last four years of analytical results for the groundwater monitoring wells/piezometers at the MRDS and downgradient monitoring wells/piezometers in former Plume 3/4. Concentrations of all VOCs in most of the wells/piezometers in the MRDS area have been below the laboratory limit of detection for many years. A total of 20 of the 20 existing wells/piezometers in the MRDS area and downgradient in former Plume 3/4 were sampled at least once in 2017. VOC concentrations in 18 of the 20 wells were below the laboratory limit of detection. There were no exceedances of the TCE ES of 5.0 µg/ℓ in the 2017 groundwater samples collected from any of the former Plume 3/4 wells/piezometers, and none of the analytical results represented an increasing trend in TCE concentration. The only remaining piezometers in former Plume 3/4 with detectable concentrations of TCE in 2017 were MW-26B and MW-65C, with

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concentrations ranging from 0.37J to 0.73J $\mu\text{g}/\ell$. These two piezometers are both located off site and north of the MRDS.

Table 9 contains the last four years of analytical results for the groundwater samples collected from the two MRDS extraction wells (EW-1R and EW-2). They were sampled four times in 2017. None of the samples collected from these two wells in 2017 contained detectable concentrations of any VOCs and haven't since August 2001.

Appendix C contains TCE concentration versus time graphs for all monitoring wells/piezometers in the MRDS area with detectable TCE in 2017 and other select wells of interest or concern, both on and off site. These graphs provide a visual representation of TCE concentrations over time and provide further evidence that TCE concentrations in groundwater at and downgradient from the MRDS area are well below the ES/MCL and that the trend in those wells that do have detectable TCE concentrations is stable or decreasing.

East Disposal Site (Former Plume 5)

Groundwater samples collected from monitoring wells associated with the East Disposal Site (EDS) had not contained detectable concentrations of TCE for years. Following approval by the USEPA, all the EDS monitoring wells, apart from two, were abandoned in 2011. Two "Plume 5" wells (MW-7 and MW-8) formerly associated with the EDS, but located immediately up- or side-gradient of the MRDS, were retained for future water level measurements and "re-classified" as Plume 3/4 monitoring wells.

Extraction Well Pumping Volumes and Cascade Aerator Removal Efficiencies

Extraction wells EW-1R and EW-2 at the MRDS and EW-5 and EW-6 in the SWC are components of the interim remedial action for groundwater, as described in the September 30, 1991, Record of Decision (ROD). The extraction wells have been used since 1994 to remove contaminated groundwater and provide hydraulic gradient control in these two areas of the site (as noted above, the MRDS wells and EW-5 have now been turned off). Groundwater pumped from these wells is directed to cascade aeration systems CAS-1 and CAS-2R, respectively. The goal of the cascade aerators is to remove, by volatilization, a minimum of 25 percent of the VOCs from the pumped groundwater before it is discharged to a storm sewer that in turn discharges to the Chippewa River via a subsurface diffuser.

As discussed above, EW-1R, EW-2, and EW-5 are now considered "non-active". Extraction well EW-6 operated continuously throughout the year, except from January 14 through April 27, 2017.

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Samples of the groundwater pumped from EW-6 were collected three times in 2017 prior to the groundwater's discharge to CAS-2R. PDBs were used to collect quarterly samples from EW-5 and the first quarter sample from EW-6. As required by the WPDES permit for this discharge, three samples were also collected of the treated effluent from CAS-2R in 2017. These samples are collected from manhole MH-18, which is within 60 feet of CAS-2R and receives its discharge. Because EW-1R and EW-2 were "non-active", discharge samples were not collected from CAS-1 in 2017.

Table 10 provides the annual volumes of groundwater pumped from the MRDS extraction wells (EW-1R and EW-2) to CAS-1 and from the SWC extraction wells (EW-5 and EW-6) to CAS-2R, and the cumulative volume of treated groundwater discharged to the storm sewer from the inception of the system through 2017. Due to the trial shutdown of MRDS extraction wells EW-1R and EW-2 during the first quarter of 2012 and the fact that these wells were not turned back on following the trial shutdown, we continued to treat them (and EW-5) as non-discharging wells for 2017. There were no detectable concentrations of NPI VOCs in the samples collected from EW-1R and EW-2 in 2017.

In 2017, the total volume of treated groundwater discharged to the storm sewer was 70.40 million gallons. The volume removed from all the extraction wells since March 1994 now totals over 4.4 billion gallons.

Tables 11 and 12 list the concentrations of TCA and TCE, respectively, in the groundwater pumped from the extraction wells. The tables also include all historical TCA and TCE effluent concentrations for each of the cascade aerators, the aerators' calculated removal efficiencies, and the effluent concentration of the combined effluent discharged from the cascade aerators. Because extraction wells EW-1R and EW-2 were not operating in 2017, there is no need to calculate the removal efficiency for CAS-1. Table 11 shows that the TCA removal efficiency of CAS-2R in 2017 ranged from 32 to 51 percent. Table 12 shows that the TCE removal efficiency of CAS-2R in 2017 ranged from 28 to 48 percent. Overall results document that the performance of CAS-2R in 2017 exceeded the TCA/TCE removal efficiency goal of 25 percent.

The discharge from both cascade aerators flows to manhole MH-18 in the southwest corner of the NPI property, from there to the City of Eau Claire storm sewer system, and ultimately discharges to the Chippewa River through a subsurface diffuser. The discharge from the cascade aerators is regulated by the WDNR at MH-18.

Sampling of the discharge occurs quarterly for the chlorinated compounds of concern and annually for several metals, pH, hardness, and PAHs. Discharge monitoring reporting (DMR)

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forms are submitted to the WDNR on a quarterly basis, and an annual summary report is also submitted to the WDNR and USEPA. Table 13 contains the analytical results of all the MH-18 samples collected during the last four years. There have never been any exceedances of the limitations established by the WDNR. The DMRs for the discharge to MH-18 are submitted to the WDNR manager of the Superfund program rather than the manager of the wastewater program, in accordance with a March 12, 2008, WDNR directive.

Well/Piezometer Abandonment Request and Groundwater Sampling Schedule for 2018

NPI requests agency approval to abandon the following monitoring wells/piezometers in 2018.

- In Plume 1/2: MW-39A, MW-47A/B, MW-57A/B, MW-60A/B, MW-69B, and MW-71A.
- In Plume 3/4: MW-8, MW-9A/B, MW-22A/B, MW-26A/B, MW-27A/B, and MW-29A/B.

Given the documented improvement in groundwater quality, continued monitoring of these 20 wells/piezometers (9 in Plume 1/2 and 11 in Plume 3/4) is no longer necessary. In addition, it will eliminate the chance of a well or piezometer getting lost or damaged and serving as a conduit for contamination to reach the aquifer, etc.

Table 14 presents the 2018 groundwater sampling and well abandonment schedule for the site. Based on the long-term improvement in overall groundwater quality, proposed changes in the sampling schedule for 2018 include:

1. Stop sampling CW-11, CW-16, and CW-17 at the ECMWF because they are downgradient of the TCE capture zone created by CW-15, CW-19, CW-22, and CW-23.
2. Stop sampling EC-5 at the ECMWF because the monitoring well is outside the former 1993 TCE plume boundary.
3. Stop sampling EW-1R, EW-2, and EW-5, given that their screened intervals are relatively long and other nearby wells/piezometers in the monitoring network with standard-size screened intervals provide adequate coverage. Specifically, in the SWC, NPI will resume quarterly sampling of MW-68A/B located approximately 100 feet downgradient of EW-5. In addition, as long as extraction well EW-6 continues to operate, NPI will sample EW-6 and MH-18 for the NPI VOCs quarterly and MH-18 for total Cd annually. However, NPI proposes to stop sampling EW-6 for cadmium, given that the annual sample from MH-18 will be representative of pumped groundwater quality.
4. In Plume 1/2, stop sampling 11 wells/piezometers and reduce the sampling frequency of 17 wells/piezometers from quarterly and semi-annual to annual. Meanwhile, NPI will sample:

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- a. SWC wells/piezometers MW-34A, MW-68A/B, MW-70A, MW-76A, and MW-77A/B quarterly.
 - b. RW-3A/B/C (plume centerline, upgradient of the ECMWF) semi-annually.
5. In Plume 3/4, stop sampling 12 wells/piezometers and reduce the sampling frequency of 6 wells/piezometers at and downgradient of the MRDS from semi-annual to annual. However, quarterly field screening and sampling of the MRDS SVE vent wells and exhaust gas will continue, and those results should provide an early warning of elevated VOCs in the soil gas under the cap, if such an event occurs. In addition, all monitoring data to date document that the engineered cap and seasonal operation of the SVE system at the MRDS provide reliable protection of the local groundwater quality.
 6. Stop sampling MW-4A for Cd analysis and reduce the sampling frequency of six Cd wells/piezometers from quarterly and semi-annual to annual. There is sufficient quarterly and semi-annual data to document that concentrations do not fluctuate seasonally. Based on the historic results and the overall decreasing trend and given the long-term nature of the planned MNA program for Cd, annual sampling is appropriate. However, quarterly sampling of MW-10A for Cd analysis will continue.

During the October 25, 2017, annual meeting at NPI, the agencies agreed that they would consider reduced monitoring. Table 14 summarizes the proposed well/piezometer abandonment request and changes in the sampling schedule for 2018, as outlined above.

Findings and Conclusions

As described in our September 24, 2015, *Remedial Alternatives Analysis for the MW-34/70 Area TCE Degreaser Sludge* report, operation of the MW-34/70 area SVE system has removed a substantial mass of TCE. The residual TCE in this area has been shown to be bound relatively tightly to the sludge. However, NPI will continue to operate both mid-depth SVE wells and will rotate the four shallow SVE wells (two at a time) seasonally. Geoprobe sampling will be conducted in the area in 2023 to re-evaluate the effectiveness of the system.

Based on the success of the MW-34/70 area SVE system, seasonal operation of the MRDS SVE system is also proposed to eliminate condensate production and reduce the project's environmental footprint. Continued full-time operation of the system for the protection of groundwater quality appears unnecessary. See GF's August 2017 *MRDS SVE System Trial Seasonal Shutdown Assessment* reports for additional details.

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Although the location of the TCE/TCA source area beneath the building has not been completely defined, installation and operation of groundwater extraction well EW-6 reduced TCE/TCA concentrations in groundwater in- and downgradient from this area of the site. The data from monitoring wells and past Geoprobe investigations document that TCE and TCA concentrations in the groundwater at the property boundary remain far below the applicable ESs/MCLs. The installation of SVE vent well VW-1 (began 24/7 operation in January 2015) inside the main building to remove VOCs from the vadose zone beneath the building and improve groundwater quality in that area of the site has been successful. TCE concentrations in monitoring well MW-76A, directly downgradient:

- Decreased an order of magnitude in 2015.
- Were below the PAL of 0.5 µg/l in 2016.
- Increased from <0.33 to 4.6 µg/l in March 2017, after EW-6 stopped pumping groundwater in January. However, with EW-6 back online, TCE concentrations in MW-76A decreased from 4.6 to <0.33 µg/l in June and remained below detection limits for the remainder of 2017.

Meanwhile, the continued operation of SWC extraction well EW-6 provides hydraulic control and prevents the off-site migration of residual dissolved-phase TCE.

As a result of all remedial activities completed through 2017:

- The general trend of TCE concentrations in Plume 1/2 wells is decreasing and, in 2017, TCE concentrations in all sampled Plume 1/2 wells were at or below its 5.0 µg/l ES/MCL. (In 2016, TCE concentrations were <5 µg/l in all sampled wells throughout Plume 1/2 for an entire year.)
- All NPI VOCs were virtually non-existent in the sampled Plume 3/4 wells, EW-1R, and EW-2. In 2017, for example, TCE was the only NPI VOC present at concentrations above its limit of detection, TCE was detected in samples from just two off-site piezometers, and all detected concentrations were below the limit of quantitation.
- Cd concentrations above its ES/MCL of 5 µg/l are confined to a relatively small area immediately adjacent to former Lagoon #1, which included only MW-10A in 2017.

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Planned Work (2018)

NPI plans the following work in 2018:

- Continue to operate the SVE systems at the MRDS, the shallow and mid-depth wells in the MW-34/70 area, and VW-1 inside the main building to remove additional TCE and protect groundwater quality. Both the MRDS and MW-34/70 area systems will operate seasonally. Field screen, sample, and report results from each system in accordance with agreed upon schedules.
- Continue to operate EW-6, monitor NPI VOCs in the SWC to assess the need to restart extraction well EW-5, sample EW-6 and manhole MH-18, and submit DMRs in accordance with agreed upon schedules.
- Continue to operate and maintain CAS-2R and, if the MRDS extraction wells are restarted, CAS-1.
- Abandon the Plume 1/2 and Plume 3/4 monitoring wells/piezometers summarized in Table 14 upon receiving approval from the agencies.
- Continue to conduct routine quarterly groundwater monitoring. These activities will include the measuring of water levels and sampling of select on- and off-site monitoring wells/piezometers, city production wells, and unit operations at the ECMWF in accordance with the approved groundwater sampling schedule and QAPP/monitoring plans for the analysis of NPI VOCs and Cd.

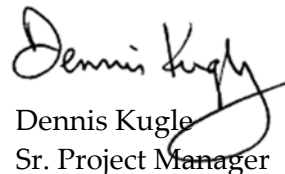
If you have any questions during your review of the report, please call.

Sincerely,

GANNETT FLEMING, INC.



Cliff Wright, P.E., P.G.
Project Engineer



Dennis Kugle
Sr. Project Manager

CCW/jec/Enc

Electronic cc: Derrick Paul (NPI)
Mark Wichman (USACOE)
Lane Berg (City of Eau Claire)
LeAnne Addy (Village of Lake Hallie)

FIGURES

<u>No.</u>	<u>Description</u>
1	24" x 36" Water Table Groundwater Contour Map (June 2017) with 1993 Plume Locations
2	11" x 17" On-site Groundwater Flow Map (June 2017)
3	11" x 17" Site Plan with Three Existing SVE System Locations
4	11" x 17" Main Building SVE Well and June 2017 SWC Groundwater Contour Map
5	11" x 17" Airport-ECMWF Groundwater Flow Map (June 2017)
6	11" x 17" Southwest Corner TCE Concentrations Map (Dec. 2015 – Dec. 2017)

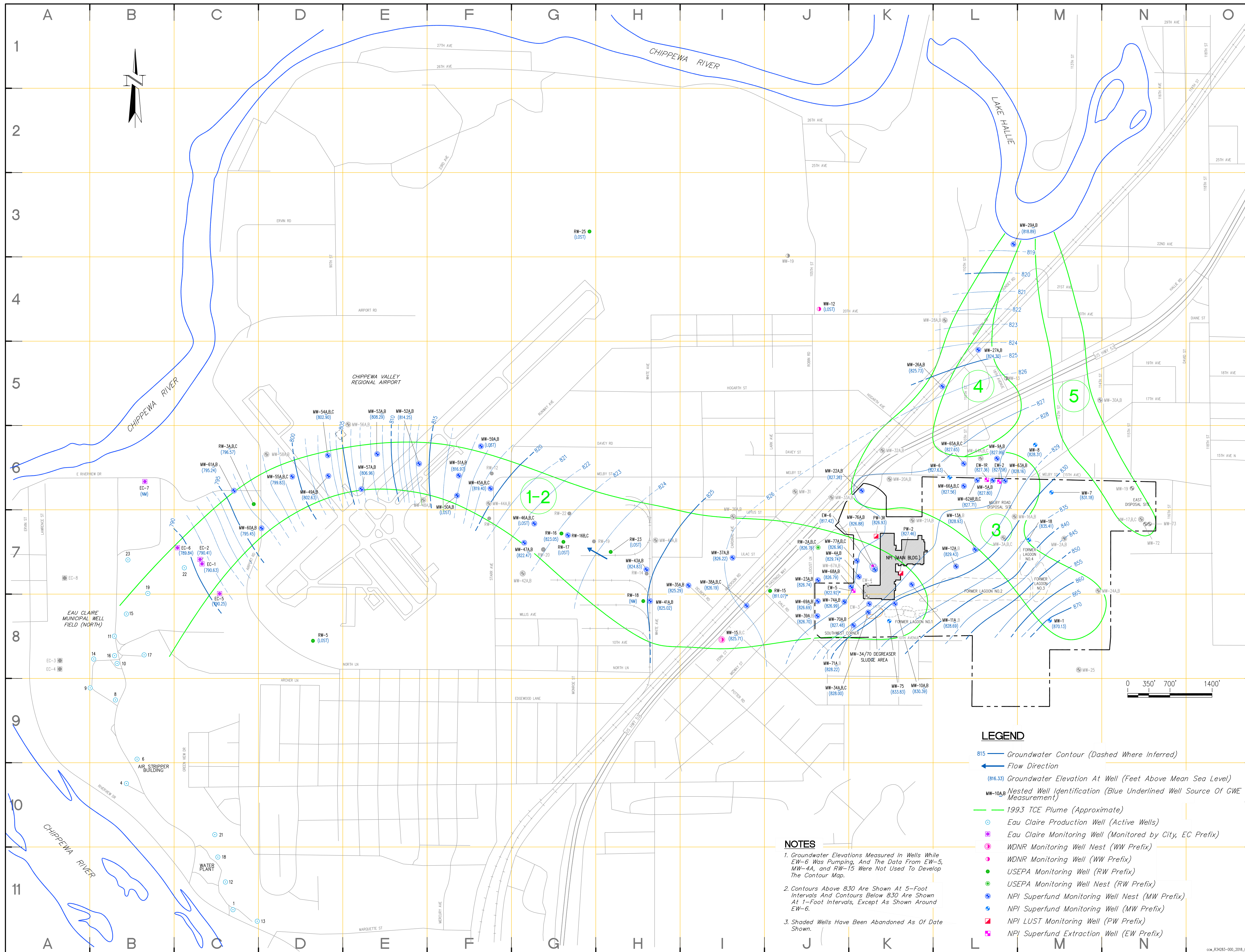
TABLES

<u>No.</u>	<u>Description</u>
1	Well Construction Information
2A	Emission Threshold Information from NR 445.07, Table A, for Detected VOCs in Exhaust Gas Samples
2B	Summary of Air Emissions from TCE Removal by NPI SVE Systems (2014-2017)
3	Water Level Measurements for 2017
4	Analytical Results from the Southwest Corner Extraction Well Samples (2014-2017)
5	Analytical Results from Plume 1/2 Monitoring Wells (2014-2017)
6	Analytical Results from City of Eau Claire Production Wells (2014-2017)
7	Dissolved Cadmium Analytical Results (2014-2017)
8	Analytical Results from Former Plume 3/4 Wells (2014-2017)
9	Analytical Results from Melby Road Extraction Wells (2014-2017)
10	Annual Pumpage from the Four Groundwater Extraction Wells
11	TCA Concentrations in Extraction Wells and Discharge from Cascade Aerators
12	TCE Concentrations in Extraction Wells and Discharge from Cascade Aerators
13	Results from Manhole MH-18 Sampling (2014-2017)
14	Groundwater Sampling and Well Abandonment Schedule for 2018

APPENDICES

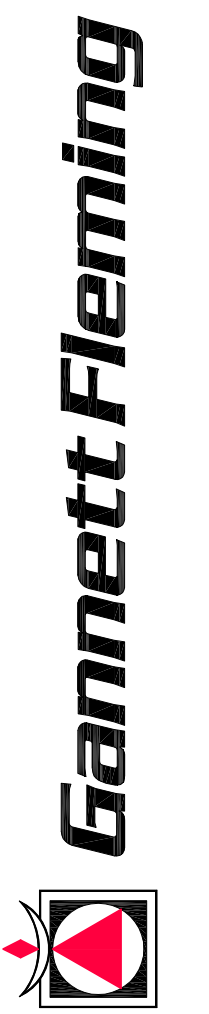
A	CD Containing Text of the 2017 Quarterly Data Validation Reports, Historical Analytical Data Summary Tables, and 2017 Laboratory Reports
B	TCE Concentration vs Time Graphs (Plume 1/2)
C	TCE Concentration vs Time Graphs (Former Plume 3/4)

FIGURES



No.	REVISIONS	DATE	BY
0	PRELIMINARY DRAFT.	01/05/18	CJP
1	FIRST DRAFT.	01/16/18	CJP

AREA SITE PLAN WITH WELL AND 1993 PLUME LOCATIONS AND 1993 PRESTO INDUSTRIES, INC. AND EAU CLAIRE MUNICIPAL WELL FIELD
EAU CLAIRE, WISCONSIN



HARRISBURG, PENNSYLVANIA MADISON, WISCONSIN

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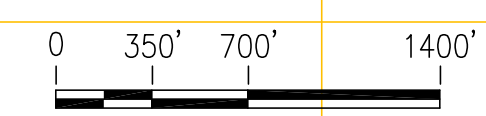
TITLE
WATERTABLE GROUNDWATER CONTOUR MAP (JUNE 2017) WITH 1993 PLUME LOCATIONS

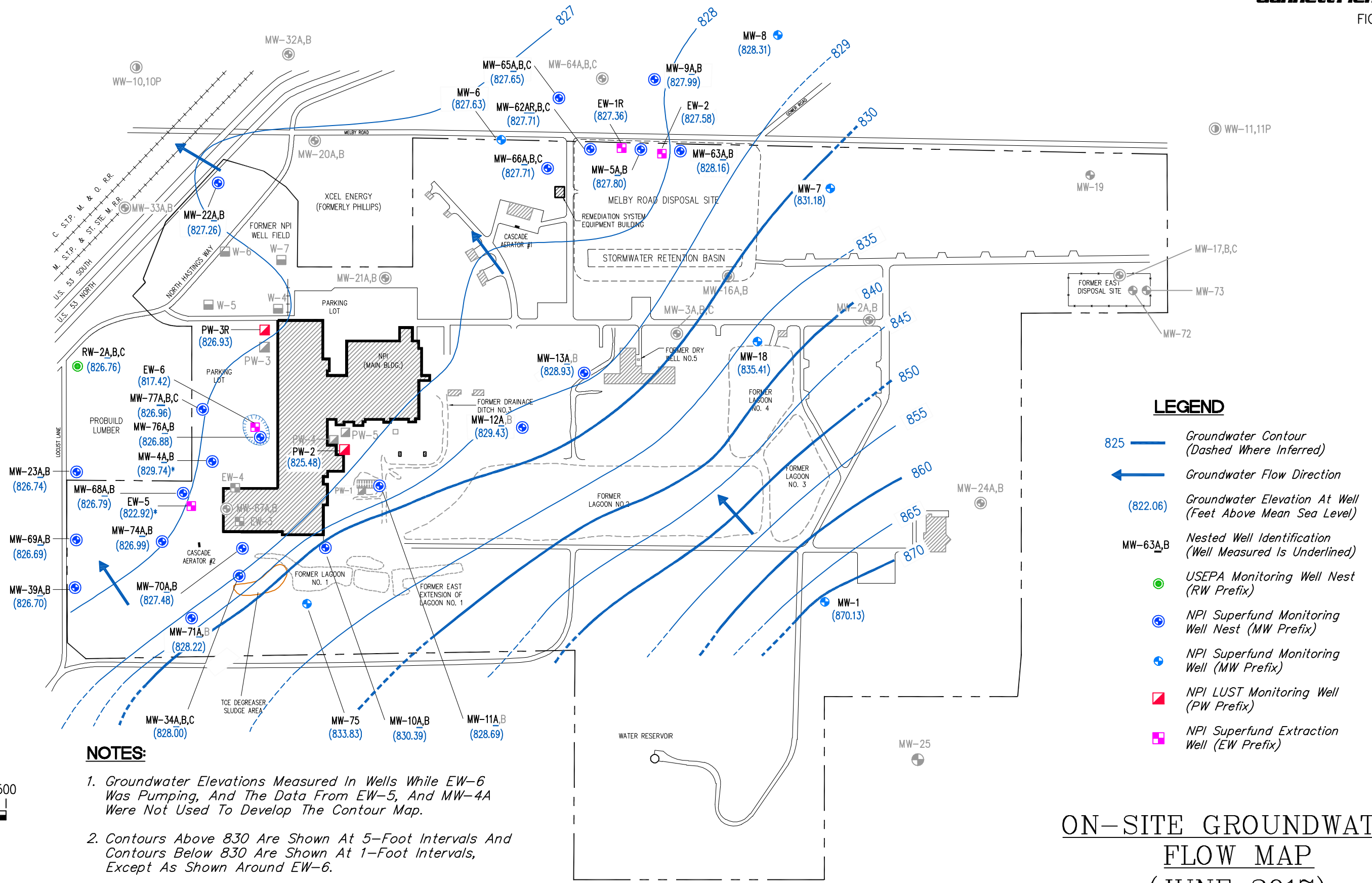


HARRISBURG, PENNSYLVANIA	MADISON, WISCONSIN
DRAWN BY	SCALE
DESIGNED BY	PROJECT No.
APPROVED BY	DRAWING No.
DATE	FIGURE 1

- LEGEND**
- 815 — Groundwater Contour (Dashed Where Inferred)
 - ← Flow Direction
 - (816.33) Groundwater Elevation At Well (Feet Above Mean Sea Level)
 - MW-10A,B Nested Well Identification (Blue Underlined Well Source Of GWE Measurement)
 - 1993 TCE Plume (Approximate)
 - Eau Claire Production Well (Active Wells)
 - Eau Claire Monitoring Well (Monitored by City, EC Prefix)
 - WDNR Monitoring Well Nest (WW Prefix)
 - WDNR Monitoring Well (WW Prefix)
 - USEPA Monitoring Well (RW Prefix)
 - USEPA Monitoring Well Nest (RW Prefix)
 - NPI Superfund Monitoring Well Nest (MW Prefix)
 - NPI Superfund Monitoring Well (MW Prefix)
 - NPI LUST Monitoring Well (PW Prefix)
 - NPI Superfund Extraction Well (EW Prefix)

- NOTES**
- Groundwater Elevations Measured In Wells While EW-6 Was Pumping, And The Data From EW-5, MW-4A, and RW-15 Were Not Used To Develop The Contour Map.
 - Contours Above 830 Are Shown At 5-Foot Intervals And Contours Below 830 Are Shown At 1-Foot Intervals, Except As Shown Around EW-6.
 - Shaded Wells Have Been Abandoned As Of Date Shown.





LEGEND

- 825 — Groundwater Contour (Dashed Where Inferred)
- ← Groundwater Flow Direction
- (822.06) Groundwater Elevation At Well (Feet Above Mean Sea Level)
- MW-63A,B Nested Well Identification (Well Measured Is Underlined)
- USEPA Monitoring Well Nest (RW Prefix)
- ⊕ NPI Superfund Monitoring Well Nest (MW Prefix)
- ⊕ NPI Superfund Monitoring Well (MW Prefix)
- ▣ NPI LUST Monitoring Well (PW Prefix)
- ⊕ NPI Superfund Extraction Well (EW Prefix)

NOTES:

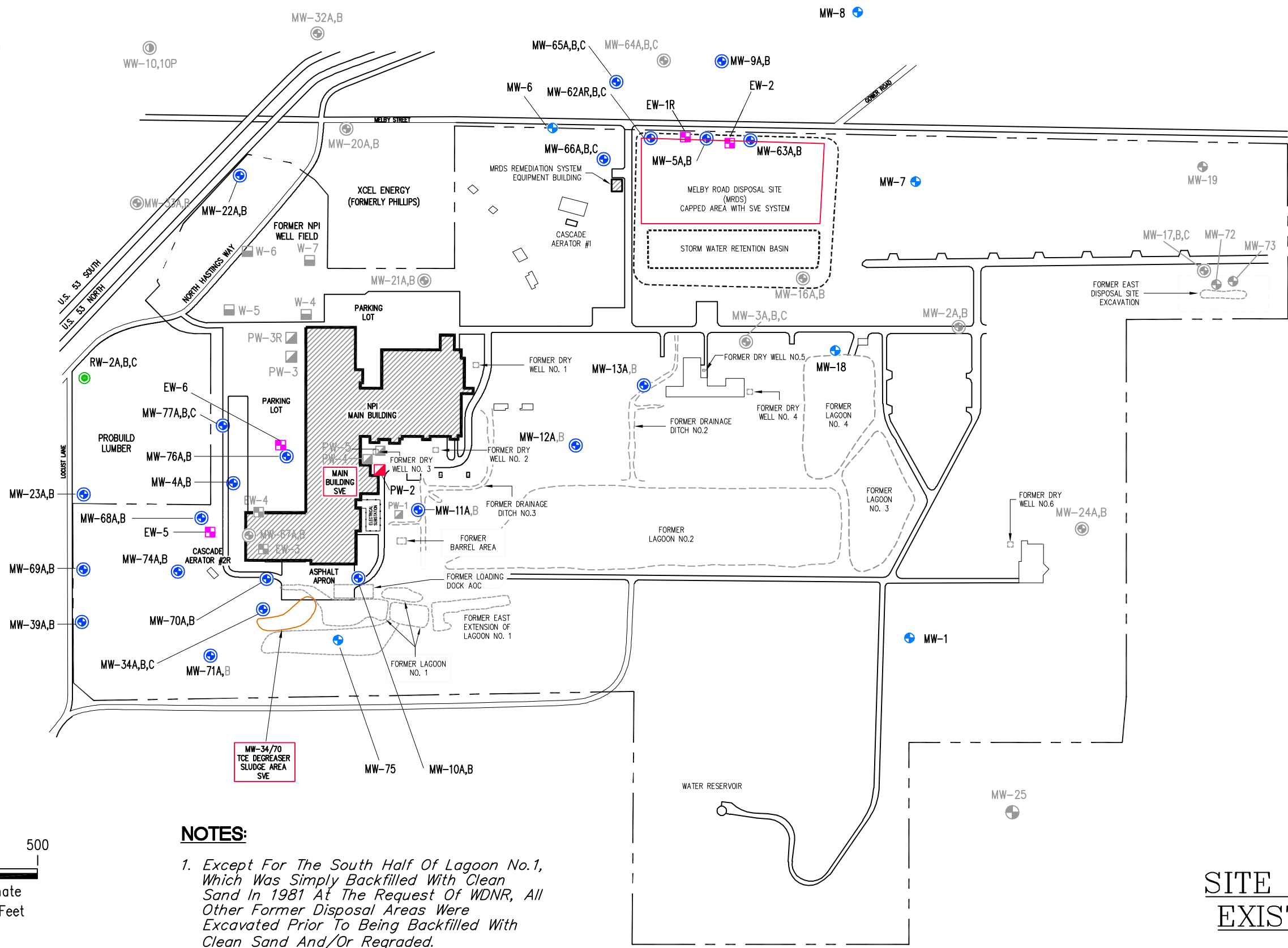
1. Groundwater Elevations Measured In Wells While EW-6 Was Pumping, And The Data From EW-5, And MW-4A Were Not Used To Develop The Contour Map.
2. Contours Above 830 Are Shown At 5-Foot Intervals And Contours Below 830 Are Shown At 1-Foot Intervals, Except As Shown Around EW-6.
3. Shaded Wells Have Been Abandoned And Shaded Buildings Have Been Removed.
4. EW-3 Was Replaced By EW-5 On January 7, 2004, And EW-4 Was Replaced By EW-6 On September 22, 2011.



Approximate Scale In Feet

ON-SITE GROUNDWATER FLOW MAP (JUNE 2017)

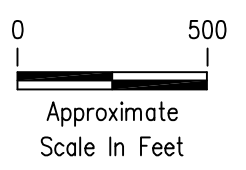
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LEGEND

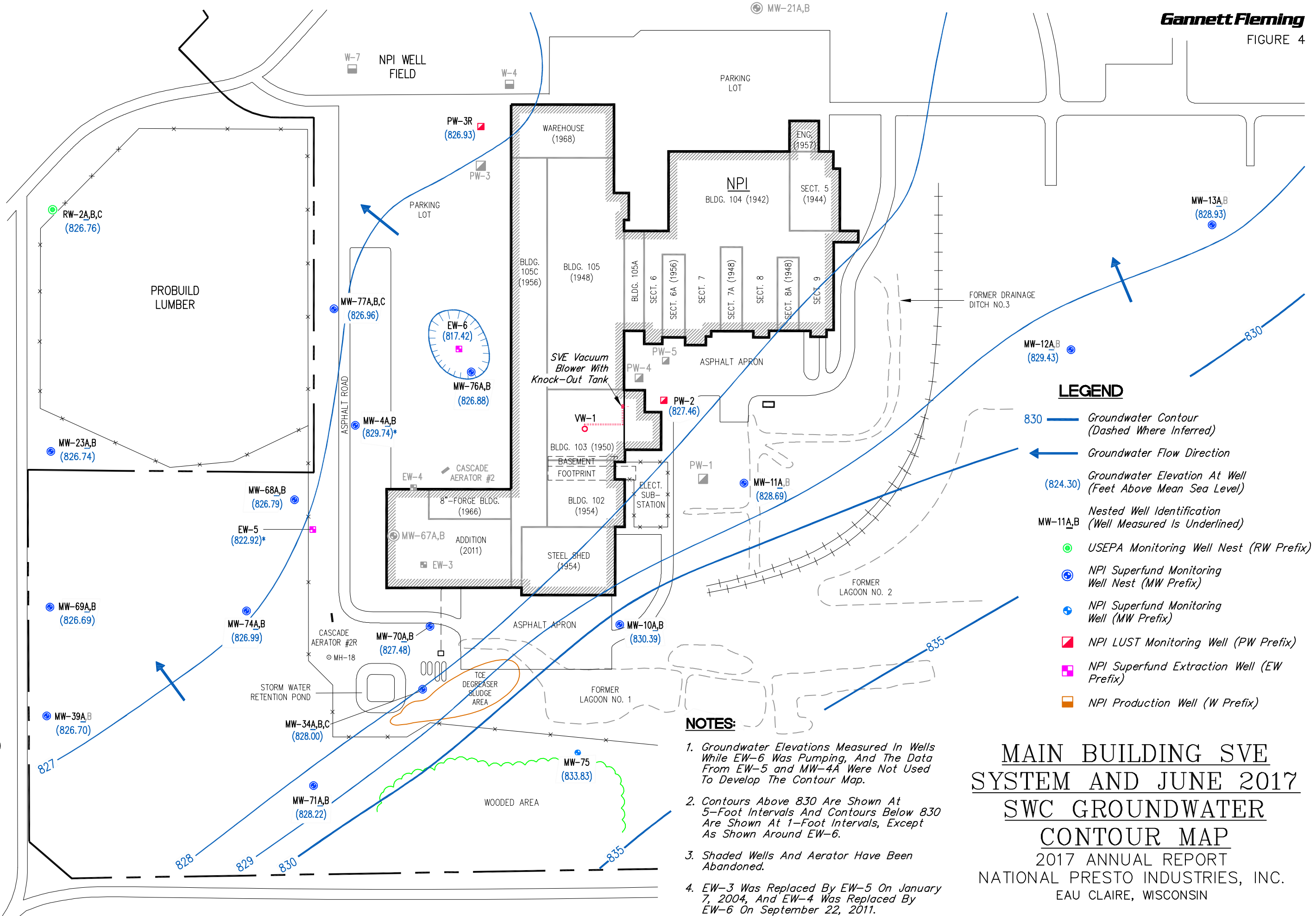
- Individual Areas With Existing SVE Systems
- MW-63A,B Nested Well Identification
- USEPA Monitoring Well Nest (RW Prefix)
- ⊕ NPI Superfund Monitoring Well Nest (MW Prefix)
- + NPI Superfund Monitoring Well (MW Prefix)
- NPI LUST Monitoring Well (PW Prefix)
- NPI Superfund Extraction Well (EW Prefix)
- Footprint Of Former On-Site Building
- NPI Property Line

- NOTES:**
1. Except For The South Half Of Lagoon No.1, Which Was Simply Backfilled With Clean Sand In 1981 At The Request Of WDNR, All Other Former Disposal Areas Were Excavated Prior To Being Backfilled With Clean Sand And/Or Regraded.
 2. Shaded Wells Have Been Abandoned And Shaded Buildings Have Been Demolished And Removed.



SITE PLAN WITH THREE EXISTING SVE SYSTEM LOCATIONS

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NATIONAL PRESTO INDUSTRIES, INC.
EAU CLAIRE, WISCONSIN



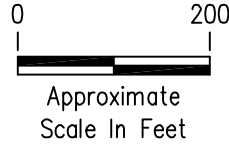
LEGEND

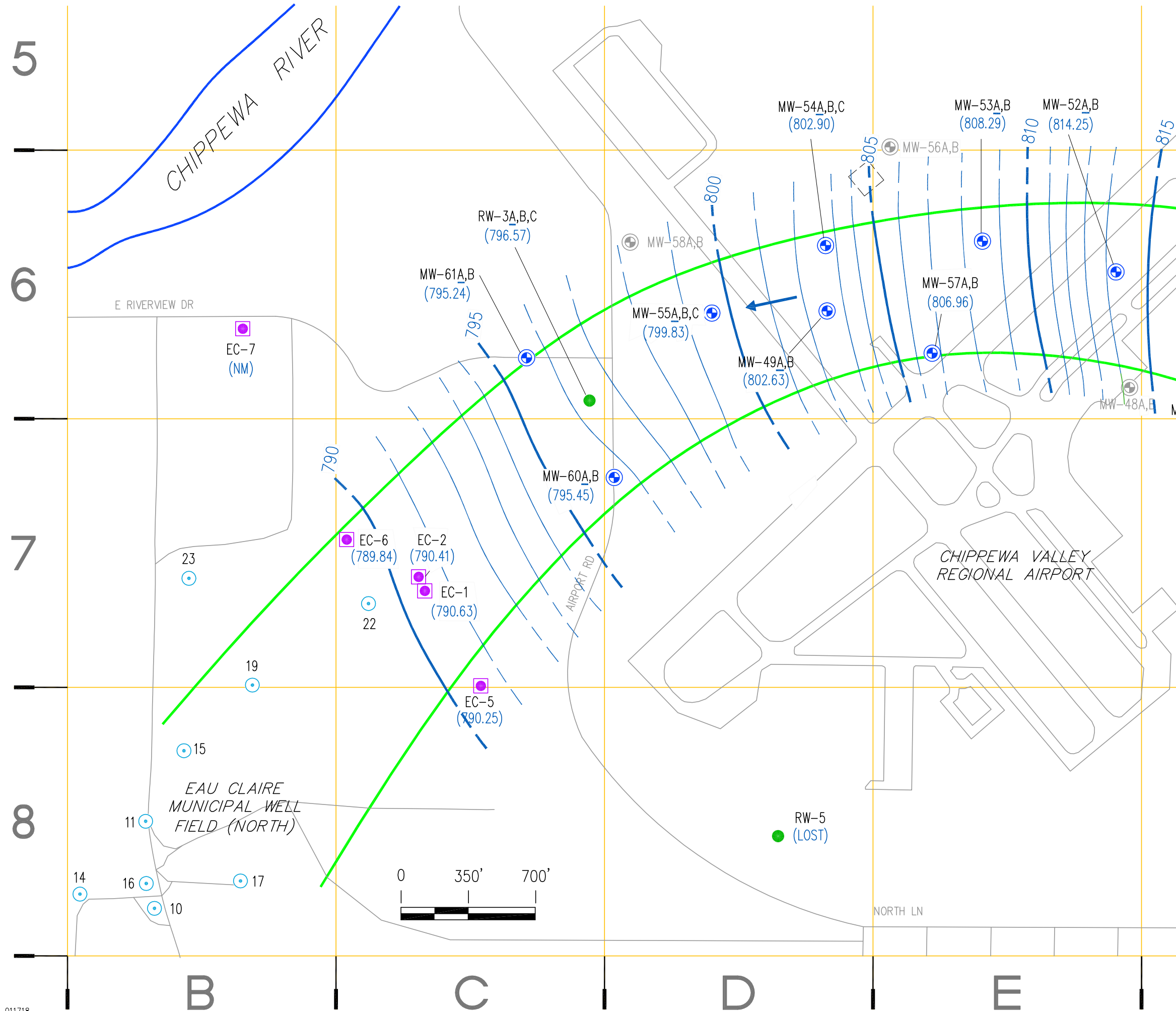
- 830 — Groundwater Contour (Dashed Where Inferred)
- ← Groundwater Flow Direction
- (824.30) Groundwater Elevation At Well (Feet Above Mean Sea Level)
- MW-11A,B Nested Well Identification (Well Measured Is Underlined)
- USEPA Monitoring Well Nest (RW Prefix)
- ⊕ NPI Superfund Monitoring Well Nest (MW Prefix)
- ⊕ NPI Superfund Monitoring Well (MW Prefix)
- ▣ NPI LUST Monitoring Well (PW Prefix)
- ⊕ NPI Superfund Extraction Well (EW Prefix)
- ▣ NPI Production Well (W Prefix)

NOTES:

1. Groundwater Elevations Measured In Wells While EW-6 Was Pumping, And The Data From EW-5 and MW-4A Were Not Used To Develop The Contour Map.
2. Contours Above 830 Are Shown At 5-Foot Intervals And Contours Below 830 Are Shown At 1-Foot Intervals, Except As Shown Around EW-6.
3. Shaded Wells And Aerator Have Been Abandoned.
4. EW-3 Was Replaced By EW-5 On January 7, 2004, And EW-4 Was Replaced By EW-6 On September 22, 2011.

MAIN BUILDING SVE SYSTEM AND JUNE 2017 SWC GROUNDWATER CONTOUR MAP
 2017 ANNUAL REPORT
 NATIONAL PRESTO INDUSTRIES, INC.
 EAU CLAIRE, WISCONSIN

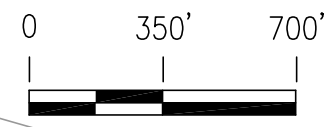


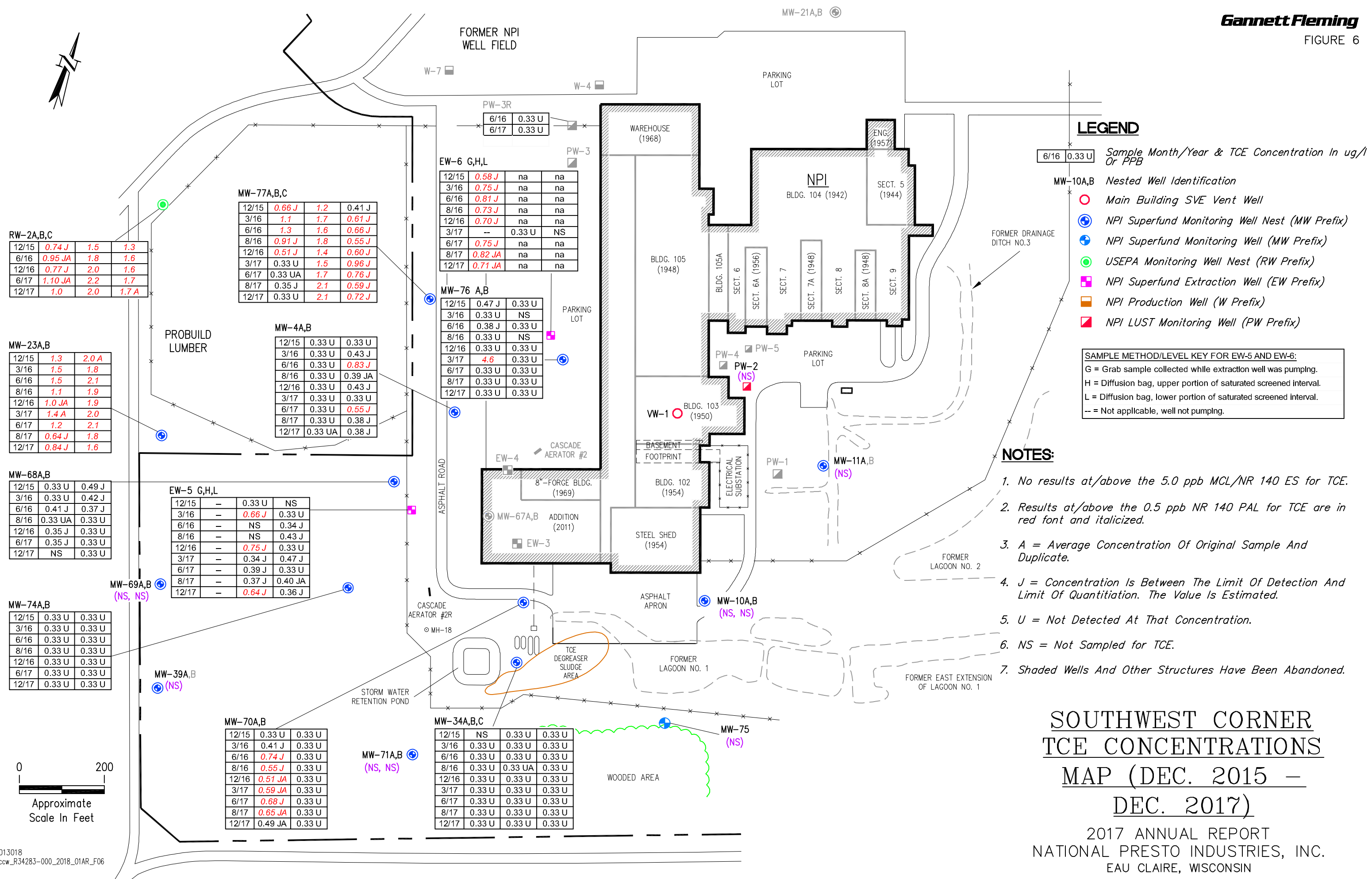


LEGEND

- 825 — Groundwater Contour (Dashed Where Inferred)
- ← Groundwater Flow Direction
- (822.06) Groundwater Elevation At Well (Feet Above Mean Sea Level)
- 1993 TCE Plume (Approximate)
- MW-63A,B Nested Well Identification (Well Measured Is Underlined)
- Eau Claire Production Well (Active Wells)
- Eau Claire Monitoring Well (monitored by City, EC Prefix)
- USEPA Monitoring Well Nest (RW Prefix)
- ⊕ NPI Superfund Monitoring Well Nest (MW Prefix)
- ⊕ NPI Superfund Monitoring Well (MW Prefix)

**AIRPORT—ECMWF
GROUNDWATER FLOW MAP
(JUNE 2017)**
2017 ANNUAL REPORT
NATIONAL PRESTO INDUSTRIES, INC.
EAU CLAIRE, WISCONSIN





LEGEND

- 6/16 0.33 U Sample Month/Year & TCE Concentration In ug/l Or PPB
- MW-10A,B Nested Well Identification
- Main Building SVE Vent Well
- ⊕ NPI Superfund Monitoring Well Nest (MW Prefix)
- ⊕ NPI Superfund Monitoring Well (MW Prefix)
- ⊕ USEPA Monitoring Well Nest (RW Prefix)
- ⊕ NPI Superfund Extraction Well (EW Prefix)
- ⊕ NPI Production Well (W Prefix)
- ⊕ NPI LUST Monitoring Well (PW Prefix)

SAMPLE METHOD/LEVEL KEY FOR EW-5 AND EW-6:

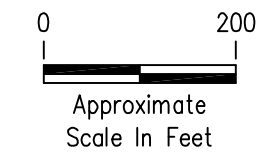
G = Grab sample collected while extraction well was pumping.
 H = Diffusion bag, upper portion of saturated screened interval.
 L = Diffusion bag, lower portion of saturated screened interval.
 -- = Not applicable, well not pumping.

NOTES:

1. No results at/above the 5.0 ppb MCL/NR 140 ES for TCE.
2. Results at/above the 0.5 ppb NR 140 PAL for TCE are in red font and italicized.
3. A = Average Concentration Of Original Sample And Duplicate.
4. J = Concentration Is Between The Limit Of Detection And Limit Of Quantitation. The Value Is Estimated.
5. U = Not Detected At That Concentration.
6. NS = Not Sampled for TCE.
7. Shaded Wells And Other Structures Have Been Abandoned.

**SOUTHWEST CORNER
 TCE CONCENTRATIONS
 MAP (DEC. 2015 –
 DEC. 2017)**

2017 ANNUAL REPORT
 NATIONAL PRESTO INDUSTRIES, INC.
 EAU CLAIRE, WISCONSIN



TABLES

NATIONAL PRESTO INDUSTRIES, INC.
EAU CLAIRE, WISCONSIN

TABLE 1

WELL CONSTRUCTION INFORMATION

Well/Piezometer ID (description/comment)	Plume	Grid Coord.	FN	Drilling Method	Completion Date or Year	Screened Interval (ft bgs)	Screened In (description of material)	Casing Dia- meter (inches)	Well Top Type	Casing/ Screen Material	Top of Casing Elevation (ft MSL)	Date of Abandonment
CW-10 (city production well)	1/2	B8		CT	1945	65-95	Gravel	20		Bronze	--	NA
CW-11	1/2	B8		CT	1947	56-90	Gravel	20		Bronze	--	NA
CW-14	1/2	B8		CT	1968	63-99	Gravel packed	16		SS	--	NA
CW-15	1/2	B8		CT	1968	62-87	Gravel packed	16		SS	--	NA
CW-16	1/2	B8		CT	1975	75-110	Gravel	20		SS	--	NA
CW-17	1/2	B8		CT	1975	65-100	Gravel	20		SS	--	NA
CW-19	1/2	B7		CT	1992	72-97	Gravel	20		SS	--	NA
CW-22	1/2	C7		CT	2017	54-100	Gravel	20		SS	--	NA
CW-23	1/2	B7		CT	2017	55-80	Gravel	20		SS	--	NA
EC-1 (city monitoring well)	1/2	C7		--	12/16/82	90-100	--	4	P	Steel	813.95	NA
EC-2	1/2	C7		--	12/20/82	18-28	--	4	P	Steel	814.44	NA
EC-3	1/2	A8		--	12/23/82	53-75	--	6	P	Steel	799.58	09/04/08
EC-4	1/2	A8		--	01/31/83	9-19	--	4	P	Steel	800.84	09/04/08
EC-5	1/2	C7		--	12/23/82	17-27	--	4	P	Steel	813.56	NA
EC-6	1/2	C7		--	01/04/83	15-25	--	4	P	Steel	813.19	NA
EC-7 (approved for abandonment-kept by city)	1/2	B6		--	01/05/83	19-29	--	4	P	Steel	816.22	NA
EC-8	1/2	A7		--	01/07/83	20-30	--	4		Steel	812.93	09/04/08
EW-1 (fka MW-14)	3/4	L6	1	AR	03/05/87	62.5-97.5	Alluvium	5		Steel	896.00	08/25/95
EW-1R (replaced EW-1)	3/4	L6		HSA/CT	08/25/95	75-100	Alluvium	6	F	SS	900.08	NA
EW-2 (fka MW-15)	3/4	L6		AR	02/26/87	69-104	Alluvium	8	F	Steel	901.45	NA
EW-3 (Last sampled 7/22/03)	1/2	K8		MR	09/01/92	65.2-85.2	Alluvium	6	Vault	Steel	897.22	06/24/10
EW-4	1/2	K7		MR	09/03/92	72-92	Alluvium	6	Vault	Steel	898.23	10/14/10
EW-5	1/2	K7		MR	07/10/03	70-90	Alluvium	6	Vault	Steel/SS	889.90	NA
EW-6	1/2	K7		Sonic	08/06/11	70.3-100.3	Alluvium	6	Vault	Steel/SS	894.89	NA
MW-1	3/4	M8	2	HSA	10/26/76	39.5-49.5	Alluvium	2	P	PVC	910.26	NA
MW-2A	3/4	M7	2,4	HSA	10/27/76	45-55	Bedrock	2		PVC	905.19	07/15/88
MW-2B	3/4	M7	2	HSA	10/27/76	6-16	Alluvium	2		PVC	905.19	07/15/88
MW-3A	3/4	L7	2,4	HSA	10/28/76	69-72	Bedrock	2		PVC	899.95	07/15/88
MW-3B	3/4	L7	2,4	HSA	10/28/76	73-76	Bedrock	2		PVC	899.95	07/15/88
MW-3C	3/4	L7	2,4	HSA	10/28/76	77-80	Bedrock	2		PVC	899.95	07/15/88
MW-4A	1/2	K7	2	HSA	10/28/76	70-80	Alluvium	2	P	PVC	898.42	NA
MW-4B	1/2	K7		MR	05/24/90	95-105	Alluvium	2	P	PVC	894.39	NA
MW-5A	3/4	L6	2	HSA	02/27/84	64-81	Alluvium	2	P	PVC	902.60	NA
MW-5B	3/4	L6	2	MR	12/05/86	87-97	Alluvium	2	P	PVC	902.39	NA
MW-6	3/4	L6	2	HSA	01/10/85	73.8-88.8	Alluvium	2	P	PVC	904.70	NA
MW-7	3/4	M6	2,4	MR	01/08/85	62-77	Bedrock	2	P	PVC	897.73	NA
MW-8	3/4	M6	2	HSA	01/11/85	75-90	Alluvium	2	P	PVC	904.24	NA
MW-9A	3/4	L6	2	MR	03/28/85	80-90	Alluvium	2	P	PVC	905.30	NA
MW-9B	3/4	L6	2,4	HSA	03/28/85	98-113	Bedrock	2	P	PVC	905.30	NA
MW-10A	1/2	K8	4	HSA	11/14/86	56-71	Both	2	P	PVC	894.84	NA
MW-10B	1/2	K8	4	MR	11/14/86	90.5-100.5	Bedrock	2	P	PVC	894.91	NA
MW-11A	1/2	K7		HSA	11/15/86	58-73	Alluvium	2	P	PVC	896.03	NA
MW-11B	1/2	K7	4	MR	11/17/86	77-87	Bedrock	2	P	PVC	896.27	11/23/11
MW-12A	1/2	L7		HSA	11/18/86	58-73	Alluvium	2	P	PVC	897.09	NA
MW-12B	1/2	L7	4	MR	11/18/86	77.5-87.5	Bedrock	2	P	PVC	897.20	11/23/11
MW-13A	3/4	L7		HSA	11/21/86	58.5-73.5	Alluvium	2	P	PVC	896.86	NA
MW-13B	3/4	L7	4	HAS	11/21/86	81-91	Bedrock	2	P	PVC	?	11/23/11
MW-14 (nka EW-1)	3/4	L6	1	AR	03/05/87	62.5-97.5	Alluvium	2		Steel	896.00	03/05/87
MW-15 (nka EW-2)	3/4	L6		AR	02/26/87	69-104	Alluvium	2		Steel	895.81	02/26/87
MW-16A	3/4	M7	4	HSA	11/25/86	58-73	Bedrock	2		PVC	896.62	08/21/98
MW-16B	3/4	M7	4	MR	11/24/86	83.5-93.5	Bedrock	2		PVC	896.51	08/21/98
MW-17	5	N7	4	HSA	12/03/86	25-40	Both	2	P	PVC	898.91	11/23/11
MW-17B	5	N7	4	HSA	12/04/86	50-60	Bedrock	2	P	PVC	899.12	11/23/11
MW-17C	5	N7	4	MR	05/20/88	70-80	Bedrock	2	P	PVC	899.50	11/23/11
MW-18	3/4	M7	4	HSA	05/19/88	58-73	Bedrock	2	P	PVC	898.38	NA
MW-19	5	N6	4	HSA	05/17/88	58-73	Bedrock	2	P	PVC	898.89	11/30/11

TABLE 1

WELL CONSTRUCTION INFORMATION

Well/Piezometer ID (description/comment)	Plume	Grid Coord.	FN	Drilling Method	Completion Date or Year	Screened Interval (ft bgs)	Screened In (description of material)	Casing Dia- meter (inches)	Well Top Type	Casing/ Screen Material	Top of Casing Elevation (ft MSL)	Date of Abandonment
MW-20A	3/4	K6		HSA	05/25/88	65.5-80.5	Alluvium	2		PVC	897.82	04/15/95
MW-20B	3/4	K6		HSA	06/01/88	92-102	Alluvium	2		PVC	896.74	04/15/95
MW-21A	3/4	K7		HSA	05/23/88	67-82	Alluvium	2		PVC	899.27	04/07/10
MW-21B	3/4	K7		MR	05/20/88	92-102	Alluvium	2		PVC	898.95	04/07/10
MW-22A	3/4	K6		HSA	06/03/88	66.5-81.5	Alluvium	2	P	PVC	900.79	NA
MW-22B	3/4	K6		HSA	06/01/88	91.5-101.5	Alluvium	2	P	PVC	900.75	NA
MW-23A	1/2	J7		HSA	06/04/88	65-80	--	2	P	PVC	895.99	NA
MW-23B	1/2	J7		HSA	06/03/88	90-100	--	2	P	PVC	895.95	NA
MW-24A	3/4	M7	4	MR	05/25/88	45-60	Bedrock	2		PVC	915.66	09/05/08
MW-24B	3/4	M7	4	MR	05/23/88	70-80	Bedrock	2		PVC	915.57	09/05/08
MW-25	3/4	M8	4	HSA	05/17/88	39-54	Both	2		PVC	930.35	09/05/08
MW-26A	3/4	L5		HSA	06/22/89	63-78	Alluvium	2	F	PVC	890.17	NA
MW-26B	3/4	L5		MR	06/20/89	109-119	Alluvium	2	F	PVC	890.03	NA
MW-27A	3/4	L5		HSA	06/21/89	62-77	Alluvium	2	F	PVC	890.20	NA
MW-27B	3/4	L5		MR	06/20/89	85.3-95.3	Alluvium	2	F	PVC	890.15	NA
MW-28A	3/4	L4		HSA	06/08/89	65-80	Alluvium	2		PVC	892.86	06/15/99
MW-28B	3/4	L4		MR	06/08/89	113-123	Alluvium	2		PVC	893.16	06/15/99
MW-29A	3/4	L3		HSA	05/25/89	69-84	Alluvium	2	P	PVC	892.72	NA
MW-29B	3/4	L3		MR	05/31/89	124-134	Alluvium	2	P	PVC	892.49	NA
MW-30A	5	M5		HSA	06/12/89	66-81	Alluvium	2		PVC	898.69	09/08/08
MW-30B	5	M5		MR	06/10/89	115-125	Alluvium	2		PVC	898.49	09/08/08
MW-31	1/2	J6		HSA	06/02/89	56-71	Alluvium	2		PVC	887.65	09/09/08
MW-32A	3/4	K6		HSA	06/23/89	59-74	Alluvium	2		PVC	887.83	04/08/95
MW-32B	3/4	K6		MR	06/21/89	90-100	Alluvium	2		PVC	887.77	04/08/95
MW-33A	1/2	J6		HSA	07/07/89	55-70	Alluvium	2		PVC	885.30	04/07/10
MW-33B	1/2	J6		MR	07/07/89	100-110	Alluvium	2		PVC	885.25	04/07/10
MW-34A (data per boring log)	1/2	K8		HSA	06/08/90	67-72	Alluvium	2	P	PVC	895.36	NA
MW-34B (data per boring log)	1/2	K8	4	MR	05/31/90	90-100	Both	2	P	PVC	895.28	NA
MW-34C	1/2	K8	4	--	--	?-102	Bedrock	2	P	PVC	895.25	NA
MW-35A	1/2	I7		HSA	05/31/90	59-74	Alluvium	2	P	PVC	888.28	NA
MW-35B	1/2	I7		MR	06/06/90	84-94	Alluvium	2	P	PVC	888.02	NA
MW-36A	1/2	I7		HSA	06/06/90	63.5-78.5	Alluvium	2	F	PVC	889.87	11/23/11
MW-36B	1/2	I7		MR	06/07/90	88.5-98.5	Alluvium	2	F	PVC	889.89	11/23/11
MW-37A	1/2	I7		HSA	12/18/90	55.7-70.7	Alluvium	2	F	PVC	885.55	NA
MW-37B	1/2	I7		HSA	02/12/91	68.5-73.5	Alluvium	2	F	PVC	885.27	NA
MW-38A	1/2	I8		HSA	12/16/90	54.5-69.5	Alluvium	2	F	PVC	884.89	NA
MW-38B	1/2	I8		HSA	02/05/91	97.5-107.5	Alluvium	2	F	PVC	884.82	NA
MW-38C	1/2	I8		MR	01/13/91	139.2-149.2	Alluvium	2	F	PVC	884.83	NA
MW-39A	1/2	J8		HSA	12/11/90	62.5-77.5	Alluvium	2	P	PVC	896.17	NA
MW-39B	1/2	J8		MR	01/26/91	114.8-124.8	Alluvium	2	P	PVC	896.38	11/29/11
MW-40A	1/2	H7		HSA	12/20/90	58-73	Alluvium	2		PVC	886.57	08/24/09
MW-40B	1/2	H7		MR	01/16/91	79-89	Alluvium	2		PVC	886.34	08/24/09
MW-41A	1/2	H8		HSA	12/19/90	56-71	Alluvium	2	F	PVC	884.04	NA
MW-41B	1/2	H8		MR	01/23/91	102.5-112.5	Alluvium	2	F	PVC	883.84	NA
MW-42A	1/2	G7		HSA	01/31/91	65.5-75.5	Alluvium	2	P	PVC	891.83	11/29/11
MW-42B	1/2	G7		MR	01/17/91	74.5-84.5	Alluvium	2	P	PVC	891.32	11/29/11
MW-43A	1/2	H7		HSA	02/12/91	61-76	Alluvium	2	F	PVC	885.34	NA
MW-43B	1/2	H7		MR	02/11/91	107.5-117.5	Alluvium	2	F	PVC	885.35	NA
MW-44A	1/2	F6		HSA	08/20/91	62-67	Alluvium	2	F	PVC	885.35	08/25/15
MW-44B	1/2	F6		HSA	08/24/91	114-124	Alluvium	2	F	PVC	885.34	08/25/15
MW-45A	1/2	F6		HSA	08/21/91	63-78	Alluvium	2	F	PVC	886.20	NA
MW-45B	1/2	F6		MR	09/11/91	101-111	Alluvium	2	F	PVC	886.26	NA
MW-45C	1/2	F6		MR	08/26/91	134-144	Alluvium	2	F	PVC	886.05	NA
MW-46A (not found)	1/2	G7		HSA	08/22/91	60-75	Alluvium	2	P	PVC	885.46	NA
MW-46B (not found)	1/2	G7		MR	09/12/91	99.5-109.5	Alluvium	2	P	PVC	885.42	NA
MW-46C (not found)	1/2	G7		MR	08/28/91	134.3-144.3	Alluvium	2	P	PVC	885.38	NA
MW-47A	1/2	G7		HSA	08/23/91	60-75	Alluvium	2	P	PVC	888.39	NA
MW-47B	1/2	G7		MR	09/04/91	100-110	Alluvium	2	P	PVC	888.24	NA
MW-48A	1/2	E6		HSA	09/07/91	66.5-81.5	Alluvium	2	F	PVC	885.15	12/01/11
MW-48B	1/2	E6		MR	09/06/91	93-103	Alluvium	2	F	PVC	885.40	12/01/11

TABLE 1

WELL CONSTRUCTION INFORMATION

Well/Piezometer ID (description/comment)	Plume	Grid Coord.	FN	Drilling Method	Completion Date or Year	Screened Interval (ft bgs)	Screened In (description of material)	Casing Dia- meter (inches)	Well Top Type	Casing/ Screen Material	Top of Casing Elevation (ft MSL)	Date of Abandonment
MW-49A	1/2	D6		HSA	09/10/91	78.5-91.5	Alluvium	2	F	PVC	883.04	NA
MW-49B	1/2	D6		MR	09/09/91	107-117	Alluvium	2	F	PVC	883.02	NA
MW-50A (not found)	1/2	F6		HSA	09/16/91	63.4-78.4	Alluvium	2	F	PVC	883.61	NA
MW-50B (not found)	1/2	F6		MR	09/15/91	95-105	Alluvium	2	F	PVC	883.57	NA
MW-51A	1/2	F6		HSA	09/17/91	63.5-78.5	Alluvium	2	F	PVC	884.02	NA
MW-51B	1/2	F6		MR	09/17/91	102-112	Alluvium	2	F	PVC	883.99	NA
MW-52A	1/2	F6		HSA	10/02/91	67.4-82.4	Alluvium	2	F	PVC	884.13	NA
MW-52B	1/2	F6		MR	10/02/91	113-123	Alluvium	2	F	PVC	884.12	NA
MW-53A	1/2	E6		HSA	10/05/91	76-91	Alluvium	2	F	PVC	887.93	NA
MW-53B	1/2	E6		MR	10/05/91	112-123	Alluvium	2	F	PVC	888.25	NA
MW-54A	1/2	D6		HSA	10/10/91	77-92	Alluvium	2	F	PVC	883.78	NA
MW-54B	1/2	D6		MR	10/11/91	112-122	Alluvium	2	F	PVC	883.87	NA
MW-54C	1/2	D6		MR	10/09/91	142-152	Alluvium	2	F	PVC	883.66	NA
MW-55A	1/2	D6		HSA	11/05/91	78-93	Alluvium	2	F	PVC	881.75	NA
MW-55B	1/2	D6		MR	11/26/91	118.5-128.5	Alluvium	2	F	PVC	882.08	NA
MW-55C	1/2	D6		MR	11/04/91	154-164	Alluvium	2	F	PVC	881.91	NA
MW-56A	1/2	E5		HSA	11/06/91	75.5-90.5	Alluvium	2		PVC	885.67	09/04/08
MW-56B	1/2	E5		MR	11/11/91	150-160	Alluvium	2		PVC	885.89	09/04/08
MW-57A	1/2	E6		HSA	11/23/91	76-91	Alluvium	2	F	PVC	886.31	NA
MW-57B	1/2	E6		MR	11/21/91	108-118	Alluvium	2	F	PVC	886.13	NA
MW-58A	1/2	D6		HSA	11/07/91	76-91	Alluvium	2	F	PVC	880.88	?
MW-58B	1/2	D6		MR	11/13/91	112-122	Alluvium	2	F	PVC	880.96	12/01/11
MW-59A (approved for abandonment, but can't find)	1/2	F6		HSA	11/08/91	62-77	Alluvium	2		PVC	882.00	NA
MW-59B (approved for abandonment, but can't find)	1/2	F6		MR	11/19/91	129-139	Alluvium	2		PVC	882.07	NA
MW-60A	1/2	D7		HSA	12/04/91	78.5-93.5	Alluvium	2	F	PVC	879.19	NA
MW-60B	1/2	D7		MR	12/08/91	104-114	Alluvium	2	F	PVC	879.09	NA
MW-61A	1/2	C6		HSA	12/05/91	78.5-93.5	Alluvium	2	F	PVC	879.37	NA
MW-61B	1/2	C6		MR	12/11/91	124-134	Alluvium	2	F	PVC	879.58	NA
MW-62A	3/4	L6		HSA	06/25/92	61-76	Alluvium	2		PVC	893.69	12/22/98
MW-62AR	3/4	L6		HSA	12/22/98	71-86	Alluvium	2	P	PVC	901.75	NA
MW-62B	3/4	L6		MR	06/30/92	96-106	Alluvium	2	P	PVC	901.79	NA
MW-62C	3/4	L6		MR	06/24/92	126.5-136.5	Alluvium	2	P	PVC	901.15	NA
MW-63A	3/4	M6		HSA	06/28/92	65-80	Alluvium	2	P	PVC	899.05	NA
MW-63B	3/4	M6		MR	06/27/92	95-105	Alluvium	2	P	PVC	899.13	NA
MW-64A	3/4	L6		HSA	07/08/92	63.5-78.5	Alluvium	2	P	PVC	894.89	05/08/14
MW-64B	3/4	L6		MR	07/08/92	103.8-113.8	Alluvium	2	P	PVC	895.24	05/08/14
MW-64C	3/4	L6		MR	07/01/92	139-149	Alluvium	2	P	PVC	894.75	05/08/14
MW-65A	3/4	L6		HSA	07/02/92	60.4-75.4	Alluvium	2	P	PVC	891.68	NA
MW-65B	3/4	L6		MR	07/08/92	100-110	Alluvium	2	P	PVC	891.62	NA
MW-65C	3/4	L6		MR	07/07/92	133.9-143.9	Alluvium	2	P	PVC	891.77	NA
MW-66A	3/4	L6		HSA	06/27/92	66.5-81.5	Alluvium	2	P	PVC	900.53	NA
MW-66B	3/4	L6		MR	07/01/92	111-121	Alluvium	2	P	PVC	900.26	NA
MW-66C	3/4	L6		MR	06/27/92	150-160	Alluvium	2	P	PVC	900.43	NA
MW-67A	1/2	K7		HSA	06/22/92	61-76	Alluvium	2		PVC	895.96	09/22/10
MW-67B	1/2	K7		MR	07/09/92	77.8-82.8	Alluvium	2		PVC	895.79	09/22/10
MW-68A	1/2	J7		HSA	07/08/92	63.5-78.5	Alluvium	2	P	PVC	896.47	NA
MW-68B	1/2	J7		MR	06/19/92	97-107	Alluvium	2	P	PVC	896.77	NA
MW-69A	1/2	J8		HSA	07/09/92	65-80	Alluvium	2	P	PVC	898.02	NA
MW-69B	1/2	J8		MR	06/21/92	108.8-118.8	Alluvium	2	P	PVC	898.23	NA
MW-70A	1/2	K8		HSA	06/22/92	62-77	Alluvium	2	P	PVC	895.68	NA
MW-70B	1/2	K8		HSA	07/10/92	77-82	Alluvium	2	P	PVC	895.67	NA
MW-71A	1/2	K8		MR	06/17/92	57-72	Alluvium	2	P	PVC	894.70	NA
MW-71B	1/2	K8	4	MR	07/09/92	79-89	Both	2	P	PVC	894.89	11/23/11
MW-72	5	N7		HSA	09/09/98	34-49	Both	2	P	PVC	899.26	11/23/11
MW-73	5	N7		HSA	09/09/98	32-47	Both	2	P	PVC	899.71	11/23/11
MW-74A	1/2	J8		HSA	07/08/03	66-76	Alluvium	2	P	PVC	896.08	NA
MW-74B	1/2	J8	4	MR	07/09/03	95-100	Bedrock	2	P	PVC	895.88	NA
MW-75	1/2	K8	4	HSA	07/11/03	56-66	Bedrock	2	P	PVC	890.61	NA

TABLE 1

WELL CONSTRUCTION INFORMATION

Well/Piezometer ID (description/comment)	Plume	Grid Coord.	FN	Drilling Method	Completion Date or Year	Screened Interval (ft bgs)	Screened In (description of material)	Casing Dia- meter (inches)	Well Top Type	Casing/ Screen Material	Top of Casing Elevation (ft MSL)	Date of Abandonment
MW-76A	1/2	K7		Sonic	09/22/10	65-80	Alluvium	2	F	PVC	894.80	NA
MW-76B	1/2	K7		Sonic	09/22/10	95-100	Alluvium	2	F	PVC	895.12	NA
MW-77A	1/2	K7		Sonic	09/22/10	65-80	Alluvium	2	F	PVC	895.22	NA
MW-77B	1/2	K7		Sonic	09/21/10	95-100	Alluvium	2	F	PVC	895.21	NA
MW-77C	1/2	K7		Sonic	09/21/10	115-120	Alluvium	2	F	PVC	895.18	NA
PW-1	1/2	K7		HSA	01/05/94	65-75	Alluvium	2		PVC	898.28	09/08/08
PW-2 (approved for aband.-kept for WL measurements)	1/2	K7		HSA	01/03/94	66-76	Alluvium	2		PVC	894.71	NA
PW-3	1/2	K7		HSA	07/12/94	69-79	Alluvium	2		PVC	898.83	06/15/96
PW-3R	1/2	K7		HSA	11/22/96	69-79	Alluvium	2	F	PVC	896.21	08/18/17
PW-4	1/2	K7		HSA	07/12/97	68-78	Alluvium	2		PVC	895.59	09/08/08
PW-5	1/2	K7		HSA	07/13/94	67-77	Alluvium	2		PVC	886.93	01/15/04
PW-67 (Owner: Joles)	5	M4		--	--	--	--	--		--	--	NA
PW-218 (Owner: Martens)	5	M4		--	--	--	--	--		--	--	NA
PW-230 (Owner: Ihlenfeld)	5	M4		--	--	--	--	--		--	--	NA
RW-1	1/2	F7		HSA	12/12/85	60.5-112.5	Alluvium	2		PVC	887.19	07/27/09
RW-2A	1/2	J7		HSA	01/03/86	69-79	Alluvium	2	P	PVC	897.18	NA
RW-2B	1/2	J7		HSA	01/04/86	91-101	Alluvium	2	P	PVC	896.78	NA
RW-2C	1/2	J7		HSA	12/15/85	108-118	Alluvium	2	P	PVC	897.57	NA
RW-3A	1/2	C6		HSA	12/19/85	79-89	Alluvium	2	P	PVC	881.78	NA
RW-3B	1/2	C6		HSA	01/07/86	96-106	Alluvium	2	P	PVC	881.48	NA
RW-3C	1/2	C6		HSA	01/05/86	108.5-118.5	Alluvium	2	P	PVC	881.30	NA
RW-4	1/2	H9	4	HSA	02/04/86	53-78	Both	2		PVC	884.65	09/10/08
RW-5 (approved for abandonment, but can't find)	1/2	D8		HSA	01/18/86	82-112	Alluvium	2		PVC	882.19	NA
RW-6	1/2	D7	4	HSA	02/11/86	78.5-103.5	Both	2		PVC	883.89	09/03/08
RW-7	1/2	H6		HSA	01/29/86	68-118	Alluvium	2		PVC	890.71	09/10/08
RW-8	1/2	G5		HSA	02/05/86	64-109	Alluvium	2		PVC	889.12	09/09/08
RW-9	1/2	D4		HSA	01/20/86	75.5-105.5	Alluvium	2		PVC	886.62	09/10/08
RW-10	1/2	D6		HSA	07/21/87	70-120	Alluvium	2		PVC	888.28	09/04/08
RW-11	1/2	E5		HSA	07/21/87	65-120	Alluvium	2		PVC	890.45	09/03/08
RW-12	1/2	F6		HSA	07/22/87	60-120	Alluvium	2		PVC	891.01	07/27/09
RW-13	1/2	F8	4	HSA	08/11/87	65-75	Bedrock	2		PVC	885.57	09/03/08
RW-14	1/2	H7		HSA	07/24/87	54-114	Alluvium	2		PVC	888.06	07/27/09
RW-15	1/2	J7		HSA	07/24/87	52-92	Alluvium	2	P	PVC	874.76	NA
RW-16	1/2	G7		HSA	07/28/87	63-73	Alluvium	2	P	SS	888.87	NA
RW-16B	1/2	G7		HSA	02/06/91	103-113	Alluvium	2	P	PVC	889.66	NA
RW-16C	1/2	G7		MR	01/31/91	142.5-152.5	Alluvium	2	P	PVC	890.01	NA
RW-17 (approved for abandonment, but can't find)	1/2	G7		HSA	07/29/87	60-70	Alluvium	2		SS	890.24	NA
RW-18 (PW-6 on Indianhead property?)	1/2	H8	3	HSA	07/29/87	62-72	Alluvium	2		SS	890.62	Unknown
RW-19	1/2	G7		HSA	07/30/87	60-70	Alluvium	2	P	SS	888.57	12/01/11
RW-20	1/2	G7		HSA	07/30/87	64-74	Alluvium	2		SS	889.43	05/15/95
RW-21	1/2	G6		HSA	07/31/87	63-73	Alluvium	2		SS	890.39	02/15/95
RW-22	1/2	G7		HSA	07/31/87	62-72	Alluvium	2	P	SS	887.42	12/01/11
RW-23 (not found)	1/2	H7		HSA	07/31/87	61-71	Alluvium	2		SS	890.30	NA
RW-24	1/2	E6		HSA	08/01/87	66-76	Alluvium	2		SS	886.52	09/04/08
RW-25 (approved for abandonment, but can't find)	1/2	G3	4	HSA	08/13/87	55-65	Bedrock	2		PVC	926.22	NA
WW-1	--	--		HSA	08/08/85	30-40	--	2		PVC	945.05	10/16/01
WW-2	--	--		HSA	08/10/85	57.5-67.5	--	2		PVC	900.53	NA
WW-3	3/4	K5		HSA	07/27/85	63.2-73.2	--	2		PVC	891.45	12/12/91
WW-3B	3/4	K5		MR	06/19/89	138.5-148.5	Alluvium	2		PVC	888.98	12/12/91
WW-4	--	--		HSA	08/07/85	70-80	--	2		PVC	904.18	07/26/06
WW-5	3/4	K4		HSA	08/01/85	69-79	--	2		PVC	892.55	09/09/08
WW-5P	3/4	K4		HSA	10/01/85	104-109	--	2		PVC	892.69	09/09/08
WW-6	1/2	I6		HSA	07/31/85	57.8-67.8	--	2		PVC	889.46	09/09/08
WW-7	1/2	I4		HSA	08/08/85	15-25	--	2		PVC	893.19	09/08/08
WW-8	3/4	J2		HSA	08/01/85	16.75-26.75	--	2		PVC	846.94	09/08/08

TABLE 1

WELL CONSTRUCTION INFORMATION

Well/Piezometer ID (description/comment)	Plume	Grid Coord.	FN	Drilling Method	Completion Date or Year	Screened Interval (ft bgs)	Screened In (description of material)	Casing Dia- meter (inches)	Well Top Type	Casing/ Screen Material	Top of Casing Elevation (ft MSL)	Date of Abandonment
WW-9	3/4	N3		HSA	08/06/85	74.9-84.9	--	2		PVC	901.71	08/19/99
WW-9P	3/4	N3		HSA	07/25/85	105-115	--	2		PVC	901.63	08/19/99
WW-10	3/4	J6		HSA	10/02/85	60-70	--	2		PVC	889.10	05/07/99
WW-10P	3/4	J6		HSA	10/02/85	91.3-96.3	--	2		PVC	889.19	05/07/99
WW-11	5	N6		HSA	09/26/85	36.5-46.5	--	2		PVC	901.36	09/05/08
WW-11P	5	N6		HSA	09/30/85	72-77	--	2		PVC	901.16	09/05/08
WW-12 (not found)	3/4	J4		HSA	09/27/85	17-27	--	2		PVC	892.25	NA
WW-13	4	L5		HSA	10/01/85	67-77	--	2	P	PVC	905.45	11/29/11
WW-14	5	O4		HSA	05/07/85	70-80	--	2		PVC	899.72	09/10/08
WW-15	1/2	I8		HSA	10/03/85	53-63	Alluvium	2	P	PVC	882.61	NA
WW-15B	1/2	I8		HSA	02/06/91	95.6-105.6	Alluvium	2	F	PVC	879.97	11/23/11
WW-15C	1/2	I8		MR	02/01/91	137-147	Alluvium	2	F	PVC	879.76	11/23/11
WW-16	1/2	H8		HSA	10/02/86	57-67	--	2		PVC	885.63	09/10/08
WW-17	1/2	H5		HSA	10/01/85	13-23	--	2		PVC	887.21	09/08/08
WW-18	1/2	I5		HSA	10/01/85	16-26	--	2		PVC	890.84	09/08/08
WW-19	3/4	J3		HSA	09/28/85	20-30	--	2		PVC	894.02	11/30/11
Hallie Golf Course	110th Avenue			--	--	TD = 86	--	6.5		--	--	09/05/08
Don & Bonnie Berg	11265 16th Ave			--	--	TD = 73.4	--	4		--	--	09/09/08

TABLE 1

WELL CONSTRUCTION INFORMATION

NOTES:

Red font in the "Well/Piezometer ID" column indicates the well/piezometer is abandoned or lost/destroyed (109).

Purple font in the "Well/Piezometer ID" column indicates well is approved for abandonment (but 5 not found, EC-7 kept by City, and PW-2 kept for water level measurements).

Blue font in the "Plume" column indicates well not found (12).

Melby Rd. wells MW-62B/C and MW-5A/B and East Disposal Site wells MW-17A, MW-72, and MW-73 were resurveyed by Ayres in December 1998.

Site datum = Mean sea level (MSL)

AR = Air rotary

CT = Cable tool

CW = City production well

EC = City monitoring well

EW = NPI extraction well

F = Flush-mount well

FN = Footnote (see below)

HSA = Hollow stem auger

MR = Mud rotary

MW = NPI monitoring well

NA = Not abandoned

P = Pro top well

PW = NPI petroleum UST well

RW = EPA monitoring well

Screened Interval = Depth in feet below ground surface (ft bgs) of screened interval

SS = Stainless steel

WW = WDNR monitoring well

-- = Not available/unknown

FOOTNOTES:

(1) Converted to/replaced by EW-1R in August 1995.

(2) Pre-remedial investigation monitoring well.

(3) Well was lost/destroyed in year shown in "Date of Abandonment" column.

(4) Denotes a well screened in sandstone bedrock or both bedrock and alluvium (i.e., sand and gravel glacial outwash).

NATIONAL PRESTO INDUSTRIES, INC.
EAU CLAIRE, WISCONSIN

TABLE 2A

EMISSION THRESHOLD INFO FROM TABLE A IN NR 445.07 FOR DETECTED VOCs IN SVE EXHAUST GAS SAMPLES

Hazardous Air Contaminant	Detected VOCs ^(1,2)			Emission Threshold ⁽³⁾ (lb/hr or lb/yr)	Time Period for Threshold	Control Requirement ⁽⁴⁾
	Main Bldg. SVE	MRDS SVE	MW-34/70 Area SVE			
Acetone	X	X	X	Not regulated	na	na
Benzene	X			228	Annual	LAER
2- Butanone (MEK)	X	X	X	Not regulated	na	na
Carbon disulfide	X			124,381	Annual	na
"	X			1.67	24-hr avg	na
Carbon tetrachloride	X			118	Annual	BACT
Chlorobenzene	X			2.47	24-hr avg	na
Chloroethane	X	X		14.2	24-hr avg	na
"	X	X		1,776,876	Annual	na
Chloroform	X			2.62	24-hr avg	na
"	X			77.3	Annual	BACT
Chloromethane	X			5.55	24-hr avg	na
1,1-Dichloroethane	X	X	X	21.7	24-hr avg	na
1,1-Dichloroethene	X			1.06	24-hr avg	na
1,2-Dichloroethene (combined)	X		X	42.6	24-hr avg	na
Ethylbenzene	X	X		23.3	24-hr avg	na
"	X	X		177,688	Annual	na
2-Hexanone	X			1.1	24-hr avg	na
Methylene chloride	X			9.33	24-hr avg	na
"	X			3,781	Annual	BACT
4-Methyl-2-pentanone (Methyl isobutyl ketone)	X			11	24-hr avg	na
Tetrachloroethene	X	X	X	9.11	24-hr avg	na
"	X	X	X	301	Annual	BACT
Toluene	X	X		71,075	Annual	na
"	X	X		10.1	24-hr avg	na
1,1,1-Trichloroethane	X	X	X	Not regulated	na	na
Trichloroethene	X	X	X	888	Annual	BACT
"	X	X	X	14.4	24-hr avg	na
Xylenes (mixtures and isomers, combined)	X	X		23.3	24-hr avg	na

NOTES:

Emission thresholds are in lb/hr or lb/yr based on time period shown.

NR 445.07 Table A thresholds are from Wisconsin Administrative Code updated March 2016, and the NR 406.04(2) emission limit for total VOCs is 5.7 lb/hr.

1,2-Dichloroethene = cis-1,2-Dichloroethene and trans-1,2-Dichloroethene concentrations, combined.

Xylenes = m&p-Xylene and o-Xylene concentrations, combined.

BACT = Best available control technology.

LAER = Lowest achievable emission rate.

na = Not applicable.

FOOTNOTES:

(1) For MRDS SVE - includes only those USEPA TCL VOCs historically detected at or above 0.1 µg/ℓ in one or more samples, as shown.

(2) For MW-34/70 Area SVE - includes only those USEPA TCL VOCs historically detected at or above 0.1 µg/ℓ in one or more samples.

(3) Listed thresholds are for emissions from stacks < 25 ft high.

(4) Control listed is required if emissions exceed threshold shown, unless other conditions are met.

NATIONAL PRESTO INDUSTRIES, INC.
EAU CLAIRE, WISCONSIN

TABLE 2B

SUMMARY OF AIR EMISSIONS FROM/TCE REMOVAL BY NPI SVE SYSTEMS (2014-2017)⁽¹⁾

Year	Main Building SVE ⁽²⁾					MRDS SVE ⁽³⁾				MW-34/70 Area SVE ⁽⁴⁾					Combined ⁽⁵⁾	
	TCE			Total VOCs		TCE		Total VOCs		TCE			Total VOCs		Total VOCs	
	Hourly (lb/hr)	Annual (lb)	Cumulative (lb)	Hourly (lb/hr)	Annual (lb)	Hourly (lb/hr)	Annual (lb)	Hourly (lb/hr)	Annual (lb)	Hourly (lb/hr)	Annual (lb)	Cumulative (lb)	Hourly (lb/hr)	Annual (lb)	Hourly (lb/hr)	Annual (lb)
2014	NI	NI	NI	NI	NI	NC	NC	0.0012	1.9	0.0011	5.1	125.1	0.0012	5.2	0.0024	7.1
2015	0.00038	1.8	1.8	0.0033	16.2	NC	NC	0.00014	0.93	0.00075	3.4	128.5	0.00086	3.9	0.00430	21.03
2016	0.00085	2.6	4.4	0.0035	10.1	NC	NC	0.00024	1.2	0.0013	5.7	134.2	0.0015	6.7	0.00524	18.0
2017	0.00140	8.7	13.1	0.0017	11.3	NC	NC	0.00031	0.61	0.0010	4.3	138.5	0.0012	5.0	0.00321	16.91

NOTES:

The exhaust gas from each of the three SVE systems is discharged directly into the atmosphere through a stack <25 feet high.

SVE system exhaust gas samples were analyzed for the 34 volatile organic compounds (VOCs) on USEPA's target compound list (TCL) through 2015. Starting in 2016, exhaust gas samples were analyzed for:

TCE, TCA, PCE, and 1,1-DCA from the main building and MRDS SVE systems.

TCE from the MW-34/70 Area system.

NC = Not calculated because TCE was not detected in the MRDS SVE system exhaust gas at least once during the year and total VOC emissions are not elevated.

NI = Not installed and operating.

DCA = 1,1,-Dichloroethane.

PCE = Tetrachloroethylene.

TCA = 1,1,1-Trichloroethane.

TCE = Trichloroethylene.

Total VOCs = Summation of detected TCL VOCs for 2014 and 2015.

Total VOCs = Summation of detected TCE, TCA, PCE, & 1,1-DCA starting in 2016 for the main building & MRDS SVE systems.

Total VOCs = TCE/0.85 starting in 2016 for the MW-34/70 Area SVE system, based on historical data prior to 2016.

FOOTNOTES:

(1) Hourly rates shown are the maximum estimated rate for each year shown. See Table 2A for compound-specific emission thresholds. The NR 406.04(2) emission limit for total VOCs is 5.7 lb/hr.

(2) The main building SVE system began full-time operation in January 2015.

(3) The MRDS system completed a 6-month trial seasonal shut down 12/6/16-6/5/17.

(4) The exhaust gas from the MW-34/70 area SVE system is sampled only annually and then typically during one of the warm summer months. Consequently, its total mass estimates are biased high.

(5) Combined = Summation of air emissions from the SVE systems that operated during a given year.

NATIONAL PRESTO INDUSTRIES, INC.
EAU CLAIRE, WISCONSIN

TABLE 3

2017 WATER LEVEL MEASUREMENTS⁽¹⁾

Well Group/ Well ID	Measuring Point Elevation (ft MSL)		3/20-22/2017 (Q1)		6/12-14/2017 (Q2)		08/28-29/2017 (Q3)		12/12-14/2017 (Q4)	
	Q1-Q3	Q4	Depth to Water (ft)	Water Level Elevation (ft MSL)	Depth to Water (ft)	Water Level Elevation (ft MSL)	Depth to Water (ft)	Water Level Elevation (ft MSL)	Depth to Water (ft)	Water Level Elevation (ft MSL)
Southwest Corner to the ECMWF (Plume 1/2)										
EW-5	889.90	889.90	67.30	822.60	66.98	822.92	65.97	823.93	66.24	823.66
EW-6	894.89	894.89	68.02	826.87	77.47	817.42	76.72	818.17	79.23	815.66
MW-4A	897.25	897.25	67.64	829.61	67.51	829.74	66.52	830.73	66.85	830.40
MW-4B	896.65	896.65	67.64	829.01	67.50	829.15	66.50	830.15	NM	NM
MW-10A	894.60	894.60	64.55	830.05	64.21	830.39	63.44	831.16	63.80	830.80
MW-10B	894.91	894.91	65.10	829.81	64.78	830.13	63.81	831.10	64.16	830.75
MW-11A	897.20	897.20	NM	NM	68.51	828.69	67.59	829.61	67.93	829.27
MW-23A	895.99	895.99	69.52	826.47	69.25	826.74	68.36	827.63	68.68	827.31
MW-23B	895.95	895.95	69.22	826.73	68.95	827.00	68.06	827.89	68.40	827.55
MW-34A	895.36	895.36	67.60	827.76	67.36	828.00	66.33	829.03	66.66	828.70
MW-34B	895.28	895.28	67.55	827.73	67.34	827.94	66.30	828.98	66.60	828.68
MW-34C	895.25	895.25	67.45	827.80	67.23	828.02	66.22	829.03	66.54	828.71
MW-35A	888.28	888.28	NM	NM	62.99	825.29	NM	NM	NM	NM
MW-35B	888.02	888.02	NM	NM	62.71	825.31	NM	NM	NM	NM
MW-37A	885.55	885.55	NM	NM	59.33	826.22	NM	NM	NM	NM
MW-37B	885.27	885.27	NM	NM	59.05	826.22	NM	NM	NM	NM
MW-38A	884.89	884.89	59.09	825.80	58.70	826.19	57.96	826.93	58.06	826.83
MW-38B	884.82	884.82	58.93	825.89	58.60	826.22	57.83	826.99	58.08	826.74
MW-38C	884.83	884.83	58.95	825.88	58.62	826.21	57.83	827.00	58.22	826.61
MW-39A	896.17	896.17	69.63	826.54	69.47	826.70	68.55	827.62	68.87	827.30
MW-41A	884.04	884.04	NM	NM	59.02	825.02	NM	NM	NM	NM
MW-41B	883.84	883.84	NM	NM	58.85	824.99	NM	NM	NM	NM
MW-43A	885.34	885.34	NM	NM	60.51	824.83	NM	NM	NM	NM
MW-43B	885.35	885.35	NM	NM	60.53	824.82	NM	NM	NM	NM
MW-45A	886.20	886.20	NM	NM	66.80	819.40	NM	NM	66.62	819.58
MW-45B	886.26	886.26	NM	NM	66.82	819.44	NM	NM	66.85	819.41
MW-45C	886.05	886.05	NM	NM	66.61	819.44	NM	NM	66.62	819.43
MW-47A	888.39	888.39	NM	NM	65.92	822.47	NM	NM	NM	NM
MW-47B	888.24	888.24	NM	NM	65.70	822.54	NM	NM	NM	NM
MW-49A	883.04	883.04	NM	NM	80.41	802.63	NM	NM	NM	NM
MW-49B	883.02	883.02	NM	NM	80.41	802.61	NM	NM	NM	NM
MW-51A	884.02	884.02	67.26	816.76	67.05	816.97	NM	NM	NM	NM
MW-51B	883.99	883.99	NM	NM	66.97	817.02	NM	NM	NM	NM
MW-52A	884.13	884.13	70.01	814.12	69.88	814.25	NM	NM	NM	NM
MW-52B	884.12	884.12	NM	NM	69.80	814.32	NM	NM	NM	NM
MW-53A	887.93	887.93	NM	NM	79.64	808.29	NM	NM	NM	NM
MW-53B	888.25	888.25	NM	NM	79.76	808.49	NM	NM	NM	NM
MW-54A	882.42	882.42	79.05	803.37	79.52	802.90	NM	NM	NM	NM
MW-54B	882.43	882.43	79.12	803.31	79.60	802.83	NM	NM	NM	NM
MW-54C	882.54	882.54	79.05	803.49	79.51	803.03	NM	NM	NM	NM
MW-55A	881.75	881.75	NM	NM	81.92	799.83	NM	NM	NM	NM
MW-55B	882.08	882.08	NM	NM	82.29	799.79	NM	NM	NM	NM

TABLE 3

2017 WATER LEVEL MEASUREMENTS⁽¹⁾

Well Group/ Well ID	Measuring Point Elevation (ft MSL)		3/20-22/2017 (Q1)		6/12-14/2017 (Q2)		08/28-29/2017 (Q3)		12/12-14/2017 (Q4)	
	Q1-Q3	Q4	Depth to Water (ft)	Water Level Elevation (ft MSL)	Depth to Water (ft)	Water Level Elevation (ft MSL)	Depth to Water (ft)	Water Level Elevation (ft MSL)	Depth to Water (ft)	Water Level Elevation (ft MSL)
MW-55C	881.91	881.91	NM	NM	82.01	799.90	NM	NM	NM	NM
MW-57A	886.31	886.31	NM	NM	79.35	806.96	NM	NM	NM	NM
MW-57B	886.13	886.13	NM	NM	79.03	807.10	NM	NM	NM	NM
MW-60A	879.19	879.19	NM	NM	83.74	795.45	NM	NM	NM	NM
MW-60B	879.09	879.09	NM	NM	83.70	795.39	NM	NM	NM	NM
MW-61A	879.37	879.37	NM	NM	84.13	795.24	NM	NM	NM	NM
MW-61B	879.58	879.58	NM	NM	84.28	795.30	NM	NM	NM	NM
MW-68A	896.47	896.47	69.85	826.62	69.68	826.79	68.72	827.75	68.98	827.49
MW-68B	896.77	896.77	70.16	826.61	70.00	826.77	69.02	827.75	69.28	827.49
MW-69A	898.02	898.02	71.51	826.51	71.33	826.69	70.45	827.57	70.78	827.24
MW-69B	898.23	898.23	71.72	826.51	71.57	826.66	70.68	827.55	71.00	827.23
MW-70A	895.68	895.68	68.37	827.31	68.20	827.48	67.23	828.45	67.52	828.16
MW-70B	895.67	895.67	68.26	827.41	68.08	827.59	67.12	828.55	67.40	828.27
MW-71A	894.70	894.70	66.75	827.95	66.48	828.22	65.55	829.15	65.80	828.90
MW-74A	896.08	896.08	69.28	826.80	69.09	826.99	68.11	827.97	68.38	827.70
MW-74B	895.88	895.88	69.03	826.85	68.85	827.03	67.85	828.03	68.13	827.75
MW-75	890.61	890.61	57.44	833.17	56.78	833.83	56.02	834.59	56.46	834.15
MW-76A	894.80	894.80	67.90	826.90	67.92	826.88	66.93	827.87	67.18	827.62
MW-76B	895.12	895.12	68.25	826.87	68.27	826.85	67.25	827.87	67.52	827.60
MW-77A	895.22	895.22	68.43	826.79	68.26	826.96	67.29	827.93	67.55	827.67
MW-77B	895.21	895.21	68.40	826.81	68.23	826.98	67.27	827.94	67.53	827.68
MW-77C	895.18	895.18	68.35	826.83	68.19	826.99	67.21	827.97	67.52	827.66
PW-2	894.46	894.46	67.15	827.31	67.00	827.46	66.07	828.39	NM	NM
PW-3R	896.21	896.21	69.48	826.73	69.28	826.93	(2)	(2)	(2)	(2)
RW-2A	897.18	897.18	70.68	826.50	70.42	826.76	69.50	827.68	69.83	827.35
RW-2B	896.78	896.78	70.23	826.55	69.97	826.81	69.08	827.70	69.40	827.38
RW-2C	897.57	897.57	71.03	826.54	70.82	826.75	69.86	827.71	70.23	827.34
RW-3A	881.78	881.78	NM	NM	85.21	796.57	NM	NM	86.04	795.74
RW-3B	881.48	881.48	NM	NM	84.88	796.60	NM	NM	85.72	795.76
RW-3C	881.30	881.30	NM	NM	84.70	796.60	NM	NM	85.52	795.78
RW-15	874.76	874.76	64.06	810.70	63.69	811.07	62.94	811.82	63.18	811.58
RW-16	888.87	888.87	NM	NM	65.82	823.05	NM	NM	NM	NM
RW-16B	889.66	889.66	NM	NM	66.64	823.02	NM	NM	NM	NM
RW-16C	890.01	890.01	NM	NM	66.97	823.04	NM	NM	NM	NM
WW-15	882.61	882.61	57.18	825.43	56.90	825.71	56.10	826.51	56.37	826.24
Melby Road Disposal Site Area to Lake Hallie (Plumes 3/4)										
EW-1R	900.08	900.08	72.99	827.09	72.72	827.36	71.67	828.41	72.05	828.03
EW-2	901.46	901.46	74.13	827.33	73.88	827.58	72.81	828.65	73.20	828.26
MW-1	910.26	910.26	42.34	867.92	40.13	870.13	39.00	871.26	40.50	869.76
MW-5A	902.60	902.60	75.09	827.51	74.80	827.80	73.78	828.82	74.12	828.48
MW-5B	902.39	902.39	74.92	827.47	74.63	827.76	73.62	828.77	73.94	828.45
MW-6	904.70	904.70	77.33	827.37	77.07	827.63	76.13	828.57	76.45	828.25
MW-7	897.73	897.73	67.03	830.70	66.55	831.18	65.56	832.17	65.93	831.80
MW-8	904.24	904.24	76.30	827.94	75.93	828.31	75.01	829.23	75.27	828.97
MW-9A	905.30	905.30	77.62	827.68	77.31	827.99	76.37	828.93	76.62	828.68
MW-9B	905.30	905.30	77.80	827.50	77.49	827.81	76.54	828.76	76.78	828.52
MW-12A	896.95	896.95	67.85	829.10	67.52	829.43	66.50	830.45	66.82	830.13

TABLE 3

2017 WATER LEVEL MEASUREMENTS⁽¹⁾

Well Group/ Well ID	Measuring Point Elevation (ft MSL)		3/20-22/2017 (Q1)		6/12-14/2017 (Q2)		08/28-29/2017 (Q3)		12/12-14/2017 (Q4)	
	Q1-Q3	Q4	Depth to Water (ft)	Water Level Elevation (ft MSL)	Depth to Water (ft)	Water Level Elevation (ft MSL)	Depth to Water (ft)	Water Level Elevation (ft MSL)	Depth to Water (ft)	Water Level Elevation (ft MSL)
MW-13A	896.72	896.72	68.13	828.59	67.79	828.93	66.76	829.96	67.05	829.67
MW-18	898.38	898.38	63.68	834.70	62.97	835.41	62.23	836.15	62.69	835.69
MW-22A	900.79	900.79	73.75	827.04	73.53	827.26	72.60	828.19	72.84	827.95
MW-22B	900.75	900.75	73.94	826.81	73.71	827.04	72.28	828.47	73.02	827.73
MW-26A	890.17	890.17	NM	NM	64.44	825.73	NM	NM	63.83	826.34
MW-26B	890.03	890.03	NM	NM	64.62	825.41	NM	NM	64.01	826.02
MW-27A	890.20	890.20	NM	NM	65.90	824.30	NM	NM	NM	NM
MW-27B	890.15	890.15	NM	NM	65.86	824.29	NM	NM	NM	NM
MW-29A	892.72	892.72	NM	NM	73.83	818.89	NM	NM	NM	NM
MW-29B	892.49	892.49	NM	NM	73.44	819.05	NM	NM	NM	NM
MW-62AR	901.69	901.69	74.36	827.33	73.98	827.71	72.54	829.15	73.40	828.29
MW-62B	901.79	901.79	74.45	827.34	74.12	827.67	73.16	828.63	73.49	828.30
MW-62C	901.15	901.15	73.86	827.29	73.48	827.67	73.06	828.09	72.86	828.29
MW-63A	902.59	902.59	74.72	827.87	74.43	828.16	73.41	829.18	73.73	828.86
MW-63B	902.12	902.12	74.26	827.86	73.98	828.14	72.94	829.18	73.30	828.82
MW-65A	891.68	891.68	64.40	827.28	64.03	827.65	63.12	828.56	63.37	828.31
MW-65B	891.62	891.62	64.33	827.29	63.95	827.67	63.05	828.57	63.28	828.34
MW-65C	891.77	891.77	64.49	827.28	64.10	827.67	63.20	828.57	63.43	828.34
MW-66A	900.53	897.70	73.26	827.27	72.97	827.56	71.98	828.55	69.52	828.18
MW-66B	900.26	897.26	72.98	827.28	72.67	827.59	71.70	828.56	69.07	828.19
MW-66C	900.43	897.35	73.18	827.25	72.85	827.58	71.88	828.55	69.12	828.23
Eau Claire Municipal Well Field (ECMWF)										
EC-1	813.95	813.95	20.49	793.46	23.32	790.63	24.85	789.10	23.51	790.44
EC-2	814.44	814.44	NM	NM	24.03	790.41	NM	NM	NM	NM
EC-5	813.56	813.56	NM	NM	23.31	790.25	NM	NM	NM	NM
EC-6	813.19	813.19	NM	NM	23.35	789.84	NM	NM	NM	NM

NOTES:

MW-66A/B/C were changed from stickup to flush mount wells in Oct. 2017 and their measuring point elevations changed.
 NM = Not measured.

FOOTNOTES:

- (1) Wells that cannot be located are not shown including MW-46A/B/C, MW-50A/B, MW59A, RW-18, and RW-23.
- (2) Abandoned.

NATIONAL PRESTO INDUSTRIES, INC.
EAU CLAIRE, WISCONSIN

TABLE 4

NPI VOC ANALYTICAL RESULTS FROM SWC EXTRACTION WELLS EW-5 AND EW-6 (2014-2017)

Well ID	Sample Date	Sample Method/ MCL/ES/PAL	Sample Level	NPI Volatile Organic Compound (VOC) Concentration and Results Qualifier(s)									
				I,I-DCA	I,I-DCE	PCE	I,I-TCA	TCE					
				None/850/85	7/7/0.7	5/5/0.5	200/200/40	5/5/0.5					
EW-5 (extraction well at Grid Coordinate K7) ⁽¹⁾													
	04/14/14	G		0.16	U	0.41	U	0.50	U	0.50	U	0.6	J
	06/17/14	G		0.24	U	0.41	U	0.50	U	0.50	U	0.65	J
	09/18/14	G		0.24	U	0.41	U	0.50	U	0.50	U	0.52	J
	12/02/14	G		0.24	U	0.41	U	0.50	U	0.50	U	0.57	J
	03/24/15	G		0.24	U	0.41	U	0.50	U	0.50	U	0.33	U
	06/16/15	G		0.24	U	0.41	U	0.50	U	0.50	U	0.41	J
	09/22/15	H		0.24	U	0.41	U	0.50	U	0.50	U	0.33	U
	12/07/15	H		0.24	U	0.41	U	0.50	U	0.50	U	0.33	U
	03/21/16	H		0.24	U	0.41	U	0.50	U	0.50	U	0.66	J
	03/21/16	L		0.24	U	0.41	U	0.50	U	0.50	U	0.33	U
	06/13/16	L		0.24	U	0.41	U	0.50	U	0.50	U	0.34	J
	08/30/16	L		0.24	U	0.41	U	0.50	U	0.50	U	0.43	J
	12/06/16	H		0.24	U	0.41	U	0.50	U	0.50	U	0.75	J
	12/06/16	L		0.24	U	0.41	U	0.50	U	0.50	U	0.33	U
	03/21/17	H		0.24	U	0.41	U	0.50	U	0.50	U	0.34	J
	03/21/17	L		0.24	U	0.41	U	0.50	U	0.50	U	0.47	J
	06/13/17	H		0.24	U	0.41	U	0.50	U	0.50	U	0.39	J
	06/13/17	L		0.24	U	0.41	U	0.50	U	0.50	U	0.33	U
	08/28/17	H		0.24	U	0.41	U	0.50	U	0.50	U	0.37	J
	08/28/17	L		0.24	UA	0.41	UA	0.50	UA	0.50	UA	0.40	JA
	12/13/17	H		0.24	U	0.41	U	0.50	U	0.50	U	0.64	J
	12/13/17	L		0.24	U	0.41	U	0.50	U	0.50	U	0.36	J
EW-6 (extraction well at Grid Coordinate K7) ⁽²⁾													
	04/18/14	G		0.26	J	0.41	U	0.50	U	1.4		0.73	J
	06/17/14	G		0.24	U	0.41	U	0.50	U	1.5		0.85	J
	09/18/14	G		0.24	U	0.41	U	0.50	U	1.2		0.71	J
	12/02/14	G		0.24	U	0.41	U	0.50	U	1.2		0.79	J
	03/24/15	G		0.24	U	0.41	U	0.50	U	1.2		0.99	J
	06/16/15	G		0.24	U	0.41	U	0.50	U	1.4		0.71	J
	09/22/15	G		0.24	U	0.41	U	0.50	U	1.4		0.79	J
	12/08/15	G		0.24	U	0.41	U	0.50	U	0.86	J	0.58	J
	03/21/16	G		0.24	U	0.41	U	0.50	U	1.3		0.75	J
	06/13/16	G		0.24	U	0.41	U	0.50	U	1.5		0.81	J
	08/30/16	G		0.24	U	0.41	U	0.50	U	1.1		0.73	J
	12/06/16	G		0.24	U	0.41	U	0.50	U	1.2		0.70	J
	03/21/17	H		0.24	U	0.41	U	0.50	U	0.50	U	0.33	U
	06/13/17	G		0.24	U	0.41	U	0.50	U	1.4		0.75	J
	08/28/17	G		0.24	UA	0.41	UA	0.50	UA	1.3	A	0.82	JA
	12/13/17	G		0.24	UA	0.41	UA	0.50	UA	1.3	A	0.705	JA

TABLE 4

NPI VOC ANALYTICAL RESULTS FROM SWC EXTRACTION WELLS EW-5 AND EW-6 (2014-2017)

NOTES:

Concentrations are in micrograms per liter ($\mu\text{g/L}$)/parts per billion (ppb).

Detected concentrations at or above an applicable NR 140 PAL are in red font and italicized.

Detected concentrations at or above an applicable MCL/NR 140 ES are in red font and bold.

A = Average of original sample and duplicate. Began this approach in 2014.

B = Compound detected in blank.

CSH = Check standard for this analyte exhibited a high bias. Sample results may also be biased high.

CSL = Check standard for this analyte exhibited a low bias. Sample results may also be biased low.

D = Indicates initial analysis exceeded the calibration range, was diluted and re-analyzed.

Dup = Result of duplicate analysis in this quality assurance batch exceeds the limits for precision.

E = Concentration exceeds calibration range of instrument.

ISH = Internal standard recovery exceeds normal limits. Sample results may be biased low.

J = Estimated concentration below laboratory quantitation level.

MSH = Matrix spike recovery within analytical batch was high. Sample matrix appears similar to your sample; result may be biased high.

MSL = Matrix spike recovery within analytical batch was low. Sample matrix appears similar to your sample; result may be biased low.

NA = Not analyzed.

ND = Not detected at or above the detection limit.

NS = Not sampled.

R = Unusable.

S1H = First sample matrix spike recovery was high.

S2H = Second sample matrix spike recovery was high.

SPH = Matrix spike recovery within analytical batch was high. Sample matrix appears similar to your sample; result may be biased high.

SPL = Matrix spike recovery within analytical batch was low. Sample matrix appears similar to your sample; result may be biased low.

U = Compound not detected at or above the detection limit, which is the value shown.

SAMPLE METHOD/LEVEL KEY:

B = Bailer.

G = Grab sample collected from sample tap while the extraction well was pumping groundwater.

HS = HydraSleeve.

LF = Low flow.

PDB = Passive diffusion bag.

H = PDB or HS in upper portion of saturated screened interval.

M = PDB or HS in middle portion of saturated screened interval.

L = PDB or HS in lower portion of saturated screened interval.

FOOTNOTES:

(1) EW-5 has been shut down since Sept 2015, as approved by both agencies.

(2) EW-6 was temporarily shut down 01/16/17-04/27/17, as approved by both agencies.

NATIONAL PRESTO INDUSTRIES, INC.
EAU CLAIRE, WISCONSIN

TABLE 5

NPI VOC ANALYTICAL RESULTS FROM PLUME 1/2 MONITORING WELLS (2014-2017)

Well ID	Sample Date	Sample Method/ MCL/ES/PAL	Level	NPI Volatile Organic Compound (VOC) Concentration and Results Qualifier(s)									
				1,1-DCA		1,1-DCE		PCE		1,1,1-TCA		TCE	
				None/850/85		7/7/0.7		5/5/0.5		200/200/40		5/5/0.5	
EC-1 (monitoring well at Grid Coordinate C7)													
	04/17/14	M	0.25	U	0.24	U	0.25	U	0.25	U	1.3		
	06/18/14	M	0.24	U	0.41	U	0.50	U	0.50	U	1.5		
	09/17/14	M	0.24	U	0.41	U	0.50	U	0.50	U	0.33	U	
	12/03/14	M	0.24	U	0.41	U	0.50	U	0.50	U	0.35	J	
	03/25/15	M	0.24	U	0.41	U	0.50	U	0.50	U	1.9		
	06/17/15	M	0.24	U	0.41	U	0.50	U	0.50	U	0.61	J	
	09/23/15	M	0.24	U	0.41	U	0.50	U	0.50	U	2.0	Dup	
	12/07/15	M	0.24	U	0.41	U	0.50	U	0.50	U	1.5		
	03/22/16	M	0.24	U	0.41	U	0.50	U	0.50	U	1.6		
	06/15/16	M	0.24	U	0.41	U	0.50	U	0.50	U	1.2		
	12/07/16	M	0.24	U	0.41	U	0.50	U	0.50	U	1.5		
	03/21/17	M	0.24	U	0.41	U	0.50	U	0.50	U	1.6		
	06/14/17	M	0.24	U	0.41	U	0.50	U	0.50	U	0.88	J	
	08/29/17	M	0.24	U	0.41	U	0.50	U	0.50	U	1.2		
	12/13/17	M	0.24	UA	0.41	UA	0.50	UA	0.50	UA	1.6	A	
EC-2 (monitoring well at Grid Coordinate C7)													
	06/18/14	M	0.24	UA	0.41	UA	0.50	UA	0.50	UA	0.33	UA	
	06/17/15	M	0.24	U	0.41	U	0.50	U	0.50	U	0.33	U	
	06/15/16	M	0.24	U	0.41	U	0.50	U	0.50	U	0.33	U	
	06/14/17	M	0.24	U	0.41	U	0.50	U	0.50	U	0.33	U	
EC-5 (monitoring well at Grid Coordinate C7)													
	06/18/14	M	0.24	U	0.41	U	0.50	U	0.50	U	0.33	U	
	06/17/15	M	0.24	U	0.41	U	0.50	U	0.50	U	0.33	U	
	06/15/16	M	0.24	U	0.41	U	0.50	U	0.50	U	0.33	U	
	06/14/17	M	0.24	U	0.41	U	0.50	U	0.50	U	0.33	U	
EC-6 (monitoring well at Grid Coordinate C7)													
	06/18/14	M	0.24	U	0.41	U	0.50	U	0.50	U	0.33	U	
	06/17/15	M	0.24	U	0.41	U	0.50	U	0.50	U	0.33	U	
	06/15/16	M	0.24	U	0.41	U	0.50	U	0.50	U	0.33	U	
	06/14/17	M	0.24	U	0.41	U	0.50	U	0.50	U	0.33	U	
MW-4A (monitoring well at Grid Coordinate K7)													
	06/16/14	M	0.24	U	0.41	U	0.50	U	0.50	U	0.33	U	
	06/16/15	M	0.24	U	0.41	U	0.50	U	0.50	U	0.33	U	
	12/07/15	M	0.24	U	0.41	U	0.50	U	0.50	U	0.33	U	
	03/21/16	M	0.24	U	0.41	U	0.50	U	0.50	U	0.33	U	
	06/13/16	M	0.24	U	0.41	U	0.50	U	0.50	U	0.33	U	
	08/31/16	M	0.24	U	0.41	U	0.50	U	0.50	U	0.33	U	
	12/05/16	M	0.24	U	0.41	U	0.50	U	0.50	U	0.33	U	
	03/21/17	M	0.24	U	0.41	U	0.50	U	0.50	U	0.33	U	
	06/13/17	M	0.24	U	0.41	U	0.50	U	0.50	UJ	0.33	U	
	08/28/17	M	0.24	U	0.41	U	0.50	U	0.50	U	0.33	U	
	12/12/17	M	0.24	UA	0.41	UA	0.50	UA	0.50	UA	0.33	UA	

TABLE 5

NPI VOC ANALYTICAL RESULTS FROM PLUME 1/2 MONITORING WELLS (2014-2017)

Well ID	Sample Date	Sample Method/ MCL/ES/PAL	NPI Volatile Organic Compound (VOC) Concentration and Results Qualifier(s)									
			1,1-DCA		1,1-DCE		PCE	1,1,1-TCA		TCE		
	Level	None/850/85	7/7/0.7		5/5/0.5		200/200/40		5/5/0.5			
MW-4B (piezometer at Grid Coordinate K7)												
	04/15/14	M	0.16	U	0.41	U	0.50	U	0.50	U	0.87	J
	06/16/14	M	0.24	U	0.41	U	0.50	U	0.50	U	0.8	J
	09/15/14	M	0.24	U	0.41	U	0.50	U	0.50	U	0.52	J
	12/01/14	M	0.24	U	0.41	U	0.50	U	0.50	U	0.77	JA
	03/23/15	M	0.24	U	0.41	U	0.50	U	0.50	U	0.79	J
	06/16/15	M	0.24	U	0.41	U	0.50	U	0.50	J	0.75	J
	09/22/15	M	0.24	U	0.41	U	0.50	U	0.50	J	1.1	
	12/07/15	M	0.24	U	0.41	U	0.50	U	0.50	U	0.33	U
	03/21/16	M	0.24	U	0.41	U	0.50	U	0.50	U	0.43	J
	06/13/16	M	0.24	U	0.41	U	0.50	U	0.50	U	0.83	J
	08/31/16	M	0.24	U	0.41	U	0.50	U	0.50	U	0.39	JA
	12/05/16	M	0.24	U	0.41	U	0.50	U	0.50	U	0.43	J
	03/21/17	M	0.24	U	0.41	U	0.50	U	0.50	U	0.33	U
	06/13/17	M	0.24	U	0.41	U	0.50	U	0.50	U	0.55	J
	08/28/17	M	0.24	U	0.41	U	0.50	U	0.50	U	0.38	J
	12/12/17	M	0.24	U	0.41	U	0.50	U	0.50	U	0.38	J
MW-10A (monitoring well at Grid Coordinate K8)												
	04/16/14	NR	0.55	J	0.41	U	0.50	U	0.50	U	0.33	U
MW-10B (piezometer at Grid Coordinate K8)												
	04/16/14	NR	0.49	JA	0.41	UA	0.50	UA	0.50	UA	0.33	UA
MW-23A (monitoring well at Grid Coordinate J7)												
	06/17/14	M	0.24	U	0.41	U	0.50	U	0.50	U	1.9	
	12/02/14	M	0.24	U	0.41	U	0.50	U	0.50	U	1.4	
	06/15/15	M	0.24	U	0.41	U	0.50	U	0.50	U	1.6	
	12/08/15	M	0.24	U	0.41	U	0.50	U	0.50	U	1.3	
	03/24/16	M	0.24	U	0.41	U	0.50	U	0.50	U	1.5	
	06/15/16	M	0.24	U	0.41	U	0.50	U	0.50	U	1.5	
	08/30/16	M	0.24	U	0.41	U	0.50	U	0.50	U	1.1	
	12/06/16	M	0.24	U	0.41	U	0.50	U	0.50	U	1.04	JA
	03/21/17	M	0.24	U	0.41	U	0.50	U	0.50	U	1.35	A
	06/13/17	M	0.24	U	0.41	U	0.50	U	0.50	U	1.2	
	08/29/17	M	0.24	U	0.41	U	0.50	U	0.50	U	0.64	J
	12/14/17	M	0.24	U	0.41	U	0.50	U	0.50	U	0.84	J
MW-23B (piezometer at Grid Coordinate J7)												
	06/17/14	M	0.24	U	0.41	U	0.50	U	0.50	U	2.3	
	12/02/14	M	0.24	U	0.41	U	0.50	U	0.50	U	2.0	
	06/16/15	M	0.24	U	0.41	U	0.50	U	0.50	U	1.1	
	12/08/15	M	0.24	U	0.41	U	0.50	U	0.50	U	2.0	A
	03/22/16	M	0.24	U	0.41	U	0.50	U	0.50	U	1.8	
	06/15/16	M	0.24	U	0.41	U	0.50	U	0.50	U	2.1	
	08/30/16	M	0.24	U	0.41	U	0.50	U	0.50	U	1.9	
	12/06/16	M	0.24	U	0.41	U	0.50	U	0.50	U	1.9	
	03/21/17	M	0.24	U	0.41	U	0.50	U	0.50	U	2.0	
	06/13/17	M	0.24	U	0.41	U	0.50	U	0.50	U	2.1	
	08/29/17	M	0.24	U	0.41	U	0.50	U	0.50	U	1.8	
	12/14/17	M	0.24	U	0.41	U	0.50	U	0.50	U	1.6	

TABLE 5

NPI VOC ANALYTICAL RESULTS FROM PLUME 1/2 MONITORING WELLS (2014-2017)

Well ID	Sample Date	Sample Method/ Level	NPI Volatile Organic Compound (VOC) Concentration and Results Qualifier(s)									
			1,1-DCA		1,1-DCE		PCE		1,1,1-TCA		TCE	
			None/850/85		7/7/0.7		5/5/0.5		200/200/40		5/5/0.5	
MW-34A (monitoring well at Grid Coordinate K8)												
	06/16/14	M	0.91	J	0.41	U	0.50	U	0.50	U	0.43	J
	12/01/14	M	0.79	J	0.41	U	0.50	U	0.50	U	0.33	U
	06/15/15	M	0.71	J	0.41	U	0.50	U	0.50	U	0.33	U
	03/21/16	M	0.53	J	0.41	U	0.50	U	0.50	U	0.33	U
	06/13/16	HS	0.59	J	0.41	U	0.50	U	0.50	U	0.33	U
	08/29/16	M	0.5	J	0.41	U	0.50	U	0.50	U	0.33	U
	12/05/16	M	0.24	U	0.41	U	0.50	U	0.50	U	0.33	U
	03/20/17	M	0.24	U	0.41	U	0.50	U	0.50	U	0.33	U
	06/12/17	M	0.24	U	0.41	U	0.50	U	0.50	U	0.33	U
	08/28/17	M	0.28	J	0.41	U	0.50	U	0.50	U	0.33	U
	12/12/17	M	0.24	U	0.41	U	0.50	U	0.50	U	0.33	U
MW-34B (piezometer at Grid Coordinate K8)												
	12/07/15	HS	0.24	U	0.41	U	0.50	U	0.50	U	0.33	U
	03/24/16	M	0.24	U	0.41	U	0.50	U	0.50	U	0.33	U
	06/13/16	HS	0.24	U	0.41	U	0.50	U	0.50	U	0.33	U
	08/29/16	M	0.24	UA	0.41	UA	0.50	UA	0.50	UA	0.33	UA
	12/05/16	M	0.24	U	0.41	U	0.50	U	0.50	U	0.33	U
	03/20/17	M	0.24	U	0.41	U	0.50	U	0.50	U	0.33	U
	06/12/17	M	0.24	U	0.41	U	0.50	U	0.50	U	0.33	U
	08/28/17	M	0.24	U	0.41	U	0.50	U	0.50	U	0.33	U
	12/12/17	M	0.24	U	0.41	U	0.50	U	0.50	U	0.33	U
MW-34C (piezometer at Grid Coordinate K8)												
	12/07/15	HS	0.24	U	0.41	U	0.50	U	0.50	U	0.33	U
	03/21/16	M	0.24	U	0.41	U	0.50	U	0.50	U	0.33	U
	06/13/16	HS	0.24	U	0.41	U	0.50	U	0.50	U	0.33	U
	08/29/16	M	0.24	U	0.41	U	0.50	U	0.50	U	0.33	U
	12/05/16	M	0.24	U	0.41	U	0.50	U	0.50	U	0.33	U
	03/20/17	M	0.24	U	0.41	U	0.50	U	0.50	U	0.33	U
	06/12/17	M	0.24	U	0.41	U	0.50	U	0.50	U	0.33	U
	08/28/17	M	0.24	U	0.41	U	0.50	U	0.50	U	0.33	U
	12/12/17	M	0.24	U	0.41	U	0.50	U	0.50	U	0.33	U
MW-35A (monitoring well at Grid Coordinate I7)												
	06/18/14	M	0.24	U	0.41	U	0.50	U	0.61	J	2.3	
	06/16/15	M	0.24	U	0.41	U	0.50	U	0.50	U	1.6	
	06/14/16	M	0.24	U	0.41	U	0.50	U	0.50	U	1.0	
	06/14/17	M	0.24	UA	0.41	UA	0.50	UA	0.65	JA	1.9	A
MW-35B (piezometer at Grid Coordinate I7)												
	06/18/14	M	0.24	U	0.41	U	0.50	U	0.50	U	1.5	
	06/16/15	M	0.24	U	0.41	U	0.50	U	0.50	U	1.3	
	06/14/16	M	0.24	U	0.41	U	0.50	U	0.50	U	1	
	06/14/17	M	0.24	U	0.41	U	0.50	U	0.50	U	1.3	
MW-37B (piezometer at Grid Coordinate I7)												
	06/17/15	M	0.24	U	0.41	U	0.50	U	0.50	U	0.33	U
	06/14/17	M	0.24	U	0.41	U	0.50	U	0.50	U	0.33	U

TABLE 5

NPI VOC ANALYTICAL RESULTS FROM PLUME 1/2 MONITORING WELLS (2014-2017)

Well ID	Sample Date	Sample Method/ MCL/ES/PAL	NPI Volatile Organic Compound (VOC) Concentration and Results Qualifier(s)									
			1,1-DCA		1,1-DCE		PCE		1,1,1-TCA		TCE	
			None/850/85		7/7/0.7		5/5/0.5		200/200/40		5/5/0.5	
MW-38A (monitoring well at Grid Coordinate I8)												
	06/17/14	M	0.24	U	0.41	U	0.50	U	0.50	U	1.6	
	06/16/15	M	0.24	U	0.41	U	0.50	U	0.50	U	2.0	
	06/13/16	M	0.24	U	0.41	U	0.50	U	0.50	U	2.0	A
	06/13/17	M	0.24	U	0.41	U	0.50	U	0.50	U	2.0	
MW-38B (piezometer at Grid Coordinate I8)												
	06/17/14	M	0.24	U	0.41	U	0.50	U	0.50	U	3.0	
	12/04/14	M	0.24	U	0.41	U	0.50	U	0.50	U	1.8	
	06/16/15	M	0.24	U	0.41	U	0.50	U	0.57	J	3.4	
	12/08/15	M	0.24	U	0.41	U	0.50	U	0.50	U	3.3	
	06/13/16	M	0.24	U	0.41	U	0.50	U	0.79	J	3.7	
	12/06/16	M	0.24	U	0.41	U	0.50	U	0.65	J	3.2	
	06/13/17	M	0.24	U	0.41	U	0.50	U	0.60	J	3.7	
	12/13/17	M	0.24	U	0.41	U	0.50	U	0.54	J	3.0	
MW-38C (piezometer at Grid Coordinate I8)												
	06/17/14	M	0.24	U	0.41	U	0.50	U	0.50	U	2.2	
	06/16/15	M	0.24	U	0.41	U	0.50	U	0.50	U	1.5	
	06/13/16	M	0.24	U	0.41	U	0.50	U	0.50	U	1.5	
	06/13/17	M	0.24	U	0.41	U	0.50	U	0.50	U	1.4	
MW-41A (monitoring well at Grid Coordinate H8)												
	06/18/14	M	0.24	U	0.41	U	0.50	U	0.50	U	2.8	
	06/17/15	M	0.24	U	0.41	U	0.50	U	0.50	U	2.7	
	06/14/16	M	0.24	U	0.41	U	0.50	U	0.50	U	2.1	
	06/13/17	M	0.24	U	0.41	U	0.50	U	0.50	U	2.5	
MW-41B (piezometer at Grid Coordinate H8)												
	06/18/14	M	0.24	U	0.41	U	0.50	U	0.5	U	3	
	06/17/15	M	0.24	U	0.41	U	0.50	U	0.50	U	2.7	
	06/14/16	M	0.24	U	0.41	U	0.50	U	0.50	U	2.3	
	06/13/17	M	0.24	UA	0.41	UA	0.50	UA	0.50	UA	2.4	A
MW-43A (monitoring well at Grid Coordinate H7)												
	06/18/14	M	0.24	U	0.41	U	0.50	U	0.63	J	2.9	
	06/17/15	M	0.24	U	0.41	U	0.50	U	0.5	U	2.7	
	06/14/16	M	0.24	U	0.41	U	0.50	U	0.5	U	1.7	
	06/13/17	M	0.24	U	0.41	U	0.50	U	0.5	U	2.5	
MW-43B (piezometer at Grid Coordinate H7)												
	06/18/14	M	0.24	U	0.41	U	0.50	U	0.58	J	1.9	
	06/17/15	M	0.24	U	0.41	U	0.50	U	0.50	U	2.2	
	06/14/16	M	0.24	U	0.41	U	0.50	U	0.54	J	2.0	
	06/13/17	M	0.24	U	0.41	U	0.50	U	0.54	J	1.7	
MW-44A (abandoned monitoring well at Grid Coordinate F6)												
	06/16/15	M	0.24	U	0.41	U	0.50	U	0.50	U	0.33	U
MW-44B (abandoned piezometer at Grid Coordinate F6)												
	06/16/15	M	0.24	U	0.41	U	0.50	U	0.50	U	0.33	U
MW-45A (monitoring well at Grid Coordinate F6)												
	06/16/15	M	0.24	U	0.41	U	0.50	U	0.50	U	2.2	
	06/13/17	M	0.24	U	0.41	U	0.50	U	0.50	U	1.0	

TABLE 5

NPI VOC ANALYTICAL RESULTS FROM PLUME 1/2 MONITORING WELLS (2014-2017)

Well ID	Sample Date	Sample Method/ MCL/ES/PAL	NPI Volatile Organic Compound (VOC) Concentration and Results Qualifier(s)									
			1,1-DCA		1,1-DCE		PCE	1,1,1-TCA		TCE		
	Level	None/850/85	7/7/0.7		5/5/0.5		200/200/40		5/5/0.5			
MW-45B (piezometer at Grid Coordinate F6)												
	06/18/14	M	0.24	U	0.41	U	0.50	U	0.50	U	3.2	
	12/03/14	M	0.24	U	0.41	U	0.50	U	0.50	U	2.9	A
	06/16/15	M	0.24	U	0.41	U	0.50	U	0.50	U	2.7	
	12/08/15	M	0.24	U	0.41	U	0.50	U	0.50	U	0.78	J
	06/14/16	M	0.24	U	0.41	U	0.50	U	0.50	U	1.7	
	06/13/17	M	0.24	U	0.41	U	0.50	U	0.50	U	2.1	
	12/14/17	M	0.24	U	0.41	U	0.50	U	0.50	U	2.4	
MW-45C (piezometer at Grid Coordinate F6)												
	06/18/14	M	0.24	U	0.41	U	0.50	U	0.50	U	1.7	
	12/03/14	M	0.24	U	0.41	U	0.50	U	0.50	U	1.5	
	06/16/15	M	0.24	U	0.41	U	0.50	U	0.50	U	3.8	
	12/08/15	M	0.24	U	0.41	U	0.50	U	0.50	U	2.3	A
	06/14/16	M	0.24	U	0.41	U	0.50	U	0.50	U	2.9	
	06/13/17	M	0.24	U	0.41	U	0.50	U	0.50	U	3.0	
	12/14/17	M	0.24	U	0.41	U	0.50	U	0.50	U	3.1	
MW-47A (monitoring well at at Grid Coordinate G7)												
	06/17/15	M	0.24	U	0.41	U	0.50	U	0.50	U	0.76	J
	06/13/17	M	0.24	U	0.41	U	0.50	U	0.50	U	0.58	J
MW-47B (piezometer at Grid Coordinate G7)												
	06/17/15	M	0.24	U	0.41	U	0.50	U	0.50	U	0.33	U
	06/13/17	M	0.24	U	0.41	U	0.50	U	0.50	U	0.33	U
MW-49A (monitoring well at Grid Coordinate D6)												
	06/16/15	M	0.24	U	0.41	U	0.50	U	0.50	U	0.33	J
	06/13/17	M	0.24	U	0.41	U	0.50	U	0.50	U	0.67	J
MW-49B (piezometer at Grid Coordinate D6)												
	06/16/15	M	0.24	U	0.41	U	0.50	U	0.50	U	0.33	J
	06/13/17	M	0.24	U	0.41	U	0.50	U	0.50	U	0.33	U
MW-51A (monitoring well at Grid Coordinate F6)												
	06/16/15	M	0.24	U	0.41	U	0.50	U	0.50	U	0.33	U
	06/13/17	M	0.24	U	0.41	U	0.50	U	0.50	U	0.64	J
MW-51B (piezometer at Grid Coordinate F6)												
	06/19/14	M	0.24	U	0.41	U	0.50	U	0.58	J	4.00	
	06/16/15	M	0.24	U	0.41	U	0.50	U	0.50	U	4.5	
	06/15/16	M	0.24	U	0.41	U	0.50	U	0.51	J	4.5	
	06/13/17	M	0.24	UA	0.41	UA	0.50	UA	0.50	UA	4.2	A
MW-52A (monitoring well at Grid Coordinate F6)												
	06/19/14	M	0.24	U	0.41	U	0.50	U	0.51	J	3.6	
	06/16/15	M	0.24	U	0.41	U	0.50	U	0.51	J	3.0	
	06/14/16	M	0.24	U	0.41	U	0.50	U	0.50	U	4.4	
	06/13/17	M	0.24	U	0.41	U	0.50	U	0.50	U	3.7	
MW-52B (piezometer at Grid Coordinate F6)												
	06/19/14	M	0.24	U	0.41	U	0.50	U	0.50	U	0.37	JA
	06/16/15	M	0.24	UA	0.41	UA	0.50	UA	0.50	UA	3.35	A
	06/14/16	M	0.24	U	0.41	U	0.50	U	0.50	U	0.37	J
	06/13/17	M	0.24	U	0.41	U	0.50	U	0.51	J	5.0	
MW-53A (monitoring well at Grid Coordinate E6)												
	06/16/15	M	0.24	U	0.41	U	0.50	U	0.50	U	2.1	
	06/13/17	M	0.24	U	0.41	U	0.50	U	0.50	U	2.2	

TABLE 5

NPI VOC ANALYTICAL RESULTS FROM PLUME 1/2 MONITORING WELLS (2014-2017)

Well ID	Sample Date	Sample Method/ Level	NPI Volatile Organic Compound (VOC) Concentration and Results Qualifier(s)									
			1,1-DCA		1,1-DCE		PCE		1,1,1-TCA		TCE	
MCL/ES/PAL			None/850/85		7/7/0.7		5/5/0.5		200/200/40		5/5/0.5	
MW-53B (piezometer at Grid Coordinate E6)												
	06/19/14	M	0.24	U	0.41	U	0.50	U	0.50	U	2.8	
	06/16/15	M	0.24	U	0.41	U	0.50	U	0.50	U	3.7	
	06/14/16	M	0.24	U	0.41	U	0.50	U	0.50	U	0.8	J
	06/13/17	M	0.24	U	0.41	U	0.50	U	0.50	U	4.1	
MW-54A (monitoring well at Grid Coordinate D6)												
	06/16/15	M	0.24	U	0.41	U	0.50	U	0.50	U	0.33	U
	06/13/17	M	0.24	U	0.41	U	0.50	U	0.50	U	0.33	U
MW-54B (piezometer at Grid Coordinate D6)												
	06/18/14	M	0.24	U	0.41	U	0.5	U	0.5	J	3.1	
	06/16/15	M	0.24	U	0.41	U	0.5	U	0.5	J	3.6	
	06/14/16	M	0.24	U	0.41	U	0.5	U	0.5	J	3.8	
	06/13/17	M	0.24	U	0.41	U	0.5	U	0.5	J	4.5	
MW-54C (piezometer at Grid Coordinate D6)												
	06/19/14	M	0.24	U	0.41	U	0.50	U	0.50	U	5.0	
	06/16/15	M	0.24	U	0.41	U	0.50	U	0.50	J	2.5	
	06/14/16	M	0.24	U	0.41	U	0.50	U	0.57	J	4.7	
	06/13/17	M	0.24	UA	0.41	UA	0.50	UA	0.50	UA	4.5	A
MW-55B (piezometer at Grid Coordinate D6)												
	06/19/14	M	0.24	U	0.41	U	0.50	U	0.50	U	1.4	
	06/16/15	M	0.24	U	0.41	U	0.50	U	0.50	U	1.8	
	06/14/16	M	0.24	U	0.41	U	0.50	U	0.50	U	1.9	
	06/13/17	M	0.24	U	0.41	U	0.50	U	0.50	U	1.6	
MW-55C (piezometer at Grid Coordinate D6)												
	06/19/14	M	0.24	U	0.41	U	0.50	U	0.50	U	1.7	A
	06/16/15	M	0.24	U	0.41	U	0.50	U	0.50	U	0.33	U
	06/14/16	M	0.24	U	0.41	U	0.50	U	0.50	U	0.33	U
	06/13/17	M	0.24	U	0.41	U	0.50	U	0.50	U	0.33	U
MW-57A (monitoring well at Grid Coordinate E6)												
	06/16/15	M	0.24	U	0.41	U	0.50	U	0.50	U	0.33	U
	06/13/17	M	0.24	U	0.41	U	0.50	U	0.50	U	0.33	J
MW-57B (piezometer at Grid Coordinate E6)												
	06/16/15	M	0.24	U	0.41	U	0.50	U	0.50	U	0.33	U
	06/13/17	M	0.24	U	0.41	U	0.50	U	0.50	U	0.43	J
MW-60A (monitoring well at Grid Coordinate D7)												
	06/17/15	M	0.24	U	0.41	U	0.50	U	0.50	U	0.33	U
	06/14/17	M	0.24	U	0.41	U	0.50	U	0.50	U	0.33	U
MW-60B (piezometer at Grid Coordinate D7)												
	06/17/15	M	0.24	U	0.41	U	0.50	U	0.50	U	0.33	U
	06/14/17	M	0.24	U	0.41	U	0.50	U	0.50	U	0.33	U
MW-61A (monitoring well at Grid Coordinate C6)												
	06/17/15	M	0.24	U	0.41	U	0.50	U	0.50	U	0.33	U
	06/14/17	M	0.24	UA	0.41	UA	0.50	UA	0.50	UA	0.33	UA
MW-61B (piezometer at Grid Coordinate C6)												
	06/17/15	M	0.24	U	0.41	U	0.50	U	0.50	U	0.42	J
	06/14/17	M	0.24	UA	0.41	UA	0.50	UA	0.50	UA	0.435	JA

TABLE 5

NPI VOC ANALYTICAL RESULTS FROM PLUME 1/2 MONITORING WELLS (2014-2017)

Well ID Sample Date MCL/ES/PAL	Sample Method/ Level	NPI Volatile Organic Compound (VOC) Concentration and Results Qualifier(s)									
		1,1-DCA		1,1-DCE		PCE		1,1,1-TCA		TCE	
		None/850/85		7/7/0.7		5/5/0.5		200/200/40		5/5/0.5	
MW-68A (monitoring well at Grid Coordinate J7)											
06/17/14	M	0.24	U	0.41	U	0.50	U	0.50	U	0.33	U
06/16/15	M	0.24	U	0.41	U	0.50	U	0.50	U	0.33	U
12/07/15	M	0.24	U	0.41	U	0.50	U	0.50	U	0.33	U
03/21/16	M	0.24	U	0.41	U	0.50	U	0.50	U	0.33	U
06/13/16	M	0.24	U	0.41	U	0.50	U	0.50	U	0.41	J
08/29/16	M	0.24	UA	0.41	UA	0.50	UA	0.50	UA	0.33	UA
12/05/16	M	0.24	U	0.41	U	0.50	U	0.50	U	0.35	J
06/12/17	M	0.24	U	0.41	U	0.50	U	0.50	U	0.35	J
MW-68B (piezometer at Grid Coordinate J7)											
06/17/14	M	0.24	U	0.41	U	0.50	U	0.50	U	0.67	J
12/01/14	M	0.24	U	0.41	U	0.50	U	0.50	U	0.72	J
06/16/15	M	0.24	U	0.41	U	0.50	U	0.50	U	0.66	J
12/07/15	M	0.24	U	0.41	U	0.50	U	0.50	U	0.49	J
03/24/16	M	0.24	U	0.41	U	0.50	U	0.50	U	0.42	J
06/13/16	M	0.24	U	0.41	U	0.50	U	0.50	U	0.37	J
08/29/16	M	0.25	J	0.41	U	0.50	U	0.50	U	0.33	U
12/05/16	M	0.24	U	0.41	U	0.50	U	0.50	U	0.33	U
06/12/17	M	0.24	U	0.41	U	0.50	U	0.50	U	0.33	U
12/13/17	M	0.24	U	0.41	U	0.50	U	0.50	U	0.33	U
MW-70A (monitoring well at Grid Coordinate K8)											
06/16/14	M	0.54	J	0.41	U	0.50	U	0.50	U	0.33	U
06/15/15	M	0.24	U	0.41	U	0.50	U	0.50	U	0.33	U
12/07/15	HS	0.24	U	0.41	U	0.50	U	0.50	U	0.33	U
03/24/16	M	0.24	U	0.41	U	0.50	U	0.50	U	0.41	J
06/13/16	HS	0.40	J	0.41	U	0.50	U	0.50	U	0.74	J
08/29/16	M	0.45	J	0.41	U	0.50	U	0.50	U	0.55	J
12/05/16	M	0.25	JA	0.41	UA	0.50	UA	0.50	UA	0.51	JA
03/20/17	M	0.37	JA	0.41	UA	0.50	UA	0.50	UA	0.59	JA
06/12/17	M	0.73	J	0.41	J	0.50	U	0.50	U	0.68	J
08/28/17	M	0.38	JA	0.41	UA	0.50	UA	0.50	UA	0.65	JA
12/12/17	M	0.31	JA	0.41	UA	0.50	UA	0.50	UA	0.49	JA
MW-70B (piezometer at Grid Coordinate K8)											
06/16/14	M	0.24	U	0.41	U	0.50	U	0.50	U	0.33	U
06/15/15	M	0.24	U	0.41	U	0.50	U	0.50	U	0.33	U
12/07/15	HS	0.24	U	0.41	U	0.50	U	0.50	U	0.33	U
03/21/16	HS	0.24	U	0.41	U	0.50	U	0.50	U	0.33	U
06/13/16	HS	0.24	U	0.41	U	0.50	U	0.50	U	0.33	U
08/29/16	HS	0.24	U	0.41	U	0.50	U	0.50	U	0.33	U
12/05/16	M	0.24	U	0.41	U	0.50	U	0.50	U	0.33	U
03/20/17	M	0.24	U	0.41	U	0.50	U	0.50	U	0.33	U
06/12/17	M	0.24	U	0.41	U	0.50	U	0.50	U	0.33	U
08/28/17	M	0.24	U	0.41	U	0.50	U	0.50	U	0.33	U
12/12/17	M	0.24	U	0.41	U	0.50	U	0.50	U	0.33	U
MW-74A (monitoring well at Grid Coordinate J8)											
06/15/15	M	0.24	U	0.41	U	0.50	U	0.50	U	0.33	U
12/07/15	HS	0.24	U	0.41	U	0.50	U	0.50	U	0.33	U
03/24/16	M	0.24	U	0.41	U	0.50	U	0.50	U	0.33	U
06/13/16	M	0.24	U	0.41	U	0.50	U	0.50	U	0.33	U

TABLE 5

NPI VOC ANALYTICAL RESULTS FROM PLUME 1/2 MONITORING WELLS (2014-2017)

Well ID Sample Date MCL/ES/PAL	Sample Method/ Level	NPI Volatile Organic Compound (VOC) Concentration and Results Qualifier(s)									
		I,I-DCA		I,I-DCE		PCE		I,I-TCA		TCE	
		None/850/85		7/7/0.7		5/5/0.5		200/200/40		5/5/0.5	
08/29/16	M	0.24	U	0.41	U	0.50	U	0.50	U	0.33	U
12/05/16	M	0.24	U	0.41	U	0.50	U	0.50	U	0.33	U
06/12/17	M	0.24	U	0.41	U	0.50	U	0.50	U	0.33	U
12/13/17	M	0.24	U	0.41	U	0.50	U	0.50	U	0.33	U
MW-74B (piezometer at Grid Coordinate J8)											
06/15/15	M	0.24	U	0.41	U	0.50	U	0.50	U	0.33	U
12/07/15	HS	0.24	U	0.41	U	0.50	U	0.50	U	0.33	U
03/24/16	M	0.24	U	0.41	U	0.50	U	0.50	U	0.33	U
06/13/16	M	0.24	U	0.41	U	0.50	U	0.50	U	0.33	U
08/29/16	M	0.24	U	0.41	U	0.50	U	0.50	U	0.33	U
12/05/16	M	0.24	U	0.41	U	0.50	U	0.50	U	0.33	U
06/12/17	M	0.24	U	0.41	U	0.50	U	0.50	U	0.33	U
12/13/17	M	0.24	U	0.41	U	0.50	U	0.50	U	0.33	U
MW-76A (monitoring well at Grid Coordinate K7)											
04/15/14	M	0.69	J	0.43	J	1.3		155		8.8	
06/17/14	M	0.61	J	0.53	J	1.3		145		9.3	
09/15/14	M	0.38	J	0.41	U	0.79	J	91.2		5.2	
12/02/14	M	0.63	J	0.41	U	1.1		138		8.5	
03/24/15	M	0.61	J	0.41	U	1.3		137		8.1	
06/16/15	M	0.50	J	0.46	J	0.93	J	106		6.3	
09/23/15	M	0.24	U	0.41	U	0.50	U	2.5		0.33	U
12/07/15	M	0.24	U	0.41	U	0.50	U	4.9		0.47	J
03/21/16	M	0.24	U	0.41	U	0.50	U	2.2		0.33	U
06/13/16	M	0.24	U	0.41	U	0.50	U	0.61	J	0.38	J
08/30/16	M	0.24	U	0.41	U	0.50	U	0.50	U	0.33	U
12/06/16	M	0.24	U	0.41	U	0.50	U	0.50	U	0.33	U
03/21/17	M	1.9		0.41	U	1.0		42.8		4.6	
06/13/17	M	0.24	U	0.41	U	0.50	U	1.7		0.33	U
08/28/17	M	0.24	U	0.41	U	0.50	U	0.50	U	0.33	U
12/13/17	M	0.24	U	0.41	U	0.50	U	0.50	U	0.33	U
MW-76B (piezometer at Grid Coordinate K7)											
06/17/14	M	0.24	U	0.41	U	0.50	U	0.50	U	0.33	UA
12/04/14	M	0.24	U	0.41	U	0.50	U	0.50	U	0.33	U
06/16/15	M	0.24	U	0.41	U	0.50	U	0.50	U	0.33	U
12/07/15	M	0.24	U	0.41	U	0.50	U	0.50	U	0.33	U
06/13/16	M	0.24	U	0.41	U	0.50	U	0.50	U	0.33	U
12/06/16	M	0.24	U	0.41	U	0.50	U	0.50	U	0.33	U
03/21/17	M	0.24	U	0.41	U	0.50	U	0.50	U	0.33	U
06/13/17	M	0.24	U	0.41	U	0.50	U	0.50	U	0.33	U
08/28/17	M	0.24	U	0.41	U	0.50	U	0.50	U	0.33	U
12/13/17	M	0.24	U	0.41	U	0.50	U	0.50	U	0.33	U
MW-77A (monitoring well at Grid Coordinate K7)											
04/15/14	M	0.16	U	0.41	U	0.50	U	0.50	U	1.1	
06/16/14	M	0.24	U	0.41	U	0.50	U	0.50	U	1.3	
09/15/14	M	0.24	U	0.41	U	0.50	U	0.50	U	0.72	J
12/01/14	M	0.24	U	0.41	U	0.50	U	0.50	U	1.2	
03/23/15	M	0.24	U	0.41	U	0.50	U	0.50	U	1.4	
06/15/15	M	0.24	U	0.41	U	0.50	U	0.50	U	0.89	J
09/22/15	M	0.24	U	0.41	U	0.50	U	0.50	U	1.1	

TABLE 5

NPI VOC ANALYTICAL RESULTS FROM PLUME 1/2 MONITORING WELLS (2014-2017)

Well ID Sample Date MCL/ES/PAL	Sample Method/ Level	NPI Volatile Organic Compound (VOC) Concentration and Results Qualifier(s)									
		1,1-DCA		1,1-DCE		PCE		1,1,1-TCA		TCE	
		None/850/85		7/7/0.7		5/5/0.5		200/200/40		5/5/0.5	
12/07/15	M	0.24	U	0.41	U	0.50	U	0.50	U	0.66	J
03/21/16	M	0.24	U	0.41	U	0.50	U	0.50	U	1.1	
06/13/16	M	0.24	U	0.41	U	0.50	U	0.50	U	1.3	
08/31/16	M	0.24	U	0.41	U	0.50	U	0.50	U	0.91	J
12/06/16	M	0.24	U	0.41	U	0.50	U	0.50	U	0.51	J
03/21/17	M	0.24	U	0.41	U	0.50	U	0.50	U	0.33	U
06/13/17	M	0.24	UA	0.41	UA	0.50	UA	0.50	UA	0.33	UA
08/28/17	M	0.24	U	0.41	U	0.50	U	0.50	U	0.35	J
12/13/17	M	0.24	U	0.41	U	0.50	U	0.50	U	0.33	U
MW-77B (piezometer at Grid Coordinate K7)											
04/15/14	M	0.16	U	0.41	U	0.50	U	0.50	U	1.2	
06/16/14	M	0.24	U	0.41	U	0.50	U	0.50	U	1.4	
09/15/14	M	0.24	U	0.41	U	0.50	U	0.50	U	1.4	
12/01/14	M	0.24	U	0.41	U	0.50	U	0.50	U	1.5	
03/23/15	M	0.24	U	0.41	U	0.50	U	0.50	U	1.3	
06/15/15	M	0.24	U	0.41	U	0.50	U	0.50	U	1.7	
09/22/15	M	0.24	U	0.41	U	0.50	U	0.50	U	1.6	
12/07/15	M	0.24	U	0.41	U	0.50	U	0.50	U	1.2	
03/21/16	M	0.24	U	0.41	U	0.50	U	0.50	U	1.7	
06/13/16	M	0.24	U	0.41	U	0.50	U	0.50	U	1.6	
08/31/16	M	0.24	U	0.41	U	0.50	U	0.50	U	1.8	
12/06/16	M	0.24	U	0.41	U	0.50	U	0.50	U	1.4	
03/21/17	M	0.24	U	0.41	U	0.50	U	0.50	U	1.5	
06/13/17	M	0.24	U	0.41	U	0.50	U	0.50	U	1.7	
08/28/17	M	0.24	U	0.41	U	0.50	U	0.50	U	2.1	
12/13/17	M	0.24	U	0.41	U	0.50	U	0.50	U	2.1	
MW-77C (piezometer at Grid Coordinate K7)											
04/15/14	M	0.16	U	0.41	U	0.50	U	0.50	U	0.48	J
06/16/14	M	0.24	U	0.41	U	0.50	U	0.50	U	0.58	J
09/15/14	M	0.24	U	0.41	U	0.50	U	0.50	U	0.47	J
12/01/14	M	0.24	U	0.41	U	0.50	U	0.50	U	0.48	J
03/23/15	M	0.24	U	0.41	U	0.50	U	0.50	U	0.54	J
06/15/15	M	0.24	U	0.41	U	0.50	U	0.50	U	0.59	J
09/22/15	M	0.24	U	0.41	U	0.50	U	0.50	U	0.74	J
12/07/15	M	0.24	U	0.41	U	0.50	U	0.50	U	0.41	J
03/21/16	M	0.24	U	0.41	U	0.50	U	0.50	U	0.61	J
06/16/16	M	0.24	U	0.41	U	0.50	U	0.50	U	0.66	J
08/31/16	M	0.24	U	0.41	U	0.50	U	0.50	U	0.55	J
12/06/16	M	0.24	U	0.41	U	0.50	U	0.50	U	0.60	J
03/21/17	M	0.24	U	0.41	U	0.50	U	0.50	U	0.96	J
06/13/17	M	0.24	U	0.41	U	0.50	U	0.50	U	0.76	J
08/28/17	M	0.24	U	0.41	U	0.50	U	0.50	U	0.59	J
12/13/17	M	0.24	U	0.41	U	0.50	U	0.50	U	0.72	J
PW-3R (abandoned monitoring well at Grid Coordinate K7)											
06/16/14	M	0.24	U	0.41	U	0.50	U	0.50	U	0.33	U
06/16/15	M	0.24	UA	0.41	UA	0.50	UA	0.50	UA	0.33	UA
06/13/16	M	0.24	U	0.41	U	0.50	U	0.50	U	0.33	U
06/13/17	M	0.24	U	0.41	U	0.50	U	0.50	U	0.33	U

TABLE 5

NPI VOC ANALYTICAL RESULTS FROM PLUME 1/2 MONITORING WELLS (2014-2017)

Well ID Sample Date MCL/ES/PAL	Sample Method/ Level	NPI Volatile Organic Compound (VOC) Concentration and Results Qualifier(s)									
		1,1-DCA		1,1-DCE		PCE		1,1,1-TCA		TCE	
		None/850/85		7/7/0.7		5/5/0.5		200/200/40		5/5/0.5	
RW-2A (monitoring well at Grid Coordinate J7)											
06/17/14	M	0.24	U	0.41	U	0.50	U	0.50	U	0.95	J
12/04/14	M	0.24	U	0.41	U	0.50	U	0.50	U	0.75	J
06/15/15	M	0.24	U	0.41	U	0.50	U	0.50	U	0.71	J
12/08/15	M	0.24	U	0.41	U	0.50	U	0.50	U	0.74	J
06/13/16	M	0.24	UA	0.41	UA	0.50	UA	0.50	UA	0.95	JA
12/06/16	M	0.24	U	0.41	U	0.50	U	0.50	U	0.77	J
06/13/17	M	0.24	UA	0.41	UA	0.50	UA	0.50	UA	1.10	JA
12/14/17	M	0.24	U	0.41	U	0.50	U	0.50	U	1.0	
RW-2B (piezometer at Grid Coordinate J7)											
06/17/14	M	0.24	U	0.41	U	0.50	U	0.92	J	2.0	
12/02/14	M	0.24	U	0.41	U	0.50	U	0.93	J	1.9	
06/15/15	M	0.24	U	0.41	U	0.50	U	0.59	J	1.7	
12/08/15	M	0.24	U	0.41	U	0.50	U	0.50	U	1.5	
06/13/16	M	0.24	U	0.41	U	0.50	U	0.66	J	1.8	
12/06/16	M	0.24	U	0.41	U	0.50	U	0.64	J	2.0	
06/13/17	M	0.24	U	0.41	U	0.50	U	0.50	U	2.2	
12/14/17	M	0.24	U	0.41	U	0.50	U	0.50	U	2.0	
RW-2C (piezometer at Grid Coordinate J7)											
06/17/14	M	0.24	UA	0.41	UA	0.50	UA	0.79	JA	1.7	A
12/02/14	M	0.24	U	0.41	U	0.50	U	0.73	J	1.5	
06/15/15	M	0.24	U	0.41	U	0.50	U	0.59	J	1.2	
12/08/15	M	0.24	U	0.41	U	0.50	U	0.50	U	1.3	
06/13/16	M	0.24	U	0.41	U	0.50	U	0.50	U	1.6	
12/06/16	M	0.24	U	0.41	U	0.50	U	0.52	J	1.6	
06/13/17	M	0.24	U	0.41	U	0.50	U	0.50	U	1.7	
12/14/17	M	0.24	UA	0.41	UA	0.50	UA	0.50	UA	1.7	A
RW-3A (monitoring well at Grid Coordinate C6)											
06/18/14	M	0.24	U	0.41	U	0.50	U	0.50	U	1.8	
12/03/14	M	0.24	U	0.41	U	0.50	U	0.50	U	2.2	
06/17/15	M	0.24	U	0.41	U	0.50	U	0.50	U	2.2	
12/08/15	M	0.24	U	0.41	U	0.50	U	0.50	U	1.9	
06/14/16	M	0.24	U	0.41	U	0.50	U	0.50	U	1.8	
12/07/16	M	0.24	U	0.41	U	0.50	U	0.50	U	2.0	
06/14/17	M	0.24	U	0.41	U	0.50	U	0.50	U	2.2	
12/14/17	M	0.24	U	0.41	U	0.50	U	0.50	U	1.7	
RW-3B (piezometer at Grid Coordinate C6)											
06/18/14	M	0.24	U	0.41	U	0.50	U	0.50	U	4.1	
12/03/14	M	0.24	U	0.41	U	0.50	U	0.50	U	3.7	
06/17/15	M	0.24	U	0.41	U	0.50	U	0.50	U	2.7	
12/08/15	M	0.24	U	0.41	U	0.50	U	0.50	U	3.6	
06/14/16	M	0.24	U	0.41	U	0.50	U	0.50	U	2.7	
12/07/16	M	0.24	U	0.41	U	0.50	U	0.50	U	2.5	
06/14/17	M	0.24	U	0.41	U	0.50	U	0.50	U	3.6	
12/14/17	M	0.24	UA	0.41	UA	0.50	UA	0.50	UA	3.1	A
RW-3C (piezometer at Grid Coordinate C6)											
06/18/14	M	0.24	UA	0.41	UA	0.50	UA	0.52	JA	4.9	A
12/03/14	M	0.24	U	0.41	U	0.50	U	0.52	J	4.6	
06/17/15	M	0.24	U	0.41	U	0.50	U	0.50	U	3.6	

TABLE 5

NPI VOC ANALYTICAL RESULTS FROM PLUME 1/2 MONITORING WELLS (2014-2017)

Well ID Sample Date MCL/ES/PAL	Sample Method/ Level	NPI Volatile Organic Compound (VOC) Concentration and Results Qualifier(s)									
		1,1-DCA		1,1-DCE		PCE		1,1,1-TCA		TCE	
		None/850/85		7/7/0.7		5/5/0.5		200/200/40		5/5/0.5	
12/08/15	M	0.24	U	0.41	U	0.50	U	0.50	U	4.0	
06/14/16	M	0.24	U	0.41	U	0.50	U	0.50	U	3.8	
12/07/16	M	0.24	U	0.41	U	0.50	U	0.52	J	4.3	
06/14/17	M	0.24	U	0.41	U	0.50	U	0.50	U	3.4	
12/14/17	M	0.24	U	0.41	U	0.50	U	0.50	U	4.1	
RW-15 (monitoring well at Grid Coordinate J7)											
06/17/14	M	0.24	U	0.41	U	0.50	U	0.54	J	4.3	
12/04/14	M	0.24	U	0.41	U	0.50	U	0.58	J	4.2	
06/16/15	M	0.24	U	0.41	U	0.50	U	0.50	U	2.1	
12/08/15	M	0.24	U	0.41	U	0.50	U	0.50	U	3.4	
06/13/16	M	0.24	U	0.41	U	0.50	U	0.50	U	3.7	
12/06/16	M	0.24	U	0.41	U	0.50	U	0.50	U	3.1	
06/13/17	M	0.24	U	0.41	U	0.50	U	0.50	U	4.4	
12/13/17	M	0.24	UA	0.41	UA	0.50	UA	0.60	JA	3.7	A
RW-16 (monitoring well at Grid Coordinate G7)											
06/18/14	M	0.24	U	0.41	U	0.50	U	0.50	U	1.1	
06/17/15	M	0.24	UA	0.41	UA	0.50	UA	0.50	UA	2.7	A
06/14/16	M	0.24	U	0.41	U	0.50	U	0.50	U	2.3	
06/13/17	M	0.24	U	0.41	U	0.50	U	0.50	U	2.2	
RW-16B (piezometer at Grid Coordinate G7)											
06/18/14	M	0.24	U	0.41	U	0.50	U	0.52	J	3.4	
06/17/15	M	0.24	U	0.41	U	0.50	U	0.50	U	1.8	
06/14/16	M	0.24	U	0.41	U	0.50	U	0.50	U	3.1	
06/13/17	M	0.24	U	0.41	U	0.50	U	0.50	U	0.90	J
RW-16C (piezometer at Grid Coordinate G7)											
06/18/14	M	0.24	U	0.41	U	0.50	U	0.50	U	2.8	
06/17/15	M	0.24	U	0.41	U	0.50	U	0.50	U	0.72	J
06/14/16	M	0.24	U	0.41	U	0.50	U	0.50	U	3.6	
06/13/17	M	0.24	U	0.41	U	0.50	U	0.50	U	3.9	
WW-15 (monitoring well at Grid Coordinate I8)											
06/17/14	M	0.24	U	0.41	U	0.50	U	0.50	U	1.00	
06/16/15	M	0.24	U	0.41	U	0.50	U	0.50	U	0.89	J
06/13/16	M	0.24	U	0.41	U	0.50	U	0.50	U	1.3	
06/13/17	M	0.24	U	0.41	U	0.50	U	0.50	U	1.0	

TABLE 5

NPI VOC ANALYTICAL RESULTS FROM PLUME 1/2 MONITORING WELLS (2014-2017)

NOTES:

Concentrations are in micrograms per liter ($\mu\text{g/L}$)/parts per billion (ppb).

Detected concentrations at or above an applicable NR 140 PAL are in red font and italicized.

Detected concentrations at or above an applicable MCL/NR 140 ES are in red font and bold.

A = Average of original sample and duplicate. Began this approach in 2014.

B = Compound detected in blank.

CSH = Check standard for this analyte exhibited a high bias. Sample results may also be biased high.

CSL = Check standard for this analyte exhibited a low bias. Sample results may also be biased low.

D = Indicates initial analysis exceeded the calibration range, was diluted and re-analyzed.

Dup = Result of duplicate analysis in this quality assurance batch exceeds the limits for precision.

E = Concentration exceeds calibration range of instrument.

ISH = Internal standard recovery exceeds normal limits. Sample results may be biased low.

J = Estimated concentration below laboratory quantitation level.

MSH = Matrix spike recovery within analytical batch was high. Sample matrix appears similar to your sample; result may be biased high.

MSL = Matrix spike recovery within analytical batch was low. Sample matrix appears similar to your sample; result may be biased low.

NA = Not analyzed.

ND = Not detected at or above the detection limit.

NS = Not sampled.

R = Unusable.

S1H = First sample matrix spike recovery was high.

S2H = Second sample matrix spike recovery was high.

SPH = Matrix spike recovery within analytical batch was high. Sample matrix appears similar to your sample; result may be biased high.

SPL = Matrix spike recovery within analytical batch was low. Sample matrix appears similar to your sample; result may be biased low.

U = Compound not detected at or above the detection limit, which is the value shown.

SAMPLE METHOD/LEVEL KEY:

B = Bailer.

HS = HydraSleeve.

LF = Low flow.

NR = Not recorded until 2009.

PDB = Passive diffusion bag.

H = PDB or HS in upper portion of saturated screened interval.

M = PDB or HS in middle portion of saturated screened interval.

L = PDB or HS in lower portion of saturated screened interval.

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TABLE 6

NPI VOC ANALYTICAL RESULTS FROM THE EAU CLAIRE MUNICIPAL WELL FIELD (2014-2017)

Date	City	GF	City	GF	City	GF	City	GF
NPI VOC	1,1-DCA		PCE		1,1,1-TCA		TCE	
MCL/ES/PAL	None/850/85		5/5/0.5		200/200/40		5/5/0.5	
City Well 11 (CW-11)								
01/14/14	0.19 U	(6)	0.21 U	(6)	0.13 U	(6)	0.20 U	(6)
02/14/14	0.19 U	(6)	0.21 U	(6)	0.13 U	(6)	0.20 U	(6)
03/14/14	0.24 U	(6)	0.11 U	(6)	0.16 U	(6)	0.31 U	(6)
04/14/14	0.24 U	0.25 U	0.11 U	0.25 U	0.16 U	0.25 U	0.31 U	0.13 U
06/14/14	(10)	0.077 U	(10)	0.099 U	(10)	0.17 U	(10)	0.084 U
09/14/14	(10)	0.077 U	(10)	0.099 U	(10)	0.17 U	(10)	0.084 U
12/14/14	(10)	0.087 U	(10)	0.12 U	(10)	0.17 U	(10)	0.084 U
03/25/15	(10)	0.087 U	(10)	0.12 U	(10)	0.17 U	(10)	0.084 U
06/17/15	(10)	0.19 U	(10)	0.15 U	(10)	0.20 U	(10)	0.14 U
09/23/15	(10)	0.19 U	(10)	0.15 U	(10)	0.20 U	(10)	0.14 U
12/09/15	(10)	0.19 U	(10)	0.15 U	(10)	0.20 U	(10)	0.14 U
03/22/16	(10)	0.19 U	(10)	0.15 U	(10)	0.20 U	(10)	0.14 U
06/15/16	(10)	0.19 U	(10)	0.15 U	(10)	0.20 U	(10)	0.14 U
08/30/16	(10)	0.088 U	(10)	0.12 U	(10)	0.10 U	(10)	0.044 U
12/07/16	(10)	0.088 U	(10)	0.12 U	(10)	0.10 U	(10)	0.044 U
03/22/17	(10)	0.088 U	(10)	0.12 U	(10)	0.10 U	(10)	0.044 U
06/14/17	(10)	0.088 U	(10)	0.12 U	(10)	0.10 U	(10)	0.044 U
08/29/17	(10)	0.088 U	(10)	0.12 U	(10)	0.10 U	(10)	0.044 U
12/13/17	(10)	0.14 U	(10)	0.12 U	(10)	0.13 U	(10)	0.11 U
City Well 15 (CW-15)								
01/14/14	0.19 U	(6)	0.21 U	(6)	0.49	(6)	0.20 U	(6)
02/14/14	0.19 U	(6)	0.21 U	(6)	0.13 U	(6)	0.20 U	(6)
03/14/14	0.24 U	(6)	0.11 U	(6)	0.16 U	(6)	0.31 U	(6)
04/14/14	0.24 U	0.25 U	0.11 U	0.25 U	0.16 U	0.25 U	0.3	0.14 J
06/14/14	(10)	0.077 U	(10)	0.099 U	(10)	0.17 U	(10)	0.084 U
09/14/14	(10)	0.077 U	(10)	0.099 U	(10)	0.17 U	(10)	0.21 J
12/14/14	(10)	0.087 U	(10)	0.12 U	(10)	0.17 U	(10)	0.084 U
03/25/15	(10)	0.087 U	(10)	0.12 U	(10)	0.17 U	(10)	0.11 J
06/17/15	(10)	0.19 U	(10)	0.15 U	(10)	0.20 U	(10)	0.15 J
09/23/15	(10)	0.19 U	(10)	0.15 U	(10)	0.20 U	(10)	0.30 J
12/09/15	(10)	0.19 U	(10)	0.15 U	(10)	0.20 U	(10)	0.14 U
03/22/16	(10)	0.19 U	(10)	0.15 U	(10)	0.20 U	(10)	0.15 J
06/15/16	(10)	0.19 U	(10)	0.15 U	(10)	0.20 U	(10)	0.19 J
08/30/16	(10)	0.088 U	(10)	0.12 U	(10)	0.10 U	(10)	0.19 J
12/07/16	(10)	0.088 U	(10)	0.12 U	(10)	0.10 U	(10)	0.18 J
03/22/17	(10)	0.088 U	(10)	0.12 U	(10)	0.10 U	(10)	0.33
06/14/17	(10)	0.088 U	(10)	0.12 U	(10)	0.10 U	(10)	0.28 J
08/29/17	(10)	0.088 U	(10)	0.12 U	(10)	0.10 U	(10)	0.078 J
12/13/17	(10)	0.14 U	(10)	0.12 U	(10)	0.13 U	(10)	0.11 U
City Well 16 (CW-16)								
01/14/14	0.19 U	(6)	0.21 U	(6)	0.13 U	(6)	0.20 U	(6)
02/14/14	0.19 U	(6)	0.21 U	(6)	0.13 U	(6)	0.20 U	(6)
03/14/14	0.24 U	(6)	0.11 U	(6)	0.16 U	(6)	0.31 U	(6)
04/14/14	0.24 U	0.25 U	0.11 U	0.25 U	0.16 U	0.25 U	0.31 U	0.13 U
06/14/14	(10)	0.077 U	(10)	0.099 U	(10)	0.17 U	(10)	0.084 U

TABLE 6

NPI VOC ANALYTICAL RESULTS FROM THE EAU CLAIRE MUNICIPAL WELL FIELD (2014-2017)

Date	City	GF	City	GF	City	GF	City	GF
NPI VOC	1,1-DCA		PCE		1,1,1-TCA		TCE	
MCL/ES/PAL	None/850/85		5/5/0.5		200/200/40		5/5/0.5	
09/14/14	(10)	0.077 U	(10)	0.099 U	(10)	0.17 U	(10)	0.084 U
12/14/14	(10)	0.087 U	(10)	0.12 U	(10)	0.17 U	(10)	0.084 U
03/25/15	(10)	0.087 U	(10)	0.12 U	(10)	0.17 U	(10)	0.084 U
06/17/15	(10)	0.19 U	(10)	0.15 U	(10)	0.20 U	(10)	0.14 U
09/23/15	(10)	0.19 U	(10)	0.15 U	(10)	0.20 U	(10)	0.35 J
12/09/15	(10)	0.19 U	(10)	0.15 U	(10)	0.20 U	(10)	0.14 U
03/22/16	(10)	0.19 U	(10)	0.15 U	(10)	0.20 U	(10)	0.14 U
06/15/16	(10)	0.19 U	(10)	0.15 U	(10)	0.20 U	(10)	0.14 U
08/30/16	(10)	0.088 U	(10)	0.12 U	(10)	0.10 U	(10)	0.044 U
12/07/16	(10)	0.088 U	(10)	0.12 U	(10)	0.10 U	(10)	0.044 U
03/22/17	(10)	0.088 U	(10)	0.12 U	(10)	0.10 U	(10)	0.044 U
06/14/17	(10)	0.088 U	(10)	0.12 U	(10)	0.10 U	(10)	0.044 U
08/29/17	(10)	0.088 U	(10)	0.12 U	(10)	0.10 U	(10)	0.044 U
12/13/17	(10)	0.14 U	(10)	0.12 U	(10)	0.13 U	(10)	0.11 U
City Well 17 (CW-17)								
01/14/14	0.19 U	(6)	0.21 U	(6)	0.13 U	(6)	0.20 U	(6)
02/14/14	0.19 U	(6)	0.21 U	(6)	0.13 U	(6)	0.20 U	(6)
03/14/14	0.24 U	(6)	0.11 U	(6)	0.16 U	(6)	0.31 U	(6)
04/14/14	0.24 U	0.25 U	0.11 U	0.25 U	0.16 U	0.25 U	0.31 U	0.13 U
06/14/14	(10)	0.077 U	(10)	0.099 U	(10)	0.17 U	(10)	0.084 U
09/14/14	(10)	0.077 U	(10)	0.099 U	(10)	0.17 U	(10)	0.084 U
12/14/14	(10)	0.087 U	(10)	0.12 U	(10)	0.17 U	(10)	0.084 U
03/25/15	(10)	0.087 U	(10)	0.12 U	(10)	0.17 U	(10)	0.084 U
06/17/15	(10)	0.19 U	(10)	0.15 U	(10)	0.20 U	(10)	0.14 U
09/23/15	(10)	0.19 U	(10)	0.15 U	(10)	0.20 U	(10)	0.14 U
12/09/15	(10)	0.19 U	(10)	0.15 U	(10)	0.20 U	(10)	0.14 U
03/22/16	(10)	0.19 U	(10)	0.15 U	(10)	0.20 U	(10)	0.14 U
06/15/16	(10)	0.19 U	(10)	0.15 U	(10)	0.20 U	(10)	0.14 U
08/30/16	(10)	0.088 U	(10)	0.12 U	(10)	0.10 U	(10)	0.044 U
12/07/16	(10)	0.088 U	(10)	0.12 U	(10)	0.10 U	(10)	0.044 U
03/22/17	(10)	0.088 U	(10)	0.12 U	(10)	0.10 U	(10)	0.044 U
06/14/17	(10)	0.088 U	(10)	0.12 U	(10)	0.10 U	(10)	0.044 U
08/29/17	(10)	0.088 U	(10)	0.12 U	(10)	0.10 U	(10)	0.044 U
12/13/17	(10)	0.14 U	(10)	0.12 U	(10)	0.13 U	(10)	0.11 U
City Well 19 (CW-19)								
01/14/14	0.35	(6)	0.27	(6)	0.48	(6)	2.0	(6)
02/14/14	0.19 U	(6)	0.21 U	(6)	0.5	(6)	2.1	(6)
03/14/14	0.24 U	(6)	0.2	(6)	0.4	(6)	2.0	(6)
04/14/14	0.24 U	0.25 U	0.2	0.25 U	0.16 U	0.25 U	2.1	2.0
06/14/14	(10)	0.077 U	(10)	0.099 U	(10)	0.31 J	(10)	1.9
09/14/14	(10)	0.077 U	(10)	0.099 U	(10)	0.22 J	(10)	1.5
12/14/14	(10)	0.087 U	(10)	0.12 U	(10)	0.17 U	(10)	2.2
03/25/15	(10)	0.087 U	(10)	0.12 U	(10)	0.18 J	(10)	1.6
06/17/15	(10)	0.19 U	(10)	0.15 U	(10)	0.29 J	(10)	2.0
09/23/15	(10)	0.19 U	(10)	0.15 U	(10)	0.39 J	(10)	2.4
12/09/15	(10)	0.19 U	(10)	0.15 U	(10)	0.44 J	(10)	1.7
03/22/16	(10)	0.19 U	(10)	0.15 U	(10)	0.44 J	(10)	1.8
06/15/16	(10)	0.19 U	(10)	0.15 U	(10)	0.22 J	(10)	1.9
08/30/16	(10)	0.088 U	(10)	0.12 U	(10)	0.10 U	(10)	2.0

TABLE 6

NPI VOC ANALYTICAL RESULTS FROM THE EAU CLAIRE MUNICIPAL WELL FIELD (2014-2017)

Date	City	GF	City	GF	City	GF	City	GF
NPI VOC	1,1-DCA		PCE		1,1,1-TCA		TCE	
MCL/ES/PAL	None/850/85		5/5/0.5		200/200/40		5/5/0.5	
12/07/16	(10)	0.088 U	(10)	0.12 U	(10)	0.27 J	(10)	2.1
03/22/17	(10)	0.088 U	(10)	0.12 U	(10)	0.55	(10)	2.4
06/14/17	(10)	0.088 U	(10)	0.12 U	(10)	0.55	(10)	1.8
08/29/17	(10)	0.088 U	(10)	0.12 U	(10)	0.10	(10)	0.82
12/13/17	(10)	0.14 U	(10)	0.12 U	(10)	0.13 U	(10)	0.40
City Well 22 (CW-22 started production pumping on 04/25/17)								
06/14/17	(10)	0.088 U	(10)	0.12 U	(10)	0.27 J	(10)	2.3
08/29/17	(10)	0.088 U	(10)	0.12 U	(10)	0.26 J	(10)	2.2
12/13/17	(10)	0.14 U	(10)	0.12 U	(10)	0.25 J	(10)	2.4
City Well 23 (CW-23 started production pumping on 04/25/17)								
06/14/17	(10)	0.088 U	(10)	0.12 U	(10)	0.10 U	(10)	0.044 U
08/29/17	(10)	0.088 U	(10)	0.12 U	(10)	0.10 U	(10)	0.044 U
12/13/17	(10)	0.14 U	(10)	0.12 U	(10)	0.13 U	(10)	0.16 J
Commingled untreated raw water prior to air stripping ⁽¹⁾								
01/14/14	0.19 U	(6)	0.21 U	(6)	0.31	(6)	0.91	(6)
02/14/14	0.19 U	(6)	0.21 U	(6)	0.31	(6)	1.1	(6)
03/14/14	0.24 U	(6)	0.11 U	(6)	0.16 U	(6)	0.7	(6)
04/14/14	0.24 U	0.25 U	0.11 U	0.25 U	0.16 U	0.25 U	0.9	0.56
06/14/14	(10)	0.077 U	(10)	0.099 U	(10)	0.17 U	(10)	0.58
09/14/14	(10)	0.077 U	(10)	0.099 U	(10)	0.17 U	(10)	0.44 J
12/14/14	(10)	0.087 U	(10)	0.12 U	(10)	0.17 U	(10)	0.61
03/25/15	(10)	0.087 U	(10)	0.12 U	(10)	0.17 U	(10)	0.62
06/17/15	(10)	0.19 U	(10)	0.15 U	(10)	0.20 U	(10)	0.60
09/23/15	(10)	0.19 U	(10)	0.15 U	(10)	0.20 U	(10)	0.97
12/09/15	(10)	0.19 U	(10)	0.15 U	(10)	0.30 J	(10)	0.55
03/22/16	(10)	0.19 U	(10)	0.15 U	(10)	0.20 U	(10)	0.7
06/15/16	(10)	0.19 U	(10)	0.15 U	(10)	0.20 U	(10)	0.77
08/30/16	(10)	0.088 U	(10)	0.12 U	(10)	0.10 U	(10)	0.94
12/07/16	(10)	0.088 U	(10)	0.12 U	(10)	0.10 U	(10)	0.6
03/22/17	(10)	0.088 U	(10)	0.12 U	(10)	0.10 U	(10)	0.044 U
06/14/17	(10)	0.088 U	(10)	0.12 U	(10)	0.10 U	(10)	1.1
08/29/17	(10)	0.088 U	(10)	0.12 U	(10)	0.10 U	(10)	1.0
12/13/17	(10)	0.14 U	(10)	0.12 U	(10)	0.13 U	(10)	1.1
Tower A (North) - discharge from air stripper ⁽²⁾								
01/14/14	0.19 U	(6)	0.21 U	(6)	0.31	(6)	0.52	(6)
02/14/14	0.19 U	(6)	0.21 U	(6)	0.13 U	(6)	0.20 U	(6)
03/14/14	0.24 U	(6)	0.11 U	(6)	0.16 U	(6)	0.31 U	(6)
04/14/14	0.24 U	0.25 U	0.11 U	0.25 U	0.16 U	0.25 U	0.31 U	0.13 U
06/14/14	(10)	0.077 U	(10)	0.099 U	(10)	0.17 U	(10)	0.084 U
09/14/14	(10)	0.077 U	(10)	0.099 U	(10)	0.17 U	(10)	0.084 U
12/14/14	(10)	0.087 U	(10)	0.12 U	(10)	0.17 U	(10)	0.084 U
03/25/15	(10)	0.087 U	(10)	0.12 U	(10)	0.17 U	(10)	0.084 U
06/17/15	(10)	0.19 U	(10)	0.15 U	(10)	0.20 U	(10)	0.14 U
09/23/15	(10)	0.19 U	(10)	0.15 U	(10)	0.20 U	(10)	0.14 J
12/09/15	(10)	0.19 U	(10)	0.15 U	(10)	0.20 U	(10)	0.14 U
03/22/16	(10)	0.19 U	(10)	0.15 U	(10)	0.20 U	(10)	0.14 U
06/15/16	(10)	0.19 U	(10)	0.15 U	(10)	0.20 U	(10)	0.14 U
08/30/16	(10)	0.088 U	(10)	0.12 U	(10)	0.10 U	(10)	0.044 U

TABLE 6

NPI VOC ANALYTICAL RESULTS FROM THE EAU CLAIRE MUNICIPAL WELL FIELD (2014-2017)

Date	City	GF	City	GF	City	GF	City	GF
NPI VOC	1,1-DCA		PCE		1,1,1-TCA		TCE	
MCL/ES/PAL	None/850/85		5/5/0.5		200/200/40		5/5/0.5	
12/07/16	(10)	0.088 U	(10)	0.12 U	(10)	0.10 U	(10)	0.044 U
03/22/17	(10)	0.088 U	(10)	0.12 U	(10)	0.10 U	(10)	0.044 U
06/14/17	(10)	0.088 U	(10)	0.12 U	(10)	0.10 U	(10)	0.044 U
08/29/17	(10)	0.088 U	(10)	0.12 U	(10)	0.10 U	(10)	0.044 U
12/13/17	(10)	0.14 U	(10)	0.12 U	(10)	0.13 U	(10)	0.11 U
Tower B (South) - discharge from air stripper ⁽³⁾								
12/13/13	0.19 U	0.25 U	0.21 U	0.25 U	0.13 U	0.25 U	0.20 U	0.13 U
01/14/14	0.19 U	(6)	0.21 U	(6)	0.13 U	(6)	0.20 U	(6)
02/14/14	0.19 U	(6)	0.21 U	(6)	0.13 U	(6)	0.20 U	(6)
03/14/14	0.24 U	(6)	0.11 U	(6)	0.16 U	(6)	0.31 U	(6)
04/14/14	0.24 U	0.25 U	0.11 U	0.25 U	0.16 U	0.25 U	0.31 U	0.13 U
06/14/14	(10)	0.077 U	(10)	0.099 U	(10)	0.17 U	(10)	0.084 U
09/14/14	(10)	0.077 U	(10)	0.099 U	(10)	0.17 U	(10)	0.094 J
12/14/14	(10)	0.087 U	(10)	0.12 U	(10)	0.17 U	(10)	0.084 U
03/25/15	(10)	0.087 U	(10)	0.12 U	(10)	0.17 U	(10)	0.084 U
06/17/15	(10)	0.19 U	(10)	0.15 U	(10)	0.20 U	(10)	0.14 U
09/23/15	(10)	0.19 U	(10)	0.15 U	(10)	0.20 U	(10)	0.14 U
12/09/15	(10)	0.19 U	(10)	0.15 U	(10)	0.20 U	(10)	0.14 U
03/22/16	(10)	0.19 U	(10)	0.15 U	(10)	0.20 U	(10)	0.14 U
06/15/16	(10)	0.19 U	(10)	0.15 U	(10)	0.20 U	(10)	0.14 U
08/30/16	(10)	0.088 U	(10)	0.12 U	(10)	0.10 U	(10)	0.044 U
12/07/16	(10)	0.088 U	(10)	0.12 U	(10)	0.10 U	(10)	0.044 U
03/22/17	(10)	0.088 U	(10)	0.12 U	(10)	0.10 U	(10)	0.044 U
06/14/17	(10)	0.088 U	(10)	0.12 U	(10)	0.10 U	(10)	0.044 U
08/29/17	(10)	0.088 U	(10)	0.12 U	(10)	0.10 U	(10)	0.044 U
12/13/17	(10)	0.14 U	(10)	0.12 U	(10)	0.13 U	(10)	0.11 U
Commingled treated water after chlorination (finished product) ⁽⁴⁾								
01/14/14	0.19 U	(6)	0.21 U	(6)	0.13 U	(6)	0.41	(6)
02/14/14	0.19 U	(6)	0.21 U	(6)	0.13 U	(6)	0.20 U	(6)
03/14/14	0.24 U	(6)	0.11 U	(6)	0.16 U	(6)	0.31 U	(6)
04/14/14	0.24 U	0.25 U	0.11 U	0.25 U	0.16 U	0.25 U	0.31 U	0.13 U
06/14/14	(10)	0.077 U	(10)	0.099 U	(10)	0.17 U	(10)	0.084 U
09/14/14	(10)	0.077 U	(10)	0.099 U	(10)	0.17 U	(10)	0.084 U
12/14/14	(10)	0.087 U	(10)	0.12 U	(10)	0.17 U	(10)	0.084 U
06/17/15	(10)	0.19 U	(10)	0.15 U	(10)	0.20 U	(10)	0.14 U
09/23/15	(10)	0.19 U	(10)	0.15 U	(10)	0.20 U	(10)	0.14 U
12/09/15	(10)	0.19 U	(10)	0.15 U	(10)	0.20 U	(10)	0.14 U
03/22/16	(10)	0.19 U	(10)	0.15 U	(10)	0.20 U	(10)	0.14 U
06/15/16	(10)	0.19 U	(10)	0.15 U	(10)	0.20 U	(10)	0.14 U
08/30/16	(10)	0.088 U	(10)	0.12 U	(10)	0.10 U	(10)	0.044 U
12/07/16	(10)	0.088 U	(10)	0.12 U	(10)	0.10 U	(10)	0.044 U
03/22/17	(10)	0.088 U	(10)	0.12 U	(10)	0.10 U	(10)	0.044 U
06/14/17	(10)	0.088 U	(10)	0.12 U	(10)	0.10 U	(10)	0.044 U
08/29/17	(10)	0.088 U	(10)	0.12 U	(10)	0.10 U	(10)	0.044 U
12/13/17	(10)	0.14 U	(10)	0.12 U	(10)	0.13 U	(10)	0.11 U

TABLE 6

NPI VOC ANALYTICAL RESULTS FROM THE EAU CLAIRE MUNICIPAL WELL FIELD (2014-2017)

NOTES:

Concentrations are in micrograms per liter ($\mu\text{g}/\ell$)/parts per billion (ppb).

Samples collected jointly by Gannett Fleming (GF) field staff and a City of Eau Claire Water Department representative.

GF samples analyzed by U.S. Filter using EPA Method 524.2 (Safe Drinking Water Act required method), and city samples analyzed in-house using EPA Method 8260.

Detected concentrations at or above an NR 140 PAL are in red font and italicized.

There are no results at or above an MCL/NR 140 ES.

D = Result of duplicate analysis in this quality assurance batch exceeds the limits for precision.

J = Estimated concentration below laboratory quantitation level.

MCL = Maximum contaminant level is the federal established health-based maximum permissible level of a contaminant in water that is delivered to any user of a public water supply system.

NIS = Not in service at time of split sampling with city.

NS = Not sampled.

U = Compound not detected at or above this value, which is the detection limit.

FOOTNOTES:

(1) Sample collected from spigot on inlet line to Air Stripper Towers A and B. Well water routed through the air stripper included CW-11/15/16/17/19 prior to 04/25/17 and CW-17/19/22/23 starting on 04/25/17.

(2) Sampled collected from spigot on Tower A discharge line.

(3) Sampled collected from spigot on Tower B discharge line.

(4) Distribution system sample collected from drinking fountain or breakroom sink in the water treatment plant (WTP) prior to 08/29/17. Starting on 08/29/17, sample collected from exit port in basement of WTP.

(5) Lab error, results not recorded.

(6) Sample not collected.

(7) Not sampled because sample port was rusted shut.

(8) Shut down for repairs during October 2011 sampling round.

(9) Shut down for repairs.

(10) The City of Eau Claire stopped collecting samples as of May 7, 2014.

NATIONAL PRESTO INDUSTRIES, INC.
EAU CLAIRE, WISCONSIN

TABLE 7

SUMMARY OF RESULTS FROM NPI WELLS ROUTINELY SAMPLED FOR DISSOLVED CADMIUM ANALYSIS (2014-2017)

Date	FN	EW-5	EW-6	MW-4A	MW-4B	MW-10A	MW-10B	MW-34A	MW-34B	MW-34C	MW-68A	MW-68B	MW-70A	MW-70B	MW-75
04/16/14	HS	NS	NS	NS	NS	21.7	7.1	NS	NS	NS	0.60 U	2.5 J	NS	2.7 J	NS
06/16/14	HS	0.79 J	0.60 U	NS	NS	23.4	8.3	7.7	2.0 J	0.97 J	0.64 J	NS	NS	NS	NS
09/16/14	HS	NS	NS	NS	NS	22	2.8 J	NS	NS	NS	NS	2.9 J	NS	3.4 J	NS
12/02/14	HS	0.60 U	0.60 U	NS	NS	22.7	5.5	NS	2.1 J	NS	NS	3.3 J	NS	4.2 J	NS
03/25/15	HS	NS	NS	NS	NS	22.3	5.3	NS	NS	NS	NS	3.2 J	NS	3.4 J	NS
06/17/15	HS	0.60 U	0.60 U	0.60 U	0.70 J	21.4	8.2	12.7	1.2 J	1.2 J	0.81 J	2.9 J	0.73 J	3.6 J	10
09/22/15	HS	NS	NS	NS	NS	20.2	8.0	NS	NS	NS	NS	4.3 J	NS	3.6 J	5.9
12/07/15	HS	0.60 U	0.60 U	NS	NS	20.8	6.4	10.8	1.5 J	NS	0.60 U	4.0 J	0.60 U	3.9 J	2.4 J
03/21/16	HS	NS	NS	NS	NS	19.1	3.8 J	NS	NS	NS	NS	2.4 J	NS	3.5 J	2.4 J
06/13/16	HS	0.60 U	0.60 U	0.60 U	0.65 J	16.7	2.7 J	6.5	1.4 J	0.87 J	0.60 U	4.5 J	0.60 U	3.2 J	2.3 J
08/30/16	HS	NS	NS	NS	NS	18.8	3.6 J	NS	NS	NS	NS	4.0 J	NS	4.1 J	2.2 J
10/06/16	(2)	NS	NS	NS	NS	19.4	NS	NS	NS	NS	NS	NS	NS	NS	NS
12/05/16	(3)	1.3 U	1.3 U	NS	NS	18.8	1.3 U	6.5	1.5 J	NS	NS	4.0 J	NS	4.1 J	2.4 J
03/20/17	HS	NS	NS	NS	NS	18.5	1.4 J	NS	NS	NS	NS	3.9 J	NS	4.0 J	1.9 J
06/13/17	(3)	1.3 U	1.3 U	1.3 U	1.3 U	17.4	3.6 J	4.4 J	1.4 J	1.3 U	1.3 U	3.9 J	1.3 U	4.5 J	2.0 J
08/28/17	HS	NS	NS	NS	NS	20.1	1.3 U	NS	NS	NS	NS	4.0 J	NS	4.0 J	2.1 J
12/12/17	(3)	1.3 U	1.3 U	NS	NS	18.8	1.3 U	1.3 U	1.4 J	NS	NS	2.5 J	NS	2.4 J	1.3 U

NATIONAL PRESTO INDUSTRIES, INC.
EAU CLAIRE, WISCONSIN

TABLE 8

NPI VOC ANALYTICAL RESULTS FROM PLUME 3/4 MONITORING WELLS (2014-2017)

Well ID Sample Date MCL/ES/PAL	Sample Method/ Level	NPI Volatile Organic Compound (VOC) Concentration and Results Qualifier(s)									
		I,I-DCA		I,I-DCE		PCE		I,I-TCA		TCE	
		None/850/85		7/7/0.7		5/5/0.5		200/200/40		5/5/0.5	
MW-5A (monitoring well at Grid Coordinate L6)											
06/16/14	M	0.24	U	0.41	U	0.50	U	0.50	U	0.33	U
12/04/14	M	0.24	U	0.41	U	0.50	U	0.50	U	0.33	U
06/15/15	M	0.24	U	0.41	U	0.50	U	0.50	U	0.33	U
12/07/15	M	0.24	U	0.41	U	0.50	U	0.50	U	0.33	U
06/13/16	M	0.24	U	0.41	U	0.50	U	0.50	U	0.33	U
12/05/16	M	0.24	U	0.41	U	0.50	U	0.50	U	0.33	U
06/12/17	M	0.24	U	0.41	U	0.50	U	0.50	U	0.33	U
12/12/17	M	0.24	U	0.41	U	0.50	U	0.50	U	0.33	U
MW-5B (piezometer at Grid Coordinate L6)											
06/16/14	M	0.24	U	0.41	U	0.50	U	0.50	U	0.33	U
12/04/14	M	0.24	U	0.41	U	0.50	U	0.50	U	0.33	U
06/15/15	M	0.24	U	0.41	U	0.50	U	0.50	U	0.33	U
12/07/15	M	0.24	U	0.41	U	0.50	U	0.50	U	0.33	U
06/13/16	M	0.24	U	0.41	U	0.50	U	0.50	U	0.33	U
12/05/16	M	0.24	U	0.41	U	0.50	U	0.50	U	0.33	U
06/12/17	M	0.24	U	0.41	U	0.50	U	0.50	U	0.33	U
12/12/17	M	0.24	U	0.41	U	0.50	U	0.50	U	0.33	U
MW-6 (monitoring well at Grid Coordinate L6)											
06/15/15	M	0.24	U	0.41	U	0.50	U	0.50	U	0.33	U
06/12/17	M	0.24	U	0.41	U	0.50	U	0.50	U	0.33	U
MW-9A (monitoring well at Grid Coordinate L6)											
06/16/15	M	0.24	U	0.41	U	0.50	U	0.50	U	0.33	U
06/13/17	M	0.24	U	0.41	U	0.50	U	0.50	U	0.33	U
MW-22B (piezometer at Grid Coordinate K6)											
06/16/15	M	0.24	U	0.41	U	0.50	U	0.50	U	0.33	U
06/12/17	M	0.24	U	0.41	U	0.50	U	0.50	U	0.33	U
MW-26A (monitoring well at Grid Coordinate L5)											
06/16/15	M	0.24	U	0.41	U	0.50	U	0.50	U	0.33	U
06/13/17	M	0.24	U	0.41	U	0.50	U	0.50	U	0.33	U
MW-26B (piezometer at Grid Coordinate L5)											
06/17/14	M	0.24	U	0.41	U	0.50	U	0.50	U	0.56	J
12/02/14	M	0.24	UA	0.41	UA	0.50	UA	0.50	UA	0.555	JA
06/16/15	M	0.24	U	0.41	U	0.50	U	0.50	U	0.39	J
12/08/15	M	0.24	U	0.41	U	0.50	U	0.50	U	0.33	U
06/14/16	M	0.24	U	0.41	U	0.50	U	0.50	U	0.36	J
06/13/17	M	0.24	U	0.41	U	0.50	U	0.50	U	0.37	J
12/13/17	M	0.24	U	0.41	U	0.50	U	0.50	U	0.60	J
MW-29A (monitoring well at Grid Coordinate L3)											
04/27/17	LF	0.17	U	0.28	U	0.25	U	0.17	U	0.052	U
MW-29B (piezometer at Grid Coordinate L3)											
06/16/15	M	0.24	U	0.41	U	0.50	U	0.50	U	0.33	U
04/27/17	LF	0.17	U	0.28	U	0.25	U	0.17	U	0.052	U
06/13/17	M	0.24	U	0.41	U	0.50	U	0.50	U	0.33	U

TABLE 8

NPI VOC ANALYTICAL RESULTS FROM PLUME 3/4 MONITORING WELLS (2014-2017)

Well ID Sample Date MCL/ES/PAL	Sample Method/ Level	NPI Volatile Organic Compound (VOC) Concentration and Results Qualifier(s)									
		1,1-DCA		1,1-DCE		PCE		1,1,1-TCA		TCE	
		None/850/85		7/7/0.7		5/5/0.5		200/200/40		5/5/0.5	
MW-62AR (monitoring well at Grid Coordinate L6)											
06/16/14	M	0.24	U	0.41	U	0.50	U	0.50	U	0.33	U
12/02/14	M	0.24	U	0.41	U	0.50	U	0.50	U	0.33	U
06/15/15	M	0.24	U	0.41	U	0.50	U	0.50	U	0.33	U
12/07/15	M	0.24	U	0.41	U	0.50	U	0.50	U	0.33	U
06/13/16	M	0.24	U	0.41	U	0.50	U	0.50	U	0.33	U
12/05/16	M	0.24	U	0.41	U	0.50	U	0.50	U	0.33	U
06/12/17	M	0.24	U	0.41	U	0.50	U	0.50	U	0.33	U
12/12/17	M	0.24	U	0.41	U	0.50	U	0.50	U	0.33	U
MW-62B (piezometer at Grid Coordinate L6)											
06/16/14	M	0.24	U	0.41	U	0.50	U	0.50	U	0.33	U
12/04/14	M	0.24	U	0.41	U	0.50	U	0.50	U	0.33	U
06/15/15	M	0.24	U	0.41	U	0.50	U	0.50	U	0.33	U
12/07/15	M	0.24	U	0.41	U	0.50	U	0.50	U	0.33	U
06/13/16	M	0.24	U	0.41	U	0.50	U	0.50	U	0.33	U
12/05/16	M	0.24	U	0.41	U	0.50	U	0.50	U	0.33	U
06/12/17	M	0.24	U	0.41	U	0.50	U	0.50	U	0.33	U
12/12/17	M	0.24	U	0.41	U	0.50	U	0.50	U	0.33	U
MW-62C (piezometer at Grid Coordinate L6)											
06/16/14	M	0.24	U	0.41	U	0.50	U	0.50	U	0.33	U
06/15/15	M	0.24	U	0.41	U	0.50	U	0.50	U	0.33	U
06/13/16	M	0.24	U	0.41	U	0.50	U	0.50	U	0.33	U
06/12/17	M	0.24	U	0.41	U	0.50	U	0.50	U	0.33	U
MW-63A (monitoring well at Grid Coordinate M6)											
06/16/14	M	0.24	U	0.41	U	0.5	U	0.5	U	0.33	U
06/18/15	M	0.24	U	0.41	U	0.5	U	0.5	U	0.33	U
06/13/16	M	0.24	U	0.41	U	0.5	U	0.5	U	0.33	U
06/12/17	M	0.24	U	0.41	U	0.5	U	0.5	U	0.33	U
MW-63B (piezometer at Grid Coordinate M6)											
06/16/14	M	0.24	U	0.41	U	0.50	U	0.50	U	0.33	U,A
06/15/15	M	0.24	U	0.41	U	0.50	U	0.50	U	0.33	U,A
06/13/16	M	0.24	U	0.41	U	0.50	U	0.50	U	0.33	U
06/12/17	M	0.24	U	0.41	U	0.50	U	0.50	U	0.33	U
MW-65A (monitoring well at Grid Coordinate L6)											
06/16/15	M	0.24	U	0.41	U	0.50	U	0.50	U	0.33	U
06/13/17	M	0.24	U	0.41	U	0.50	U	0.50	U	0.33	U
MW-65B (piezometer at Grid Coordinate L6)											
06/16/14	M	0.24	U	0.41	U	0.50	U	0.50	U	0.34	J
12/02/14	M	0.24	U	0.41	U	0.50	U	0.50	U	0.57	J
06/16/15	M	0.24	U	0.41	U	0.50	U	0.50	U	0.52	J
12/07/15	M	0.24	U	0.41	U	0.50	U	0.50	U	0.42	J
06/13/16	M	0.24	U	0.41	U	0.50	U	0.50	U	0.53	J
12/06/16	M	0.24	U	0.41	U	0.50	U	0.50	U	0.55	J
06/13/17	M	0.24	U	0.41	U	0.50	U	0.50	U	0.33	U
12/13/17	M	0.24	U	0.41	U	0.50	U	0.50	U	0.33	U
MW-65C (piezometer at Grid Coordinate L6)											
06/16/14	M	0.24	U	0.41	U	0.5	U	0.50	U	0.47	J
12/02/14	M	0.24	U	0.41	U	0.50	U	0.50	U	0.71	J
06/16/15	M	0.24	U	0.41	U	0.50	U	0.50	U	0.61	J

TABLE 8

NPI VOC ANALYTICAL RESULTS FROM PLUME 3/4 MONITORING WELLS (2014-2017)

Well ID Sample Date MCL/ES/PAL	Sample Method/ Level	NPI Volatile Organic Compound (VOC) Concentration and Results Qualifier(s)									
		1,1-DCA		1,1-DCE		PCE		1,1,1-TCA		TCE	
		None/850/85		7/7/0.7		5/5/0.5		200/200/40		5/5/0.5	
12/07/15	M	0.24	U	0.41	U	0.50	U	0.50	U	0.55	J
06/13/16	M	0.24	U	0.41	U	0.50	U	0.50	U	0.56	J
12/06/16	M	0.24	U	0.41	U	0.50	U	0.50	U	0.68	J
06/13/17	M	0.24	U	0.41	U	0.50	U	0.50	U	0.63	J
12/13/17	M	0.24	U	0.41	U	0.50	U	0.50	U	0.73	J
MW-66A (monitoring well at Grid Coordinate L6)											
06/16/14	M	0.24	U	0.41	U	0.50	U	0.50	U	0.33	U
12/04/14	M	0.24	U	0.41	U	0.50	U	0.50	U	0.33	U
12/04/14	M	0.24	U	0.41	U	0.50	U	0.50	U	0.33	U
06/15/15	M	0.24	U	0.41	U	0.50	U	0.50	U	0.33	U
12/07/15	M	0.24	U	0.41	U	0.50	U	0.50	U	0.33	U
06/13/16	M	0.24	U	0.41	U	0.50	U	0.50	U	0.33	U
12/05/16	M	0.24	U	0.41	U	0.50	U	0.50	U	0.33	U
06/12/17	M	0.24	U	0.41	U	0.50	U	0.50	U	0.33	U
12/12/17	M	0.24	U	0.41	U	0.50	U	0.50	U	0.33	U
MW-66B (piezometer at Grid Coordinate L6)											
06/16/14	M	0.24	U	0.41	U	0.50	U	0.50	U	0.33	U
12/02/14	M	0.24	U	0.41	U	0.50	U	0.50	U	0.33	U
06/15/15	M	0.24	U	0.41	U	0.50	U	0.50	U	0.33	U
12/07/15	M	0.24	U	0.41	U	0.50	U	0.50	U	0.33	U
06/13/16	M	0.24	U	0.41	U	0.50	U	0.50	U	0.33	U
12/05/16	M	0.24	U	0.41	U	0.50	U	0.50	U	0.33	U
06/12/17	M	0.24	U	0.41	U	0.50	U	0.50	U	0.33	U
12/12/17	M	0.24	U	0.41	U	0.50	U	0.50	U	0.33	U
MW-66C (piezometer at Grid Coordinate L6)											
06/16/14	M	0.24	U	0.41	U	0.50	U	0.50	U	0.33	U
06/16/14	M	0.24	U	0.41	U	0.50	U	0.50	U	0.33	U
06/18/15	M	0.24	U	0.41	U	0.50	U	0.50	U	0.33	U
12/07/15	M	0.24	U	0.41	U	0.50	U	0.50	U	0.33	U
06/13/16	M	0.24	U	0.41	U	0.50	U	0.50	U	0.33	U
12/05/16	M	0.24	U	0.41	U	0.50	U	0.50	U	0.33	U
06/12/17	M	0.24	U	0.41	U	0.50	U	0.50	U	0.33	U
12/12/17	M	0.24	U	0.41	U	0.50	U	0.50	U	0.33	U

TABLE 8

NPI VOC ANALYTICAL RESULTS FROM PLUME 3/4 MONITORING WELLS (2014-2017)

NOTES:

Concentrations are in micrograms per liter ($\mu\text{g/L}$)/parts per billion (ppb).

Detected concentrations at or above an applicable NR 140 PAL are in red font and italicized.

Detected concentrations at or above an applicable MCL/NR 140 ES are in red font and bold.

A = Average of original sample and duplicate. Began this approach in 2014.

B = Compound detected in blank.

CSH = Check standard for this analyte exhibited a high bias. Sample results may also be biased high.

CSL = Check standard for this analyte exhibited a low bias. Sample results may also be biased low.

D = Indicates initial analysis exceeded the calibration range, was diluted and re-analyzed.

Dup = Result of duplicate analysis in this quality assurance batch exceeds the limits for precision.

E = Concentration exceeds calibration range of instrument.

ISH = Internal standard recovery exceeds normal limits. Sample results may be biased low.

J = Estimated concentration below laboratory quantitation level.

MSH = Matrix spike recovery within analytical batch was high. Sample matrix appears similar to your sample; result may be biased high.

MSL = Matrix spike recovery within analytical batch was low. Sample matrix appears similar to your sample; result may be biased low.

NA = Not analyzed.

ND = Not detected at or above the detection limit.

NS = Not sampled.

R = Unusable.

S1H = First sample matrix spike recovery was high.

S2H = Second sample matrix spike recovery was high.

SPH = Matrix spike recovery within analytical batch was high. Sample matrix appears similar to your sample; result may be biased high.

SPL = Matrix spike recovery within analytical batch was low. Sample matrix appears similar to your sample; result may be biased low.

U = Compound not detected at or above the detection limit, which is the value shown.

SAMPLE METHOD/LEVEL KEY:

B = Bailer.

HS = HydraSleeve.

LF = Low flow.

NR = Not recorded until 2009.

PDB = Passive diffusion bag.

H = PDB or HS in upper portion of saturated screened interval.

M = PDB or HS in middle portion of saturated screened interval.

L = PDB or HS in lower portion of saturated screened interval.

NATIONAL PRESTO INDUSTRIES, INC.
EAU CLAIRE, WISCONSIN

TABLE 9

NPI VOC ANALYTICAL RESULTS FROM MRDS EXTRACTION WELLS EW-1R AND EW-2 (2014-2017)

Well ID Sample Date MCL/ES/PAL	Sample Method/ Level	NPI Volatile Organic Compound (VOC) Concentration and Results Qualifier(s)									
		1,1-DCA		1,1-DCE		PCE		1,1,1-TCA		TCE	
		None/850/85		7/7/0.7		5/5/0.5		200/200/40		5/5/0.5	
EW-1/1R (extraction well at Grid Coordinate L6) ^(1,2)											
06/16/14	G	0.24	U	0.41	U	0.50	U	0.50	U	0.33	U
09/15/14	G	0.24	U	0.41	U	0.50	U	0.50	U	0.33	U
03/23/15	G	0.24	U	0.41	U	0.50	U	0.50	U	0.33	U
06/15/15	G	0.24	U	0.41	U	0.50	U	0.50	U	0.33	U
12/07/15	H	0.24	U	0.41	U	0.50	U	0.50	U	0.33	U
03/21/16	H	0.24	U	0.41	U	0.50	U	0.50	U	0.33	U
03/21/16	M	0.24	U	0.41	U	0.50	U	0.50	U	0.33	U
03/21/16	L	0.24	U	0.41	U	0.50	U	0.50	U	0.33	U
06/13/16	H	0.24	U	0.41	U	0.50	U	0.50	U	0.33	U
06/13/16	M	0.24	U	0.41	U	0.50	U	0.50	U	0.33	U
06/13/16	L	0.24	U	0.41	U	0.50	U	0.50	U	0.33	U
12/05/16	H	0.24	U	0.41	U	0.50	U	0.50	U	0.33	U
12/05/16	M	0.24	U	0.41	U	0.50	U	0.50	U	0.33	U
12/05/16	L	0.24	U	0.41	U	0.50	U	0.50	U	0.33	U
03/20/17	H	0.24	U	0.41	U	0.50	U	0.50	U	0.33	U
03/20/17	M	0.24	U	0.41	U	0.50	U	0.50	U	0.33	U
03/20/17	L	0.24	U	0.41	U	0.50	U	0.50	U	0.33	U
06/12/17	H	0.24	U	0.41	U	0.50	U	0.50	U	0.33	U
06/12/17	M	0.24	U	0.41	U	0.50	U	0.50	U	0.33	U
06/12/17	L	0.24	U	0.41	U	0.50	U	0.50	U	0.33	U
08/28/17	H	0.24	U	0.41	U	0.50	U	0.50	U	0.33	U
08/28/17	M	0.24	U	0.41	U	0.50	U	0.50	U	0.33	U
08/28/17	L	0.24	U	0.41	U	0.50	U	0.50	U	0.33	U
12/12/17	H	0.24	U	0.41	U	0.50	U	0.50	U	0.33	U
12/12/17	M	0.24	UA	0.41	UA	0.50	UA	0.50	UA	0.33	UA
12/12/17	L	0.24	U	0.41	U	0.50	U	0.50	U	0.33	U
EW-2 (extraction well at Grid Coordinate L6) ⁽¹⁾											
06/16/14	G	0.24	U	0.41	U	0.50	U	0.50	U	0.33	U
09/15/14	G	0.24	U	0.41	U	0.50	U	0.50	U	0.33	U
03/23/15	G	0.24	U	0.41	U	0.50	U	0.50	U	0.33	U
06/15/15	G	0.24	U	0.41	U	0.50	U	0.50	U	0.33	U
09/22/15	G	0.24	U	0.41	U	0.50	U	0.50	U	0.33	U
12/07/15	G	0.24	U	0.41	U	0.50	U	0.50	U	0.33	U
03/21/16	H	0.24	U	0.41	U	0.50	U	0.50	U	0.33	U
06/13/16	H	0.24	U	0.41	U	0.50	U	0.50	U	0.33	U
06/13/16	L	0.24	U	0.41	U	0.50	U	0.50	U	0.33	U
12/05/16	H	0.24	U	0.41	U	0.50	U	0.50	U	0.33	U
12/05/16	L	0.24	U	0.41	U	0.50	U	0.50	U	0.33	U
03/20/17	H	0.24	U	0.41	U	0.50	U	0.50	U	0.33	U
03/20/17	L	0.24	U	0.41	U	0.50	U	0.50	U	0.33	U
06/12/17	H	0.24	U	0.41	U	0.50	U	0.50	U	0.33	U
06/12/17	L	0.24	U	0.41	U	0.50	U	0.50	U	0.33	U
08/28/17	H	0.24	U	0.41	U	0.50	U	0.50	U	0.33	U
08/28/17	L	0.24	U	0.41	U	0.50	U	0.50	U	0.33	U
12/12/17	H	0.24	U	0.41	U	0.50	U	0.50	U	0.33	U
12/12/17	L	0.24	U	0.41	U	0.50	U	0.50	U	0.33	U

TABLE 9

NPI VOC ANALYTICAL RESULTS FROM MRDS EXTRACTION WELLS EW-1R AND EW-2 (2014-2017)

NOTES:

- Concentrations are in micrograms per liter ($\mu\text{g/L}$)/parts per billion (ppb).
- Detected concentrations at or above an applicable NR 140 PAL are in red font and italicized.
- There are no concentrations at or above an applicable MCL/NR 140 ES.
- A = Average of original sample and duplicate. Began this approach in 2014.
- B = Compound detected in blank.
- CSH = Check standard for this analyte exhibited a high bias. Sample results may also be biased high.
- CSL = Check standard for this analyte exhibited a low bias. Sample results may also be biased low.
- D = Indicates initial analysis exceeded the calibration range, was diluted and re-analyzed.
- Dup = Result of duplicate analysis in this quality assurance batch exceeds the limits for precision.
- E = Concentration exceeds calibration range of instrument.
- ISH = Internal standard recovery exceeds normal limits. Sample results may be biased low.
- J = Estimated concentration below laboratory quantitation level.
- MSH = Matrix spike recovery within analytical batch was high. Sample matrix appears similar to your sample; result may be biased high.
- MSL = Matrix spike recovery within analytical batch was low. Sample matrix appears similar to your sample; result may be biased low.
- NA = Not analyzed.
- ND = Not detected at or above the detection limit.
- NS = Not sampled.
- R = Unusable.
- S1H = First sample matrix spike recovery was high.
- S2H = Second sample matrix spike recovery was high.
- SPH = Matrix spike recovery within analytical batch was high. Sample matrix appears similar to your sample; result may be biased high.
- SPL = Matrix spike recovery within analytical batch was low. Sample matrix appears similar to your sample; result may be biased low.
- U = Compound not detected at or above the detection limit, which is the value shown.

SAMPLE METHOD/LEVEL KEY:

- B = Bailer.
- G = Grab sample collected from sample tap while the extraction well was pumping groundwater.
- HS = HydraSleeve.
- LF = Low flow.
- PDB = Passive diffusion bag.
- H = PDB or HS in upper portion of saturated screened interval.
- M = PDB or HS in middle portion of saturated screened interval.
- L = PDB or HS in lower portion of saturated screened interval.

FOOTNOTES:

- (1) EW-1R and EW-2 have been shut down since October 2010, as approved by both agencies.
- (2) EW-1R replaced EW-1 in September 1995.

NATIONAL PRESTO INDUSTRIES, INC.
EAU CLAIRE, WISCONSIN

TABLE 10

ANNUAL PUMPAGE FROM NPI EXTRACTION WELLS (MG)

Year	MRDS Operations			Southwest Corner Operations					Combined Discharge to Storm Sewer
	EW-1/1R	EW-2	CAS-1	EW-3	EW-4	EW-5	EW-6	CAS-2/2R	
1994 ⁽¹⁾	42.89	34.34	77.23	30.6	56.91	NI	NI	87.51	164.74
1995	37.41	35.98	73.39	29.8	75.8	NI	NI	105.60	178.99
1996	59.75	48.95	108.7	24.63	87.08	NI	NI	111.71	220.41
1997	59.72	47.96	107.68	22.49	85.17	NI	NI	107.66	215.34
1998 ⁽²⁾	46.45	38.59	85.04	21.22	76.23	NI	NI	97.45	182.49
1999 ⁽³⁾	56.00	46.67	102.67	20.39	71.33	NI	NI	91.72	194.39
2000	55.15	51.11	106.26	21.62	70.67	NI	NI	92.29	198.55
2001	54.24	50.18	104.42	26.26	68.97	NI	NI	95.23	199.65
2002	53.73	50.55	104.28	33.04	69.70	NI	NI	102.74	207.02
2003	53.61	49.36	102.97	21.54	83.60	NI	NI	105.14	208.11
2004	48.38	47.59	95.97	NO	74.23	86.70	NI	160.93	256.90
2005 ⁽⁴⁾	46.24	43.67	89.91	NO	57.82	81.48	NI	139.30	229.21
2006	46.34	43.46	89.8	NO	52.36	74.83	NI	127.19	216.99
2007	42.62	38.99	81.61	NO	43.73	64.46	NI	108.19	189.80
2008	44.19	40.46	84.65	NO	44.06	65.75	NI	109.81	194.46
2009 ⁽⁵⁾	43.30	25.73	69.03	NO	43.41	73.45	NI	116.86	185.89
2010 ⁽⁶⁾	32.88	19.5	52.38	NO	36.12	74.63	NI	110.75	163.13
2011 ^(7,8)	NO	NO	NO	abnd	abnd	88.80	26.77	115.57	115.57
2012 ⁽⁸⁾	NO	NO	NO	abnd	abnd	88.92	103.44	192.36	192.36
2013	NO	NO	NO	abnd	abnd	89.40	99.64	189.04	189.04
2014	NO	NO	NO	abnd	abnd	87.25	97.24	184.49	184.49
2015	NO	NO	NO	abnd	abnd	59.82	89.09	148.91	148.91
2016	NO	NO	NO	abnd	abnd	NO	96.44	96.44	96.44
2017	NO	NO	NO	abnd	abnd	NO	70.40	70.40	70.40
TOTALS	822.90	713.09	1,535.99	251.59	1,097.19	935.49	583.02	2,867.29	4,403.28

NOTES:

Units are in millions of gallons (MG).

CAS-1 and CAS-2/2R were/cascade aerators serving the extraction wells shown and discharge to the storm sewer via manhole MH-18.

EW-3 was turned off in August 2003 when its pump failed. The well was abandoned on June 24, 2010.

EW-4 was turned off and abandoned in October 2010.

EW-5 began full-time operation on January 8, 2014, and stopped operating on September 12, 2015.

EW-6 began operating in late October 2011.

abnd = Abandoned and not operating.

NI = Not installed and operating.

NO = Not operated in year shown.

FOOTNOTES:

(1) No pumpage in Jan. and Feb.; full-scale pumping did not begin until March.

(2) Pumpage affected in June and July; pumps were off all or part of these months due to construction at Melby Road and removal of Drywell #2.

(3) Pumpage affected in June for EW-3 and EW-4; pump and meter replaced at EW-3, new flow meter turbine at EW-4.

(4) Pumpage affected in May; pumps were turned off on the 16th and back on the 17th to shock O/W separator and address algae growth.

(5) Pumpage affected in August, November, and December for EW-2 due to pump problems.

(6) Pumpage for EW-2 was affected Jan.-Feb. due to pump problems. EW-4 affected in March-June due to low groundwater elevations. EW-5 affected Oct. 18-Nov. 9 while CAS-2 was replaced and power re-routed. All wells off Sept. 22-27 for O/W separator maintenance.

(7) EW-6 was shut down all or part of October 14-16 and 22-23 for pump tests.

(8) During their 18-month trial shutdown, EW-1R and EW-2 only operated about 15 minutes each per quarter to purge them prior to sampling.

NATIONAL PRESTO INDUSTRIES, INC.
EAU CLAIRE, WISCONSIN

TABLE 11

TCA CONCENTRATIONS IN NPI PUMPED GROUNDWATER (2014-2017)

Date	FN	MRDS		CAS-1		Southwest Corner					CAS-2/2R		Manhole	
		Extraction Wells		Effluent	Percent Removal	Extraction Wells					Effluent	Percent Removal	MH-18	RQ
		EW-1/1R	EW-2			EW-3	EW-4	EW-5	EW-6	RQ				
04/14/14		NO	NO	NO	na	abnd	abnd	0.50 U	1.4		NS	--	0.50	U
06/17/14		NO	NO	NO	na	abnd	abnd	0.50 U	1.5		NS	--	0.59	J
09/18/14		NO	NO	NO	na	abnd	abnd	0.50 U	1.2		NS	--	0.50	U
12/02/14		NO	NO	NO	na	abnd	abnd	0.50 U	1.2		NS	--	0.50	U
03/23/15		NO	NO	NO	na	abnd	abnd	0.50 U	1.2		NS	--	0.68	J
06/15/15		NO	NO	NO	na	abnd	abnd	0.50 U	1.4		NS	--	0.60	J
09/22/15		NO	NO	NO	na	abnd	abnd	NO	1.4		NS	36	0.89	J
12/07/15		NO	NO	NO	na	abnd	abnd	NO	0.86	J	NS	--	0.90	J
03/21/16		NO	NO	NO	na	abnd	abnd	NO	1.3		NS	36	0.83	J
06/13/16		NO	NO	NO	na	abnd	abnd	NO	1.5		NS	33	1.0	
08/30/16		NO	NO	NO	na	abnd	abnd	NO	1.1		NS	37	0.69	J
12/06/16		NO	NO	NO	na	abnd	abnd	NO	1.2		NS	42	0.70	J
06/13/17		NO	NO	NO	na	abnd	abnd	NO	1.4		NS	41	0.83	J
Aug-17		NO	NO	NO	na	abnd	abnd	NO	1.3	A	NS	32	0.88	J
Dec-17		NO	NO	NO	na	abnd	abnd	NO	1.3	A	NS	51	0.61	J

NOTES:

Concentrations are in micrograms per liter (µg/l) and sampling frequency was reduced to quarterly after November 1998.

A = Average of original sample and duplicate. Began this approach in 2014.

abnd = Abandoned and not operating.

FN = Footnotes (see below, if any).

J = Estimated concentration below laboratory quantitation level.

N = No removal needed as influent concentrations were below the detection limit.

na = Not applicable.

NI = Not installed and operating.

NO = Not operating.

NS = Not sampled.

RQ = Results qualifier.

U = Compound not detected at or above this value, which is the detection limit.

-- = Percent removal not estimated due to ND input, U value(s), NS, no removal, etc.

NATIONAL PRESTO INDUSTRIES, INC.
EAU CLAIRE, WISCONSIN

TABLE 12

TCE CONCENTRATIONS IN NPI PUMPED GROUNDWATER (2014-2017)

Date	FN	MRDS		CAS-1		Southwest Corner					CAS-2/2R		Manhole	
		Extraction Wells		Effluent	Percent Removal	Extraction Wells					Effluent	Percent Removal	MH-18	RQ
		EW-1/1R	EW-2			EW-3	EW-4	EW-5	EW-6	RQ				
04/14/14		NO	NO	NO	na	abnd	abnd	0.60 J	0.73 J	J	NS	46	0.36	J
06/17/14		NO	NO	NO	na	abnd	abnd	0.65 J	0.85 J	J	NS	27	0.55	J
09/18/14		NO	NO	NO	na	abnd	abnd	0.52 J	0.71 J	J	NS	27	0.45	J
12/02/14		NO	NO	NO	na	abnd	abnd	0.57 J	0.79 J	J	NS	28	0.49	J
03/23/15		NO	NO	NO	na	abnd	abnd	0.33 U	0.99 J	J	NS	29	0.47	J
06/15/15		NO	NO	NO	na	abnd	abnd	0.41 J	0.71 J	J	NS	--	0.70	J
09/22/15		NO	NO	NO	na	abnd	abnd	NO	0.79 J	J	NS	30	0.55	J
12/07/15		NO	NO	NO	na	abnd	abnd	NO	0.58 J	J	NS	--	0.61	J
03/21/16		NO	NO	NO	na	abnd	abnd	NO	0.75 J	J	NS	36	0.48	J
06/13/16		NO	NO	NO	na	abnd	abnd	NO	0.81 J	J	NS	20	0.65	J
08/30/16		NO	NO	NO	na	abnd	abnd	NO	0.73 J	J	NS	30	0.51	J
12/06/16		NO	NO	NO	na	abnd	abnd	NO	0.70 J	J	NS	23	0.54	J
06/13/17		NO	NO	NO	na	abnd	abnd	NO	0.75 J	J	NS	48	0.39	J
08/28/17		NO	NO	NO	na	abnd	abnd	NO	0.82 JA	JA	NS	34	0.54	J
12/12/17		NO	NO	NO	na	abnd	abnd	NO	0.71 JA	JA	NS	28	0.51	J

NOTES:

Concentrations are in micrograms per liter (µg/l) and sampling frequency was reduced to quarterly after November 1998.

A = Average of original sample and duplicate. Began this approach in 2014.

abnd = Abandoned and not operating.

FN = Footnotes (see below, if any).

J = Estimated concentration below laboratory quantitation level.

N = No removal needed as influent concentrations were below the detection limit.

na = Not applicable.

NI = Not installed and operating.

NO = Not operating.

NS = Not sampled.

RQ = Results qualifier.

U = Compound not detected at or above this value, which is the detection limit.

-- = Percent removal not estimated due to ND input, U value(s), NS, no removal, etc.

NATIONAL PRESTO INDUSTRIES, INC.
EAU CLAIRE, WISCONSIN

TABLE 13

SUMMARY OF RESULTS FROM MANHOLE MH-18 SAMPLING (2014-2017)

Method (units) Analyte/Parameter	Date				Date				Date				Date ⁽¹⁾		
	4/14/14	6/17/14	9/18/14	12/4/14	3/24/15	6/16/15	9/23/15	12/8/15	3/21/16	6/13/16	8/30/16	12/6/16	6/13/17	8/29/17	12/12/17
EPA 150.1 (standard units)															
Field pH	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	7.5
EPA 6010 (mg/L)															
Hardness as CaCO ₃	NA	NA	NA	50.1	NA	NA	NA	46.2	NA	NA	NA	51.2	NA	NA	51.9
EPA 6010/6020 (µg/L)															
Total Arsenic	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Cadmium	NA	NA	NA	<1.0	NA	NA	NA	<1.0	NA	NA	NA	<1.3	NA	NA	<1.3 ⁽²⁾
Total Chromium	NA	NA	NA	NA	NA	NA	NA	2.2 J	NA	NA	NA	NA	NA	NA	<2.5
Total Copper	NA	NA	NA	NA	NA	NA	NA	<3.4	NA	NA	NA	NA	NA	NA	8.0 J
Total Lead	NA	NA	NA	NA	NA	NA	NA	<1.6	NA	NA	NA	NA	NA	NA	6.8 J
Total Nickel	NA	NA	NA	17.7	NA	NA	NA	2.0 J	NA	NA	NA	3.3 J	NA	NA	4.7 J
Total Selenium	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Silver	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Zinc	NA	NA	NA	23.6 J	NA	NA	NA	8.7 J	NA	NA	NA	<9.3	NA	NA	55.5
Trivalent Chromium	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
EPA 7196A (mg/L)															
Hexavalent Chromium	NA	NA	NA	NA	NA	NA	NA	<0.0039	NA	NA	NA	NA	NA	NA	<0.0051
NPI volatile organic compounds (VOCs) by EPA 8021/8260 (µg/L)															
1,1,1-Trichloroethane	<0.50	0.59J	<0.50	<0.50	0.68 J	0.60 J	0.89 J	0.90 J	0.83 J	1.0	0.69 J	0.70 J	0.83 J	0.88 J	0.61 J
1,1-Dichloroethane	<0.16	<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
1,1-Dichloroethylene	<0.41	<0.41	<0.41	<0.41	<0.41	<0.41	<0.41	<0.41	<0.41	<0.41	<0.41	<0.41	<0.41	<0.41	<0.41
Tetrachloroethylene	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Trichloroethylene	0.36J	0.55J	0.45 J	0.49 J	0.47 J	0.70 J	0.55 J	0.61 J	0.48 J	0.65	0.51 J	0.54 J	0.39 J	0.54 J	0.51 J
Polycyclic aromatic hydrocarbons by EPA 8270/8310 (µg/L)															
Acenaphthene	NA	NA	NA	0.024 J	NA	NA	NA	<1.3	NA	NA	NA	0.040	NA	NA	0.050
Acenaphthylene	NA	NA	NA	0.0046 J	NA	NA	NA	<1.0	NA	NA	NA	<0.0050	NA	NA	0.0047J
Anthracene	NA	NA	NA	0.0037 J	NA	NA	NA	<1.7	NA	NA	NA	<0.010	NA	NA	0.013J

TABLE 13

SUMMARY OF RESULTS FROM MANHOLE MH-18 SAMPLING (2014-2017)

Method (units) Analyte/Parameter	Date				Date				Date				Date ⁽¹⁾		
	4/14/14	6/17/14	9/18/14	12/4/14	3/24/15	6/16/15	9/23/15	12/8/15	3/21/16	6/13/16	8/30/16	12/6/16	6/13/17	8/29/17	12/12/17
Benzo(a)Anthracene	NA	NA	NA	<0.0020	NA	NA	NA	<0.51	NA	NA	NA	<0.0076	NA	NA	<0.0068
Benzo(a)Pyrene	NA	NA	NA	<0.0026	NA	NA	NA	<1.8	NA	NA	NA	<0.0011	NA	NA	<0.0095
Benzo(b)Fluoranthene	NA	NA	NA	<0.0028	NA	NA	NA	<0.62	NA	NA	NA	<0.0057	NA	NA	<0.0052
Benzo(ghi)Perylene	NA	NA	NA	<0.0032	NA	NA	NA	<0.77	NA	NA	NA	<0.0068	NA	NA	<0.0061
Benzo(k)Fluoranthene	NA	NA	NA	<0.0034	NA	NA	NA	<0.95	NA	NA	NA	<0.0076	NA	NA	<0.0068
Chrysene	NA	NA	NA	<0.0021	NA	NA	NA	<1.7	NA	NA	NA	<0.013	NA	NA	<0.012
Dibenz(a,h)Anthracene	NA	NA	NA	<0.0032	NA	NA	NA	<1.3	NA	NA	NA	<0.010	NA	NA	<0.0090
Fluoranthene	NA	NA	NA	<0.0023	NA	NA	NA	<0.54	NA	NA	NA	<0.011	NA	NA	<0.0096
Fluorene	NA	NA	NA	0.011 J	NA	NA	NA	<0.71	NA	NA	NA	0.018 J	NA	NA	0.022J
Indeno(1,2,3-cd)Pyrene	NA	NA	NA	<0.0025	NA	NA	NA	<1.4	NA	NA	NA	<0.018	NA	NA	<0.016
1-Methyl Naphthalene	NA	NA	NA	0.018 J	NA	NA	NA	<1.6	NA	NA	NA	0.012 J	NA	NA	0.096
2-Methyl Naphthalene	NA	NA	NA	0.0060 J	NA	NA	NA	<1.4	NA	NA	NA	0.0074 J	NA	NA	0.027
Naphthalene	NA	NA	NA	0.028 J	NA	NA	NA	<1.8	NA	NA	NA	<0.018	NA	NA	0.072J
Phenanthrene	NA	NA	NA	0.0043 J	NA	NA	NA	<1.7	NA	NA	NA	<0.014	NA	NA	0.023J
Pyrene	NA	NA	NA	0.0025 J	NA	NA	NA	<1.3	NA	NA	NA	<0.0076	NA	NA	<0.0069
EPA 8270 (µg/L)															
Pentachlorophenol	NA	NA	NA	NA	NA	NA	NA	<1.4	NA	NA	NA	NA	NA	NA	<1.4

TABLE 13

SUMMARY OF RESULTS FROM MANHOLE MH-18 SAMPLING (2014-2017)

NOTES:

Concentrations are in micrograms per liter ($\mu\text{g/L}$) or milligrams per liter (mg/L) as shown.

A quarterly sample for NPI VOC analysis is routinely collected from MH-18 for discharge monitoring. In addition, MH-18 is sampled once a year for an expanded analyte list, per agreement with the WDNR. In odd years the list includes hardness (as CaCO_3); cadmium, chromium, chromium+6, copper, lead, nickel, and zinc as total metals; PAHs; and pentachlorophenol. In even years, the list includes hardness (as CaCO_3); cadmium, nickel, and zinc as total metals; and PAHs.

CSH = Check standard for this analyte exhibited a high bias. Sample results may also be biased high.

CSL = Check standard for this analyte exhibited a low bias. Sample results may also be biased low.

HT = This result was analyzed outside of the EPA recommended holding time.

J = Estimated concentration below laboratory quantitation level.

NA = Not analyzed.

PN = Physical nature (e.g., color) indicated a potential problem and a dilution was taken to protect the instrument.

S1L = First sample matrix spike recovery was low.

S2L = Second sample matrix spike recovery was low.

SH = Surrogate recovery was high. Result for sample may be biased high.

FOOTNOTES:

(1) All NPI groundwater extraction wells were shut down in the first quarter of 2017. Consequently, no quarterly sample was collected from MH-18.

(2) The sample(s) submitted for metals analysis was/were inadvertently filtered, and thus the results represent dissolved concentrations. The data are within the historical range.

NATIONAL PRESTO INDUSTRIES, INC.
EAU CLAIRE, WISCONSIN

TABLE 14

GROUNDWATER AND PUMPED GROUNDWATER SAMPLING AND WELL ABANDONMENT SCHEDULE FOR 2018

PLUME Grouping Sample ID	Grid ID/ Sample Location	Current Sampling Frequency		Proposed Sampling Frequency		Comments and/or Description of Change as it Applies to Sampling for NPI VOCs ⁽¹⁾ (A=Annual, Chg=Change, ND=non-detect, Q=Quarterly, SA=Semi-Annual)
		NPI VOCs	Cadmium	NPI VOCs	Cadmium	
PLUME 1/2						
CW-11	B8	Quarterly	None	None	None	Stop sampling; TCE=ND since 4/10 & CW-11 downgradient of CW-15/19/22
CW-15	B8	Quarterly	None	Quarterly	None	
CW-16	B8	Quarterly	None	None	None	Stop sampling; TCE=ND since 9/15 & CW-16 downgradient of CW-15/19/22
CW-17	B8	Quarterly	None	None	None	Stop sampling; TCE=ND since 4/11 & CW-17 downgradient of CW-15/19/22
CW-19	B7	Quarterly	None	Quarterly	None	
CW-22	C7	Quarterly	None	Quarterly	None	
CW-23	B7	Quarterly	None	Quarterly	None	
Raw	Air stripper bldg	Quarterly	None	Quarterly	None	
Tower A	Air stripper bldg	Quarterly	None	Quarterly	None	
Tower B	Air stripper bldg	Quarterly	None	Quarterly	None	
Finished Product	Water plant	Quarterly	None	Quarterly	None	
EC-1	C7	Quarterly	None	Annual	None	
EC-2	C7	Annual	None	Annual	None	
EC-5	C7	Annual	None	None	None	Stop sampling; TCE=ND since 5/97 & location outside 1993 TCE plume
EC-6	C7	Annual	None	Annual	None	
EW-5 ⁽²⁾	K7	Quarterly	Semi-annual	None	None	Stop sampling; use results from MW-68A/B <100 feet downgradient instead
EW-6	K7	Quarterly	Semi-annual	Quarterly	None	
CAS-2R	K7	None	None	None	None	Use results from MH-18; we believe water quality is essentially the same ⁽³⁾
MH-18	K7	Quarterly	Annual	Quarterly	Annual	Expanded analyte list in Q3 ⁽⁴⁾
MW-4A	K7	Quarterly	Annual	Annual	None	Chg from Q to A; TCE=ND & last detect was 0.68J on 6/6/11
MW-4B	K7	Quarterly	Annual	Quarterly	Annual	
MW-10A	K8	None	Quarterly	None	Quarterly	
MW-10B	K8	None	Quarterly	None	Annual	
MW-11A	K7	None	None	None	None	

TABLE 14

GROUNDWATER AND PUMPED GROUNDWATER SAMPLING AND WELL ABANDONMENT SCHEDULE FOR 2018

PLUME Grouping Sample ID	Grid ID/ Sample Location	Current Sampling Frequency		Proposed Sampling Frequency		Comments and/or Description of Change as it Applies to Sampling for NPI VOCs ⁽¹⁾ (A=Annual, Chg=Change, ND=non-detect, Q=Quarterly, SA=Semi-Annual)
		NPI VOCs	Cadmium	NPI VOCs	Cadmium	
MW-12A	L7	None	None	None	None	
MW-23A	J7	Quarterly	None	Annual	None	Change from quarterly to annual; TCE<1 ppb on 8/29/17 and 12/14/17
MW-23B	J7	Quarterly	None	Annual	None	Change from quarterly to annual; TCE<2 ppb on 8/29/17 and 12/14/17
MW-34A	K8	Quarterly	Semi-annual	Quarterly	Annual	
MW-34B	K8	Quarterly	Semi-annual	Annual	Annual	Chg from Q to A; TCE=ND & last detect was 0.37J ppb on 7/17/01
MW-34C	K8	Quarterly	Annual	Annual	Annual	Chg from Q to A; TCE=ND & last detect was 2.4 ppb on 10/10/12
MW-35A	I7	Annual	None	Annual	None	
MW-35B	I7	Annual	None	Annual	None	
MW-37A	I7	None	None	None	None	
MW-37B	I7	Biennial	None	None	None	Stop sampling; TCE=ND & outside current TCE plume centerline
MW-38A	I8	Annual	None	Annual	None	
MW-38B	I8	Semi-annual	None	Annual	None	Change from semi-annual to annual; TCE<5 ppb since 12/16/10
MW-38C	I8	Annual	None	Annual	None	
MW-39A	J8	None	None	None	None	Abandon well; TCE=0.8 and 0.2 ppb in 10/88 & 2/94 and ND since 3/94
MW-41A	H8	Annual	None	Annual	None	
MW-41B	H8	Annual	None	Annual	None	
MW-43A	H7	Annual	None	Annual	None	
MW-43B	H7	Annual	None	Annual	None	
MW-45A	F6	Biennial	None	Biennial	None	
MW-45B	F6	Semi-annual	None	Annual	None	Change from semi-annual to annual; TCE<5 ppb since 10/12/00
MW-45C	F6	Semi-annual	None	Annual	None	Change from semi-annual to annual; TCE<5 ppb since 10/7/99
MW-46A	G7	Lost	None	Lost	None	If found, sample once for NPI VOCs and evaluate
MW-46B	G7	Lost	None	Lost	None	If found, sample once for NPI VOCs and evaluate
MW-46C	G7	Lost	None	Lost	None	If found, sample once for NPI VOCs and evaluate
MW-47A	G7	Biennial	None	None	None	Abandon well; TCE=2 ppb in 12/91 and <1 ppb since 4/08
MW-47B	G7	Biennial	None	None	None	Abandon piezometer; TCE=0.8 ppb in 12/91 and ND since 4/08
MW-49A	D6	Biennial	None	Biennial	None	

TABLE 14

GROUNDWATER AND PUMPED GROUNDWATER SAMPLING AND WELL ABANDONMENT SCHEDULE FOR 2018

PLUME Grouping Sample ID	Grid ID/ Sample Location	Current Sampling Frequency		Proposed Sampling Frequency		Comments and/or Description of Change as it Applies to Sampling for NPI VOCs ⁽¹⁾ (A=Annual, Chg=Change, ND=non-detect, Q=Quarterly, SA=Semi-Annual)
		NPI VOCs	Cadmium	NPI VOCs	Cadmium	
MW-49B	D6	Biennial	None	Biennial	None	
MW-50A	F6	Lost	None	Lost	None	If found, sample once for NPI VOCs and evaluate
MW-50B	F6	Lost	None	Lost	None	If found, sample once for NPI VOCs and evaluate
MW-51A	F6	Biennial	None	Biennial	None	
MW-51B	F6	Annual	None	Annual	None	
MW-52A	F6	Annual	None	Annual	None	
MW-52B	F6	Annual	None	Annual	None	
MW-53A	E6	Biennial	None	Biennial	None	
MW-53B	E6	Annual	None	Annual	None	
MW-54A	D6	Biennial	None	Biennial	None	
MW-54B	D6	Annual	None	Annual	None	
MW-54C	D6	Annual	None	Annual	None	
MW-55A	D6	None	None	None	None	
MW-55B	D6	Annual	None	Annual	None	
MW-55C	D6	Annual	None	Annual	None	
MW-57A	E6	Biennial	None	None	None	Abandon well; TCE=0.9 ppb in 12/91; <0.4 ppb since 4/08
MW-57B	E6	Biennial	None	None	None	Abandon piezometer; TCE=1 ppb in 12/91; <0.5 ppb since 4/08
MW-59A	F6	Lost	None	Lost	None	If found, sample once for NPI VOCs and evaluate
MW-59B	F6	Lost	None	Lost	None	If found, sample once for NPI VOCs and evaluate
MW-60A	D7	Biennial	None	None	None	Abandon well; TCE=ND always starting in 12/91
MW-60B	D7	Biennial	None	None	None	Abandon piezometer; TCE=ND always starting in 12/91
MW-61A	C6	Biennial	None	None	None	Stop sampling; TCE=0.6 and 0.4J ppb in 12/91 & 4/08; ND since 10/11
MW-61B	C6	Biennial	None	None	None	Stop sampling; TCE=0.9 ppb in 12/91 and <0.9 ppb since 4/08
MW-68A	J7	Annual	Annual	Quarterly	Annual	Change from annual to quarterly if EW-5 sampling stops
MW-68B	J7	Semi-annual	Quarterly	Quarterly	Annual	Change from semi-annual to quarterly if EW-5 sampling stops
MW-69A	J8	None	None	None	None	
MW-69B	J8	None	None	None	None	Abandon piezometer; TCE<0.5 ppb always since 7/92 and ND since 1/01

TABLE 14

GROUNDWATER AND PUMPED GROUNDWATER SAMPLING AND WELL ABANDONMENT SCHEDULE FOR 2018

PLUME Grouping Sample ID	Grid ID/ Sample Location	Current Sampling Frequency		Proposed Sampling Frequency		Comments and/or Description of Change as it Applies to Sampling for NPI VOCs ⁽¹⁾ (A=Annual, Chg=Change, ND=non-detect, Q=Quarterly, SA=Semi-Annual)
		NPI VOCs	Cadmium	NPI VOCs	Cadmium	
MW-70A	K8	Quarterly	Annual	Quarterly	Annual	
MW-70B	K8	Quarterly	Quarterly	Annual	Annual	Chg from Q to A; TCE=3.94-32 ppb in 2001-2003 but ND since 02/04
MW-71A	K8	None	None	None	None	Abandon well; TCE<0.3 ppb always since 7/92 and ND since 5/97
MW-74A	J8	Semi-annual	None	Annual	None	
MW-74B	J8	Semi-annual	None	None	None	Stop sampling; TCE=ND always since 7/22/03
MW-75	K8	None	Quarterly	None	Annual	
MW-76A	K7	Quarterly	None	Quarterly	None	
MW-76B	K7	Quarterly	None	Annual	None	Chg from Q to A; TCE=1.54 ppb in 10/10 but ND since 12/10
MW-77A	K7	Quarterly	None	Quarterly	None	
MW-77B	K7	Quarterly	None	Quarterly	None	
MW-77C	K7	Quarterly	None	Annual	None	Change from quarterly to annual; TCE=0.36U-1.13J ppb
PW-2	K7	None	None	None	None	
RW-2A	J7	Semi-annual	None	Annual	None	Change from semi-annual to annual; TCE<1.2 ppb since 12/22/11
RW-2B	J7	Semi-annual	None	Annual	None	Change from semi-annual to annual; TCE<2.3 ppb since 10/9/12
RW-2C	J7	Semi-annual	None	Annual	None	Change from semi-annual to annual; TCE<1.8 ppb since 10/9/12
RW-3A	C6	Semi-annual	None	Semi-annual	None	
RW-3B	C6	Semi-annual	None	Semi-annual	None	
RW-3C	C6	Semi-annual	None	Semi-annual	None	
RW-15	J7	Semi-annual	None	Annual	None	Change from semi-annual to annual; TCE<5 ppb since 6/7/11
RW-16	G7	Annual	None	Annual	None	
RW-16B	G7	Annual	None	Annual	None	
RW-16C	G7	Annual	None	Annual	None	
RW-18	H8	None	None	None	None	
RW-23	H7	Lost	None	Lost	None	If found, sample once for NPI VOCs and evaluate
WW-15	I8	Annual	None	Annual	None	

TABLE 14

GROUNDWATER AND PUMPED GROUNDWATER SAMPLING AND WELL ABANDONMENT SCHEDULE FOR 2018

PLUME Grouping Sample ID	Grid ID/ Sample Location	Current Sampling Frequency		Proposed Sampling Frequency		Comments and/or Description of Change as it Applies to Sampling for NPI VOCs ⁽¹⁾ (A=Annual, Chg=Change, ND=non-detect, Q=Quarterly, SA=Semi-Annual)
		NPI VOCs	Cadmium	NPI VOCs	Cadmium	
PLUME 3/4						
EW-1R ⁽²⁾	L6	Quarterly	None	None	None	Stop sampling; TCE=ND, offsetting MWs, SVE vapor barrier
EW-2 ⁽²⁾	L6	Quarterly	None	None	None	Stop sampling; TCE=ND, offsetting MWs, SVE vapor barrier
CAS-1	L6	None	None	None	None	Quarterly sampling if EW-1R and/or EW-2 resume pumping
MW-1	M8	None	None	None	None	
MW-5A	L6	Semi-annual	None	Annual	None	Change from semi-annual to annual; TCE ND since 4/91 ^(5,6)
MW-5B	L6	Semi-annual	None	None	None	Stop sampling; TCE=2 and 0.15J ppb in 7/90 & 10/99 and ND since 2/00 ^(5,6)
MW-6	L6	Biennial	None	None	None	Stop sampling; TCE=0.133J ppb on 10/5/99; ND since 2/1/00
MW-7 ⁽⁷⁾	M6	None	None	None	None	
MW-8 ⁽⁷⁾	M6	None	None	None	None	Abandon well; NPI VOCs all ND (TCE=0.52U and 0.2U ppb in 1/88 & 5/90)
MW-9A	L6	Biennial	None	None	None	Abandon well; TCE=0.247J ppb on 10/5/99; ND since 2/1/00
MW-9B	L6	None	None	None	None	Abandon piezometer; TCE=0.2J and 0.11 ppb in 10/88 & 2/94; ND since 3/94
MW-13A	L7	None	None	None	None	
MW-18	M7	None	None	None	None	
MW-22A	K6	None	None	None	None	Abandon well; TCE=0.25 ppb in 10/88, 0.2J in 5/90, 0.4U on 3/31/08
MW-22B	K6	Biennial	None	None	None	Abandon piezometer; TCE=0.4J-0.62 ppb (10/88-12/11); ND since 10/9/12
MW-26A	L5	Biennial	None	None	None	Abandon well; TCE=0.7 and 1.0 ppb in 7/89 & 5/90; ND since 4/08
MW-26B	L5	Semi-annual	None	None	None	Abandon piezometer; TCE=2.0 ppb in 7/89 and 3/09;<0.8 ppb since 4/08
MW-27A	L5	None	None	None	None	Abandon well; TCE=0.1J pbb on 7/21/89; ND since 5/25/90
MW-27B	L5	None	None	None	None	Abandon piezometer; TCE=3 and 2 ppb in 7/89 & 5/90; ND since 5/9/01
MW-29A	L3	None	None	None	None	Abandon well; TCE=0.6 and 0.7 ppb in 7/89 & 5/90; ND since 5/9/01
MW-29B	L3	Biennial	None	None	None	Abandon piezometer; TCE=0.4U-1 ppb (7/89-6/11); ND since 10/18/11
MW-62AR	L6	Semi-annual	None	Annual	None	Chg from SA to A; NPI VOCs=ND since 6/6/11 ^(5,6)
MW-62B	L6	Semi-annual	None	Annual	None	Chg from SA to A; NPI VOCs=ND since 9/21/09 ^(5,6)
MW-62C	L6	Annual	None	None	None	Stop sampling; NPI VOCs= ND since 10/21/97 ^(5,6)
MW-63A	M6	Annual	None	Annual	None	Re-evaluate frequency if EW-1R and/or EW-2 resume pumping ⁽⁶⁾
MW-63B	M6	Annual	None	None	None	Stop sampling; NPI VOCs= ND since 10/21/97 ^(5,6)

TABLE 14

GROUNDWATER AND PUMPED GROUNDWATER SAMPLING AND WELL ABANDONMENT SCHEDULE FOR 2018

PLUME Grouping Sample ID	Grid ID/ Sample Location	Current Sampling Frequency		Proposed Sampling Frequency		Comments and/or Description of Change as it Applies to Sampling for NPI VOCs ⁽¹⁾ (A=Annual, Chg=Change, ND=non-detect, Q=Quarterly, SA=Semi-Annual)
		NPI VOCs	Cadmium	NPI VOCs	Cadmium	
MW-65A	L6	Biennial	None	None	None	Stop sampling; NPI VOCs= ND always starting 12/19/91 ^(5,6)
MW-65B	L6	Semi-annual	None	Annual	None	Change from semi-annual to annual; TCE<1.0 ppb since 4/17/96 ^(5,6)
MW-65C	L6	Semi-annual	None	Annual	None	Change from semi-annual to annual; TCE<1.0 ppb since 7/21/09 ^(5,6)
MW-66A	L6	Semi-annual	None	None	None	Stop sampling; NPI VOCs= ND since 05/25/00 ^(5,6)
MW-66B	L6	Semi-annual	None	Annual	None	Change from semi-annual to annual; TCE=ND since 3/28/11 ^(5,6)
MW-66C	L6	Semi-annual	None	None	None	Stop sampling; TCE=0.377 ppb on 4/20/98; ND since 10/26/98 ^(5,6)

NOTES:

Biennial = Sample collected in odd years only.

Lost = Well/piezometer has been lost. If the well/piezometer is found, then it will be sampled once for NPI VOCs and the results will be evaluated to determine if additional sampling is necessary.

NPI VOCs = 1, 1-DCA; 1, 1-DCE; PCE; 1, 1, 1-TCA; and TCE.

Semi-annual = Semi-annual samples collected in second/fourth quarters (Q2/Q4); annual & biennial samples collected in Q2, except annual samples for Cd collected in Q3.

FOOTNOTES:

- (1) Proposed sampling frequency for all cadmium (Cd) wells/piezometers is annual, except MW-10A will remain quarterly & EW-5, EW-6, & MW-4A will change to none.
- (2) Multi-level samples were collected in 2016 and 2017 from the three inactive extraction wells (EW-1R, EW-2, and EW-5) as requested by the WDNR.
- (3) CAS-2R and MH-18 are located within 60 feet of each other. Consequently, we sample MH-18 only, not both MH-18 and CAS-2R.
- (4) For discharge monitoring reports, MH-18 is also sampled once a year for an expanded analyte list, per agreement with the WDNR, as summarized in Table 13.
- (5) Re-evaluate frequency if EW-1R and/or EW-2 resume pumping.
- (6) Pumping from EW-1R and/or EW-2 will resume if an increasing trend in TCE or 1,1,1-TCA is observed in any of the MRDS monitoring wells/piezometers (MW-5A/B, MW-62A/B/C, MW-63A/B, MW-65A/B/C, and MW-66A/B/C).
- (7) Previously classified as a Plume 5 monitoring well.

APPENDIX A

CD CONTAINING HISTORICAL ANALYTICAL DATA SUMMARY TABLES,
2017 LABORATORY REPORTS, AND
TEXT OF THE 2017 DATA VALIDATION REPORTS

HISTORICAL ANALYTICAL DATA SUMMARY TABLES
(available upon request)

2017 LABORATORY REPORTS

April 03, 2017

Project #34283.000
NPI Q1 GW
Reviewed by CCW
4/21/17

Clifford Wright
Gannett Fleming
8025 Excelsior Drive
Madison, WI 53717

RE: Project: 34283.000 NPI
Pace Project No.: 40147069

Dear Clifford Wright:

Enclosed are the analytical results for sample(s) received by the laboratory on March 22, 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

cc: Marcia Kuehl, MAKuehl Co.



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: 34283.000 NPI

Pace Project No.: 40147069

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: 34283.000 NPI

Pace Project No.: 40147069

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40147069001	EW-1R U	Water	03/20/17 13:35	03/22/17 09:15
40147069002	EW-1R M	Water	03/20/17 13:40	03/22/17 09:15
40147069003	EW-1R L	Water	03/20/17 13:45	03/22/17 09:15
40147069004	EW-2 U	Water	03/20/17 14:00	03/22/17 09:15
40147069005	EW-2 L	Water	03/20/17 14:05	03/22/17 09:15
40147069006	EW-5 U	Water	03/21/17 11:45	03/22/17 09:15
40147069007	EW-5 L	Water	03/21/17 11:50	03/22/17 09:15
40147069008	EW-6	Water	03/21/17 12:15	03/22/17 09:15
40147069009	EW-6 DUP	Water	03/21/17 12:15	03/22/17 09:15
40147069010	MW-10A	Water	03/20/17 14:30	03/22/17 09:15
40147069011	MW-10B	Water	03/20/17 14:40	03/22/17 09:15
40147069012	MW-34A	Water	03/20/17 15:20	03/22/17 09:15
40147069013	MW-34B	Water	03/20/17 15:15	03/22/17 09:15
40147069014	MW-34C	Water	03/20/17 15:25	03/22/17 09:15
40147069015	MW-68B	Water	03/20/17 15:50	03/22/17 09:15
40147069016	MW-70A	Water	03/20/17 14:45	03/22/17 09:15
40147069017	MW-70A DUP	Water	03/20/17 14:45	03/22/17 09:15
40147069018	MW-70B	Water	03/20/17 14:50	03/22/17 09:15
40147069019	MW-75	Water	03/20/17 15:00	03/22/17 09:15
40147069020	MW-77A	Water	03/21/17 12:00	03/22/17 09:15
40147069021	MW-77B	Water	03/21/17 12:05	03/22/17 09:15
40147069022	MW-77C	Water	03/21/17 12:10	03/22/17 09:15
40147069023	MW-4A	Water	03/21/17 11:30	03/22/17 09:15
40147069024	MW-4B	Water	03/21/17 11:35	03/22/17 09:15
40147069025	TRIP BLANK	Water	03/20/17 00:00	03/22/17 09:15

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: 34283.000 NPI
Pace Project No.: 40147069

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
40147069001	EW-1R U	EPA 8260	HNW	8	PASI-G
40147069002	EW-1R M	EPA 8260	LAP	8	PASI-G
40147069003	EW-1R L	EPA 8260	LAP	8	PASI-G
40147069004	EW-2 U	EPA 8260	LAP	8	PASI-G
40147069005	EW-2 L	EPA 8260	LAP	8	PASI-G
40147069006	EW-5 U	EPA 8260	LAP	8	PASI-G
40147069007	EW-5 L	EPA 8260	LAP	8	PASI-G
40147069008	EW-6	EPA 8260	LAP	8	PASI-G
40147069009	EW-6 DUP	EPA 8260	LAP	8	PASI-G
40147069010	MW-10A	EPA 6010	DLB	1	PASI-G
40147069011	MW-10B	EPA 6010	DLB	1	PASI-G
40147069012	MW-34A	EPA 8260	LAP	8	PASI-G
40147069013	MW-34B	EPA 8260	LAP	8	PASI-G
40147069014	MW-34C	EPA 8260	LAP	8	PASI-G
40147069015	MW-68B	EPA 6010	DLB	1	PASI-G
40147069016	MW-70A	EPA 8260	LAP	8	PASI-G
40147069017	MW-70A DUP	EPA 8260	LAP	8	PASI-G
40147069018	MW-70B	EPA 6010	DLB	1	PASI-G
		EPA 8260	LAP	8	PASI-G
40147069019	MW-75	EPA 6010	DLB	1	PASI-G
40147069020	MW-77A	EPA 8260	LAP	8	PASI-G
40147069021	MW-77B	EPA 8260	LAP	8	PASI-G
40147069022	MW-77C	EPA 8260	LAP	8	PASI-G
40147069023	MW-4A	EPA 8260	LAP	8	PASI-G
40147069024	MW-4B	EPA 8260	LAP	8	PASI-G
40147069025	TRIP BLANK	EPA 8260	HNW	8	PASI-G

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: 34283.000 NPI
Pace Project No.: 40147069

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
40147069006	EW-5 U					
EPA 8260	Trichloroethene	0.34J	ug/L	1.0	03/28/17 12:10	
40147069007	EW-5 L					
EPA 8260	Trichloroethene	0.47J	ug/L	1.0	03/28/17 12:33	
40147069010	MW-10A					
EPA 6010	Cadmium, Dissolved	18.5	ug/L	5.0	03/28/17 21:34	
40147069011	MW-10B					
EPA 6010	Cadmium, Dissolved	1.4J	ug/L	5.0	03/28/17 21:47	
40147069015	MW-68B					
EPA 6010	Cadmium, Dissolved	3.9J	ug/L	5.0	03/28/17 21:53	
40147069016	MW-70A					
EPA 8260	1,1-Dichloroethane	0.37J	ug/L	1.0	03/28/17 14:49	
EPA 8260	Trichloroethene	0.61J	ug/L	1.0	03/28/17 14:49	
40147069017	MW-70A DUP					
EPA 8260	1,1-Dichloroethane	0.36J	ug/L	1.0	03/29/17 01:09	
EPA 8260	Trichloroethene	0.56J	ug/L	1.0	03/29/17 01:09	
40147069018	MW-70B					
EPA 6010	Cadmium, Dissolved	4.0J	ug/L	5.0	03/28/17 21:55	
40147069019	MW-75					
EPA 6010	Cadmium, Dissolved	1.9J	ug/L	5.0	03/28/17 21:58	
40147069021	MW-77B					
EPA 8260	Trichloroethene	1.5	ug/L	1.0	03/29/17 02:16	
40147069022	MW-77C					
EPA 8260	Trichloroethene	0.96J	ug/L	1.0	03/29/17 02:39	

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: 34283.000 NPI

Pace Project No.: 40147069

Method: EPA 6010

Description: 6010 MET ICP, Dissolved

Client: Gannett Fleming Inc.

Date: April 03, 2017

General Information:

5 samples were analyzed for EPA 6010. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: 34283.000 NPI
Pace Project No.: 40147069

Method: EPA 8260
Description: 8260 MSV
Client: Gannett Fleming Inc.
Date: April 03, 2017

General Information:

21 samples were analyzed for EPA 8260. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

Internal Standards:

All internal standards were within QC limits with any exceptions noted below.

Surrogates:

All surrogates were within QC limits with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 34283.000 NPI

Pace Project No.: 40147069

Sample: EW-1R U **Lab ID: 40147069001** Collected: 03/20/17 13:35 Received: 03/22/17 09:15 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260							
1,1,1-Trichloroethane	<0.50	ug/L	1.0	0.50	1		03/29/17 09:46	71-55-6	
1,1-Dichloroethane	<0.24	ug/L	1.0	0.24	1		03/29/17 09:46	75-34-3	
1,1-Dichloroethene	<0.41	ug/L	1.0	0.41	1		03/29/17 09:46	75-35-4	
Tetrachloroethene	<0.50	ug/L	1.0	0.50	1		03/29/17 09:46	127-18-4	
Trichloroethene	<0.33	ug/L	1.0	0.33	1		03/29/17 09:46	79-01-6	
Surrogates									
4-Bromofluorobenzene (S)	98	%	70-130		1		03/29/17 09:46	460-00-4	
Dibromofluoromethane (S)	108	%	70-130		1		03/29/17 09:46	1868-53-7	
Toluene-d8 (S)	91	%	70-130		1		03/29/17 09:46	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 34283.000 NPI

Pace Project No.: 40147069

Sample: EW-1R M **Lab ID: 40147069002** Collected: 03/20/17 13:40 Received: 03/22/17 09:15 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260							
1,1,1-Trichloroethane	<0.50	ug/L	1.0	0.50	1		03/28/17 11:02	71-55-6	
1,1-Dichloroethane	<0.24	ug/L	1.0	0.24	1		03/28/17 11:02	75-34-3	
1,1-Dichloroethene	<0.41	ug/L	1.0	0.41	1		03/28/17 11:02	75-35-4	
Tetrachloroethene	<0.50	ug/L	1.0	0.50	1		03/28/17 11:02	127-18-4	
Trichloroethene	<0.33	ug/L	1.0	0.33	1		03/28/17 11:02	79-01-6	
Surrogates									
4-Bromofluorobenzene (S)	88	%	70-130		1		03/28/17 11:02	460-00-4	
Dibromofluoromethane (S)	97	%	70-130		1		03/28/17 11:02	1868-53-7	
Toluene-d8 (S)	98	%	70-130		1		03/28/17 11:02	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 34283.000 NPI

Pace Project No.: 40147069

Sample: EW-1R L **Lab ID: 40147069003** Collected: 03/20/17 13:45 Received: 03/22/17 09:15 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260							
1,1,1-Trichloroethane	<0.50	ug/L	1.0	0.50	1		03/29/17 03:47	71-55-6	
1,1-Dichloroethane	<0.24	ug/L	1.0	0.24	1		03/29/17 03:47	75-34-3	
1,1-Dichloroethene	<0.41	ug/L	1.0	0.41	1		03/29/17 03:47	75-35-4	
Tetrachloroethene	<0.50	ug/L	1.0	0.50	1		03/29/17 03:47	127-18-4	
Trichloroethene	<0.33	ug/L	1.0	0.33	1		03/29/17 03:47	79-01-6	
Surrogates									
4-Bromofluorobenzene (S)	87	%	70-130		1		03/29/17 03:47	460-00-4	
Dibromofluoromethane (S)	100	%	70-130		1		03/29/17 03:47	1868-53-7	
Toluene-d8 (S)	99	%	70-130		1		03/29/17 03:47	2037-26-5	

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ANALYTICAL RESULTS

Project: 34283.000 NPI

Pace Project No.: 40147069

Sample: EW-2 U **Lab ID: 40147069004** Collected: 03/20/17 14:00 Received: 03/22/17 09:15 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260							
1,1,1-Trichloroethane	<0.50	ug/L	1.0	0.50	1		03/28/17 11:24	71-55-6	
1,1-Dichloroethane	<0.24	ug/L	1.0	0.24	1		03/28/17 11:24	75-34-3	
1,1-Dichloroethene	<0.41	ug/L	1.0	0.41	1		03/28/17 11:24	75-35-4	
Tetrachloroethene	<0.50	ug/L	1.0	0.50	1		03/28/17 11:24	127-18-4	
Trichloroethene	<0.33	ug/L	1.0	0.33	1		03/28/17 11:24	79-01-6	
Surrogates									
4-Bromofluorobenzene (S)	89	%	70-130		1		03/28/17 11:24	460-00-4	
Dibromofluoromethane (S)	99	%	70-130		1		03/28/17 11:24	1868-53-7	
Toluene-d8 (S)	97	%	70-130		1		03/28/17 11:24	2037-26-5	

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ANALYTICAL RESULTS

Project: 34283.000 NPI

Pace Project No.: 40147069

Sample: EW-2 L **Lab ID: 40147069005** Collected: 03/20/17 14:05 Received: 03/22/17 09:15 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260							
1,1,1-Trichloroethane	<0.50	ug/L	1.0	0.50	1		03/28/17 11:47	71-55-6	
1,1-Dichloroethane	<0.24	ug/L	1.0	0.24	1		03/28/17 11:47	75-34-3	
1,1-Dichloroethene	<0.41	ug/L	1.0	0.41	1		03/28/17 11:47	75-35-4	
Tetrachloroethene	<0.50	ug/L	1.0	0.50	1		03/28/17 11:47	127-18-4	
Trichloroethene	<0.33	ug/L	1.0	0.33	1		03/28/17 11:47	79-01-6	
Surrogates									
4-Bromofluorobenzene (S)	88	%	70-130		1		03/28/17 11:47	460-00-4	
Dibromofluoromethane (S)	97	%	70-130		1		03/28/17 11:47	1868-53-7	
Toluene-d8 (S)	99	%	70-130		1		03/28/17 11:47	2037-26-5	

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ANALYTICAL RESULTS

Project: 34283.000 NPI

Pace Project No.: 40147069

Sample: EW-5 U **Lab ID: 40147069006** Collected: 03/21/17 11:45 Received: 03/22/17 09:15 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260							
1,1,1-Trichloroethane	<0.50	ug/L	1.0	0.50	1		03/28/17 12:10	71-55-6	
1,1-Dichloroethane	<0.24	ug/L	1.0	0.24	1		03/28/17 12:10	75-34-3	
1,1-Dichloroethene	<0.41	ug/L	1.0	0.41	1		03/28/17 12:10	75-35-4	
Tetrachloroethene	<0.50	ug/L	1.0	0.50	1		03/28/17 12:10	127-18-4	
Trichloroethene	0.34J	ug/L	1.0	0.33	1		03/28/17 12:10	79-01-6	
Surrogates									
4-Bromofluorobenzene (S)	87	%	70-130		1		03/28/17 12:10	460-00-4	
Dibromofluoromethane (S)	99	%	70-130		1		03/28/17 12:10	1868-53-7	
Toluene-d8 (S)	101	%	70-130		1		03/28/17 12:10	2037-26-5	

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ANALYTICAL RESULTS

Project: 34283.000 NPI

Pace Project No.: 40147069

Sample: EW-5 L **Lab ID: 40147069007** Collected: 03/21/17 11:50 Received: 03/22/17 09:15 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260							
1,1,1-Trichloroethane	<0.50	ug/L	1.0	0.50	1		03/28/17 12:33	71-55-6	
1,1-Dichloroethane	<0.24	ug/L	1.0	0.24	1		03/28/17 12:33	75-34-3	
1,1-Dichloroethene	<0.41	ug/L	1.0	0.41	1		03/28/17 12:33	75-35-4	
Tetrachloroethene	<0.50	ug/L	1.0	0.50	1		03/28/17 12:33	127-18-4	
Trichloroethene	0.47J	ug/L	1.0	0.33	1		03/28/17 12:33	79-01-6	
Surrogates									
4-Bromofluorobenzene (S)	88	%	70-130		1		03/28/17 12:33	460-00-4	
Dibromofluoromethane (S)	96	%	70-130		1		03/28/17 12:33	1868-53-7	
Toluene-d8 (S)	97	%	70-130		1		03/28/17 12:33	2037-26-5	

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ANALYTICAL RESULTS

Project: 34283.000 NPI

Pace Project No.: 40147069

Sample: EW-6 **Lab ID: 40147069008** Collected: 03/21/17 12:15 Received: 03/22/17 09:15 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260							
1,1,1-Trichloroethane	<0.50	ug/L	1.0	0.50	1		03/28/17 12:55	71-55-6	
1,1-Dichloroethane	<0.24	ug/L	1.0	0.24	1		03/28/17 12:55	75-34-3	
1,1-Dichloroethene	<0.41	ug/L	1.0	0.41	1		03/28/17 12:55	75-35-4	
Tetrachloroethene	<0.50	ug/L	1.0	0.50	1		03/28/17 12:55	127-18-4	
Trichloroethene	<0.33	ug/L	1.0	0.33	1		03/28/17 12:55	79-01-6	
Surrogates									
4-Bromofluorobenzene (S)	86	%	70-130		1		03/28/17 12:55	460-00-4	
Dibromofluoromethane (S)	99	%	70-130		1		03/28/17 12:55	1868-53-7	
Toluene-d8 (S)	95	%	70-130		1		03/28/17 12:55	2037-26-5	

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ANALYTICAL RESULTS

Project: 34283.000 NPI

Pace Project No.: 40147069

Sample: EW-6 DUP **Lab ID: 40147069009** Collected: 03/21/17 12:15 Received: 03/22/17 09:15 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260							
1,1,1-Trichloroethane	<0.50	ug/L	1.0	0.50	1		03/28/17 13:18	71-55-6	
1,1-Dichloroethane	<0.24	ug/L	1.0	0.24	1		03/28/17 13:18	75-34-3	
1,1-Dichloroethene	<0.41	ug/L	1.0	0.41	1		03/28/17 13:18	75-35-4	
Tetrachloroethene	<0.50	ug/L	1.0	0.50	1		03/28/17 13:18	127-18-4	
Trichloroethene	<0.33	ug/L	1.0	0.33	1		03/28/17 13:18	79-01-6	
Surrogates									
4-Bromofluorobenzene (S)	88	%	70-130		1		03/28/17 13:18	460-00-4	
Dibromofluoromethane (S)	97	%	70-130		1		03/28/17 13:18	1868-53-7	
Toluene-d8 (S)	100	%	70-130		1		03/28/17 13:18	2037-26-5	

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ANALYTICAL RESULTS

Project: 34283.000 NPI

Pace Project No.: 40147069

Sample: MW-10A **Lab ID: 40147069010** Collected: 03/20/17 14:30 Received: 03/22/17 09:15 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, Dissolved									
Analytical Method: EPA 6010									
Cadmium, Dissolved	18.5	ug/L	5.0	1.3	1		03/28/17 21:34	7440-43-9	

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ANALYTICAL RESULTS

Project: 34283.000 NPI

Pace Project No.: 40147069

Sample: MW-10B **Lab ID: 40147069011** Collected: 03/20/17 14:40 Received: 03/22/17 09:15 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, Dissolved	Analytical Method: EPA 6010								
Cadmium, Dissolved	1.4J	ug/L	5.0	1.3	1		03/28/17 21:47	7440-43-9	

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ANALYTICAL RESULTS

Project: 34283.000 NPI

Pace Project No.: 40147069

Sample: MW-34A **Lab ID: 40147069012** Collected: 03/20/17 15:20 Received: 03/22/17 09:15 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260							
1,1,1-Trichloroethane	<0.50	ug/L	1.0	0.50	1		03/28/17 13:41	71-55-6	
1,1-Dichloroethane	<0.24	ug/L	1.0	0.24	1		03/28/17 13:41	75-34-3	
1,1-Dichloroethene	<0.41	ug/L	1.0	0.41	1		03/28/17 13:41	75-35-4	
Tetrachloroethene	<0.50	ug/L	1.0	0.50	1		03/28/17 13:41	127-18-4	
Trichloroethene	<0.33	ug/L	1.0	0.33	1		03/28/17 13:41	79-01-6	
Surrogates									
4-Bromofluorobenzene (S)	85	%	70-130		1		03/28/17 13:41	460-00-4	
Dibromofluoromethane (S)	98	%	70-130		1		03/28/17 13:41	1868-53-7	
Toluene-d8 (S)	96	%	70-130		1		03/28/17 13:41	2037-26-5	

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ANALYTICAL RESULTS

Project: 34283.000 NPI

Pace Project No.: 40147069

Sample: MW-34B **Lab ID: 40147069013** Collected: 03/20/17 15:15 Received: 03/22/17 09:15 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260							
1,1,1-Trichloroethane	<0.50	ug/L	1.0	0.50	1		03/28/17 14:03	71-55-6	
1,1-Dichloroethane	<0.24	ug/L	1.0	0.24	1		03/28/17 14:03	75-34-3	
1,1-Dichloroethene	<0.41	ug/L	1.0	0.41	1		03/28/17 14:03	75-35-4	
Tetrachloroethene	<0.50	ug/L	1.0	0.50	1		03/28/17 14:03	127-18-4	
Trichloroethene	<0.33	ug/L	1.0	0.33	1		03/28/17 14:03	79-01-6	
Surrogates									
4-Bromofluorobenzene (S)	83	%	70-130		1		03/28/17 14:03	460-00-4	
Dibromofluoromethane (S)	97	%	70-130		1		03/28/17 14:03	1868-53-7	
Toluene-d8 (S)	96	%	70-130		1		03/28/17 14:03	2037-26-5	

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ANALYTICAL RESULTS

Project: 34283.000 NPI

Pace Project No.: 40147069

Sample: MW-34C **Lab ID: 40147069014** Collected: 03/20/17 15:25 Received: 03/22/17 09:15 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260							
1,1,1-Trichloroethane	<0.50	ug/L	1.0	0.50	1		03/28/17 14:26	71-55-6	
1,1-Dichloroethane	<0.24	ug/L	1.0	0.24	1		03/28/17 14:26	75-34-3	
1,1-Dichloroethene	<0.41	ug/L	1.0	0.41	1		03/28/17 14:26	75-35-4	
Tetrachloroethene	<0.50	ug/L	1.0	0.50	1		03/28/17 14:26	127-18-4	
Trichloroethene	<0.33	ug/L	1.0	0.33	1		03/28/17 14:26	79-01-6	
Surrogates									
4-Bromofluorobenzene (S)	86	%	70-130		1		03/28/17 14:26	460-00-4	
Dibromofluoromethane (S)	96	%	70-130		1		03/28/17 14:26	1868-53-7	
Toluene-d8 (S)	98	%	70-130		1		03/28/17 14:26	2037-26-5	

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ANALYTICAL RESULTS

Project: 34283.000 NPI

Pace Project No.: 40147069

Sample: MW-68B **Lab ID: 40147069015** Collected: 03/20/17 15:50 Received: 03/22/17 09:15 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, Dissolved	Analytical Method: EPA 6010								
Cadmium, Dissolved	3.9J	ug/L	5.0	1.3	1		03/28/17 21:53	7440-43-9	

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ANALYTICAL RESULTS

Project: 34283.000 NPI

Pace Project No.: 40147069

Sample: MW-70A **Lab ID: 40147069016** Collected: 03/20/17 14:45 Received: 03/22/17 09:15 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260							
1,1,1-Trichloroethane	<0.50	ug/L	1.0	0.50	1		03/28/17 14:49	71-55-6	
1,1-Dichloroethane	0.37J	ug/L	1.0	0.24	1		03/28/17 14:49	75-34-3	
1,1-Dichloroethene	<0.41	ug/L	1.0	0.41	1		03/28/17 14:49	75-35-4	
Tetrachloroethene	<0.50	ug/L	1.0	0.50	1		03/28/17 14:49	127-18-4	
Trichloroethene	0.61J	ug/L	1.0	0.33	1		03/28/17 14:49	79-01-6	
Surrogates									
4-Bromofluorobenzene (S)	86	%	70-130		1		03/28/17 14:49	460-00-4	
Dibromofluoromethane (S)	101	%	70-130		1		03/28/17 14:49	1868-53-7	
Toluene-d8 (S)	98	%	70-130		1		03/28/17 14:49	2037-26-5	

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ANALYTICAL RESULTS

Project: 34283.000 NPI

Pace Project No.: 40147069

Sample: MW-70A DUP **Lab ID: 40147069017** Collected: 03/20/17 14:45 Received: 03/22/17 09:15 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260							
1,1,1-Trichloroethane	<0.50	ug/L	1.0	0.50	1		03/29/17 01:09	71-55-6	
1,1-Dichloroethane	0.36J	ug/L	1.0	0.24	1		03/29/17 01:09	75-34-3	
1,1-Dichloroethene	<0.41	ug/L	1.0	0.41	1		03/29/17 01:09	75-35-4	
Tetrachloroethene	<0.50	ug/L	1.0	0.50	1		03/29/17 01:09	127-18-4	
Trichloroethene	0.56J	ug/L	1.0	0.33	1		03/29/17 01:09	79-01-6	
Surrogates									
4-Bromofluorobenzene (S)	88	%	70-130		1		03/29/17 01:09	460-00-4	
Dibromofluoromethane (S)	96	%	70-130		1		03/29/17 01:09	1868-53-7	
Toluene-d8 (S)	98	%	70-130		1		03/29/17 01:09	2037-26-5	

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ANALYTICAL RESULTS

Project: 34283.000 NPI

Pace Project No.: 40147069

Sample: MW-70B **Lab ID: 40147069018** Collected: 03/20/17 14:50 Received: 03/22/17 09:15 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, Dissolved		Analytical Method: EPA 6010							
Cadmium, Dissolved	4.0J	ug/L	5.0	1.3	1		03/28/17 21:55	7440-43-9	
8260 MSV		Analytical Method: EPA 8260							
1,1,1-Trichloroethane	<0.50	ug/L	1.0	0.50	1		03/29/17 01:31	71-55-6	
1,1-Dichloroethane	<0.24	ug/L	1.0	0.24	1		03/29/17 01:31	75-34-3	
1,1-Dichloroethene	<0.41	ug/L	1.0	0.41	1		03/29/17 01:31	75-35-4	
Tetrachloroethene	<0.50	ug/L	1.0	0.50	1		03/29/17 01:31	127-18-4	
Trichloroethene	<0.33	ug/L	1.0	0.33	1		03/29/17 01:31	79-01-6	
Surrogates									
4-Bromofluorobenzene (S)	88	%	70-130		1		03/29/17 01:31	460-00-4	
Dibromofluoromethane (S)	97	%	70-130		1		03/29/17 01:31	1868-53-7	
Toluene-d8 (S)	97	%	70-130		1		03/29/17 01:31	2037-26-5	

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ANALYTICAL RESULTS

Project: 34283.000 NPI

Pace Project No.: 40147069

Sample: MW-75 **Lab ID: 40147069019** Collected: 03/20/17 15:00 Received: 03/22/17 09:15 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, Dissolved	Analytical Method: EPA 6010								
Cadmium, Dissolved	1.9J	ug/L	5.0	1.3	1		03/28/17 21:58	7440-43-9	

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ANALYTICAL RESULTS

Project: 34283.000 NPI

Pace Project No.: 40147069

Sample: MW-77A **Lab ID: 40147069020** Collected: 03/21/17 12:00 Received: 03/22/17 09:15 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260							
1,1,1-Trichloroethane	<0.50	ug/L	1.0	0.50	1		03/29/17 01:54	71-55-6	
1,1-Dichloroethane	<0.24	ug/L	1.0	0.24	1		03/29/17 01:54	75-34-3	
1,1-Dichloroethene	<0.41	ug/L	1.0	0.41	1		03/29/17 01:54	75-35-4	
Tetrachloroethene	<0.50	ug/L	1.0	0.50	1		03/29/17 01:54	127-18-4	
Trichloroethene	<0.33	ug/L	1.0	0.33	1		03/29/17 01:54	79-01-6	
Surrogates									
4-Bromofluorobenzene (S)	86	%	70-130		1		03/29/17 01:54	460-00-4	
Dibromofluoromethane (S)	96	%	70-130		1		03/29/17 01:54	1868-53-7	
Toluene-d8 (S)	98	%	70-130		1		03/29/17 01:54	2037-26-5	

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ANALYTICAL RESULTS

Project: 34283.000 NPI

Pace Project No.: 40147069

Sample: MW-77B **Lab ID: 40147069021** Collected: 03/21/17 12:05 Received: 03/22/17 09:15 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260							
1,1,1-Trichloroethane	<0.50	ug/L	1.0	0.50	1		03/29/17 02:16	71-55-6	
1,1-Dichloroethane	<0.24	ug/L	1.0	0.24	1		03/29/17 02:16	75-34-3	
1,1-Dichloroethene	<0.41	ug/L	1.0	0.41	1		03/29/17 02:16	75-35-4	
Tetrachloroethene	<0.50	ug/L	1.0	0.50	1		03/29/17 02:16	127-18-4	
Trichloroethene	1.5	ug/L	1.0	0.33	1		03/29/17 02:16	79-01-6	
Surrogates									
4-Bromofluorobenzene (S)	83	%	70-130		1		03/29/17 02:16	460-00-4	
Dibromofluoromethane (S)	100	%	70-130		1		03/29/17 02:16	1868-53-7	
Toluene-d8 (S)	94	%	70-130		1		03/29/17 02:16	2037-26-5	

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ANALYTICAL RESULTS

Project: 34283.000 NPI

Pace Project No.: 40147069

Sample: MW-77C **Lab ID: 40147069022** Collected: 03/21/17 12:10 Received: 03/22/17 09:15 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260							
1,1,1-Trichloroethane	<0.50	ug/L	1.0	0.50	1		03/29/17 02:39	71-55-6	
1,1-Dichloroethane	<0.24	ug/L	1.0	0.24	1		03/29/17 02:39	75-34-3	
1,1-Dichloroethene	<0.41	ug/L	1.0	0.41	1		03/29/17 02:39	75-35-4	
Tetrachloroethene	<0.50	ug/L	1.0	0.50	1		03/29/17 02:39	127-18-4	
Trichloroethene	0.96J	ug/L	1.0	0.33	1		03/29/17 02:39	79-01-6	
Surrogates									
4-Bromofluorobenzene (S)	87	%	70-130		1		03/29/17 02:39	460-00-4	
Dibromofluoromethane (S)	95	%	70-130		1		03/29/17 02:39	1868-53-7	
Toluene-d8 (S)	97	%	70-130		1		03/29/17 02:39	2037-26-5	

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ANALYTICAL RESULTS

Project: 34283.000 NPI

Pace Project No.: 40147069

Sample: MW-4A **Lab ID: 40147069023** Collected: 03/21/17 11:30 Received: 03/22/17 09:15 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260							
1,1,1-Trichloroethane	<0.50	ug/L	1.0	0.50	1		03/29/17 03:02	71-55-6	
1,1-Dichloroethane	<0.24	ug/L	1.0	0.24	1		03/29/17 03:02	75-34-3	
1,1-Dichloroethene	<0.41	ug/L	1.0	0.41	1		03/29/17 03:02	75-35-4	
Tetrachloroethene	<0.50	ug/L	1.0	0.50	1		03/29/17 03:02	127-18-4	
Trichloroethene	<0.33	ug/L	1.0	0.33	1		03/29/17 03:02	79-01-6	
Surrogates									
4-Bromofluorobenzene (S)	89	%	70-130		1		03/29/17 03:02	460-00-4	
Dibromofluoromethane (S)	97	%	70-130		1		03/29/17 03:02	1868-53-7	
Toluene-d8 (S)	96	%	70-130		1		03/29/17 03:02	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 34283.000 NPI

Pace Project No.: 40147069

Sample: MW-4B **Lab ID: 40147069024** Collected: 03/21/17 11:35 Received: 03/22/17 09:15 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260							
1,1,1-Trichloroethane	<0.50	ug/L	1.0	0.50	1		03/29/17 03:24	71-55-6	
1,1-Dichloroethane	<0.24	ug/L	1.0	0.24	1		03/29/17 03:24	75-34-3	
1,1-Dichloroethene	<0.41	ug/L	1.0	0.41	1		03/29/17 03:24	75-35-4	
Tetrachloroethene	<0.50	ug/L	1.0	0.50	1		03/29/17 03:24	127-18-4	
Trichloroethene	<0.33	ug/L	1.0	0.33	1		03/29/17 03:24	79-01-6	
Surrogates									
4-Bromofluorobenzene (S)	89	%	70-130		1		03/29/17 03:24	460-00-4	
Dibromofluoromethane (S)	99	%	70-130		1		03/29/17 03:24	1868-53-7	
Toluene-d8 (S)	97	%	70-130		1		03/29/17 03:24	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 34283.000 NPI

Pace Project No.: 40147069

Sample: TRIP BLANK **Lab ID: 40147069025** Collected: 03/20/17 00:00 Received: 03/22/17 09:15 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260							
1,1,1-Trichloroethane	<0.50	ug/L	1.0	0.50	1		03/28/17 02:30	71-55-6	
1,1-Dichloroethane	<0.24	ug/L	1.0	0.24	1		03/28/17 02:30	75-34-3	
1,1-Dichloroethene	<0.41	ug/L	1.0	0.41	1		03/28/17 02:30	75-35-4	
Tetrachloroethene	<0.50	ug/L	1.0	0.50	1		03/28/17 02:30	127-18-4	
Trichloroethene	<0.33	ug/L	1.0	0.33	1		03/28/17 02:30	79-01-6	
Surrogates									
4-Bromofluorobenzene (S)	99	%	70-130		1		03/28/17 02:30	460-00-4	
Dibromofluoromethane (S)	111	%	70-130		1		03/28/17 02:30	1868-53-7	
Toluene-d8 (S)	92	%	70-130		1		03/28/17 02:30	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 34283.000 NPI
Pace Project No.: 40147069

QC Batch: 251218 Analysis Method: EPA 6010
QC Batch Method: EPA 6010 Analysis Description: ICP Metals, Trace, Dissolved
Associated Lab Samples: 40147069010, 40147069011, 40147069015, 40147069018, 40147069019

METHOD BLANK: 1482460 Matrix: Water
Associated Lab Samples: 40147069010, 40147069011, 40147069015, 40147069018, 40147069019

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Cadmium, Dissolved	ug/L	<1.3	5.0	03/28/17 21:28	

LABORATORY CONTROL SAMPLE: 1482461

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Cadmium, Dissolved	ug/L	500	480	96	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1482462 1482463

Parameter	Units	1482462		1482463		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		40147069010 Result	MS Spike Conc.	MSD Spike Conc.	MS Result						
Cadmium, Dissolved	ug/L	18.5	500	500	526	507	102	98	75-125	4	20

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: 34283.000 NPI
Pace Project No.: 40147069

QC Batch: 250879 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV
Associated Lab Samples: 40147069002, 40147069003, 40147069004, 40147069005, 40147069006, 40147069007, 40147069008, 40147069009, 40147069012, 40147069013, 40147069014, 40147069016, 40147069017, 40147069018, 40147069020, 40147069021, 40147069022, 40147069023, 40147069024

METHOD BLANK: 1480638 Matrix: Water
Associated Lab Samples: 40147069002, 40147069003, 40147069004, 40147069005, 40147069006, 40147069007, 40147069008, 40147069009, 40147069012, 40147069013, 40147069014, 40147069016, 40147069017, 40147069018, 40147069020, 40147069021, 40147069022, 40147069023, 40147069024

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	<0.50	1.0	03/28/17 07:15	
1,1-Dichloroethane	ug/L	<0.24	1.0	03/28/17 07:15	
1,1-Dichloroethene	ug/L	<0.41	1.0	03/28/17 07:15	
Tetrachloroethene	ug/L	<0.50	1.0	03/28/17 07:15	
Trichloroethene	ug/L	<0.33	1.0	03/28/17 07:15	
4-Bromofluorobenzene (S)	%	85	70-130	03/28/17 07:15	
Dibromofluoromethane (S)	%	96	70-130	03/28/17 07:15	
Toluene-d8 (S)	%	97	70-130	03/28/17 07:15	

LABORATORY CONTROL SAMPLE: 1480639

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	50	47.2	94	70-131	
1,1-Dichloroethane	ug/L	50	40.8	82	70-133	
1,1-Dichloroethene	ug/L	50	40.2	80	70-130	
Tetrachloroethene	ug/L	50	48.9	98	70-138	
Trichloroethene	ug/L	50	48.7	97	70-130	
4-Bromofluorobenzene (S)	%			98	70-130	
Dibromofluoromethane (S)	%			93	70-130	
Toluene-d8 (S)	%			98	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1480888 1480889

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	Max RPD	Qual	
		40147097007 Result	Spike Conc.	Spike Conc.	MS Result						MSD Result
1,1,1-Trichloroethane	ug/L	<0.50	50	50	49.8	50.6	100	101	70-134	2	20
1,1-Dichloroethane	ug/L	<0.24	50	50	43.1	44.9	86	90	70-134	4	20
1,1-Dichloroethene	ug/L	<0.41	50	50	43.4	43.5	87	87	68-136	0	20
Tetrachloroethene	ug/L	<0.50	50	50	52.1	53.1	104	106	70-148	2	20
Trichloroethene	ug/L	1.6	50	50	54.2	51.5	105	100	70-131	5	20
4-Bromofluorobenzene (S)	%						101	98	70-130		
Dibromofluoromethane (S)	%						97	96	70-130		
Toluene-d8 (S)	%						98	99	70-130		

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 34283.000 NPI
Pace Project No.: 40147069

QC Batch: 250919 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV
Associated Lab Samples: 40147069025

METHOD BLANK: 1480782 Matrix: Water
Associated Lab Samples: 40147069025

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	<0.50	1.0	03/27/17 07:14	
1,1-Dichloroethane	ug/L	<0.24	1.0	03/27/17 07:14	
1,1-Dichloroethene	ug/L	<0.41	1.0	03/27/17 07:14	
Tetrachloroethene	ug/L	<0.50	1.0	03/27/17 07:14	
Trichloroethene	ug/L	<0.33	1.0	03/27/17 07:14	
4-Bromofluorobenzene (S)	%	102	70-130	03/27/17 07:14	
Dibromofluoromethane (S)	%	110	70-130	03/27/17 07:14	
Toluene-d8 (S)	%	94	70-130	03/27/17 07:14	

LABORATORY CONTROL SAMPLE: 1480783

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	50	62.6	125	70-131	
1,1-Dichloroethane	ug/L	50	49.7	99	70-133	
1,1-Dichloroethene	ug/L	50	50.9	102	70-130	
Tetrachloroethene	ug/L	50	51.1	102	70-138	
Trichloroethene	ug/L	50	54.2	108	70-130	
4-Bromofluorobenzene (S)	%			102	70-130	
Dibromofluoromethane (S)	%			123	70-130	
Toluene-d8 (S)	%			94	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1481270 1481271

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	Max RPD	Qual	
		40147031012 Result	Spike Conc.	Spike Conc.	MS Result						MSD Result
1,1,1-Trichloroethane	ug/L	<0.50	50	50	57.2	58.0	114	116	70-134	1	20
1,1-Dichloroethane	ug/L	<0.24	50	50	52.6	52.6	105	105	70-134	0	20
1,1-Dichloroethene	ug/L	<0.41	50	50	58.7	58.7	117	117	68-136	0	20
Tetrachloroethene	ug/L	<0.50	50	50	52.2	53.1	104	106	70-148	2	20
Trichloroethene	ug/L	<0.33	50	50	56.1	55.7	112	111	70-131	1	20
4-Bromofluorobenzene (S)	%						102	102	70-130		
Dibromofluoromethane (S)	%						110	110	70-130		
Toluene-d8 (S)	%						94	94	70-130		

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 34283.000 NPI
Pace Project No.: 40147069

QC Batch: 251213 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV
Associated Lab Samples: 40147069001

METHOD BLANK: 1482435 Matrix: Water
Associated Lab Samples: 40147069001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	<0.50	1.0	03/29/17 07:06	
1,1-Dichloroethane	ug/L	<0.24	1.0	03/29/17 07:06	
1,1-Dichloroethene	ug/L	<0.41	1.0	03/29/17 07:06	
Tetrachloroethene	ug/L	<0.50	1.0	03/29/17 07:06	
Trichloroethene	ug/L	<0.33	1.0	03/29/17 07:06	
4-Bromofluorobenzene (S)	%	98	70-130	03/29/17 07:06	
Dibromofluoromethane (S)	%	111	70-130	03/29/17 07:06	
Toluene-d8 (S)	%	92	70-130	03/29/17 07:06	

LABORATORY CONTROL SAMPLE: 1482436

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	50	55.7	111	70-131	
1,1-Dichloroethane	ug/L	50	50.3	101	70-133	
1,1-Dichloroethene	ug/L	50	50.9	102	70-130	
Tetrachloroethene	ug/L	50	51.0	102	70-138	
Trichloroethene	ug/L	50	54.1	108	70-130	
4-Bromofluorobenzene (S)	%			99	70-130	
Dibromofluoromethane (S)	%			111	70-130	
Toluene-d8 (S)	%			92	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1482527 1482528

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	Max RPD	Qual
		40147096002 Result	Spike Conc.	Spike Conc.	MS Result					
1,1,1-Trichloroethane	ug/L	<0.50	50	50	55.0	56.0	110	112	70-134	2 20
1,1-Dichloroethane	ug/L	<0.24	50	50	49.3	50.6	99	101	70-134	3 20
1,1-Dichloroethene	ug/L	<0.41	50	50	55.5	56.6	111	113	68-136	2 20
Tetrachloroethene	ug/L	<0.50	50	50	51.2	52.1	102	104	70-148	2 20
Trichloroethene	ug/L	<0.33	50	50	53.9	54.3	108	109	70-131	1 20
4-Bromofluorobenzene (S)	%						99	99	70-130	
Dibromofluoromethane (S)	%						110	111	70-130	
Toluene-d8 (S)	%						92	92	70-130	

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REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: 34283.000 NPI

Pace Project No.: 40147069

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.

LABORATORIES

PASI-G Pace Analytical Services - Green Bay

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 34283.000 NPI

Pace Project No.: 40147069

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40147069010	MW-10A	EPA 6010	251218		
40147069011	MW-10B	EPA 6010	251218		
40147069015	MW-68B	EPA 6010	251218		
40147069018	MW-70B	EPA 6010	251218		
40147069019	MW-75	EPA 6010	251218		
40147069001	EW-1R U	EPA 8260	251213		
40147069002	EW-1R M	EPA 8260	250879		
40147069003	EW-1R L	EPA 8260	250879		
40147069004	EW-2 U	EPA 8260	250879		
40147069005	EW-2 L	EPA 8260	250879		
40147069006	EW-5 U	EPA 8260	250879		
40147069007	EW-5 L	EPA 8260	250879		
40147069008	EW-6	EPA 8260	250879		
40147069009	EW-6 DUP	EPA 8260	250879		
40147069012	MW-34A	EPA 8260	250879		
40147069013	MW-34B	EPA 8260	250879		
40147069014	MW-34C	EPA 8260	250879		
40147069016	MW-70A	EPA 8260	250879		
40147069017	MW-70A DUP	EPA 8260	250879		
40147069018	MW-70B	EPA 8260	250879		
40147069020	MW-77A	EPA 8260	250879		
40147069021	MW-77B	EPA 8260	250879		
40147069022	MW-77C	EPA 8260	250879		
40147069023	MW-4A	EPA 8260	250879		
40147069024	MW-4B	EPA 8260	250879		
40147069025	TRIP BLANK	EPA 8260	250919		

REPORT OF LABORATORY ANALYSIS

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(Please Print Clearly)

Company Name: Gannett Fleming
 Branch/Location: Madison, WI
 Project Contact: Cliff Wright
 Phone: 608-836-1500
 Project Number: 34283.000
 Project Name: NPI
 Project State: WI
 Sampled By (Print): Chelsea Payne
 Sampled By (Sign): Chelsea Payne
 PO #: _____ Regulatory Program: _____



UPPER MIDWEST REGION
 MN: 612-607-1700 WI: 920-469-2436

Page 1 of 2
 40147009
 Page 39 of 41

CHAIN OF CUSTODY

***Preservation Codes**
 A=None B=HCL C=H2SO4 D=HNO3 E=DI Water F=Methanol G=NaOH
 H=Sodium Bisulfate Solution I=Sodium Thiosulfate J=Other

FILTERED?
(YES/NO)
 PRESERVATION
(CODE)*

Y/N	Pick Letter	Analyses Requested	Matrix
N	B	VOCS	
X	C	NPI Short List	
		Cadmium	

Quote #: _____
Mail To Contact: Cliff Wright
Mail To Company: Gannett Fleming
Mail To Address: 8025 Excelsior Dr
Madison, WI 53717
Invoice To Contact: _____
Invoice To Company: See mail
Invoice To Address: to
Invoice To Phone: 608-836-1500
CLIENT COMMENTS: Send copy of report to Marcia A. Kuehl 3470 ~~Charlevoix~~ Charlevoix Ct Green Bay, WI 54311
LAB COMMENTS (Lab Use Only): 3-40mly B
Profile #: _____
(1-250mly B)

Data Package Options (billable)
 EPA Level III
 EPA Level IV

MS/MSD
 On your sample (billable)
 NOT needed on your sample

Matrix Codes
 A = Air W = Water
 B = Biota DW = Drinking Water
 C = Charcoal GW = Ground Water
 O = Oil SW = Surface Water
 S = Soil WW = Waste Water
 SI = Sludge WP = Wipe

PACE LAB #	CLIENT FIELD ID	COLLECTION		MATRIX
		DATE	TIME	
001	EW-1R U	3/20/17	13:35	GW
002	EW-1R M		13:40	
003	EW-1R L		13:45	
004	EW-2 U		14:00	
005	EW-2 L		14:05	
006	EW-5 U	3/21	11:45	
007	EW-5 L		11:50	
008	EW-6		12:15	
009	EW-6 dup		"	
010	MW-10A	3/20	14:30	
011	MW-10B		14:40	
012	MW-34A		15:20	
013	MW-34B		15:15	

Rush Turnaround Time Requested - Prelims (Rush TAT subject to approval/surcharge)
 Date Needed: _____

Transmit Prelim Rush Results by (complete what you want): _____

Relinquished By: <u>Chelsea Payne</u>	Date/Time: <u>3-21-17 13:00</u>	Received By: _____	Date/Time: _____
Relinquished By: <u>CS Logistics</u>	Date/Time: <u>3/22/17 09:15</u>	Received By: <u>Marcia Kuehl</u>	Date/Time: <u>3/22/17 09:15</u>
Relinquished By: _____	Date/Time: _____	Received By: _____	Date/Time: _____
Relinquished By: _____	Date/Time: _____	Received By: _____	Date/Time: _____

PACE Project No. 40147009

Receipt Temp = Roi °C

Sample Receipt pH
 OK / Adjusted

Cooler Custody Seal
 Present / Not Present
 Intact / Not Intact

(Please Print Clearly)

Company Name: Gannett Fleming
 Branch/Location: Madison, WI
 Project Contact: _____
 Phone: _____
 Project Number: 34283.000
 Project Name: NPI
 Project State: _____
 Sampled By (Print): See pg 1
 Sampled By (Sign): _____
 PO #: _____ Regulatory Program: _____



UPPER MIDWEST REGION
 MN: 612-607-1700 WI: 920-469-2436

CHAIN OF CUSTODY

***Preservation Codes**
 A=None B=HCL C=H2SO4 D=HNO3 E=DI Water F=Methanol G=NaOH
 H=Sodium Bisulfate Solution I=Sodium Thiosulfate J=Other

FILTERED?
 (YES/NO)
 PRESERVATION
 (CODE)*

Y/N	Pick Letter	Analyses Requested														
N	B	VOCs														
I	D	NPI Short List														
		Cadmium														

Quote #: _____
 Mail To Contact: Chiff Wright
 Mail To Company: _____
 Mail To Address: _____
 Invoice To Contact: _____
 Invoice To Company: _____
 Invoice To Address: _____
 Invoice To Phone: _____
 CLIENT COMMENTS: _____
 LAB COMMENTS (Lab Use Only): 3-40mlvB
1-250mlpb
3-40mlvB
3-40mlvB 1-250mlpb
3-40mlvB
2-40mlvB
 Profile #: _____

Data Package Options (billable)
 EPA Level III
 EPA Level IV

MS/MSD
 On your sample (billable)
 NOT needed on your sample

Matrix Codes
 A = Air W = Water
 B = Biota DW = Drinking Water
 C = Charcoal GW = Ground Water
 O = Oil SW = Surface Water
 S = Soil WW = Waste Water
 SI = Sludge WP = Wipe

PACE LAB #	CLIENT FIELD ID	COLLECTION		MATRIX	Analyses Requested	Y/N	Pick Letter									
		DATE	TIME													
014	MW-39C	3/20/17	15:25	GW	3	N	B									
015	MW-68B		15:50		1	N	B									
016	MW-70A		14:45		3	N	B									
017	MW-70A dup		14:45		3	N	B									
018	MW-70B		14:50	GW	3	N	B									
019	MW-75		15:00	"	1	N	B									
020	MW-77A	3/21/17	12:00		3	N	B									
021	MW-77B		12:05		1	N	B									
022	MW-77C		12:10		1	N	B									
023	MW-4A		11:30		3	N	B									
024	MW-4B		11:35		3	N	B									
025	Trip Blank	3/20			2	N	B									

Rush Turnaround Time Requested - Prelims
 (Rush TAT subject to approval/surcharge)
 Date Needed: _____

Transmit Prelim Rush Results by (complete what you want):
 Email #1: _____
 Email #2: _____
 Telephone: _____
 Fax: _____

Samples on HOLD are subject to special pricing and release of liability

Relinquished By: Alber Dye Date/Time: 3/21/17 13:00
 Relinquished By: CSD Organics Date/Time: 3/22/17 09:15
 Relinquished By: _____ Date/Time: _____
 Relinquished By: _____ Date/Time: _____
 Relinquished By: _____ Date/Time: _____

Received By: _____ Date/Time: _____
 Received By: Mackay Pace Date/Time: 3/22/17 09:15
 Received By: _____ Date/Time: _____
 Received By: _____ Date/Time: _____
 Received By: _____ Date/Time: _____

PACE Project No. 40147009
 Receipt Temp = ROI °C
 Sample Receipt pH OK / Adjusted
 Cooler Custody Seal Present / Not Present
 Intact / Not Intact



Sample Condition Upon Receipt

Pace Analytical Services, Inc.
1241 Bellevue Street, Suite 9
Green Bay, WI 54302

Project #: WO#: 40147069

Client Name: Gannett Fleming

Courier: Fed Ex UPS Client Pace Other: CSW Logistics
Tracking #: _____



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: NA Type of Ice: Wet Blue Dry None Samples on ice, cooling process has begun

Cooler Temperature: Uncorr: RDI /Corr: Biological Tissue is Frozen: yes no

Temp Blank Present: yes no

Temp should be above freezing to 6°C for all sample except Biota.
Frozen Biota Samples should be received ≤ 0°C.

Person examining contents:
Date: 3-22-17
Initials: mm

Comments:

Table with 15 rows of inspection items and checkboxes. Includes items like 'Chain of Custody Present', 'Short Hold Time Analysis', 'Rush Turn Around Time Requested', etc. Includes handwritten notes and initials.

Client Notification/ Resolution: Person Contacted: _____ Date/Time: _____
Comments/ Resolution: _____

Project Manager Review: [Signature] Date: 3-22-17

March 31, 2017

Project #34283.000
NPI Q1 GW
Reviewed by CCW
4/21/17

Clifford Wright
Gannett Fleming
8025 Excelsior Drive
Madison, WI 53717

RE: Project: 34283.000 NPI
Pace Project No.: 40147097

Dear Clifford Wright:

Enclosed are the analytical results for sample(s) received by the laboratory on March 23, 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

cc: Marcia Kuehl, MAKuehl Co.



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: 34283.000 NPI

Pace Project No.: 40147097

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: 34283.000 NPI

Pace Project No.: 40147097

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40147097001	MW-23A	Water	03/21/17 14:45	03/23/17 08:50
40147097002	MW-23A DUP	Water	03/21/17 14:45	03/23/17 08:50
40147097003	MW-23B	Water	03/21/17 14:40	03/23/17 08:50
40147097004	MW-76A	Water	03/21/17 13:55	03/23/17 08:50
40147097005	MW-76B	Water	03/21/17 14:00	03/23/17 08:50
40147097006	TRIP BLANK	Water	03/21/17 00:00	03/23/17 08:50
40147097007	EC-1	Water	03/22/17 09:55	03/23/17 08:50

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SAMPLE ANALYTE COUNT

Project: 34283.000 NPI

Pace Project No.: 40147097

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
40147097001	MW-23A	EPA 8260	HNW	8	PASI-G
40147097002	MW-23A DUP	EPA 8260	HNW	8	PASI-G
40147097003	MW-23B	EPA 8260	HNW	8	PASI-G
40147097004	MW-76A	EPA 8260	HNW	8	PASI-G
40147097005	MW-76B	EPA 8260	HNW	8	PASI-G
40147097006	TRIP BLANK	EPA 8260	LAP	8	PASI-G
40147097007	EC-1	EPA 8260	LAP	8	PASI-G

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SUMMARY OF DETECTION

Project: 34283.000 NPI

Pace Project No.: 40147097

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
40147097001	MW-23A					
EPA 8260	Trichloroethene	1.3	ug/L	1.0	03/24/17 10:56	
40147097002	MW-23A DUP					
EPA 8260	Trichloroethene	1.4	ug/L	1.0	03/24/17 12:47	
40147097003	MW-23B					
EPA 8260	Trichloroethene	2.0	ug/L	1.0	03/24/17 12:03	
40147097004	MW-76A					
EPA 8260	1,1,1-Trichloroethane	42.8	ug/L	1.0	03/24/17 09:49	
EPA 8260	1,1-Dichloroethane	1.9	ug/L	1.0	03/24/17 09:49	
EPA 8260	Tetrachloroethene	1.0	ug/L	1.0	03/24/17 09:49	
EPA 8260	Trichloroethene	4.6	ug/L	1.0	03/24/17 09:49	
40147097007	EC-1					
EPA 8260	Trichloroethene	1.6	ug/L	1.0	03/28/17 10:39	

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PROJECT NARRATIVE

Project: 34283.000 NPI

Pace Project No.: 40147097

Method: EPA 8260

Description: 8260 MSV

Client: Gannett Fleming Inc.

Date: March 31, 2017

General Information:

7 samples were analyzed for EPA 8260. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

Internal Standards:

All internal standards were within QC limits with any exceptions noted below.

Surrogates:

All surrogates were within QC limits with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 34283.000 NPI

Pace Project No.: 40147097

Sample: MW-23A **Lab ID: 40147097001** Collected: 03/21/17 14:45 Received: 03/23/17 08:50 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260							
1,1,1-Trichloroethane	<0.50	ug/L	1.0	0.50	1		03/24/17 10:56	71-55-6	
1,1-Dichloroethane	<0.24	ug/L	1.0	0.24	1		03/24/17 10:56	75-34-3	
1,1-Dichloroethene	<0.41	ug/L	1.0	0.41	1		03/24/17 10:56	75-35-4	
Tetrachloroethene	<0.50	ug/L	1.0	0.50	1		03/24/17 10:56	127-18-4	
Trichloroethene	1.3	ug/L	1.0	0.33	1		03/24/17 10:56	79-01-6	
Surrogates									
4-Bromofluorobenzene (S)	94	%	70-130		1		03/24/17 10:56	460-00-4	
Dibromofluoromethane (S)	110	%	70-130		1		03/24/17 10:56	1868-53-7	
Toluene-d8 (S)	89	%	70-130		1		03/24/17 10:56	2037-26-5	

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ANALYTICAL RESULTS

Project: 34283.000 NPI

Pace Project No.: 40147097

Sample: MW-23A DUP **Lab ID: 40147097002** Collected: 03/21/17 14:45 Received: 03/23/17 08:50 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260							
1,1,1-Trichloroethane	<0.50	ug/L	1.0	0.50	1		03/24/17 12:47	71-55-6	
1,1-Dichloroethane	<0.24	ug/L	1.0	0.24	1		03/24/17 12:47	75-34-3	
1,1-Dichloroethene	<0.41	ug/L	1.0	0.41	1		03/24/17 12:47	75-35-4	
Tetrachloroethene	<0.50	ug/L	1.0	0.50	1		03/24/17 12:47	127-18-4	
Trichloroethene	1.4	ug/L	1.0	0.33	1		03/24/17 12:47	79-01-6	
Surrogates									
4-Bromofluorobenzene (S)	94	%	70-130		1		03/24/17 12:47	460-00-4	
Dibromofluoromethane (S)	117	%	70-130		1		03/24/17 12:47	1868-53-7	
Toluene-d8 (S)	91	%	70-130		1		03/24/17 12:47	2037-26-5	

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ANALYTICAL RESULTS

Project: 34283.000 NPI

Pace Project No.: 40147097

Sample: MW-23B **Lab ID: 40147097003** Collected: 03/21/17 14:40 Received: 03/23/17 08:50 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260							
1,1,1-Trichloroethane	<0.50	ug/L	1.0	0.50	1		03/24/17 12:03	71-55-6	
1,1-Dichloroethane	<0.24	ug/L	1.0	0.24	1		03/24/17 12:03	75-34-3	
1,1-Dichloroethene	<0.41	ug/L	1.0	0.41	1		03/24/17 12:03	75-35-4	
Tetrachloroethene	<0.50	ug/L	1.0	0.50	1		03/24/17 12:03	127-18-4	
Trichloroethene	2.0	ug/L	1.0	0.33	1		03/24/17 12:03	79-01-6	
Surrogates									
4-Bromofluorobenzene (S)	94	%	70-130		1		03/24/17 12:03	460-00-4	
Dibromofluoromethane (S)	114	%	70-130		1		03/24/17 12:03	1868-53-7	
Toluene-d8 (S)	90	%	70-130		1		03/24/17 12:03	2037-26-5	

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ANALYTICAL RESULTS

Project: 34283.000 NPI

Pace Project No.: 40147097

Sample: MW-76A **Lab ID: 40147097004** Collected: 03/21/17 13:55 Received: 03/23/17 08:50 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV									
Analytical Method: EPA 8260									
1,1,1-Trichloroethane	42.8	ug/L	1.0	0.50	1		03/24/17 09:49	71-55-6	
1,1-Dichloroethane	1.9	ug/L	1.0	0.24	1		03/24/17 09:49	75-34-3	
1,1-Dichloroethene	<0.41	ug/L	1.0	0.41	1		03/24/17 09:49	75-35-4	
Tetrachloroethene	1.0	ug/L	1.0	0.50	1		03/24/17 09:49	127-18-4	
Trichloroethene	4.6	ug/L	1.0	0.33	1		03/24/17 09:49	79-01-6	
Surrogates									
4-Bromofluorobenzene (S)	95	%	70-130		1		03/24/17 09:49	460-00-4	
Dibromofluoromethane (S)	113	%	70-130		1		03/24/17 09:49	1868-53-7	
Toluene-d8 (S)	89	%	70-130		1		03/24/17 09:49	2037-26-5	

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ANALYTICAL RESULTS

Project: 34283.000 NPI

Pace Project No.: 40147097

Sample: MW-76B **Lab ID: 40147097005** Collected: 03/21/17 14:00 Received: 03/23/17 08:50 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260							
1,1,1-Trichloroethane	<0.50	ug/L	1.0	0.50	1		03/24/17 12:25	71-55-6	
1,1-Dichloroethane	<0.24	ug/L	1.0	0.24	1		03/24/17 12:25	75-34-3	
1,1-Dichloroethene	<0.41	ug/L	1.0	0.41	1		03/24/17 12:25	75-35-4	
Tetrachloroethene	<0.50	ug/L	1.0	0.50	1		03/24/17 12:25	127-18-4	
Trichloroethene	<0.33	ug/L	1.0	0.33	1		03/24/17 12:25	79-01-6	
Surrogates									
4-Bromofluorobenzene (S)	93	%	70-130		1		03/24/17 12:25	460-00-4	
Dibromofluoromethane (S)	113	%	70-130		1		03/24/17 12:25	1868-53-7	
Toluene-d8 (S)	90	%	70-130		1		03/24/17 12:25	2037-26-5	

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ANALYTICAL RESULTS

Project: 34283.000 NPI

Pace Project No.: 40147097

Sample: TRIP BLANK **Lab ID: 40147097006** Collected: 03/21/17 00:00 Received: 03/23/17 08:50 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260							
1,1,1-Trichloroethane	<0.50	ug/L	1.0	0.50	1		03/30/17 19:05	71-55-6	
1,1-Dichloroethane	<0.24	ug/L	1.0	0.24	1		03/30/17 19:05	75-34-3	
1,1-Dichloroethene	<0.41	ug/L	1.0	0.41	1		03/30/17 19:05	75-35-4	
Tetrachloroethene	<0.50	ug/L	1.0	0.50	1		03/30/17 19:05	127-18-4	
Trichloroethene	<0.33	ug/L	1.0	0.33	1		03/30/17 19:05	79-01-6	
Surrogates									
4-Bromofluorobenzene (S)	89	%	70-130		1		03/30/17 19:05	460-00-4	
Dibromofluoromethane (S)	96	%	70-130		1		03/30/17 19:05	1868-53-7	
Toluene-d8 (S)	98	%	70-130		1		03/30/17 19:05	2037-26-5	

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ANALYTICAL RESULTS

Project: 34283.000 NPI

Pace Project No.: 40147097

Sample: EC-1 **Lab ID: 40147097007** Collected: 03/22/17 09:55 Received: 03/23/17 08:50 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260							
1,1,1-Trichloroethane	<0.50	ug/L	1.0	0.50	1		03/28/17 10:39	71-55-6	
1,1-Dichloroethane	<0.24	ug/L	1.0	0.24	1		03/28/17 10:39	75-34-3	
1,1-Dichloroethene	<0.41	ug/L	1.0	0.41	1		03/28/17 10:39	75-35-4	
Tetrachloroethene	<0.50	ug/L	1.0	0.50	1		03/28/17 10:39	127-18-4	
Trichloroethene	1.6	ug/L	1.0	0.33	1		03/28/17 10:39	79-01-6	
Surrogates									
4-Bromofluorobenzene (S)	88	%	70-130		1		03/28/17 10:39	460-00-4	
Dibromofluoromethane (S)	93	%	70-130		1		03/28/17 10:39	1868-53-7	
Toluene-d8 (S)	96	%	70-130		1		03/28/17 10:39	2037-26-5	

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QUALITY CONTROL DATA

Project: 34283.000 NPI
Pace Project No.: 40147097

QC Batch: 250879 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV
Associated Lab Samples: 40147097007

METHOD BLANK: 1480638 Matrix: Water
Associated Lab Samples: 40147097007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	<0.50	1.0	03/28/17 07:15	
1,1-Dichloroethane	ug/L	<0.24	1.0	03/28/17 07:15	
1,1-Dichloroethene	ug/L	<0.41	1.0	03/28/17 07:15	
Tetrachloroethene	ug/L	<0.50	1.0	03/28/17 07:15	
Trichloroethene	ug/L	<0.33	1.0	03/28/17 07:15	
4-Bromofluorobenzene (S)	%	85	70-130	03/28/17 07:15	
Dibromofluoromethane (S)	%	96	70-130	03/28/17 07:15	
Toluene-d8 (S)	%	97	70-130	03/28/17 07:15	

LABORATORY CONTROL SAMPLE: 1480639

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	50	47.2	94	70-131	
1,1-Dichloroethane	ug/L	50	40.8	82	70-133	
1,1-Dichloroethene	ug/L	50	40.2	80	70-130	
Tetrachloroethene	ug/L	50	48.9	98	70-138	
Trichloroethene	ug/L	50	48.7	97	70-130	
4-Bromofluorobenzene (S)	%			98	70-130	
Dibromofluoromethane (S)	%			93	70-130	
Toluene-d8 (S)	%			98	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1480888 1480889

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	Max RPD	Qual	
		40147097007 Result	Spike Conc.	Spike Conc.	MS Result						MSD Result
1,1,1-Trichloroethane	ug/L	<0.50	50	50	49.8	50.6	100	101	70-134	2	20
1,1-Dichloroethane	ug/L	<0.24	50	50	43.1	44.9	86	90	70-134	4	20
1,1-Dichloroethene	ug/L	<0.41	50	50	43.4	43.5	87	87	68-136	0	20
Tetrachloroethene	ug/L	<0.50	50	50	52.1	53.1	104	106	70-148	2	20
Trichloroethene	ug/L	1.6	50	50	54.2	51.5	105	100	70-131	5	20
4-Bromofluorobenzene (S)	%						101	98	70-130		
Dibromofluoromethane (S)	%						97	96	70-130		
Toluene-d8 (S)	%						98	99	70-130		

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.

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QUALITY CONTROL DATA

Project: 34283.000 NPI
Pace Project No.: 40147097

QC Batch: 250943 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV
Associated Lab Samples: 40147097001, 40147097002, 40147097003, 40147097004, 40147097005

METHOD BLANK: 1481014 Matrix: Water
Associated Lab Samples: 40147097001, 40147097002, 40147097003, 40147097004, 40147097005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	<0.50	1.0	03/24/17 07:36	
1,1-Dichloroethane	ug/L	<0.24	1.0	03/24/17 07:36	
1,1-Dichloroethene	ug/L	<0.41	1.0	03/24/17 07:36	
Tetrachloroethene	ug/L	<0.50	1.0	03/24/17 07:36	
Trichloroethene	ug/L	<0.33	1.0	03/24/17 07:36	
4-Bromofluorobenzene (S)	%	93	70-130	03/24/17 07:36	
Dibromofluoromethane (S)	%	113	70-130	03/24/17 07:36	
Toluene-d8 (S)	%	89	70-130	03/24/17 07:36	

LABORATORY CONTROL SAMPLE: 1481015

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	50	63.5	127	70-131	
1,1-Dichloroethane	ug/L	50	62.4	125	70-133	
1,1-Dichloroethene	ug/L	50	60.9	122	70-130	
Tetrachloroethene	ug/L	50	47.3	95	70-138	
Trichloroethene	ug/L	50	56.5	113	70-130	
4-Bromofluorobenzene (S)	%			102	70-130	
Dibromofluoromethane (S)	%			114	70-130	
Toluene-d8 (S)	%			88	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1481017 1481018

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	Max RPD	RPD	Qual
		40147097004 Result	Spike Conc.	Spike Conc.	MS Result						
1,1,1-Trichloroethane	ug/L	42.8	50	50	104	104	122	122	70-134	0	20
1,1-Dichloroethane	ug/L	1.9	50	50	61.4	61.4	119	119	70-134	0	20
1,1-Dichloroethene	ug/L	<0.41	50	50	57.0	57.7	113	115	68-136	1	20
Tetrachloroethene	ug/L	1.0	50	50	48.5	48.5	95	95	70-148	0	20
Trichloroethene	ug/L	4.6	50	50	59.4	58.9	110	109	70-131	1	20
4-Bromofluorobenzene (S)	%						103	102	70-130		
Dibromofluoromethane (S)	%						114	113	70-130		
Toluene-d8 (S)	%						89	89	70-130		

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: 34283.000 NPI
Pace Project No.: 40147097

QC Batch: 251380 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV
Associated Lab Samples: 40147097006

METHOD BLANK: 1483473 Matrix: Water
Associated Lab Samples: 40147097006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	<0.50	1.0	03/30/17 17:12	
1,1-Dichloroethane	ug/L	<0.24	1.0	03/30/17 17:12	
1,1-Dichloroethene	ug/L	<0.41	1.0	03/30/17 17:12	
Tetrachloroethene	ug/L	<0.50	1.0	03/30/17 17:12	
Trichloroethene	ug/L	<0.33	1.0	03/30/17 17:12	
4-Bromofluorobenzene (S)	%	82	70-130	03/30/17 17:12	
Dibromofluoromethane (S)	%	98	70-130	03/30/17 17:12	
Toluene-d8 (S)	%	99	70-130	03/30/17 17:12	

LABORATORY CONTROL SAMPLE: 1483474

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	50	50.9	102	70-131	
1,1-Dichloroethane	ug/L	50	44.2	88	70-133	
1,1-Dichloroethene	ug/L	50	48.1	96	70-130	
Tetrachloroethene	ug/L	50	51.9	104	70-138	
Trichloroethene	ug/L	50	52.9	106	70-130	
4-Bromofluorobenzene (S)	%			100	70-130	
Dibromofluoromethane (S)	%			96	70-130	
Toluene-d8 (S)	%			96	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1483664 1483665

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	Max RPD	Qual	
		40147259004 Result	Spike Conc.	Spike Conc.	MS Result						MSD Result
1,1,1-Trichloroethane	ug/L	<0.50	50	50	51.3	53.4	103	107	70-134	4	20
1,1-Dichloroethane	ug/L	0.51J	50	50	45.5	46.0	90	91	70-134	1	20
1,1-Dichloroethene	ug/L	<0.41	50	50	47.2	47.5	94	95	68-136	1	20
Tetrachloroethene	ug/L	<0.50	50	50	52.3	53.4	105	107	70-148	2	20
Trichloroethene	ug/L	<0.33	50	50	50.2	53.6	100	107	70-131	7	20
4-Bromofluorobenzene (S)	%						90	95	70-130		
Dibromofluoromethane (S)	%						92	98	70-130		
Toluene-d8 (S)	%						97	99	70-130		

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.

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QUALIFIERS

Project: 34283.000 NPI

Pace Project No.: 40147097

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.

LABORATORIES

PASI-G Pace Analytical Services - Green Bay

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 34283.000 NPI
Pace Project No.: 40147097

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40147097001	MW-23A	EPA 8260	250943		
40147097002	MW-23A DUP	EPA 8260	250943		
40147097003	MW-23B	EPA 8260	250943		
40147097004	MW-76A	EPA 8260	250943		
40147097005	MW-76B	EPA 8260	250943		
40147097006	TRIP BLANK	EPA 8260	251380		
40147097007	EC-1	EPA 8260	250879		

REPORT OF LABORATORY ANALYSIS

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(Please Print Clearly)

40147097



MM

Page 19 of 20

Company Name: Gunnett Fleming
Branch/Location: Madison WI
Project Contact: Cliff Wright
Phone: 608-836-1500
Project Number: 34283.000
Project Name: NPI
Project State: WI
Sampled By (Print): Chelea Payne
Sampled By (Sign): Chelea Payne
PO #: Regulatory Program:

CHAIN OF CUSTODY

***Preservation Codes**
 A=None B=HCL C=H2SO4 D=HNO3 E=DI Water F=Methanol G=NaOH
 H=Sodium Bisulfate Solution I=Sodium Thiosulfate J=Other

FILTERED?
(YES/NO)
PRESERVATION
(CODE)*

FILTERED? (YES/NO)	PRESERVATION (CODE)*	Y/N	Pick Letter	Analyses Requested										
		N	B	VOCS										
				NPI Sheet List										

Quote #:
Mail To Contact: Cliff Wright
Mail To Company: Gunnett Fleming
 8025 Excelsior Dr
 Madison, WI 53717
Mail To Address:
Invoice To Contact:
Invoice To Company: See mail
Invoice To Address: to
Invoice To Phone: 608-836-1500
CLIENT COMMENTS:
 Send copy of report to Marcia A Kuehl 3170 Cherokee Ct Green Bay, WI 54311
LAB COMMENTS (Lab Use Only):
 3-40 ml vB
 2-40 ml vB
 3-40 ml vB
 8-40 ml vB
 =
 3-40 ml vB
 1-40 ml vB
 9-40 ml vB

Data Package Options (billable)
 EPA Level III
 EPA Level IV
MS/MSD
 On your sample (billable)
 NOT needed on your sample
Matrix Codes
 A = Air B = Biota C = Charcoal O = Oil S = Soil Sl = Sludge
 W = Water DW = Drinking Water GW = Ground Water SW = Surface Water WW = Waste Water WP = Wipe

PACE LAB #	CLIENT FIELD ID	COLLECTION		MATRIX							
		DATE	TIME								
001	MW-23A	3/21/17	14:45	GW					3		
002	MW-23 A dup		14:45						2		
003	MW 23 B		14:40						3		
004	MW-76A		13:55						3		
	MW-76 A MS		"						1		
	MW-76 A MSD		"						1		
005	MW-76B		14:00						↓		
006	Trip Blank	3/21/17							2		
007	EC-1	3-22	9:55						3		
	EC-1 MS		"						3		
	EC-1 MSD		"						3		

Rush Turnaround Time Requested - Prelims (Rush TAT subject to approval/surcharge) Date Needed:	Relinquished By: Chelea Payne	Date/Time: 3-22-17 13:00	Received By:	Date/Time: 03/22/17 08:52	PACE Project No. 40147097 Receipt Temp = ROT °C Sample Receipt pH OK / Adjusted Cooler Custody Seal Present (Not Present) Intact / Not Intact
	Transmit Prelim Rush Results by (complete what you want): Email #1: Email #2: Telephone: Fax:	Relinquished By: Walter	Date/Time: 3-23-17 08:50	Received By: Susant Wylie	
Samples on HOLD are subject to special pricing and release of liability	Relinquished By:	Date/Time:	Received By:	Date/Time:	

Sample Condition Upon Receipt

Pace Analytical Services, Inc.
1241 Bellevue Street, Suite 9
Green Bay, WI 54302

Pace Analytical™

Client Name: Gannett Fleming Project #:

WO#: **40147097**

Courier: Fed Ex UPS Client Pace Other: Walter
Tracking #: 1299778



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 no

Person examining contents:
Date: 3-23-17
Initials: SLW

Temp should be above freezing to 6°C for all sample except Biota.
Frozen Biota Samples should be received ≤ 0°C.

Comments:

Chain of Custody Present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1.
Chain of Custody Filled Out:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	2.
Chain of Custody Relinquished:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	3.
Sampler Name & Signature on COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	4.
Samples Arrived within Hold Time:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	5.
- VOA Samples frozen upon receipt	<input type="checkbox"/> Yes <input type="checkbox"/> No	Date/Time:
Short Hold Time Analysis (<72hr):	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	6.
Rush Turn Around Time Requested:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	7.
Sufficient Volume:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	8. Client listed 240ml B for Trip
Correct Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	9. Blank - only 1 received - 3/23/17 SLW
-Pace Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
-Pace IR Containers Used:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Containers Intact:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	10.
Filtered volume received for Dissolved tests	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	11.
Sample Labels match COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	12.
-Includes date/time/ID/Analysis Matrix: <u>W</u>		
All containers needing preservation have been checked. (Non-Compliance noted in 13.)	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	13. <input type="checkbox"/> HNO3 <input type="checkbox"/> H2SO4 <input type="checkbox"/> NaOH <input type="checkbox"/> NaOH + ZnAct
All containers needing preservation are found to be in compliance with EPA recommendation. (HNO3, H2SO4 ≤2; NaOH+ZnAct ≥9, NaOH ≥12)	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
exceptions: VOA, coliform, TOC, TOX, TOH, O&G, WIDROW, Phenolics, OTHER:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Initial when completed
		Lab Std #ID of preservative
		Date/Time:
Headspace in VOA Vials (>6mm):	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	14.
Trip Blank Present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	15.
Trip Blank Custody Seals Present	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Pace Trip Blank Lot # (if purchased):		

Client Notification/ Resolution: Person Contacted: _____ Date/Time: _____ If checked, see attached form for additional comments
Comments/ Resolution: _____

Project Manager Review: Amel for DM Date: 3/23/17

April 03, 2017

Project #34283.000
NPI Q1 GW ECMWF
Reviewed by CCW
4/21/17

Clifford Wright
Gannett Fleming
8025 Excelsior Drive
Madison, WI 53717

RE: Project: 34283.000 NPI
Pace Project No.: 40147095

Dear Clifford Wright:

Enclosed are the analytical results for sample(s) received by the laboratory on March 23, 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

cc: Marcia Kuehl, MAKuehl Co.



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: 34283.000 NPI

Pace Project No.: 40147095

Minnesota Certification IDs

1700 Elm Street SE, Suite 200, Minneapolis, MN 55414

A2LA Certification #: 2926.01

Alabama Certification #: 40770

Alaska Contaminated Sites Certification #: UST-078

Alaska DW Certification #: MN00064

Arizona Certification #: AZ0014

Arkansas Certification #: 88-0680

California Certification #: MN00064

CNMI Saipan Certification #: MP0003

Colorado Certification #: MN00064

Connecticut Certification #: PH-0256

EPA Region 8 Certification #: 8TMS-L

Florida Certification #: E87605

Georgia Certification #: 959

Guam EPA Certification #: MN00064

Hawaii Certification #: MN00064

Idaho Certification #: MN00064

Illinois Certification #: 200011

Indiana Certification #: C-MN-01

Iowa Certification #: 368

Kansas Certification #: E-10167

Kentucky DW Certification #: 90062

Kentucky WW Certification #: 90062

Louisiana DEQ Certification #: 03086

Louisiana DW Certification #: MN00064

Maine Certification #: MN00064

Maryland Certification #: 322

Michigan Certification #: 9909

Minnesota Certification #: 027-053-137

Mississippi Certification #: MN00064

Montana Certification #: CERT0092

Nebraska Certification #: NE-OS-18-06

Nevada Certification #: MN00064

New Hampshire Certification #: 2081

New Jersey Certification #: MN002

New York Certification #: 11647

North Carolina DW Certification #: 27700

North Carolina WW Certification #: 530

North Dakota Certification #: R-036

Ohio DW Certification #: 41244

Ohio VAP Certification #: CL101

Oklahoma Certification #: 9507

Oregon NwTPH Certification #: MN300001

Oregon Secondary Certification #: MN200001

Pennsylvania Certification #: 68-00563

Puerto Rico Certification #: MN00064

South Carolina Certification #: 74003001

Tennessee Certification #: TN02818

Texas Certification #: T104704192

Utah Certification #: MN00064

Virginia Certification #: 460163

Washington Certification #: C486

West Virginia DW Certification #: 9952 C

West Virginia WW Certification #: 382

Wisconsin Certification #: 999407970

Wyoming via EPA Region 8 Certification #: 8TMS-L

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SAMPLE SUMMARY

Project: 34283.000 NPI

Pace Project No.: 40147095

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40147095001	CW-11	Water	03/22/17 09:13	03/23/17 08:50
40147095002	CW-15	Water	03/22/17 09:17	03/23/17 08:50
40147095003	CW-16	Water	03/22/17 09:10	03/23/17 08:50
40147095004	CW-17	Water	03/22/17 09:25	03/23/17 08:50
40147095005	CW-19	Water	03/22/17 09:20	03/23/17 08:50
40147095006	RAW	Water	03/22/17 09:30	03/23/17 08:50
40147095007	TOWER A	Water	03/22/17 09:32	03/23/17 08:50
40147095008	TOWER B	Water	03/22/17 09:34	03/23/17 08:50
40147095009	FINISHED PRODUCT	Water	03/22/17 09:00	03/23/17 08:50
40147095010	TRIP BLANK	Water	03/22/17 00:00	03/23/17 08:50

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SAMPLE ANALYTE COUNT

Project: 34283.000 NPI
Pace Project No.: 40147095

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
40147095001	CW-11	EPA 524.2	DJB	8	PASI-M
40147095002	CW-15	EPA 524.2	DJB	8	PASI-M
40147095003	CW-16	EPA 524.2	DJB	8	PASI-M
40147095004	CW-17	EPA 524.2	DJB	8	PASI-M
40147095005	CW-19	EPA 524.2	DJB	8	PASI-M
40147095006	RAW	EPA 524.2	DJB	8	PASI-M
40147095007	TOWER A	EPA 524.2	DJB	8	PASI-M
40147095008	TOWER B	EPA 524.2	DJB	8	PASI-M
40147095009	FINISHED PRODUCT	EPA 524.2	DJB	8	PASI-M
40147095010	TRIP BLANK	EPA 524.2	DJB	8	PASI-M

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SUMMARY OF DETECTION

Project: 34283.000 NPI

Pace Project No.: 40147095

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
40147095002	CW-15					
EPA 524.2	Trichloroethene	0.33	ug/L	0.15	03/30/17 13:39	
40147095005	CW-19					
EPA 524.2	1,1,1-Trichloroethane	0.55	ug/L	0.35	03/30/17 15:07	
EPA 524.2	Trichloroethene	2.4	ug/L	0.15	03/30/17 15:07	

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PROJECT NARRATIVE

Project: 34283.000 NPI
Pace Project No.: 40147095

Method: EPA 524.2
Description: 524.2 MSV
Client: Gannett Fleming Inc.
Date: April 03, 2017

General Information:

10 samples were analyzed for EPA 524.2. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

Internal Standards:

All internal standards were within QC limits with any exceptions noted below.

Surrogates:

All surrogates were within QC limits with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: 466289

A matrix spike/matrix spike duplicate was not performed due to insufficient sample volume.

Duplicate Sample:

All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.

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ANALYTICAL RESULTS

Project: 34283.000 NPI

Pace Project No.: 40147095

Sample: CW-11 **Lab ID: 40147095001** Collected: 03/22/17 09:13 Received: 03/23/17 08:50 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
524.2 MSV		Analytical Method: EPA 524.2							
1,1-Dichloroethane	<0.088	ug/L	0.29	0.088	1		03/30/17 13:17	75-34-3	
1,1-Dichloroethene	<0.089	ug/L	0.30	0.089	1		03/30/17 13:17	75-35-4	
Tetrachloroethene	<0.12	ug/L	0.40	0.12	1		03/30/17 13:17	127-18-4	
1,1,1-Trichloroethane	<0.10	ug/L	0.35	0.10	1		03/30/17 13:17	71-55-6	
Trichloroethene	<0.044	ug/L	0.15	0.044	1		03/30/17 13:17	79-01-6	
Surrogates									
4-Bromofluorobenzene (S)	97	%	75-125		1		03/30/17 13:17	460-00-4	
Toluene-d8 (S)	96	%	75-125		1		03/30/17 13:17	2037-26-5	
1,2-Dichloroethane-d4 (S)	94	%	75-125		1		03/30/17 13:17	17060-07-0	

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ANALYTICAL RESULTS

Project: 34283.000 NPI

Pace Project No.: 40147095

Sample: CW-15 **Lab ID: 40147095002** Collected: 03/22/17 09:17 Received: 03/23/17 08:50 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
524.2 MSV		Analytical Method: EPA 524.2							
1,1-Dichloroethane	<0.088	ug/L	0.29	0.088	1		03/30/17 13:39	75-34-3	
1,1-Dichloroethene	<0.089	ug/L	0.30	0.089	1		03/30/17 13:39	75-35-4	
Tetrachloroethene	<0.12	ug/L	0.40	0.12	1		03/30/17 13:39	127-18-4	
1,1,1-Trichloroethane	<0.10	ug/L	0.35	0.10	1		03/30/17 13:39	71-55-6	
Trichloroethene	0.33	ug/L	0.15	0.044	1		03/30/17 13:39	79-01-6	
Surrogates									
4-Bromofluorobenzene (S)	97	%	75-125		1		03/30/17 13:39	460-00-4	
Toluene-d8 (S)	96	%	75-125		1		03/30/17 13:39	2037-26-5	
1,2-Dichloroethane-d4 (S)	94	%	75-125		1		03/30/17 13:39	17060-07-0	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 34283.000 NPI

Pace Project No.: 40147095

Sample: CW-16 **Lab ID: 40147095003** Collected: 03/22/17 09:10 Received: 03/23/17 08:50 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
524.2 MSV		Analytical Method: EPA 524.2							
1,1-Dichloroethane	<0.088	ug/L	0.29	0.088	1		03/30/17 14:23	75-34-3	
1,1-Dichloroethene	<0.089	ug/L	0.30	0.089	1		03/30/17 14:23	75-35-4	
Tetrachloroethene	<0.12	ug/L	0.40	0.12	1		03/30/17 14:23	127-18-4	
1,1,1-Trichloroethane	<0.10	ug/L	0.35	0.10	1		03/30/17 14:23	71-55-6	
Trichloroethene	<0.044	ug/L	0.15	0.044	1		03/30/17 14:23	79-01-6	
Surrogates									
4-Bromofluorobenzene (S)	97	%	75-125		1		03/30/17 14:23	460-00-4	
Toluene-d8 (S)	95	%	75-125		1		03/30/17 14:23	2037-26-5	
1,2-Dichloroethane-d4 (S)	93	%	75-125		1		03/30/17 14:23	17060-07-0	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 34283.000 NPI

Pace Project No.: 40147095

Sample: CW-17 **Lab ID: 40147095004** Collected: 03/22/17 09:25 Received: 03/23/17 08:50 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
524.2 MSV		Analytical Method: EPA 524.2							
1,1-Dichloroethane	<0.088	ug/L	0.29	0.088	1		03/30/17 14:45	75-34-3	
1,1-Dichloroethene	<0.089	ug/L	0.30	0.089	1		03/30/17 14:45	75-35-4	
Tetrachloroethene	<0.12	ug/L	0.40	0.12	1		03/30/17 14:45	127-18-4	
1,1,1-Trichloroethane	<0.10	ug/L	0.35	0.10	1		03/30/17 14:45	71-55-6	
Trichloroethene	<0.044	ug/L	0.15	0.044	1		03/30/17 14:45	79-01-6	
Surrogates									
4-Bromofluorobenzene (S)	96	%	75-125		1		03/30/17 14:45	460-00-4	
Toluene-d8 (S)	96	%	75-125		1		03/30/17 14:45	2037-26-5	
1,2-Dichloroethane-d4 (S)	93	%	75-125		1		03/30/17 14:45	17060-07-0	

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ANALYTICAL RESULTS

Project: 34283.000 NPI

Pace Project No.: 40147095

Sample: CW-19 **Lab ID: 40147095005** Collected: 03/22/17 09:20 Received: 03/23/17 08:50 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
524.2 MSV		Analytical Method: EPA 524.2							
1,1-Dichloroethane	<0.088	ug/L	0.29	0.088	1		03/30/17 15:07	75-34-3	
1,1-Dichloroethene	<0.089	ug/L	0.30	0.089	1		03/30/17 15:07	75-35-4	
Tetrachloroethene	<0.12	ug/L	0.40	0.12	1		03/30/17 15:07	127-18-4	
1,1,1-Trichloroethane	0.55	ug/L	0.35	0.10	1		03/30/17 15:07	71-55-6	
Trichloroethene	2.4	ug/L	0.15	0.044	1		03/30/17 15:07	79-01-6	
Surrogates									
4-Bromofluorobenzene (S)	95	%	75-125		1		03/30/17 15:07	460-00-4	
Toluene-d8 (S)	96	%	75-125		1		03/30/17 15:07	2037-26-5	
1,2-Dichloroethane-d4 (S)	94	%	75-125		1		03/30/17 15:07	17060-07-0	

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ANALYTICAL RESULTS

Project: 34283.000 NPI

Pace Project No.: 40147095

Sample: RAW **Lab ID: 40147095006** Collected: 03/22/17 09:30 Received: 03/23/17 08:50 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
524.2 MSV		Analytical Method: EPA 524.2							
1,1-Dichloroethane	<0.088	ug/L	0.29	0.088	1		03/30/17 15:29	75-34-3	
1,1-Dichloroethene	<0.089	ug/L	0.30	0.089	1		03/30/17 15:29	75-35-4	
Tetrachloroethene	<0.12	ug/L	0.40	0.12	1		03/30/17 15:29	127-18-4	
1,1,1-Trichloroethane	<0.10	ug/L	0.35	0.10	1		03/30/17 15:29	71-55-6	
Trichloroethene	<0.044	ug/L	0.15	0.044	1		03/30/17 15:29	79-01-6	
Surrogates									
4-Bromofluorobenzene (S)	97	%	75-125		1		03/30/17 15:29	460-00-4	
Toluene-d8 (S)	97	%	75-125		1		03/30/17 15:29	2037-26-5	
1,2-Dichloroethane-d4 (S)	93	%	75-125		1		03/30/17 15:29	17060-07-0	

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ANALYTICAL RESULTS

Project: 34283.000 NPI

Pace Project No.: 40147095

Sample: TOWER A **Lab ID: 40147095007** Collected: 03/22/17 09:32 Received: 03/23/17 08:50 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
524.2 MSV		Analytical Method: EPA 524.2							
1,1-Dichloroethane	<0.088	ug/L	0.29	0.088	1		03/30/17 15:51	75-34-3	
1,1-Dichloroethene	<0.089	ug/L	0.30	0.089	1		03/30/17 15:51	75-35-4	
Tetrachloroethene	<0.12	ug/L	0.40	0.12	1		03/30/17 15:51	127-18-4	
1,1,1-Trichloroethane	<0.10	ug/L	0.35	0.10	1		03/30/17 15:51	71-55-6	
Trichloroethene	<0.044	ug/L	0.15	0.044	1		03/30/17 15:51	79-01-6	
Surrogates									
4-Bromofluorobenzene (S)	96	%	75-125		1		03/30/17 15:51	460-00-4	
Toluene-d8 (S)	96	%	75-125		1		03/30/17 15:51	2037-26-5	
1,2-Dichloroethane-d4 (S)	94	%	75-125		1		03/30/17 15:51	17060-07-0	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 34283.000 NPI

Pace Project No.: 40147095

Sample: TOWER B **Lab ID: 40147095008** Collected: 03/22/17 09:34 Received: 03/23/17 08:50 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
524.2 MSV		Analytical Method: EPA 524.2							
1,1-Dichloroethane	<0.088	ug/L	0.29	0.088	1		03/30/17 16:13	75-34-3	
1,1-Dichloroethene	<0.089	ug/L	0.30	0.089	1		03/30/17 16:13	75-35-4	
Tetrachloroethene	<0.12	ug/L	0.40	0.12	1		03/30/17 16:13	127-18-4	
1,1,1-Trichloroethane	<0.10	ug/L	0.35	0.10	1		03/30/17 16:13	71-55-6	
Trichloroethene	<0.044	ug/L	0.15	0.044	1		03/30/17 16:13	79-01-6	
Surrogates									
4-Bromofluorobenzene (S)	96	%	75-125		1		03/30/17 16:13	460-00-4	
Toluene-d8 (S)	95	%	75-125		1		03/30/17 16:13	2037-26-5	
1,2-Dichloroethane-d4 (S)	93	%	75-125		1		03/30/17 16:13	17060-07-0	

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ANALYTICAL RESULTS

Project: 34283.000 NPI

Pace Project No.: 40147095

Sample: FINISHED PRODUCT **Lab ID: 40147095009** Collected: 03/22/17 09:00 Received: 03/23/17 08:50 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
524.2 MSV		Analytical Method: EPA 524.2							
1,1-Dichloroethane	<0.088	ug/L	0.29	0.088	1		03/30/17 16:36	75-34-3	
1,1-Dichloroethene	<0.089	ug/L	0.30	0.089	1		03/30/17 16:36	75-35-4	
Tetrachloroethene	<0.12	ug/L	0.40	0.12	1		03/30/17 16:36	127-18-4	
1,1,1-Trichloroethane	<0.10	ug/L	0.35	0.10	1		03/30/17 16:36	71-55-6	
Trichloroethene	<0.044	ug/L	0.15	0.044	1		03/30/17 16:36	79-01-6	
Surrogates									
4-Bromofluorobenzene (S)	97	%	75-125		1		03/30/17 16:36	460-00-4	
Toluene-d8 (S)	95	%	75-125		1		03/30/17 16:36	2037-26-5	
1,2-Dichloroethane-d4 (S)	93	%	75-125		1		03/30/17 16:36	17060-07-0	

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ANALYTICAL RESULTS

Project: 34283.000 NPI

Pace Project No.: 40147095

Sample: TRIP BLANK **Lab ID: 40147095010** Collected: 03/22/17 00:00 Received: 03/23/17 08:50 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
524.2 MSV		Analytical Method: EPA 524.2							
1,1-Dichloroethane	<0.088	ug/L	0.29	0.088	1		03/30/17 12:33	75-34-3	
1,1-Dichloroethene	<0.089	ug/L	0.30	0.089	1		03/30/17 12:33	75-35-4	
Tetrachloroethene	<0.12	ug/L	0.40	0.12	1		03/30/17 12:33	127-18-4	
1,1,1-Trichloroethane	<0.10	ug/L	0.35	0.10	1		03/30/17 12:33	71-55-6	
Trichloroethene	<0.044	ug/L	0.15	0.044	1		03/30/17 12:33	79-01-6	
Surrogates									
4-Bromofluorobenzene (S)	97	%	75-125		1		03/30/17 12:33	460-00-4	
Toluene-d8 (S)	96	%	75-125		1		03/30/17 12:33	2037-26-5	
1,2-Dichloroethane-d4 (S)	93	%	75-125		1		03/30/17 12:33	17060-07-0	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 34283.000 NPI
Pace Project No.: 40147095

QC Batch: 466289 Analysis Method: EPA 524.2
QC Batch Method: EPA 524.2 Analysis Description: 524.2 MSV
Associated Lab Samples: 40147095001, 40147095002, 40147095003, 40147095004, 40147095005, 40147095006, 40147095007, 40147095008, 40147095009, 40147095010

METHOD BLANK: 2548406 Matrix: Water
Associated Lab Samples: 40147095001, 40147095002, 40147095003, 40147095004, 40147095005, 40147095006, 40147095007, 40147095008, 40147095009, 40147095010

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	<0.10	0.35	03/30/17 12:11	
1,1-Dichloroethane	ug/L	<0.088	0.29	03/30/17 12:11	
1,1-Dichloroethene	ug/L	<0.089	0.30	03/30/17 12:11	
Tetrachloroethene	ug/L	<0.12	0.40	03/30/17 12:11	
Trichloroethene	ug/L	<0.044	0.15	03/30/17 12:11	
1,2-Dichloroethane-d4 (S)	%	92	75-125	03/30/17 12:11	
4-Bromofluorobenzene (S)	%	99	75-125	03/30/17 12:11	
Toluene-d8 (S)	%	96	75-125	03/30/17 12:11	

LABORATORY CONTROL SAMPLE & LCSD: 2548407 2548408

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
1,1,1-Trichloroethane	ug/L	20	18.1	17.6	90	88	70-130	3	20	
1,1-Dichloroethane	ug/L	20	19.6	18.9	98	95	70-130	3	20	
1,1-Dichloroethene	ug/L	20	19.9	19.4	100	97	70-130	3	20	
Tetrachloroethene	ug/L	20	19.3	18.9	97	95	70-130	2	20	
Trichloroethene	ug/L	20	20.2	19.4	101	97	70-130	4	20	
1,2-Dichloroethane-d4 (S)	%				90	91	75-125			
4-Bromofluorobenzene (S)	%				95	97	75-125			
Toluene-d8 (S)	%				97	97	75-125			

MATRIX SPIKE SAMPLE: 2548409

Parameter	Units	40147095001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	<0.10	20	18.8	94	70-130	
1,1-Dichloroethane	ug/L	<0.088	20	19.7	99	70-130	
1,1-Dichloroethene	ug/L	<0.089	20	21.7	109	70-130	
Tetrachloroethene	ug/L	<0.12	20	20.5	102	70-130	
Trichloroethene	ug/L	<0.044	20	20.7	104	70-130	
1,2-Dichloroethane-d4 (S)	%				91	75-125	
4-Bromofluorobenzene (S)	%				96	75-125	
Toluene-d8 (S)	%				97	75-125	

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.

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QUALITY CONTROL DATA

Project: 34283.000 NPI

Pace Project No.: 40147095

SAMPLE DUPLICATE: 2548410

Parameter	Units	40147095002 Result	Dup Result	RPD	Max RPD	Qualifiers
1,1,1-Trichloroethane	ug/L	<0.10	<0.10		20	
1,1-Dichloroethane	ug/L	<0.088	<0.088		20	
1,1-Dichloroethene	ug/L	<0.089	<0.089		20	
Tetrachloroethene	ug/L	<0.12	<0.12		20	
Trichloroethene	ug/L	0.33	0.34		20	
1,2-Dichloroethane-d4 (S)	%.	94	94	1		
4-Bromofluorobenzene (S)	%.	97	96	0		
Toluene-d8 (S)	%.	96	97	1		

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: 34283.000 NPI

Pace Project No.: 40147095

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.

LABORATORIES

PASI-M Pace Analytical Services - Minneapolis

BATCH QUALIFIERS

Batch: 466289

[M5] A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 34283.000 NPI

Pace Project No.: 40147095

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40147095001	CW-11	EPA 524.2	466289		
40147095002	CW-15	EPA 524.2	466289		
40147095003	CW-16	EPA 524.2	466289		
40147095004	CW-17	EPA 524.2	466289		
40147095005	CW-19	EPA 524.2	466289		
40147095006	RAW	EPA 524.2	466289		
40147095007	TOWER A	EPA 524.2	466289		
40147095008	TOWER B	EPA 524.2	466289		
40147095009	FINISHED PRODUCT	EPA 524.2	466289		
40147095010	TRIP BLANK	EPA 524.2	466289		

REPORT OF LABORATORY ANALYSIS

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(Please Print Clearly)

Company Name: *Gannett Fleming*
 Branch/Location: *Madison, WI*
 Project Contact: *Cliff Wright*
 Phone: *608-836-1500*
 Project Number: *34283,000*
 Project Name: *NPI*
 Project State: *WI*
 Sampled By (Print): *Chelsea Payne*
 Sampled By (Sign): *Chelsea Payne*
 PO #:



UPPER MIDWEST REGION
 MN: 612-607-1700 WI: 920-469-2436

40147095

CHAIN OF CUSTODY

*Preservation Codes
 A=None B=HCL C=H2SO4 D=HNO3 E=DI Water F=Methanol G=NaOH
 H=Sodium Bisulfate Solution I=Sodium Thiosulfate J=Other

FILTERED?
(YES/NO)
 PRESERVATION
(CODE)*

Y/N	Pick Letter	Analyses Requested
<i>Z</i>	<i>B</i>	<i>524 Drinking water Standard</i>
		<i>3</i>
		<i>2</i>

Quote #:
 Mail To Contact: *Cliff Wright*
 Mail To Company: *Gannett Fleming*
 Mail To Address: *8025 Excelsior Dr
Madison, WI 53717*
 Invoice To Contact:
 Invoice To Company: *See mail*
 Invoice To Address: *to*
 Invoice To Phone: *608-836-1500*
 CLIENT COMMENTS: *Send copy of report to Marcia A Kuehl
3470 Charleyoix Ct
Green Bay, WI
54311*
 LAB COMMENTS (Lab Use Only): *3-40mlVB
1-40mlVB*
 Profile #:

Data Package Options (billable)
 EPA Level III
 EPA Level IV

MS/MSD
 On your sample (billable)
 NOT needed on your sample

Matrix Codes
 A = Air W = Water
 B = Biota DW = Drinking Water
 C = Charcoal GW = Ground Water
 O = Oil SW = Surface Water
 S = Soil WW = Waste Water
 Sl = Sludge WP = Wipe

PACE LAB #	CLIENT FIELD ID	COLLECTION		MATRIX
		DATE	TIME	
<i>001</i>	<i>CW-11</i>	<i>3/22/17</i>	<i>9:13</i>	<i>GW</i>
<i>002</i>	<i>CW-15</i>		<i>9:17</i>	
<i>003</i>	<i>CW-16</i>		<i>9:10</i>	
<i>004</i>	<i>CW-17</i>		<i>9:25</i>	
<i>005</i>	<i>CW-19</i>		<i>9:20</i>	
<i>006</i>	<i>Raw</i>		<i>9:30</i>	
<i>007</i>	<i>Tower A</i>		<i>9:32</i>	
<i>008</i>	<i>Tower B</i>		<i>9:34</i>	
<i>009</i>	<i>Finished Product</i>		<i>9:00</i>	
<i>010</i>	<i>Trip Blank</i>	<i>3/22/17</i>		

Rush Turnaround Time Requested - Prelims (Rush TAT subject to approval/surcharge)
 Date Needed: *3-22-17 13:00*

Transmit Prelim Rush Results by (complete what you want):
 Relinquished By: *Chelsea Payne* Date/Time: *3-22-17 13:00*
 Relinquished By: *Walbro* Date/Time: *3-23-17 08:50*
 Relinquished By: _____ Date/Time: _____
 Relinquished By: _____ Date/Time: _____
 Relinquished By: _____ Date/Time: _____

Received By: _____ Date/Time: _____
 Received By: *Susanne Wolfe* Date/Time: *3-23-17 08:50*
 Received By: _____ Date/Time: _____
 Received By: _____ Date/Time: _____
 Received By: _____ Date/Time: _____

PACE Project No.: *40147095*
 Receipt Temp = *ROT* °C
 Sample Receipt pH: *OK / Adjusted*
 Cooler Custody Seal: *Present (Not Present)*
 Intact / Not Intact: *Intact*

Samples on HOLD are subject to special pricing and release of liability

Sample Condition Upon Receipt

Pace Analytical Services, Inc.
1241 Bellevue Street, Suite 9
Green Bay, WI 54302

Pace Analytical

Client Name: Gannett Fleming Project #: _____

WO#: **40147095**

Courier: Fed Ex UPS Client Pace Other: Walter



Tracking #: 1299778

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: RDI / Corr: _____ Biological Tissue is Frozen: yes no

Temp Blank Present: yes no

Person examining contents:
Date: 3-23-17
Initials: Stu

Temp should be above freezing to 6°C for all sample except Biota.
Frozen Biota Samples should be received ≤ 0°C.

Comments:

Chain of Custody Present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1.
Chain of Custody Filled Out:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	2.
Chain of Custody Relinquished:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	3.
Sampler Name & Signature on COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	4.
Samples Arrived within Hold Time:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	5.
- VOA Samples frozen upon receipt	<input type="checkbox"/> Yes <input type="checkbox"/> No	Date/Time:
Short Hold Time Analysis (<72hr):	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	6.
Rush Turn Around Time Requested:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	7.
Sufficient Volume:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	8. Client listed 2-Trip Blank -
Correct Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	9. Only 1 received. 3-23-17 SN
-Pace Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
-Pace IR Containers Used:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Containers Intact:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	10.
Filtered volume received for Dissolved tests	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	11.
Sample Labels match COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	12.
-Includes date/time/ID/Analysis Matrix:	<u>W</u>	
All containers needing preservation have been checked. (Non-Compliance noted in 13.)	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	13. <input type="checkbox"/> HNO3 <input type="checkbox"/> H2SO4 <input type="checkbox"/> NaOH <input type="checkbox"/> NaOH + ZnAct
All containers needing preservation are found to be in compliance with EPA recommendation. (HNO3, H2SO4 ≤2; NaOH+ZnAct ≥9, NaOH ≥12)	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
exceptions: VOA, coliform, TOC, TOX, TOH, O&G, WIDROW, Phenolics, OTHER:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Initial when completed
		Lab Std #ID of preservative
		Date/Time:
Headspace in VOA Vials (>6mm):	<u>3/23/17</u> <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	14. COC x 1 vial Kf 3/23/17
Trip Blank Present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	15.
Trip Blank Custody Seals Present	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Pace Trip Blank Lot # (if purchased):	<u>375</u>	

Client Notification/ Resolution: _____ If checked, see attached form for additional comments

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: [Signature] Date: 3-23-17



The Science You Build On.

Project #34283.000
NPI Q2 GW by others
Reviewed by CCW
7/12/17

EMAIL TRANSMITTAL

BRAUN INTERTEC CORPORATION

11001 Hampshire Avenue South
Minneapolis, MN 55438
Phone: 952.995.2000 Fax: 952.995.2020

Date: May 17, 2017

Project #: B1701934.00

To:
Mr. Derrick Paul
National Presto Industries, Inc.
3925 North Hastings Way
Eau Claire, Wisconsin 54703

Re:
Monitoring Well Sampling Results
MW-29A & MW-29B
1960 County Truck Highway OO/4940 Joles Avenue
Chippewa Falls, Wisconsin

We are sending you the following items:

Attached

Under separate cover via _____

1 - Pace Analytical Laboratory Report 10386820

These are being sent:

For approval

For review and signature

For your use

As requested

REMARKS:

CFD1 was a sample of purge water generated during sampling of MW-29A and MW-29B.

Copy to: Chuck Dreifus, Charles J. Dreifus & Associates LLC

Signed: Beth Johnson

Title: Senior Hydrogeologist

Phone: 406.475.5253

May 08, 2017

Beth Johnson
Braun Intertec
1502 Grumman Ln
Bismarck, ND 58501

RE: Project: B1701934.00 Eau Claire Press
Pace Project No.: 10386820

Dear Beth Johnson:

Enclosed are the analytical results for sample(s) received by the laboratory on April 28, 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 Nguyen
dan.nguyen@pacelabs.com
612-360-0728
Project Manager

Enclosures



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: B1701934.00 Eau Claire Press

Pace Project No.: 10386820

Minnesota Certification IDs

1700 Elm Street SE, Suite 200, Minneapolis, MN 55414

A2LA Certification #: 2926.01

Alabama Certification #: 40770

Alaska Contaminated Sites Certification #: UST-078

Alaska DW Certification #: MN00064

Arizona Certification #: AZ0014

Arkansas Certification #: 88-0680

California Certification #: MN00064

CNMI Saipan Certification #: MP0003

Colorado Certification #: MN00064

Connecticut Certification #: PH-0256

EPA Region 8 Certification #: 8TMS-L

Florida Certification #: E87605

Georgia Certification #: 959

Guam EPA Certification #: MN00064

Hawaii Certification #: MN00064

Idaho Certification #: MN00064

Illinois Certification #: 200011

Indiana Certification #: C-MN-01

Iowa Certification #: 368

Kansas Certification #: E-10167

Kentucky DW Certification #: 90062

Kentucky WW Certification #: 90062

Louisiana DEQ Certification #: 03086

Louisiana DW Certification #: MN00064

Maine Certification #: MN00064

Maryland Certification #: 322

Michigan Certification #: 9909

Minnesota Certification #: 027-053-137

Mississippi Certification #: MN00064

Montana Certification #: CERT0092

Nebraska Certification #: NE-OS-18-06

Nevada Certification #: MN00064

New Hampshire Certification #: 2081

New Jersey Certification #: MN002

New York Certification #: 11647

North Carolina DW Certification #: 27700

North Carolina WW Certification #: 530

North Dakota Certification #: R-036

Ohio DW Certification #: 41244

Ohio VAP Certification #: CL101

Oklahoma Certification #: 9507

Oregon NwTPH Certification #: MN300001

Oregon Secondary Certification #: MN200001

Pennsylvania Certification #: 68-00563

Puerto Rico Certification #: MN00064

South Carolina Certification #: 74003001

Tennessee Certification #: TN02818

Texas Certification #: T104704192

Utah Certification #: MN00064

Virginia Certification #: 460163

Washington Certification #: C486

West Virginia DW Certification #: 9952 C

West Virginia WW Certification #: 382

Wisconsin Certification #: 999407970

Wyoming via EPA Region 8 Certification #: 8TMS-L

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

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SAMPLE SUMMARY

Project: B1701934.00 Eau Claire Press

Pace Project No.: 10386820

Lab ID	Sample ID	Matrix	Date Collected	Date Received
10386820001	MW-29A	Water	04/27/17 11:10	04/28/17 11:15
10386820002	MW-29B	Water	04/27/17 12:15	04/28/17 11:15
10386820003	CFD1	Water	04/27/17 12:45	04/28/17 11:15
10386820004	Trip Blank	Water	04/27/17 00:00	04/28/17 11:15

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: B1701934.00 Eau Claire Press

Pace Project No.: 10386820

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
10386820001	MW-29A	EPA 8260B	PRD	70	PASI-M
10386820002	MW-29B	EPA 8260B	PRD	70	PASI-M
10386820003	CFD1	EPA 8260B	PRD	70	PASI-M
		EPA 1010	DEY	1	PASI-G
		SM 4500-H+B	JFP	1	PASI-M
10386820004	Trip Blank	EPA 8260B	PRD	70	PASI-M

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: B1701934.00 Eau Claire Press

Pace Project No.: 10386820

Sample: MW-29A **Lab ID: 10386820001** Collected: 04/27/17 11:10 Received: 04/28/17 11:15 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260B VOC Analytical Method: EPA 8260B									
Acetone	ND	ug/L	20.0	2.0	1		05/01/17 21:12	67-64-1	
Allyl chloride	ND	ug/L	4.0	0.25	1		05/01/17 21:12	107-05-1	
Benzene	ND	ug/L	1.0	0.16	1		05/01/17 21:12	71-43-2	
Bromobenzene	ND	ug/L	1.0	0.34	1		05/01/17 21:12	108-86-1	
Bromochloromethane	ND	ug/L	1.0	0.19	1		05/01/17 21:12	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.24	1		05/01/17 21:12	75-27-4	
Bromoform	ND	ug/L	4.0	0.27	1		05/01/17 21:12	75-25-2	
Bromomethane	ND	ug/L	4.0	0.44	1		05/01/17 21:12	74-83-9	CH
2-Butanone (MEK)	ND	ug/L	5.0	1.1	1		05/01/17 21:12	78-93-3	
n-Butylbenzene	ND	ug/L	1.0	0.16	1		05/01/17 21:12	104-51-8	
sec-Butylbenzene	ND	ug/L	1.0	0.19	1		05/01/17 21:12	135-98-8	
tert-Butylbenzene	ND	ug/L	1.0	0.22	1		05/01/17 21:12	98-06-6	
Carbon tetrachloride	ND	ug/L	1.0	0.20	1		05/01/17 21:12	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.11	1		05/01/17 21:12	108-90-7	
Chloroethane	ND	ug/L	1.0	0.34	1		05/01/17 21:12	75-00-3	
Chloroform	ND	ug/L	1.0	0.21	1		05/01/17 21:12	67-66-3	
Chloromethane	ND	ug/L	4.0	0.25	1		05/01/17 21:12	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	0.30	1		05/01/17 21:12	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	0.26	1		05/01/17 21:12	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	4.0	0.60	1		05/01/17 21:12	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	0.16	1		05/01/17 21:12	124-48-1	M1
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.20	1		05/01/17 21:12	106-93-4	M1
Dibromomethane	ND	ug/L	4.0	0.19	1		05/01/17 21:12	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	0.17	1		05/01/17 21:12	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	0.12	1		05/01/17 21:12	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	0.21	1		05/01/17 21:12	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	0.23	1		05/01/17 21:12	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	0.17	1		05/01/17 21:12	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.17	1		05/01/17 21:12	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	0.28	1		05/01/17 21:12	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	0.12	1		05/01/17 21:12	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.16	1		05/01/17 21:12	156-60-5	
Dichlorofluoromethane	ND	ug/L	1.0	0.21	1		05/01/17 21:12	75-43-4	
1,2-Dichloropropane	ND	ug/L	4.0	0.22	1		05/01/17 21:12	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	0.096	1		05/01/17 21:12	142-28-9	
2,2-Dichloropropane	ND	ug/L	4.0	0.13	1		05/01/17 21:12	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	0.23	1		05/01/17 21:12	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	4.0	0.15	1		05/01/17 21:12	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	4.0	0.15	1		05/01/17 21:12	10061-02-6	
Diethyl ether (Ethyl ether)	ND	ug/L	4.0	0.19	1		05/01/17 21:12	60-29-7	
Ethylbenzene	ND	ug/L	1.0	0.15	1		05/01/17 21:12	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	0.18	1		05/01/17 21:12	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	0.25	1		05/01/17 21:12	98-82-8	
p-Isopropyltoluene	ND	ug/L	1.0	0.19	1		05/01/17 21:12	99-87-6	
Methylene Chloride	ND	ug/L	4.0	0.29	1		05/01/17 21:12	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	0.43	1		05/01/17 21:12	108-10-1	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: B1701934.00 Eau Claire Press

Pace Project No.: 10386820

Sample: MW-29A **Lab ID: 10386820001** Collected: 04/27/17 11:10 Received: 04/28/17 11:15 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260B VOC Analytical Method: EPA 8260B									
Methyl-tert-butyl ether	ND	ug/L	1.0	0.15	1		05/01/17 21:12	1634-04-4	
Naphthalene	ND	ug/L	4.0	0.20	1		05/01/17 21:12	91-20-3	
n-Propylbenzene	ND	ug/L	1.0	0.23	1		05/01/17 21:12	103-65-1	
Styrene	ND	ug/L	1.0	0.29	1		05/01/17 21:12	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	0.17	1		05/01/17 21:12	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.22	1		05/01/17 21:12	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.25	1		05/01/17 21:12	127-18-4	
Tetrahydrofuran	ND	ug/L	10.0	1.5	1		05/01/17 21:12	109-99-9	
Toluene	ND	ug/L	1.0	0.14	1		05/01/17 21:12	108-88-3	B
1,2,3-Trichlorobenzene	ND	ug/L	1.0	0.21	1		05/01/17 21:12	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	0.21	1		05/01/17 21:12	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.17	1		05/01/17 21:12	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.15	1		05/01/17 21:12	79-00-5	
Trichloroethene	ND	ug/L	0.40	0.052	1		05/01/17 21:12	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.33	1		05/01/17 21:12	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	4.0	0.28	1		05/01/17 21:12	96-18-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/L	1.0	0.32	1		05/01/17 21:12	76-13-1	
1,2,4-Trimethylbenzene	ND	ug/L	1.0	0.18	1		05/01/17 21:12	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	1.0	0.27	1		05/01/17 21:12	108-67-8	
Vinyl chloride	ND	ug/L	0.20	0.069	1		05/02/17 15:03	75-01-4	
Xylene (Total)	ND	ug/L	3.0	0.32	1		05/01/17 21:12	1330-20-7	
Surrogates									
1,2-Dichloroethane-d4 (S)	96	%	75-137		1		05/02/17 15:03	17060-07-0	
Toluene-d8 (S)	97	%	75-125		1		05/02/17 15:03	2037-26-5	
4-Bromofluorobenzene (S)	97	%	75-125		1		05/02/17 15:03	460-00-4	

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ANALYTICAL RESULTS

Project: B1701934.00 Eau Claire Press

Pace Project No.: 10386820

Sample: MW-29B **Lab ID: 10386820002** Collected: 04/27/17 12:15 Received: 04/28/17 11:15 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260B VOC Analytical Method: EPA 8260B									
Acetone	ND	ug/L	20.0	2.0	1		05/04/17 10:16	67-64-1	L3
Allyl chloride	ND	ug/L	4.0	0.25	1		05/04/17 10:16	107-05-1	
Benzene	ND	ug/L	1.0	0.16	1		05/04/17 10:16	71-43-2	
Bromobenzene	ND	ug/L	1.0	0.34	1		05/04/17 10:16	108-86-1	
Bromochloromethane	ND	ug/L	1.0	0.19	1		05/04/17 10:16	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.24	1		05/04/17 10:16	75-27-4	
Bromoform	ND	ug/L	4.0	0.27	1		05/04/17 10:16	75-25-2	
Bromomethane	ND	ug/L	10.0	0.44	1		05/04/17 10:16	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	1.1	1		05/04/17 10:16	78-93-3	
n-Butylbenzene	ND	ug/L	1.0	0.16	1		05/04/17 10:16	104-51-8	
sec-Butylbenzene	ND	ug/L	4.0	0.19	1		05/04/17 10:16	135-98-8	
tert-Butylbenzene	ND	ug/L	1.0	0.22	1		05/04/17 10:16	98-06-6	
Carbon tetrachloride	ND	ug/L	1.0	0.20	1		05/04/17 10:16	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.11	1		05/04/17 10:16	108-90-7	
Chloroethane	ND	ug/L	1.0	0.34	1		05/04/17 10:16	75-00-3	
Chloroform	ND	ug/L	1.0	0.21	1		05/04/17 10:16	67-66-3	
Chloromethane	ND	ug/L	4.0	0.25	1		05/04/17 10:16	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	0.30	1		05/04/17 10:16	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	0.26	1		05/04/17 10:16	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	4.0	0.60	1		05/04/17 10:16	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	0.16	1		05/04/17 10:16	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.20	1		05/04/17 10:16	106-93-4	
Dibromomethane	ND	ug/L	4.0	0.19	1		05/04/17 10:16	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	0.17	1		05/04/17 10:16	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	0.12	1		05/04/17 10:16	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	0.21	1		05/04/17 10:16	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	0.23	1		05/04/17 10:16	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	0.17	1		05/04/17 10:16	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.17	1		05/04/17 10:16	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	0.28	1		05/04/17 10:16	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	0.12	1		05/04/17 10:16	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.16	1		05/04/17 10:16	156-60-5	
Dichlorofluoromethane	ND	ug/L	1.0	0.21	1		05/04/17 10:16	75-43-4	
1,2-Dichloropropane	ND	ug/L	4.0	0.22	1		05/04/17 10:16	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	0.096	1		05/04/17 10:16	142-28-9	
2,2-Dichloropropane	ND	ug/L	4.0	0.13	1		05/04/17 10:16	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	0.23	1		05/04/17 10:16	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	4.0	0.15	1		05/04/17 10:16	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	4.0	0.15	1		05/04/17 10:16	10061-02-6	
Diethyl ether (Ethyl ether)	ND	ug/L	4.0	0.19	1		05/04/17 10:16	60-29-7	
Ethylbenzene	ND	ug/L	1.0	0.15	1		05/04/17 10:16	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	4.0	0.18	1		05/04/17 10:16	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	0.25	1		05/04/17 10:16	98-82-8	
p-Isopropyltoluene	ND	ug/L	4.0	0.19	1		05/04/17 10:16	99-87-6	
Methylene Chloride	ND	ug/L	4.0	0.29	1		05/04/17 10:16	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	0.43	1		05/04/17 10:16	108-10-1	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: B1701934.00 Eau Claire Press

Pace Project No.: 10386820

Sample: MW-29B **Lab ID: 10386820002** Collected: 04/27/17 12:15 Received: 04/28/17 11:15 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260B VOC Analytical Method: EPA 8260B									
Methyl-tert-butyl ether	ND	ug/L	1.0	0.15	1		05/04/17 10:16	1634-04-4	
Naphthalene	ND	ug/L	4.0	0.20	1		05/04/17 10:16	91-20-3	
n-Propylbenzene	ND	ug/L	1.0	0.23	1		05/04/17 10:16	103-65-1	
Styrene	ND	ug/L	1.0	0.29	1		05/04/17 10:16	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	0.17	1		05/04/17 10:16	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.22	1		05/04/17 10:16	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.25	1		05/04/17 10:16	127-18-4	
Tetrahydrofuran	ND	ug/L	10.0	1.5	1		05/04/17 10:16	109-99-9	
Toluene	ND	ug/L	1.0	0.14	1		05/04/17 10:16	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	0.21	1		05/04/17 10:16	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	0.21	1		05/04/17 10:16	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	4.0	0.17	1		05/04/17 10:16	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.15	1		05/04/17 10:16	79-00-5	
Trichloroethene	ND	ug/L	0.40	0.052	1		05/04/17 10:16	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.33	1		05/04/17 10:16	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	4.0	0.28	1		05/04/17 10:16	96-18-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/L	10.0	0.32	1		05/04/17 10:16	76-13-1	
1,2,4-Trimethylbenzene	ND	ug/L	1.0	0.18	1		05/04/17 10:16	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	1.0	0.27	1		05/04/17 10:16	108-67-8	
Vinyl chloride	ND	ug/L	0.20	0.069	1		05/04/17 10:16	75-01-4	
Xylene (Total)	ND	ug/L	3.0	0.32	1		05/04/17 10:16	1330-20-7	
Surrogates									
1,2-Dichloroethane-d4 (S)	104	%	75-137		1		05/04/17 10:16	17060-07-0	
Toluene-d8 (S)	101	%	75-125		1		05/04/17 10:16	2037-26-5	
4-Bromofluorobenzene (S)	102	%	75-125		1		05/04/17 10:16	460-00-4	

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ANALYTICAL RESULTS

Project: B1701934.00 Eau Claire Press

Pace Project No.: 10386820

Sample: CFD1 **Lab ID:** 10386820003 Collected: 04/27/17 12:45 Received: 04/28/17 11:15 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260B VOC									
Analytical Method: EPA 8260B									
Acetone	36.9	ug/L	20.0	2.0	1		05/04/17 10:32	67-64-1	CH,L1, P2
Allyl chloride	ND	ug/L	4.0	0.25	1		05/04/17 10:32	107-05-1	
Benzene	ND	ug/L	1.0	0.16	1		05/04/17 10:32	71-43-2	
Bromobenzene	ND	ug/L	1.0	0.34	1		05/04/17 10:32	108-86-1	
Bromochloromethane	ND	ug/L	1.0	0.19	1		05/04/17 10:32	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.24	1		05/04/17 10:32	75-27-4	
Bromoform	ND	ug/L	4.0	0.27	1		05/04/17 10:32	75-25-2	
Bromomethane	ND	ug/L	10.0	0.44	1		05/04/17 10:32	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	1.1	1		05/04/17 10:32	78-93-3	
n-Butylbenzene	ND	ug/L	1.0	0.16	1		05/04/17 10:32	104-51-8	
sec-Butylbenzene	ND	ug/L	4.0	0.19	1		05/04/17 10:32	135-98-8	
tert-Butylbenzene	ND	ug/L	1.0	0.22	1		05/04/17 10:32	98-06-6	
Carbon tetrachloride	ND	ug/L	1.0	0.20	1		05/04/17 10:32	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.11	1		05/04/17 10:32	108-90-7	
Chloroethane	ND	ug/L	1.0	0.34	1		05/04/17 10:32	75-00-3	
Chloroform	ND	ug/L	1.0	0.21	1		05/04/17 10:32	67-66-3	
Chloromethane	ND	ug/L	4.0	0.25	1		05/04/17 10:32	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	0.30	1		05/04/17 10:32	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	0.26	1		05/04/17 10:32	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	4.0	0.60	1		05/04/17 10:32	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	0.16	1		05/04/17 10:32	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.20	1		05/04/17 10:32	106-93-4	
Dibromomethane	ND	ug/L	4.0	0.19	1		05/04/17 10:32	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	0.17	1		05/04/17 10:32	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	0.12	1		05/04/17 10:32	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	0.21	1		05/04/17 10:32	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	0.23	1		05/04/17 10:32	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	0.17	1		05/04/17 10:32	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.17	1		05/04/17 10:32	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	0.28	1		05/04/17 10:32	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	0.12	1		05/04/17 10:32	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.16	1		05/04/17 10:32	156-60-5	
Dichlorofluoromethane	ND	ug/L	1.0	0.21	1		05/04/17 10:32	75-43-4	
1,2-Dichloropropane	ND	ug/L	4.0	0.22	1		05/04/17 10:32	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	0.096	1		05/04/17 10:32	142-28-9	
2,2-Dichloropropane	ND	ug/L	4.0	0.13	1		05/04/17 10:32	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	0.23	1		05/04/17 10:32	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	4.0	0.15	1		05/04/17 10:32	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	4.0	0.15	1		05/04/17 10:32	10061-02-6	
Diethyl ether (Ethyl ether)	ND	ug/L	4.0	0.19	1		05/04/17 10:32	60-29-7	
Ethylbenzene	ND	ug/L	1.0	0.15	1		05/04/17 10:32	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	4.0	0.18	1		05/04/17 10:32	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	0.25	1		05/04/17 10:32	98-82-8	
p-Isopropyltoluene	ND	ug/L	4.0	0.19	1		05/04/17 10:32	99-87-6	
Methylene Chloride	ND	ug/L	4.0	0.29	1		05/04/17 10:32	75-09-2	

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ANALYTICAL RESULTS

Project: B1701934.00 Eau Claire Press

Pace Project No.: 10386820

Sample: CFD1 **Lab ID:** 10386820003 Collected: 04/27/17 12:45 Received: 04/28/17 11:15 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260B VOC Analytical Method: EPA 8260B									
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	0.43	1		05/04/17 10:32	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	1.0	0.15	1		05/04/17 10:32	1634-04-4	
Naphthalene	ND	ug/L	4.0	0.20	1		05/04/17 10:32	91-20-3	
n-Propylbenzene	ND	ug/L	1.0	0.23	1		05/04/17 10:32	103-65-1	
Styrene	ND	ug/L	1.0	0.29	1		05/04/17 10:32	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	0.17	1		05/04/17 10:32	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.22	1		05/04/17 10:32	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.25	1		05/04/17 10:32	127-18-4	
Tetrahydrofuran	ND	ug/L	10.0	1.5	1		05/04/17 10:32	109-99-9	
Toluene	ND	ug/L	1.0	0.14	1		05/04/17 10:32	108-88-3	
1,2,3-Trichlorobenzene	ND	ug/L	1.0	0.21	1		05/04/17 10:32	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	0.21	1		05/04/17 10:32	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	4.0	0.17	1		05/04/17 10:32	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.15	1		05/04/17 10:32	79-00-5	
Trichloroethene	ND	ug/L	0.40	0.052	1		05/04/17 10:32	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.33	1		05/04/17 10:32	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	4.0	0.28	1		05/04/17 10:32	96-18-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/L	10.0	0.32	1		05/04/17 10:32	76-13-1	
1,2,4-Trimethylbenzene	ND	ug/L	1.0	0.18	1		05/04/17 10:32	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	1.0	0.27	1		05/04/17 10:32	108-67-8	
Vinyl chloride	ND	ug/L	0.20	0.069	1		05/04/17 10:32	75-01-4	
Xylene (Total)	ND	ug/L	3.0	0.32	1		05/04/17 10:32	1330-20-7	
Surrogates									
1,2-Dichloroethane-d4 (S)	104	%	75-137		1		05/04/17 10:32	17060-07-0	
Toluene-d8 (S)	100	%	75-125		1		05/04/17 10:32	2037-26-5	
4-Bromofluorobenzene (S)	99	%	75-125		1		05/04/17 10:32	460-00-4	
1010 Flashpoint,Closed Cup Analytical Method: EPA 1010									
Flashpoint	>210	deg F			1		05/05/17 09:55		
4500H+ pH, Electrometric Analytical Method: SM 4500-H+B									
pH at 25 Degrees C	6.9	Std. Units	0.10	0.10	1		05/03/17 11:13		H6

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ANALYTICAL RESULTS

Project: B1701934.00 Eau Claire Press

Pace Project No.: 10386820

Sample: Trip Blank **Lab ID: 10386820004** Collected: 04/27/17 00:00 Received: 04/28/17 11:15 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260B VOC Analytical Method: EPA 8260B									
Acetone	ND	ug/L	20.0	2.0	1		05/01/17 20:39	67-64-1	
Allyl chloride	ND	ug/L	4.0	0.25	1		05/01/17 20:39	107-05-1	
Benzene	ND	ug/L	1.0	0.16	1		05/01/17 20:39	71-43-2	
Bromobenzene	ND	ug/L	1.0	0.34	1		05/01/17 20:39	108-86-1	
Bromochloromethane	ND	ug/L	1.0	0.19	1		05/01/17 20:39	74-97-5	
Bromodichloromethane	ND	ug/L	1.0	0.24	1		05/01/17 20:39	75-27-4	
Bromoform	ND	ug/L	4.0	0.27	1		05/01/17 20:39	75-25-2	
Bromomethane	ND	ug/L	4.0	0.44	1		05/01/17 20:39	74-83-9	
2-Butanone (MEK)	ND	ug/L	5.0	1.1	1		05/01/17 20:39	78-93-3	
n-Butylbenzene	ND	ug/L	1.0	0.16	1		05/01/17 20:39	104-51-8	
sec-Butylbenzene	ND	ug/L	1.0	0.19	1		05/01/17 20:39	135-98-8	
tert-Butylbenzene	ND	ug/L	1.0	0.22	1		05/01/17 20:39	98-06-6	
Carbon tetrachloride	ND	ug/L	1.0	0.20	1		05/01/17 20:39	56-23-5	
Chlorobenzene	ND	ug/L	1.0	0.11	1		05/01/17 20:39	108-90-7	
Chloroethane	ND	ug/L	1.0	0.34	1		05/01/17 20:39	75-00-3	
Chloroform	ND	ug/L	1.0	0.21	1		05/01/17 20:39	67-66-3	
Chloromethane	ND	ug/L	4.0	0.25	1		05/01/17 20:39	74-87-3	
2-Chlorotoluene	ND	ug/L	1.0	0.30	1		05/01/17 20:39	95-49-8	
4-Chlorotoluene	ND	ug/L	1.0	0.26	1		05/01/17 20:39	106-43-4	
1,2-Dibromo-3-chloropropane	ND	ug/L	4.0	0.60	1		05/01/17 20:39	96-12-8	
Dibromochloromethane	ND	ug/L	1.0	0.16	1		05/01/17 20:39	124-48-1	
1,2-Dibromoethane (EDB)	ND	ug/L	1.0	0.20	1		05/01/17 20:39	106-93-4	
Dibromomethane	ND	ug/L	4.0	0.19	1		05/01/17 20:39	74-95-3	
1,2-Dichlorobenzene	ND	ug/L	1.0	0.17	1		05/01/17 20:39	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	1.0	0.12	1		05/01/17 20:39	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	1.0	0.21	1		05/01/17 20:39	106-46-7	
Dichlorodifluoromethane	ND	ug/L	1.0	0.23	1		05/01/17 20:39	75-71-8	
1,1-Dichloroethane	ND	ug/L	1.0	0.17	1		05/01/17 20:39	75-34-3	
1,2-Dichloroethane	ND	ug/L	1.0	0.17	1		05/01/17 20:39	107-06-2	
1,1-Dichloroethene	ND	ug/L	1.0	0.28	1		05/01/17 20:39	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	1.0	0.12	1		05/01/17 20:39	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	1.0	0.16	1		05/01/17 20:39	156-60-5	
Dichlorofluoromethane	ND	ug/L	1.0	0.21	1		05/01/17 20:39	75-43-4	
1,2-Dichloropropane	ND	ug/L	4.0	0.22	1		05/01/17 20:39	78-87-5	
1,3-Dichloropropane	ND	ug/L	1.0	0.096	1		05/01/17 20:39	142-28-9	
2,2-Dichloropropane	ND	ug/L	4.0	0.13	1		05/01/17 20:39	594-20-7	
1,1-Dichloropropene	ND	ug/L	1.0	0.23	1		05/01/17 20:39	563-58-6	
cis-1,3-Dichloropropene	ND	ug/L	4.0	0.15	1		05/01/17 20:39	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	4.0	0.15	1		05/01/17 20:39	10061-02-6	
Diethyl ether (Ethyl ether)	ND	ug/L	4.0	0.19	1		05/01/17 20:39	60-29-7	
Ethylbenzene	ND	ug/L	1.0	0.15	1		05/01/17 20:39	100-41-4	
Hexachloro-1,3-butadiene	ND	ug/L	1.0	0.18	1		05/01/17 20:39	87-68-3	
Isopropylbenzene (Cumene)	ND	ug/L	1.0	0.25	1		05/01/17 20:39	98-82-8	
p-Isopropyltoluene	ND	ug/L	1.0	0.19	1		05/01/17 20:39	99-87-6	
Methylene Chloride	ND	ug/L	4.0	0.29	1		05/01/17 20:39	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	5.0	0.43	1		05/01/17 20:39	108-10-1	

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ANALYTICAL RESULTS

Project: B1701934.00 Eau Claire Press

Pace Project No.: 10386820

Sample: Trip Blank Lab ID: 10386820004 Collected: 04/27/17 00:00 Received: 04/28/17 11:15 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260B VOC									
Analytical Method: EPA 8260B									
Methyl-tert-butyl ether	ND	ug/L	1.0	0.15	1		05/01/17 20:39	1634-04-4	
Naphthalene	ND	ug/L	4.0	0.20	1		05/01/17 20:39	91-20-3	
n-Propylbenzene	ND	ug/L	1.0	0.23	1		05/01/17 20:39	103-65-1	
Styrene	ND	ug/L	1.0	0.29	1		05/01/17 20:39	100-42-5	
1,1,1,2-Tetrachloroethane	ND	ug/L	1.0	0.17	1		05/01/17 20:39	630-20-6	
1,1,2,2-Tetrachloroethane	ND	ug/L	1.0	0.22	1		05/01/17 20:39	79-34-5	
Tetrachloroethene	ND	ug/L	1.0	0.25	1		05/01/17 20:39	127-18-4	
Tetrahydrofuran	ND	ug/L	10.0	1.5	1		05/01/17 20:39	109-99-9	
Toluene	ND	ug/L	1.0	0.14	1		05/01/17 20:39	108-88-3	B
1,2,3-Trichlorobenzene	ND	ug/L	1.0	0.21	1		05/01/17 20:39	87-61-6	
1,2,4-Trichlorobenzene	ND	ug/L	1.0	0.21	1		05/01/17 20:39	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	1.0	0.17	1		05/01/17 20:39	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	1.0	0.15	1		05/01/17 20:39	79-00-5	
Trichloroethene	ND	ug/L	0.40	0.052	1		05/01/17 20:39	79-01-6	
Trichlorofluoromethane	ND	ug/L	1.0	0.33	1		05/01/17 20:39	75-69-4	
1,2,3-Trichloropropane	ND	ug/L	4.0	0.28	1		05/01/17 20:39	96-18-4	
1,1,2-Trichlorotrifluoroethane	ND	ug/L	1.0	0.32	1		05/01/17 20:39	76-13-1	
1,2,4-Trimethylbenzene	ND	ug/L	1.0	0.18	1		05/01/17 20:39	95-63-6	
1,3,5-Trimethylbenzene	ND	ug/L	1.0	0.27	1		05/01/17 20:39	108-67-8	
Vinyl chloride	ND	ug/L	0.20	0.069	1		05/02/17 14:15	75-01-4	
Xylene (Total)	ND	ug/L	3.0	0.32	1		05/01/17 20:39	1330-20-7	
Surrogates									
1,2-Dichloroethane-d4 (S)	95	%	75-137		1		05/02/17 14:15	17060-07-0	
Toluene-d8 (S)	96	%	75-125		1		05/02/17 14:15	2037-26-5	
4-Bromofluorobenzene (S)	99	%	75-125		1		05/02/17 14:15	460-00-4	

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QUALITY CONTROL DATA

Project: B1701934.00 Eau Claire Press

Pace Project No.: 10386820

QC Batch: 471500

Analysis Method: EPA 8260B

QC Batch Method: EPA 8260B

Analysis Description: 8260B MSV 465 W

Associated Lab Samples: 10386820002, 10386820003

METHOD BLANK: 2573581

Matrix: Water

Associated Lab Samples: 10386820002, 10386820003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	1.0	05/04/17 09:43	
1,1,1-Trichloroethane	ug/L	ND	4.0	05/04/17 09:43	MN
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	05/04/17 09:43	
1,1,2-Trichloroethane	ug/L	ND	1.0	05/04/17 09:43	
1,1,2-Trichlorotrifluoroethane	ug/L	ND	10.0	05/04/17 09:43	MN
1,1-Dichloroethane	ug/L	ND	1.0	05/04/17 09:43	
1,1-Dichloroethene	ug/L	ND	1.0	05/04/17 09:43	
1,1-Dichloropropene	ug/L	ND	1.0	05/04/17 09:43	
1,2,3-Trichlorobenzene	ug/L	ND	1.0	05/04/17 09:43	
1,2,3-Trichloropropane	ug/L	ND	4.0	05/04/17 09:43	
1,2,4-Trichlorobenzene	ug/L	ND	1.0	05/04/17 09:43	
1,2,4-Trimethylbenzene	ug/L	ND	1.0	05/04/17 09:43	
1,2-Dibromo-3-chloropropane	ug/L	ND	4.0	05/04/17 09:43	
1,2-Dibromoethane (EDB)	ug/L	ND	1.0	05/04/17 09:43	
1,2-Dichlorobenzene	ug/L	ND	1.0	05/04/17 09:43	
1,2-Dichloroethane	ug/L	ND	1.0	05/04/17 09:43	
1,2-Dichloropropane	ug/L	ND	4.0	05/04/17 09:43	
1,3,5-Trimethylbenzene	ug/L	ND	1.0	05/04/17 09:43	
1,3-Dichlorobenzene	ug/L	ND	1.0	05/04/17 09:43	
1,3-Dichloropropane	ug/L	ND	1.0	05/04/17 09:43	
1,4-Dichlorobenzene	ug/L	ND	1.0	05/04/17 09:43	
2,2-Dichloropropane	ug/L	ND	4.0	05/04/17 09:43	
2-Butanone (MEK)	ug/L	ND	5.0	05/04/17 09:43	
2-Chlorotoluene	ug/L	ND	1.0	05/04/17 09:43	
4-Chlorotoluene	ug/L	ND	1.0	05/04/17 09:43	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	5.0	05/04/17 09:43	
Acetone	ug/L	ND	20.0	05/04/17 09:43	
Allyl chloride	ug/L	ND	4.0	05/04/17 09:43	
Benzene	ug/L	ND	1.0	05/04/17 09:43	
Bromobenzene	ug/L	ND	1.0	05/04/17 09:43	
Bromochloromethane	ug/L	ND	1.0	05/04/17 09:43	
Bromodichloromethane	ug/L	ND	1.0	05/04/17 09:43	
Bromoform	ug/L	ND	4.0	05/04/17 09:43	
Bromomethane	ug/L	ND	10.0	05/04/17 09:43	MN
Carbon tetrachloride	ug/L	ND	1.0	05/04/17 09:43	
Chlorobenzene	ug/L	ND	1.0	05/04/17 09:43	
Chloroethane	ug/L	ND	1.0	05/04/17 09:43	
Chloroform	ug/L	ND	1.0	05/04/17 09:43	
Chloromethane	ug/L	ND	4.0	05/04/17 09:43	
cis-1,2-Dichloroethene	ug/L	ND	1.0	05/04/17 09:43	
cis-1,3-Dichloropropene	ug/L	ND	4.0	05/04/17 09:43	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: B1701934.00 Eau Claire Press

Pace Project No.: 10386820

METHOD BLANK: 2573581

Matrix: Water

Associated Lab Samples: 10386820002, 10386820003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Dibromochloromethane	ug/L	ND	1.0	05/04/17 09:43	
Dibromomethane	ug/L	ND	4.0	05/04/17 09:43	
Dichlorodifluoromethane	ug/L	ND	1.0	05/04/17 09:43	
Dichlorofluoromethane	ug/L	ND	1.0	05/04/17 09:43	
Diethyl ether (Ethyl ether)	ug/L	ND	4.0	05/04/17 09:43	
Ethylbenzene	ug/L	ND	1.0	05/04/17 09:43	
Hexachloro-1,3-butadiene	ug/L	ND	4.0	05/04/17 09:43	MN
Isopropylbenzene (Cumene)	ug/L	ND	1.0	05/04/17 09:43	
Methyl-tert-butyl ether	ug/L	ND	1.0	05/04/17 09:43	
Methylene Chloride	ug/L	ND	4.0	05/04/17 09:43	
n-Butylbenzene	ug/L	ND	1.0	05/04/17 09:43	
n-Propylbenzene	ug/L	ND	1.0	05/04/17 09:43	
Naphthalene	ug/L	ND	4.0	05/04/17 09:43	
p-Isopropyltoluene	ug/L	ND	4.0	05/04/17 09:43	MN
sec-Butylbenzene	ug/L	ND	4.0	05/04/17 09:43	MN
Styrene	ug/L	ND	1.0	05/04/17 09:43	
tert-Butylbenzene	ug/L	ND	1.0	05/04/17 09:43	
Tetrachloroethene	ug/L	ND	1.0	05/04/17 09:43	
Tetrahydrofuran	ug/L	ND	10.0	05/04/17 09:43	
Toluene	ug/L	ND	1.0	05/04/17 09:43	
trans-1,2-Dichloroethene	ug/L	ND	1.0	05/04/17 09:43	
trans-1,3-Dichloropropene	ug/L	ND	4.0	05/04/17 09:43	
Trichloroethene	ug/L	ND	0.40	05/04/17 09:43	
Trichlorofluoromethane	ug/L	ND	1.0	05/04/17 09:43	
Vinyl chloride	ug/L	ND	0.20	05/04/17 09:43	
Xylene (Total)	ug/L	ND	3.0	05/04/17 09:43	
1,2-Dichloroethane-d4 (S)	%	106	75-137	05/04/17 09:43	
4-Bromofluorobenzene (S)	%	98	75-125	05/04/17 09:43	
Toluene-d8 (S)	%	101	75-125	05/04/17 09:43	

LABORATORY CONTROL SAMPLE: 2573582

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	20	18.3	91	75-125	
1,1,1-Trichloroethane	ug/L	20	17.3	87	69-125	
1,1,2,2-Tetrachloroethane	ug/L	20	19.2	96	70-125	
1,1,2-Trichloroethane	ug/L	20	19.3	97	75-125	
1,1,2-Trichlorotrifluoroethane	ug/L	20	16.0	80	70-133	
1,1-Dichloroethane	ug/L	20	18.8	94	62-130	
1,1-Dichloroethene	ug/L	20	18.2	91	64-134	
1,1-Dichloropropene	ug/L	20	18.5	93	65-129	
1,2,3-Trichlorobenzene	ug/L	20	18.1	90	75-125	
1,2,3-Trichloropropane	ug/L	20	21.4	107	70-125	
1,2,4-Trichlorobenzene	ug/L	20	17.3	87	75-125	

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QUALITY CONTROL DATA

Project: B1701934.00 Eau Claire Press

Pace Project No.: 10386820

LABORATORY CONTROL SAMPLE: 2573582

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2,4-Trimethylbenzene	ug/L	20	19.0	95	69-135	
1,2-Dibromo-3-chloropropane	ug/L	50	44.7	89	73-130	
1,2-Dibromoethane (EDB)	ug/L	20	19.0	95	75-125	
1,2-Dichlorobenzene	ug/L	20	18.9	94	75-125	
1,2-Dichloroethane	ug/L	20	16.7	84	64-126	
1,2-Dichloropropane	ug/L	20	19.0	95	73-125	
1,3,5-Trimethylbenzene	ug/L	20	19.7	99	71-129	
1,3-Dichlorobenzene	ug/L	20	19.9	100	75-125	
1,3-Dichloropropane	ug/L	20	19.0	95	74-125	
1,4-Dichlorobenzene	ug/L	20	19.0	95	75-125	
2,2-Dichloropropane	ug/L	20	17.6	88	59-135	
2-Butanone (MEK)	ug/L	100	131	131	57-142	
2-Chlorotoluene	ug/L	20	19.4	97	73-125	
4-Chlorotoluene	ug/L	20	19.4	97	74-128	
4-Methyl-2-pentanone (MIBK)	ug/L	100	110	110	56-142	
Acetone	ug/L	100	148	148	75-133	CH,L1
Allyl chloride	ug/L	20	17.3	86	62-139	
Benzene	ug/L	20	17.8	89	74-125	
Bromobenzene	ug/L	20	19.1	96	75-125	
Bromochloromethane	ug/L	20	19.0	95	75-125	
Bromodichloromethane	ug/L	20	18.2	91	72-125	
Bromoform	ug/L	20	16.1	81	74-125	
Bromomethane	ug/L	20	16.4	82	30-150	
Carbon tetrachloride	ug/L	20	16.0	80	67-130	
Chlorobenzene	ug/L	20	19.1	96	75-125	
Chloroethane	ug/L	20	17.9	89	63-137	
Chloroform	ug/L	20	18.0	90	68-128	
Chloromethane	ug/L	20	18.4	92	46-145	
cis-1,2-Dichloroethene	ug/L	20	17.9	89	75-125	
cis-1,3-Dichloropropene	ug/L	20	17.9	89	73-125	
Dibromochloromethane	ug/L	20	18.6	93	75-125	
Dibromomethane	ug/L	20	18.9	94	73-125	
Dichlorodifluoromethane	ug/L	20	18.6	93	36-150	
Dichlorofluoromethane	ug/L	20	18.8	94	75-125	
Diethyl ether (Ethyl ether)	ug/L	20	18.9	95	62-136	
Ethylbenzene	ug/L	20	18.3	92	73-125	
Hexachloro-1,3-butadiene	ug/L	20	18.0	90	69-141	
Isopropylbenzene (Cumene)	ug/L	20	18.7	94	75-126	
Methyl-tert-butyl ether	ug/L	20	18.7	93	70-130	
Methylene Chloride	ug/L	20	17.9	90	74-125	
n-Butylbenzene	ug/L	20	16.6	83	69-133	
n-Propylbenzene	ug/L	20	19.1	95	75-125	
Naphthalene	ug/L	20	17.3	87	66-129	
p-Isopropyltoluene	ug/L	20	17.1	85	73-127	
sec-Butylbenzene	ug/L	20	17.5	87	75-131	
Styrene	ug/L	20	18.5	92	75-128	
tert-Butylbenzene	ug/L	20	19.3	96	75-127	

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QUALITY CONTROL DATA

Project: B1701934.00 Eau Claire Press

Pace Project No.: 10386820

LABORATORY CONTROL SAMPLE: 2573582

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Tetrachloroethane	ug/L	20	19.1	96	71-127	
Tetrahydrofuran	ug/L	200	196	98	75-132	
Toluene	ug/L	20	19.0	95	75-125	
trans-1,2-Dichloroethene	ug/L	20	18.8	94	69-127	
trans-1,3-Dichloropropene	ug/L	20	17.9	90	70-128	
Trichloroethene	ug/L	20	18.9	94	70-125	
Trichlorofluoromethane	ug/L	20	18.2	91	71-125	
Vinyl chloride	ug/L	20	19.7	99	69-133	
Xylene (Total)	ug/L	60	57.6	96	75-125	
1,2-Dichloroethane-d4 (S)	%			100	75-137	
4-Bromofluorobenzene (S)	%			99	75-125	
Toluene-d8 (S)	%			102	75-125	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2576388 2576389

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		10386324002 Result	Spike Conc.	Spike Conc.	MS Result						
1,1,1,2-Tetrachloroethane	ug/L	ND	20	20	22.4	26.5	112	133	75-138	17	30
1,1,1-Trichloroethane	ug/L	ND	20	20	23.3	27.4	116	137	75-145	16	30
1,1,2,2-Tetrachloroethane	ug/L	ND	20	20	21.3	24.1	106	121	73-150	12	30
1,1,2-Trichloroethane	ug/L	ND	20	20	23.0	27.3	115	136	75-140	17	30
1,1,2-Trichlorotrifluoroethane	ug/L	ND	20	20	22.8	26.2	114	131	74-150	14	30
1,1-Dichloroethane	ug/L	ND	20	20	23.9	27.8	119	139	75-140	15	30
1,1-Dichloroethene	ug/L	ND	20	20	24.5	27.9	122	139	73-150	13	30
1,1-Dichloropropene	ug/L	ND	20	20	24.3	26.8	122	134	75-150	10	30
1,2,3-Trichlorobenzene	ug/L	ND	20	20	18.5	21.7	92	109	57-147	16	30
1,2,3-Trichloropropane	ug/L	ND	20	20	22.8	25.9	114	129	75-147	13	30
1,2,4-Trichlorobenzene	ug/L	ND	20	20	19.9	21.0	100	105	59-142	5	30
1,2,4-Trimethylbenzene	ug/L	ND	20	20	22.8	25.3	114	126	73-141	11	30
1,2-Dibromo-3-chloropropane	ug/L	ND	50	50	44.6	52.0	89	104	65-136	15	30
1,2-Dibromoethane (EDB)	ug/L	ND	20	20	21.4	26.0	107	130	75-131	19	30
1,2-Dichlorobenzene	ug/L	ND	20	20	22.3	24.4	111	122	75-141	9	30
1,2-Dichloroethane	ug/L	ND	20	20	20.7	24.1	104	121	75-125	15	30
1,2-Dichloropropane	ug/L	ND	20	20	23.5	27.9	117	139	71-147	17	30
1,3,5-Trimethylbenzene	ug/L	ND	20	20	24.2	26.6	121	133	75-139	9	30
1,3-Dichlorobenzene	ug/L	ND	20	20	22.8	24.8	114	124	75-142	8	30
1,3-Dichloropropane	ug/L	ND	20	20	22.5	26.7	113	134	75-141	17	30
1,4-Dichlorobenzene	ug/L	ND	20	20	21.8	24.5	109	123	75-139	12	30
2,2-Dichloropropane	ug/L	ND	20	20	21.3	24.6	107	123	60-150	14	30
2-Butanone (MEK)	ug/L	ND	100	100	92.7	109	93	109	68-133	16	30
2-Chlorotoluene	ug/L	ND	20	20	23.8	25.8	119	129	75-146	8	30
4-Chlorotoluene	ug/L	ND	20	20	23.1	25.4	116	127	75-149	10	30
4-Methyl-2-pentanone (MIBK)	ug/L	ND	100	100	107	127	107	127	67-150	17	30
Acetone	ug/L	ND	100	100	93.0	106	90	104	56-150	13	30 CH

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QUALITY CONTROL DATA

Project: B1701934.00 Eau Claire Press

Pace Project No.: 10386820

Parameter	Units	10386324002		MS		MSD		MS		MSD		% Rec	Limits	RPD	Max RPD	Qual
		Result	MS Spike Conc.	MSD Spike Conc.	Result	MSD Result	% Rec	% Rec								
Allyl chloride	ug/L	ND	20	20	22.4	25.4	112	127	66-134	13	30					
Benzene	ug/L	ND	20	20	23.0	26.4	115	132	74-134	14	30					
Bromobenzene	ug/L	ND	20	20	22.6	25.6	113	128	75-138	13	30					
Bromochloromethane	ug/L	ND	20	20	22.8	27.1	114	136	75-145	18	30					
Bromodichloromethane	ug/L	ND	20	20	22.2	26.4	111	132	75-143	17	30					
Bromoform	ug/L	ND	20	20	18.0	20.9	90	105	67-125	15	30					
Bromomethane	ug/L	ND	20	20	21.0	25.3	105	126	30-150	18	30					
Carbon tetrachloride	ug/L	ND	20	20	22.4	25.2	112	126	75-150	12	30					
Chlorobenzene	ug/L	ND	20	20	24.6	28.1	123	141	75-133	13	30	M1				
Chloroethane	ug/L	ND	20	20	23.1	30.4	115	152	53-150	27	30	M1				
Chloroform	ug/L	ND	20	20	22.9	26.8	114	134	75-134	16	30					
Chloromethane	ug/L	ND	20	20	23.1	29.7	115	148	41-150	25	30					
cis-1,2-Dichloroethene	ug/L	3.9	20	20	22.1	26.2	91	112	73-140	17	30					
cis-1,3-Dichloropropene	ug/L	ND	20	20	21.6	24.9	108	124	72-140	14	30					
Dibromochloromethane	ug/L	ND	20	20	21.2	25.2	106	126	74-130	17	30					
Dibromomethane	ug/L	ND	20	20	22.9	26.4	114	132	70-141	14	30					
Dichlorodifluoromethane	ug/L	ND	20	20	23.8	32.7	119	164	50-150	31	30	M1, R1				
Dichlorofluoromethane	ug/L	ND	20	20	23.8	32.1	119	160	62-150	30	30	M1				
Diethyl ether (Ethyl ether)	ug/L	ND	20	20	22.4	25.9	112	129	71-141	14	30					
Ethylbenzene	ug/L	ND	20	20	22.9	26.3	114	132	75-136	14	30					
Hexachloro-1,3-butadiene	ug/L	ND	20	20	21.6	23.0	108	115	47-150	7	30					
Isopropylbenzene (Cumene)	ug/L	ND	20	20	23.3	27.0	116	135	75-138	15	30					
Methyl-tert-butyl ether	ug/L	ND	20	20	21.8	25.5	109	128	75-128	16	30					
Methylene Chloride	ug/L	ND	20	20	22.0	25.4	110	127	69-150	15	30					
n-Butylbenzene	ug/L	ND	20	20	19.5	21.7	97	108	68-150	11	30					
n-Propylbenzene	ug/L	ND	20	20	23.8	26.2	119	131	74-150	10	30					
Naphthalene	ug/L	ND	20	20	15.7	20.4	79	102	61-138	26	30					
p-Isopropyltoluene	ug/L	ND	20	20	20.7	23.5	103	117	70-142	13	30					
sec-Butylbenzene	ug/L	ND	20	20	21.8	24.1	109	121	74-150	10	30					
Styrene	ug/L	ND	20	20	22.3	26.6	112	133	70-140	17	30					
tert-Butylbenzene	ug/L	ND	20	20	24.8	27.0	124	135	73-140	9	30					
Tetrachloroethene	ug/L	2.5	20	20	23.8	26.7	106	121	72-141	12	30					
Tetrahydrofuran	ug/L	ND	200	200	221	252	111	126	53-150	13	30					
Toluene	ug/L	ND	20	20	23.4	27.2	117	136	71-138	15	30					
trans-1,2-Dichloroethene	ug/L	ND	20	20	22.8	26.9	114	135	74-149	17	30					
trans-1,3-Dichloropropene	ug/L	ND	20	20	21.5	25.2	107	126	74-138	16	30					
Trichloroethene	ug/L	0.63	20	20	23.7	27.2	115	133	70-150	14	30					
Trichlorofluoromethane	ug/L	ND	20	20	24.4	32.9	122	164	57-150	30	30	M1				
Vinyl chloride	ug/L	ND	20	20	25.6	34.0	128	170	59-150	28	30	M1				
Xylene (Total)	ug/L	ND	60	60	70.9	79.5	118	132	75-131	11	30	MS				
1,2-Dichloroethane-d4 (S)	%						101	99	75-137							
4-Bromofluorobenzene (S)	%						100	98	75-125							
Toluene-d8 (S)	%						100	100	75-125							

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QUALITY CONTROL DATA

Project: B1701934.00 Eau Claire Press

Pace Project No.: 10386820

QC Batch: 472335 Analysis Method: EPA 8260B
QC Batch Method: EPA 8260B Analysis Description: 8260B MSV 465 W
Associated Lab Samples: 10386820001, 10386820004

METHOD BLANK: 2577133 Matrix: Water

Associated Lab Samples: 10386820001, 10386820004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	1.0	05/01/17 19:50	
1,1,1-Trichloroethane	ug/L	ND	1.0	05/01/17 19:50	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	05/01/17 19:50	
1,1,2-Trichloroethane	ug/L	ND	1.0	05/01/17 19:50	
1,1,2-Trichlorotrifluoroethane	ug/L	ND	1.0	05/01/17 19:50	
1,1-Dichloroethane	ug/L	ND	1.0	05/01/17 19:50	
1,1-Dichloroethene	ug/L	ND	1.0	05/01/17 19:50	
1,1-Dichloropropene	ug/L	ND	1.0	05/01/17 19:50	
1,2,3-Trichlorobenzene	ug/L	ND	1.0	05/01/17 19:50	
1,2,3-Trichloropropane	ug/L	ND	4.0	05/01/17 19:50	
1,2,4-Trichlorobenzene	ug/L	ND	1.0	05/01/17 19:50	
1,2,4-Trimethylbenzene	ug/L	ND	1.0	05/01/17 19:50	
1,2-Dibromo-3-chloropropane	ug/L	ND	4.0	05/01/17 19:50	
1,2-Dibromoethane (EDB)	ug/L	ND	1.0	05/01/17 19:50	
1,2-Dichlorobenzene	ug/L	ND	1.0	05/01/17 19:50	
1,2-Dichloroethane	ug/L	ND	1.0	05/01/17 19:50	
1,2-Dichloropropane	ug/L	ND	4.0	05/01/17 19:50	
1,3,5-Trimethylbenzene	ug/L	ND	1.0	05/01/17 19:50	
1,3-Dichlorobenzene	ug/L	ND	1.0	05/01/17 19:50	
1,3-Dichloropropane	ug/L	ND	1.0	05/01/17 19:50	
1,4-Dichlorobenzene	ug/L	ND	1.0	05/01/17 19:50	
2,2-Dichloropropane	ug/L	ND	4.0	05/01/17 19:50	
2-Butanone (MEK)	ug/L	ND	5.0	05/01/17 19:50	
2-Chlorotoluene	ug/L	ND	1.0	05/01/17 19:50	
4-Chlorotoluene	ug/L	ND	1.0	05/01/17 19:50	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	5.0	05/01/17 19:50	
Acetone	ug/L	ND	20.0	05/01/17 19:50	
Allyl chloride	ug/L	ND	4.0	05/01/17 19:50	
Benzene	ug/L	ND	1.0	05/01/17 19:50	
Bromobenzene	ug/L	ND	1.0	05/01/17 19:50	
Bromochloromethane	ug/L	ND	1.0	05/01/17 19:50	
Bromodichloromethane	ug/L	ND	1.0	05/01/17 19:50	
Bromoform	ug/L	ND	4.0	05/01/17 19:50	
Bromomethane	ug/L	ND	4.0	05/01/17 19:50	
Carbon tetrachloride	ug/L	ND	1.0	05/01/17 19:50	
Chlorobenzene	ug/L	ND	1.0	05/01/17 19:50	
Chloroethane	ug/L	ND	1.0	05/01/17 19:50	
Chloroform	ug/L	ND	1.0	05/01/17 19:50	
Chloromethane	ug/L	ND	4.0	05/01/17 19:50	
cis-1,2-Dichloroethene	ug/L	ND	1.0	05/01/17 19:50	
cis-1,3-Dichloropropene	ug/L	ND	4.0	05/01/17 19:50	

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QUALITY CONTROL DATA

Project: B1701934.00 Eau Claire Press

Pace Project No.: 10386820

METHOD BLANK: 2577133

Matrix: Water

Associated Lab Samples: 10386820001, 10386820004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Dibromochloromethane	ug/L	ND	1.0	05/01/17 19:50	
Dibromomethane	ug/L	ND	4.0	05/01/17 19:50	
Dichlorodifluoromethane	ug/L	ND	1.0	05/01/17 19:50	
Dichlorofluoromethane	ug/L	ND	1.0	05/01/17 19:50	
Diethyl ether (Ethyl ether)	ug/L	ND	4.0	05/01/17 19:50	
Ethylbenzene	ug/L	ND	1.0	05/01/17 19:50	
Hexachloro-1,3-butadiene	ug/L	ND	1.0	05/01/17 19:50	
Isopropylbenzene (Cumene)	ug/L	ND	1.0	05/01/17 19:50	
Methyl-tert-butyl ether	ug/L	ND	1.0	05/01/17 19:50	
Methylene Chloride	ug/L	ND	4.0	05/01/17 19:50	
n-Butylbenzene	ug/L	ND	1.0	05/01/17 19:50	
n-Propylbenzene	ug/L	ND	1.0	05/01/17 19:50	
Naphthalene	ug/L	ND	4.0	05/01/17 19:50	
p-Isopropyltoluene	ug/L	ND	1.0	05/01/17 19:50	
sec-Butylbenzene	ug/L	ND	1.0	05/01/17 19:50	
Styrene	ug/L	ND	1.0	05/01/17 19:50	
tert-Butylbenzene	ug/L	ND	1.0	05/01/17 19:50	
Tetrachloroethene	ug/L	ND	1.0	05/01/17 19:50	
Tetrahydrofuran	ug/L	ND	10.0	05/01/17 19:50	
Toluene	ug/L	ND	1.0	05/01/17 19:50	
trans-1,2-Dichloroethene	ug/L	ND	1.0	05/01/17 19:50	
trans-1,3-Dichloropropene	ug/L	ND	4.0	05/01/17 19:50	
Trichloroethene	ug/L	ND	0.40	05/01/17 19:50	
Trichlorofluoromethane	ug/L	ND	1.0	05/01/17 19:50	
Vinyl chloride	ug/L	ND	0.20	05/02/17 13:37	
Xylene (Total)	ug/L	ND	3.0	05/01/17 19:50	
1,2-Dichloroethane-d4 (S)	%	97	75-137	05/02/17 13:37	
4-Bromofluorobenzene (S)	%	98	75-125	05/02/17 13:37	
Toluene-d8 (S)	%	95	75-125	05/02/17 13:37	

LABORATORY CONTROL SAMPLE: 2577134

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	20	21.5	108	75-125	
1,1,1-Trichloroethane	ug/L	20	20.3	102	69-125	
1,1,2,2-Tetrachloroethane	ug/L	20	20.1	101	70-125	
1,1,2-Trichloroethane	ug/L	20	19.8	99	75-125	
1,1,2-Trichlorotrifluoroethane	ug/L	20	19.3	96	70-133	
1,1-Dichloroethane	ug/L	20	19.3	96	62-130	
1,1-Dichloroethene	ug/L	20	17.4	87	64-134	
1,1-Dichloropropene	ug/L	20	20.0	100	65-129	
1,2,3-Trichlorobenzene	ug/L	20	20.0	100	75-125	
1,2,3-Trichloropropane	ug/L	20	20.3	102	70-125	
1,2,4-Trichlorobenzene	ug/L	20	21.5	107	75-125	

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QUALITY CONTROL DATA

Project: B1701934.00 Eau Claire Press

Pace Project No.: 10386820

LABORATORY CONTROL SAMPLE: 2577134

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2,4-Trimethylbenzene	ug/L	20	19.3	96	69-135	
1,2-Dibromo-3-chloropropane	ug/L	50	47.8	96	73-130	
1,2-Dibromoethane (EDB)	ug/L	20	20.2	101	75-125	
1,2-Dichlorobenzene	ug/L	20	19.7	98	75-125	
1,2-Dichloroethane	ug/L	20	18.1	91	64-126	
1,2-Dichloropropane	ug/L	20	19.5	97	73-125	
1,3,5-Trimethylbenzene	ug/L	20	19.5	97	71-129	
1,3-Dichlorobenzene	ug/L	20	19.4	97	75-125	
1,3-Dichloropropane	ug/L	20	21.5	107	74-125	
1,4-Dichlorobenzene	ug/L	20	18.9	94	75-125	
2,2-Dichloropropane	ug/L	20	18.3	92	59-135	
2-Butanone (MEK)	ug/L	100	103	103	57-142	
2-Chlorotoluene	ug/L	20	18.6	93	73-125	
4-Chlorotoluene	ug/L	20	18.8	94	74-128	
4-Methyl-2-pentanone (MIBK)	ug/L	100	92.0	92	56-142	
Acetone	ug/L	100	94.9	95	75-133	
Allyl chloride	ug/L	20	18.8	94	62-139	
Benzene	ug/L	20	18.3	92	74-125	
Bromobenzene	ug/L	20	20.2	101	75-125	
Bromochloromethane	ug/L	20	20.1	100	75-125	
Bromodichloromethane	ug/L	20	19.9	100	72-125	
Bromoform	ug/L	20	20.1	100	74-125	
Bromomethane	ug/L	20	25.4	127	30-150	CH
Carbon tetrachloride	ug/L	20	19.3	97	67-130	
Chlorobenzene	ug/L	20	20.1	100	75-125	
Chloroethane	ug/L	20	20.6	103	63-137	
Chloroform	ug/L	20	18.1	90	68-128	
Chloromethane	ug/L	20	21.4	107	46-145	
cis-1,2-Dichloroethene	ug/L	20	19.0	95	75-125	
cis-1,3-Dichloropropene	ug/L	20	20.7	103	73-125	
Dibromochloromethane	ug/L	20	20.1	100	75-125	
Dibromomethane	ug/L	20	20.0	100	73-125	
Dichlorodifluoromethane	ug/L	20	22.5	113	36-150	
Dichlorofluoromethane	ug/L	20	20.0	100	75-125	
Diethyl ether (Ethyl ether)	ug/L	20	19.8	99	62-136	
Ethylbenzene	ug/L	20	19.0	95	73-125	
Hexachloro-1,3-butadiene	ug/L	20	19.6	98	69-141	
Isopropylbenzene (Cumene)	ug/L	20	20.6	103	75-126	
Methyl-tert-butyl ether	ug/L	20	18.8	94	70-130	
Methylene Chloride	ug/L	20	18.7	93	74-125	
n-Butylbenzene	ug/L	20	19.5	98	69-133	
n-Propylbenzene	ug/L	20	20.0	100	75-125	
Naphthalene	ug/L	20	19.8	99	66-129	
p-Isopropyltoluene	ug/L	20	21.1	106	73-127	
sec-Butylbenzene	ug/L	20	20.2	101	75-131	
Styrene	ug/L	20	20.2	101	75-128	
tert-Butylbenzene	ug/L	20	20.5	103	75-127	

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QUALITY CONTROL DATA

Project: B1701934.00 Eau Claire Press

Pace Project No.: 10386820

LABORATORY CONTROL SAMPLE: 2577134

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Tetrachloroethane	ug/L	20	20.1	101	71-127	
Tetrahydrofuran	ug/L	200	187	93	75-132	
Toluene	ug/L	20	18.9	94	75-125	
trans-1,2-Dichloroethene	ug/L	20	18.3	92	69-127	
trans-1,3-Dichloropropene	ug/L	20	20.0	100	70-128	
Trichloroethene	ug/L	20	20.1	101	70-125	
Trichlorofluoromethane	ug/L	20	21.4	107	71-125	
Vinyl chloride	ug/L	20	22.1	110	69-133	
Xylene (Total)	ug/L	60	62.0	103	75-125	
1,2-Dichloroethane-d4 (S)	%			92	75-137	
4-Bromofluorobenzene (S)	%			98	75-125	
Toluene-d8 (S)	%			94	75-125	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2577135 2577136

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		10386820001 Result	Spike Conc.	Spike Conc.	MS Result						
1,1,1,2-Tetrachloroethane	ug/L	ND	20	20	22.4	27.0	112	135	75-138	19	30
1,1,1-Trichloroethane	ug/L	ND	20	20	22.2	25.0	111	125	75-145	12	30
1,1,2,2-Tetrachloroethane	ug/L	ND	20	20	20.6	25.3	103	126	73-150	21	30
1,1,2-Trichloroethane	ug/L	ND	20	20	21.2	26.0	106	130	75-140	20	30
1,1,2-Trichlorotrifluoroethane	ug/L	ND	20	20	22.8	24.5	114	123	74-150	7	30
1,1-Dichloroethane	ug/L	ND	20	20	20.7	24.6	104	123	75-140	17	30
1,1-Dichloroethene	ug/L	ND	20	20	20.7	21.8	103	109	73-150	5	30
1,1-Dichloropropene	ug/L	ND	20	20	20.1	23.0	100	115	75-150	14	30
1,2,3-Trichlorobenzene	ug/L	ND	20	20	21.0	22.1	105	110	57-147	5	30
1,2,3-Trichloropropane	ug/L	ND	20	20	20.0	25.0	100	125	75-147	22	30
1,2,4-Trichlorobenzene	ug/L	ND	20	20	21.5	22.4	107	112	59-142	4	30
1,2,4-Trimethylbenzene	ug/L	ND	20	20	20.2	22.2	101	111	73-141	9	30
1,2-Dibromo-3-chloropropane	ug/L	ND	50	50	52.0	64.3	104	129	65-136	21	30
1,2-Dibromoethane (EDB)	ug/L	ND	20	20	21.0	26.5	105	133	75-131	23	30 M1
1,2-Dichlorobenzene	ug/L	ND	20	20	20.9	23.6	104	118	75-141	12	30
1,2-Dichloroethane	ug/L	ND	20	20	18.4	22.3	91	111	75-125	19	30
1,2-Dichloropropane	ug/L	ND	20	20	20.1	23.1	101	116	71-147	14	30
1,3,5-Trimethylbenzene	ug/L	ND	20	20	20.6	22.4	103	112	75-139	8	30
1,3-Dichlorobenzene	ug/L	ND	20	20	20.5	22.7	102	113	75-142	10	30
1,3-Dichloropropane	ug/L	ND	20	20	20.7	25.2	104	126	75-141	19	30
1,4-Dichlorobenzene	ug/L	ND	20	20	20.1	21.9	100	110	75-139	9	30
2,2-Dichloropropane	ug/L	ND	20	20	21.2	24.6	106	123	60-150	15	30
2-Butanone (MEK)	ug/L	ND	100	100	89.5	105	90	105	68-133	15	30
2-Chlorotoluene	ug/L	ND	20	20	20.2	22.5	101	113	75-146	11	30
4-Chlorotoluene	ug/L	ND	20	20	20.3	22.3	102	111	75-149	9	30
4-Methyl-2-pentanone (MIBK)	ug/L	ND	100	100	94.0	118	94	118	67-150	23	30
Acetone	ug/L	ND	100	100	89.5	111	83	105	56-150	21	30

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QUALITY CONTROL DATA

Project: B1701934.00 Eau Claire Press

Pace Project No.: 10386820

MATRIX SPIKE & MATRIX SPIKE DUPLICATE:		2577135		2577136									
Parameter	Units	10386820001	MS	MSD	MS	MSD	MS	MSD	% Rec	Max	RPD	RPD	Qual
		Result	Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec	Limits				
Allyl chloride	ug/L	ND	20	20	20.3	23.9	101	119	66-134	16	30		
Benzene	ug/L	ND	20	20	19.8	23.5	99	118	74-134	17	30		
Bromobenzene	ug/L	ND	20	20	21.0	24.4	105	122	75-138	15	30		
Bromochloromethane	ug/L	ND	20	20	20.4	24.9	102	125	75-145	20	30		
Bromodichloromethane	ug/L	ND	20	20	20.9	24.5	104	123	75-143	16	30		
Bromoform	ug/L	ND	20	20	19.7	24.2	99	121	67-125	20	30		
Bromomethane	ug/L	ND	20	20	24.7	27.1	123	136	30-150	9	30	CH	
Carbon tetrachloride	ug/L	ND	20	20	21.8	25.1	109	126	75-150	14	30		
Chlorobenzene	ug/L	ND	20	20	21.6	25.7	108	129	75-133	18	30		
Chloroethane	ug/L	ND	20	20	18.7	22.7	93	114	53-150	20	30		
Chloroform	ug/L	ND	20	20	20.1	24.7	100	123	75-134	20	30		
Chloromethane	ug/L	ND	20	20	21.6	25.1	108	126	41-150	15	30		
cis-1,2-Dichloroethene	ug/L	ND	20	20	20.2	24.3	101	122	73-140	19	30		
cis-1,3-Dichloropropene	ug/L	ND	20	20	20.9	24.6	104	123	72-140	16	30		
Dibromochloromethane	ug/L	ND	20	20	21.3	26.3	107	131	74-130	21	30	M1	
Dibromomethane	ug/L	ND	20	20	20.5	25.1	103	125	70-141	20	30		
Dichlorodifluoromethane	ug/L	ND	20	20	21.5	27.4	108	137	50-150	24	30		
Dichlorofluoromethane	ug/L	ND	20	20	19.3	23.0	96	115	62-150	18	30		
Diethyl ether (Ethyl ether)	ug/L	ND	20	20	19.6	23.3	98	117	71-141	17	30		
Ethylbenzene	ug/L	ND	20	20	19.5	22.0	97	110	75-136	12	30		
Hexachloro-1,3-butadiene	ug/L	ND	20	20	21.5	21.8	108	109	47-150	1	30		
Isopropylbenzene (Cumene)	ug/L	ND	20	20	21.5	23.9	107	119	75-138	11	30		
Methyl-tert-butyl ether	ug/L	ND	20	20	19.2	23.2	96	116	75-128	19	30		
Methylene Chloride	ug/L	ND	20	20	19.1	22.1	96	111	69-150	15	30		
n-Butylbenzene	ug/L	ND	20	20	21.2	21.3	106	106	68-150	1	30		
n-Propylbenzene	ug/L	ND	20	20	21.1	22.4	106	112	74-150	6	30		
Naphthalene	ug/L	ND	20	20	20.1	22.9	100	114	61-138	13	30		
p-Isopropyltoluene	ug/L	ND	20	20	21.6	22.2	108	111	70-142	3	30		
sec-Butylbenzene	ug/L	ND	20	20	21.7	23.0	108	115	74-150	6	30		
Styrene	ug/L	ND	20	20	21.7	25.1	108	126	70-140	15	30		
tert-Butylbenzene	ug/L	ND	20	20	21.9	24.2	110	121	73-140	10	30		
Tetrachloroethene	ug/L	ND	20	20	22.6	23.7	113	118	72-141	5	30		
Tetrahydrofuran	ug/L	ND	200	200	187	231	93	115	53-150	21	30		
Toluene	ug/L	ND	20	20	19.1	23.3	95	116	71-138	20	30		
trans-1,2-Dichloroethene	ug/L	ND	20	20	20.0	23.4	100	117	74-149	16	30		
trans-1,3-Dichloropropene	ug/L	ND	20	20	19.7	24.9	99	124	74-138	23	30		
Trichloroethene	ug/L	ND	20	20	22.0	23.7	110	119	70-150	8	30		
Trichlorofluoromethane	ug/L	ND	20	20	20.3	25.4	101	127	57-150	22	30		
Vinyl chloride	ug/L	ND	20	20	19.7	21.6	98	108	59-150	10	30		
Xylene (Total)	ug/L	ND	60	60	64.3	72.4	107	121	75-131	12	30		
1,2-Dichloroethane-d4 (S)	%						91	92	75-137				
4-Bromofluorobenzene (S)	%						98	96	75-125				
Toluene-d8 (S)	%						99	97	75-125				

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QUALITY CONTROL DATA

Project: B1701934.00 Eau Claire Press

Pace Project No.: 10386820

QC Batch: 254751	Analysis Method: EPA 1010
QC Batch Method: EPA 1010	Analysis Description: 1010 Flash Point, Closed Cup
Associated Lab Samples: 10386820003	

LABORATORY CONTROL SAMPLE: 1502042

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Flashpoint	deg F		81.6			

LABORATORY CONTROL SAMPLE: 1502043

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Flashpoint	deg F		80.3			

SAMPLE DUPLICATE: 1502394

Parameter	Units	10387019001 Result	Dup Result	RPD	Max RPD	Qualifiers
Flashpoint	deg F	135	133			

SAMPLE DUPLICATE: 1502395

Parameter	Units	10386494001 Result	Dup Result	RPD	Max RPD	Qualifiers
Flashpoint	deg F	>210	>210			

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QUALITY CONTROL DATA

Project: B1701934.00 Eau Claire Press

Pace Project No.: 10386820

QC Batch: 471857 Analysis Method: SM 4500-H+B

QC Batch Method: SM 4500-H+B Analysis Description: 4500H+B pH

Associated Lab Samples: 10386820003

LABORATORY CONTROL SAMPLE: 2575072

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
pH at 25 Degrees C	Std. Units	5	5.0	100	98-102	H6

SAMPLE DUPLICATE: 2575073

Parameter	Units	10385683001 Result	Dup Result	RPD	Max RPD	Qualifiers
pH at 25 Degrees C	Std. Units	6.6	6.7	1	3	H6

SAMPLE DUPLICATE: 2575074

Parameter	Units	10385840003 Result	Dup Result	RPD	Max RPD	Qualifiers
pH at 25 Degrees C	Std. Units	7.2	7.2	0	3	H6

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QUALIFIERS

Project: B1701934.00 Eau Claire Press

Pace Project No.: 10386820

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.

LABORATORIES

PASI-G Pace Analytical Services - Green Bay

PASI-M Pace Analytical Services - Minneapolis

ANALYTE QUALIFIERS

B Analyte was detected in the associated method blank.

CH The continuing calibration for this compound is outside of Pace Analytical acceptance limits. The results may be biased high.

H6 Analysis initiated outside of the 15 minute EPA required holding time.

L1 Analyte recovery in the laboratory control sample (LCS) was above QC limits. Results may be biased high.

L3 Analyte recovery in the laboratory control sample (LCS) exceeded QC limits. Analyte presence below reporting limits in associated samples.

M1 Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

MN The reporting limit has been raised in accordance with Minnesota Statutes 4740.2100 Subpart 8. C, D. Reporting Limit Evaluation Rule.

MS Analyte recovery in the matrix spike was outside QC limits for one or more of the constituent analytes used in the calculated result.

P2 Re-extraction or re-analysis could not be performed due to insufficient sample amount.

R1 RPD value was outside control limits.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: B1701934.00 Eau Claire Press

Pace Project No.: 10386820

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
10386820001	MW-29A	EPA 8260B	472335		
10386820002	MW-29B	EPA 8260B	471500		
10386820003	CFD1	EPA 8260B	471500		
10386820004	Trip Blank	EPA 8260B	472335		
10386820003	CFD1	EPA 1010	254751		
10386820003	CFD1	SM 4500-H+B	471857		

REPORT OF LABORATORY ANALYSIS

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Due: May 5

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

10386870

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:		Page: 1 of 1	
Company: <u>Braun Intertec</u>		Report To: <u>Beth Johnson</u>		Attention:		2107687	
Address:		Copy To:		Company Name:			
Email To:		Purchase Order No.:		Address: <u>same</u>		REGULATORY AGENCY	
Phone:		Project Name: <u>Eau Claire Press</u>		Pace Quote Reference:		<input type="checkbox"/> NPDES <input checked="" type="checkbox"/> GROUND WATER <input type="checkbox"/> DRINKING WATER <input type="checkbox"/> UST <input type="checkbox"/> RCRA <input type="checkbox"/> OTHER _____	
Requested Due Date/TAT: <u>5-day</u>		Project Number: <u>B1701934.00</u>		Pace Project Manager:		Site Location: <u>(WI)</u>	
Fax:				Pace Profile #:		STATE: <u>WI</u>	

ITEM #	SAMPLE ID (A-Z, 0-9 / -)	Matrix Codes MATRIX / CODE	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED				SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives						Analysis Test ↓	Requested Analysis Filtered (Y/N)	Residual Chlorine (Y/N)	Pace Project No. / Lab I.D.		
					COMPOSITE START		COMPOSITE END/GRAB				Unpreserved	H ₂ SO ₄	HNO ₃	HCl	NaOH	Na ₂ S ₂ O ₃					Methanol	Other
					DATE	TIME	DATE	TIME														
1	MW-29A	DW	WT	G			4/27/17	1110	6											001		
2	MW-29B	WT	↓				↓	1215	6											002		
3	CFD1	WW	↓				↓	1245	6	2	1	3								003		
4	Trip Blank - w2								2			X								004		
5																						
6																						
7																						
8																						
9																						
10																						
11																						
12																						

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
	THM / Braun	4-28-17	8:55	[Signature]	4/28/17	8:55	1.2	Y	Y	Y
	[Signature] / Pac	4-28-17	11:15	[Signature]	4/28/17	11:15	0.5	Y	Y	Y


ORIGINAL	SAMPLER NAME AND SIGNATURE		Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
	PRINT Name of SAMPLER:					
	SIGNATURE of SAMPLER: <u>[Signature]</u>					
		DATE Signed (MM/DD/YY): <u>(04/27/17)</u>				

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

Sample Condition Upon Receipt

Client Name: Braun Intertec

Project #: **WO# : 10386820**



10386820

Courier: Fed Ex UPS USPS Client
 Commercial Pace Speedee Other: _____
 Tracking Number: _____

Custody Seal on Cooler/Box Present? Yes No Seals Intact? Yes No **Optional:** Proj. Due Date: _____ Proj. Name: _____

Packing Material: Bubble Wrap Bubble Bags None Other: _____ Temp Blank? Yes No

Thermometer Used: 151401163 151401164 Type of Ice: Wet Blue None Samples on ice, cooling process has begun

Cooler Temp Read (°C): 0.3 Cooler Temp Corrected (°C): 0.5 Biological Tissue Frozen? Yes No N/A
 Temp should be above freezing to 6°C Correction Factor: +0.2 Date and Initials of Person Examining Contents: MAE 4/29/17

USDA Regulated Soil (N/A, water sample)
 Did samples originate in a quarantine zone within the United States: AL, AR, CA, FL, GA, ID, LA, MS, NC, NM, NY, OK, OR, SC, TN, TX or VA (check maps)? Yes No Did samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)? Yes No

If Yes to either question, fill out a Regulated Soil Checklist (F-MN-Q-338) and include with SCUR/COC paperwork.

		COMMENTS:
Chain of Custody Present?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	1.
Chain of Custody Filled Out?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	2.
Chain of Custody Relinquished?	<input type="checkbox"/> Yes <input type="checkbox"/> No	3.
Sampler Name and/or Signature on COC?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	4.
Samples Arrived within Hold Time?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	5.
Short Hold Time Analysis (<72 hr)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	6.
Rush Turn Around Time Requested?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	7.
Sufficient Volume?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	8.
Correct Containers Used?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	9.
-Pace Containers Used?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Containers Intact?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	10.
Filtered Volume Received for Dissolved Tests?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	11. Note if sediment is visible in the dissolved container
Sample Labels Match COC?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	12.
-Includes Date/Time/ID/Analysis Matrix: <u>wt</u>		
All containers needing acid/base preservation have been checked?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	13. <u>1/1</u> <input checked="" type="checkbox"/> HNO ₃ <input type="checkbox"/> H ₂ SO ₄ <input type="checkbox"/> NaOH Positive for Res. Chlorine? Y N Sample # <u>3</u> Initial when completed: _____ Lot # of added preservative: _____
All containers needing preservation are found to be in compliance with EPA recommendation? (HNO ₃ , H ₂ SO ₄ , 2pH, NaOH >9 Sulfide, NaOH >12 Cyanide) Exceptions: VOA, Coliform, TOC/DOC Oil and Grease, DRO/8015 (water) and Dioxin.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Headspace in VOA Vials (>6mm)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	
Trip Blank Present?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	15.
Trip Blank Custody Seals Present?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Pace Trip Blank Lot # (if purchased): <u>032217 - 364R</u>		

CLIENT NOTIFICATION/RESOLUTION

Field Data Required? Yes No

Person Contacted: _____ Date/Time: _____
 Comments/Resolution: MS/MSD on sample MW-29A per Beth Johnson.

Project Manager Review: 05/01/17

Date: _____

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e. out of hold, incorrect preservative, out of temp, incorrect containers).

Chain of Custody

4049187

[Handwritten Signature]



Workorder: 10386820 Workorder Name: B1701934.00 EAU CLAIRE PRESS Owner Received Date: 4/28/2017 Results Requested By: 5/5/2017

Report To		Subcontract To				Requested Analysis																			
Dan Nguyen Pace Analytical Minnesota 1700 Elm Street Suite 200 Minneapolis, MN 55414 Phone 612-360-0728		Pace Analytical Green Bay 1241 Bellevue Street Suite 9 Green Bay, WI 54302 Phone (920)469-2436																							
						Preserved Containers						Flashpoint						LAB USE ONLY							
Item	Sample ID	Sample Type	Collect Date/Time	Lab ID	Matrix	Unpreserved																			
1	CFD1	PS	4/27/2017 12:45	10386820003	Water	1																			
2																									
3																									
4																									
5																									
												Comments													
Transfers	Released By	Date/Time	Received By	Date/Time																					
1	<i>[Signature]</i>	5/1/17 15:05																							
2	<i>[Signature]</i>	5/2/17 09:55	<i>[Signature]</i>	5/2/17 09:55																					
3																									
Cooler Temperature on Receipt		35 °C	Custody Seal		(Y) or N	Received on Ice		(Y) or N	Samples Intact								(Y) or N								

***In order to maintain client confidentiality, location/name of the sampling site, sampler's name and signature may not be provided on this COC document.
 This chain of custody is considered complete as is since this information is available in the owner laboratory.

Sample Condition Upon Receipt

Pace Analytical Services, Inc.
1241 Bellevue Street, Suite 9
Green Bay, WI 54302



Client Name: Pace MN

Project # **WO#: 40149187**

Courier: Fed Ex UPS Client Pace Other: Walter
Tracking #: 1351389-1



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 SR-53 Type of Ice: Wet Blue Dry None Samples on ice, cooling process has begun

Cooler Temperature Uncorr: 3.5 / Corr: 3.9 Biological Tissue is Frozen: yes no

Temp Blank Present: yes no

Person examining contents:
Date: 5/2/17
Initials: SSA

Temp should be above freezing to 6°C for all sample except Biota.
Frozen Biota Samples should be received ≤ 0°C.

Comments:

Chain of Custody Present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1.
Chain of Custody Filled Out:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	2.
Chain of Custody Relinquished:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	3.
Sampler Name & Signature on COC:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	4.
Samples Arrived within Hold Time:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	5.
- VOA Samples frozen upon receipt	<input type="checkbox"/> Yes <input type="checkbox"/> No	Date/Time:
Short Hold Time Analysis (<72hr):	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	6.
Rush Turn Around Time Requested:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	7. <u>5/5/17 TAT requested SSA 5/2/17</u>
Sufficient Volume:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	8.
Correct Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	9.
-Pace Containers Used:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
-Pace IR Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Containers Intact:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	10.
Filtered volume received for Dissolved tests	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	11.
Sample Labels match COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	12.
-Includes date/time/ID/Analysis Matrix: <u>W</u>		
All containers needing preservation have been checked. (Non-Compliance noted in 13.)	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	13. <input type="checkbox"/> HNO3 <input type="checkbox"/> H2SO4 <input type="checkbox"/> NaOH <input type="checkbox"/> NaOH + ZnAct
All containers needing preservation are found to be in compliance with EPA recommendation. (HNO3, H2SO4 ≤2; NaOH+ZnAct ≥9, NaOH ≥12)	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
exceptions: VOA, coliform, TOC, TOX, TOH, O&G, WIDROW, Phenolics, OTHER:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Initial when completed
		Lab Std #ID of preservative
		Date/Time:
Headspace in VOA Vials (>6mm):	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	14.
Trip Blank Present:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	15.
Trip Blank Custody Seals Present	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> 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: [Signature]

Date: 5/2/17

June 19, 2017

Project #34283.000
NPI Q2 GW
Reviewed by CCW
6/19/17

Clifford Wright
Gannett Fleming
8025 Excelsior Drive
Madison, WI 53717

RE: Project: 34283.000 NPI
Pace Project No.: 40151504

Dear Clifford Wright:

Enclosed are the analytical results for sample(s) received by the laboratory on June 13, 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

cc: Mary C. Wehbe, MCW Scientific Solutions



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: 34283.000 NPI

Pace Project No.: 40151504

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

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SAMPLE SUMMARY

Project: 34283.000 NPI
Pace Project No.: 40151504

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40151504001	EW1R-76'	Water	06/12/17 12:40	06/13/17 09:30
40151504002	EW1R-86'	Water	06/12/17 12:42	06/13/17 09:30
40151504003	EW1R-96'	Water	06/12/17 12:44	06/13/17 09:30
40151504004	EW-2-81'	Water	06/12/17 13:15	06/13/17 09:30
40151504005	EW-2-91'	Water	06/12/17 13:18	06/13/17 09:30
40151504006	MW-5A	Water	06/12/17 13:08	06/13/17 09:30
40151504007	MW-5B	Water	06/12/17 13:05	06/13/17 09:30
40151504008	MW-6	Water	06/12/17 11:50	06/13/17 09:30
40151504009	MW-62AR	Water	06/12/17 12:30	06/13/17 09:30
40151504012	MW-62B	Water	06/12/17 12:32	06/13/17 09:30
40151504013	MW-62C	Water	06/12/17 12:28	06/13/17 09:30
40151504014	MW-63A	Water	06/12/17 13:28	06/13/17 09:30
40151504015	MW-63B	Water	06/12/17 13:25	06/13/17 09:30
40151504016	MW-66A	Water	06/12/17 12:00	06/13/17 09:30
40151504017	MW-66B	Water	06/12/17 11:55	06/13/17 09:30
40151504018	MW-66C	Water	06/12/17 11:58	06/13/17 09:30
40151504019	MW-34A	Water	06/12/17 15:10	06/13/17 09:30
40151504020	MW-34B	Water	06/12/17 15:05	06/13/17 09:30
40151504021	MW-34C	Water	06/12/17 15:15	06/13/17 09:30
40151504022	MW-68A	Water	06/12/17 15:55	06/13/17 09:30
40151504023	MW-68B	Water	06/12/17 16:00	06/13/17 09:30
40151504024	MW-70A	Water	06/12/17 14:45	06/13/17 09:30
40151504025	MW-70B	Water	06/12/17 14:50	06/13/17 09:30
40151504026	MW-74A	Water	06/12/17 15:45	06/13/17 09:30
40151504027	MW-74B	Water	06/12/17 15:40	06/13/17 09:30
40151504028	MW-74B DUP	Water	06/12/17 15:40	06/13/17 09:30
40151504029	TRIP BLANK	Water	06/12/17 00:00	06/13/17 09:30

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: 34283.000 NPI
Pace Project No.: 40151504

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
40151504001	EW1R-76'	EPA 8260	HNW	8	PASI-G
40151504002	EW1R-86'	EPA 8260	MDS	8	PASI-G
40151504003	EW1R-96'	EPA 8260	LAP	8	PASI-G
40151504004	EW-2-81'	EPA 8260	LAP	8	PASI-G
40151504005	EW-2-91'	EPA 8260	LAP	8	PASI-G
40151504006	MW-5A	EPA 8260	LAP	8	PASI-G
40151504007	MW-5B	EPA 8260	LAP	8	PASI-G
40151504008	MW-6	EPA 8260	LAP	8	PASI-G
40151504009	MW-62AR	EPA 8260	LAP	8	PASI-G
40151504012	MW-62B	EPA 8260	LAP	8	PASI-G
40151504013	MW-62C	EPA 8260	LAP	8	PASI-G
40151504014	MW-63A	EPA 8260	LAP	8	PASI-G
40151504015	MW-63B	EPA 8260	LAP	8	PASI-G
40151504016	MW-66A	EPA 8260	LAP	8	PASI-G
40151504017	MW-66B	EPA 8260	LAP	8	PASI-G
40151504018	MW-66C	EPA 8260	LAP	8	PASI-G
40151504019	MW-34A	EPA 8260	LAP	8	PASI-G
40151504020	MW-34B	EPA 8260	LAP	8	PASI-G
40151504021	MW-34C	EPA 8260	LAP	8	PASI-G
40151504022	MW-68A	EPA 8260	LAP	8	PASI-G
40151504023	MW-68B	EPA 8260	LAP	8	PASI-G
40151504024	MW-70A	EPA 8260	LAP	8	PASI-G
40151504025	MW-70B	EPA 8260	HNW	8	PASI-G
40151504026	MW-74A	EPA 8260	HNW	8	PASI-G
40151504027	MW-74B	EPA 8260	HNW	8	PASI-G
40151504028	MW-74B DUP	EPA 8260	HNW	8	PASI-G
40151504029	TRIP BLANK	EPA 8260	HNW	8	PASI-G

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: 34283.000 NPI

Pace Project No.: 40151504

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
40151504024	MW-70A					
EPA 8260	1,1-Dichloroethane	0.73J	ug/L	1.0	06/15/17 01:40	
EPA 8260	Trichloroethene	0.68J	ug/L	1.0	06/15/17 01:40	

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: 34283.000 NPI
Pace Project No.: 40151504

Method: EPA 8260
Description: 8260 MSV
Client: Gannett Fleming Inc.
Date: June 19, 2017

General Information:

27 samples were analyzed for EPA 8260. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

Internal Standards:

All internal standards were within QC limits with any exceptions noted below.

Surrogates:

All surrogates were within QC limits with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: 258425

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 40151367004

R1: RPD value was outside control limits.

- MSD (Lab ID: 1523040)
- 1,1-Dichloroethane

Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 34283.000 NPI

Pace Project No.: 40151504

Sample: EW1R-76' **Lab ID: 40151504001** Collected: 06/12/17 12:40 Received: 06/13/17 09:30 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260							
1,1,1-Trichloroethane	<0.50	ug/L	1.0	0.50	1		06/15/17 08:12	71-55-6	
1,1-Dichloroethane	<0.24	ug/L	1.0	0.24	1		06/15/17 08:12	75-34-3	
1,1-Dichloroethene	<0.41	ug/L	1.0	0.41	1		06/15/17 08:12	75-35-4	
Tetrachloroethene	<0.50	ug/L	1.0	0.50	1		06/15/17 08:12	127-18-4	
Trichloroethene	<0.33	ug/L	1.0	0.33	1		06/15/17 08:12	79-01-6	
Surrogates									
4-Bromofluorobenzene (S)	100	%	61-130		1		06/15/17 08:12	460-00-4	
Dibromofluoromethane (S)	105	%	67-130		1		06/15/17 08:12	1868-53-7	
Toluene-d8 (S)	94	%	70-130		1		06/15/17 08:12	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 34283.000 NPI

Pace Project No.: 40151504

Sample: EW1R-86' **Lab ID: 40151504002** Collected: 06/12/17 12:42 Received: 06/13/17 09:30 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260							
1,1,1-Trichloroethane	<0.50	ug/L	1.0	0.50	1		06/14/17 13:06	71-55-6	
1,1-Dichloroethane	<0.24	ug/L	1.0	0.24	1		06/14/17 13:06	75-34-3	
1,1-Dichloroethene	<0.41	ug/L	1.0	0.41	1		06/14/17 13:06	75-35-4	
Tetrachloroethene	<0.50	ug/L	1.0	0.50	1		06/14/17 13:06	127-18-4	
Trichloroethene	<0.33	ug/L	1.0	0.33	1		06/14/17 13:06	79-01-6	
Surrogates									
4-Bromofluorobenzene (S)	91	%	61-130		1		06/14/17 13:06	460-00-4	
Dibromofluoromethane (S)	106	%	67-130		1		06/14/17 13:06	1868-53-7	
Toluene-d8 (S)	99	%	70-130		1		06/14/17 13:06	2037-26-5	

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ANALYTICAL RESULTS

Project: 34283.000 NPI

Pace Project No.: 40151504

Sample: EW1R-96' **Lab ID: 40151504003** Collected: 06/12/17 12:44 Received: 06/13/17 09:30 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260							
1,1,1-Trichloroethane	<0.50	ug/L	1.0	0.50	1		06/15/17 07:28	71-55-6	
1,1-Dichloroethane	<0.24	ug/L	1.0	0.24	1		06/15/17 07:28	75-34-3	
1,1-Dichloroethene	<0.41	ug/L	1.0	0.41	1		06/15/17 07:28	75-35-4	
Tetrachloroethene	<0.50	ug/L	1.0	0.50	1		06/15/17 07:28	127-18-4	
Trichloroethene	<0.33	ug/L	1.0	0.33	1		06/15/17 07:28	79-01-6	
Surrogates									
4-Bromofluorobenzene (S)	123	%	61-130		1		06/15/17 07:28	460-00-4	
Dibromofluoromethane (S)	118	%	67-130		1		06/15/17 07:28	1868-53-7	
Toluene-d8 (S)	93	%	70-130		1		06/15/17 07:28	2037-26-5	

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ANALYTICAL RESULTS

Project: 34283.000 NPI

Pace Project No.: 40151504

Sample: EW-2-81' **Lab ID: 40151504004** Collected: 06/12/17 13:15 Received: 06/13/17 09:30 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260							
1,1,1-Trichloroethane	<0.50	ug/L	1.0	0.50	1		06/14/17 19:15	71-55-6	
1,1-Dichloroethane	<0.24	ug/L	1.0	0.24	1		06/14/17 19:15	75-34-3	
1,1-Dichloroethene	<0.41	ug/L	1.0	0.41	1		06/14/17 19:15	75-35-4	
Tetrachloroethene	<0.50	ug/L	1.0	0.50	1		06/14/17 19:15	127-18-4	
Trichloroethene	<0.33	ug/L	1.0	0.33	1		06/14/17 19:15	79-01-6	
Surrogates									
4-Bromofluorobenzene (S)	109	%	61-130		1		06/14/17 19:15	460-00-4	
Dibromofluoromethane (S)	108	%	67-130		1		06/14/17 19:15	1868-53-7	
Toluene-d8 (S)	99	%	70-130		1		06/14/17 19:15	2037-26-5	

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ANALYTICAL RESULTS

Project: 34283.000 NPI

Pace Project No.: 40151504

Sample: EW-2-91' **Lab ID: 40151504005** Collected: 06/12/17 13:18 Received: 06/13/17 09:30 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260							
1,1,1-Trichloroethane	<0.50	ug/L	1.0	0.50	1		06/14/17 19:38	71-55-6	
1,1-Dichloroethane	<0.24	ug/L	1.0	0.24	1		06/14/17 19:38	75-34-3	
1,1-Dichloroethene	<0.41	ug/L	1.0	0.41	1		06/14/17 19:38	75-35-4	
Tetrachloroethene	<0.50	ug/L	1.0	0.50	1		06/14/17 19:38	127-18-4	
Trichloroethene	<0.33	ug/L	1.0	0.33	1		06/14/17 19:38	79-01-6	
Surrogates									
4-Bromofluorobenzene (S)	103	%	61-130		1		06/14/17 19:38	460-00-4	
Dibromofluoromethane (S)	110	%	67-130		1		06/14/17 19:38	1868-53-7	
Toluene-d8 (S)	100	%	70-130		1		06/14/17 19:38	2037-26-5	

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ANALYTICAL RESULTS

Project: 34283.000 NPI

Pace Project No.: 40151504

Sample: MW-5A **Lab ID: 40151504006** Collected: 06/12/17 13:08 Received: 06/13/17 09:30 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260							
1,1,1-Trichloroethane	<0.50	ug/L	1.0	0.50	1		06/14/17 20:01	71-55-6	
1,1-Dichloroethane	<0.24	ug/L	1.0	0.24	1		06/14/17 20:01	75-34-3	
1,1-Dichloroethene	<0.41	ug/L	1.0	0.41	1		06/14/17 20:01	75-35-4	
Tetrachloroethene	<0.50	ug/L	1.0	0.50	1		06/14/17 20:01	127-18-4	
Trichloroethene	<0.33	ug/L	1.0	0.33	1		06/14/17 20:01	79-01-6	
Surrogates									
4-Bromofluorobenzene (S)	105	%	61-130		1		06/14/17 20:01	460-00-4	
Dibromofluoromethane (S)	109	%	67-130		1		06/14/17 20:01	1868-53-7	
Toluene-d8 (S)	99	%	70-130		1		06/14/17 20:01	2037-26-5	

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ANALYTICAL RESULTS

Project: 34283.000 NPI

Pace Project No.: 40151504

Sample: MW-5B **Lab ID: 40151504007** Collected: 06/12/17 13:05 Received: 06/13/17 09:30 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260							
1,1,1-Trichloroethane	<0.50	ug/L	1.0	0.50	1		06/14/17 20:23	71-55-6	
1,1-Dichloroethane	<0.24	ug/L	1.0	0.24	1		06/14/17 20:23	75-34-3	
1,1-Dichloroethene	<0.41	ug/L	1.0	0.41	1		06/14/17 20:23	75-35-4	
Tetrachloroethene	<0.50	ug/L	1.0	0.50	1		06/14/17 20:23	127-18-4	
Trichloroethene	<0.33	ug/L	1.0	0.33	1		06/14/17 20:23	79-01-6	
Surrogates									
4-Bromofluorobenzene (S)	106	%	61-130		1		06/14/17 20:23	460-00-4	
Dibromofluoromethane (S)	108	%	67-130		1		06/14/17 20:23	1868-53-7	
Toluene-d8 (S)	99	%	70-130		1		06/14/17 20:23	2037-26-5	

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ANALYTICAL RESULTS

Project: 34283.000 NPI

Pace Project No.: 40151504

Sample: MW-6 **Lab ID: 40151504008** Collected: 06/12/17 11:50 Received: 06/13/17 09:30 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260							
1,1,1-Trichloroethane	<0.50	ug/L	1.0	0.50	1		06/14/17 20:46	71-55-6	
1,1-Dichloroethane	<0.24	ug/L	1.0	0.24	1		06/14/17 20:46	75-34-3	
1,1-Dichloroethene	<0.41	ug/L	1.0	0.41	1		06/14/17 20:46	75-35-4	
Tetrachloroethene	<0.50	ug/L	1.0	0.50	1		06/14/17 20:46	127-18-4	
Trichloroethene	<0.33	ug/L	1.0	0.33	1		06/14/17 20:46	79-01-6	
Surrogates									
4-Bromofluorobenzene (S)	105	%	61-130		1		06/14/17 20:46	460-00-4	
Dibromofluoromethane (S)	110	%	67-130		1		06/14/17 20:46	1868-53-7	
Toluene-d8 (S)	99	%	70-130		1		06/14/17 20:46	2037-26-5	

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ANALYTICAL RESULTS

Project: 34283.000 NPI

Pace Project No.: 40151504

Sample: MW-62AR **Lab ID: 40151504009** Collected: 06/12/17 12:30 Received: 06/13/17 09:30 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260							
1,1,1-Trichloroethane	<0.50	ug/L	1.0	0.50	1		06/14/17 18:30	71-55-6	
1,1-Dichloroethane	<0.24	ug/L	1.0	0.24	1		06/14/17 18:30	75-34-3	
1,1-Dichloroethene	<0.41	ug/L	1.0	0.41	1		06/14/17 18:30	75-35-4	
Tetrachloroethene	<0.50	ug/L	1.0	0.50	1		06/14/17 18:30	127-18-4	
Trichloroethene	<0.33	ug/L	1.0	0.33	1		06/14/17 18:30	79-01-6	
Surrogates									
4-Bromofluorobenzene (S)	113	%	61-130		1		06/14/17 18:30	460-00-4	
Dibromofluoromethane (S)	111	%	67-130		1		06/14/17 18:30	1868-53-7	
Toluene-d8 (S)	91	%	70-130		1		06/14/17 18:30	2037-26-5	

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ANALYTICAL RESULTS

Project: 34283.000 NPI

Pace Project No.: 40151504

Sample: MW-62B **Lab ID: 40151504012** Collected: 06/12/17 12:32 Received: 06/13/17 09:30 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260							
1,1,1-Trichloroethane	<0.50	ug/L	1.0	0.50	1		06/14/17 21:08	71-55-6	
1,1-Dichloroethane	<0.24	ug/L	1.0	0.24	1		06/14/17 21:08	75-34-3	
1,1-Dichloroethene	<0.41	ug/L	1.0	0.41	1		06/14/17 21:08	75-35-4	
Tetrachloroethene	<0.50	ug/L	1.0	0.50	1		06/14/17 21:08	127-18-4	
Trichloroethene	<0.33	ug/L	1.0	0.33	1		06/14/17 21:08	79-01-6	
Surrogates									
4-Bromofluorobenzene (S)	102	%	61-130		1		06/14/17 21:08	460-00-4	
Dibromofluoromethane (S)	110	%	67-130		1		06/14/17 21:08	1868-53-7	
Toluene-d8 (S)	98	%	70-130		1		06/14/17 21:08	2037-26-5	

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ANALYTICAL RESULTS

Project: 34283.000 NPI

Pace Project No.: 40151504

Sample: MW-62C **Lab ID: 40151504013** Collected: 06/12/17 12:28 Received: 06/13/17 09:30 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260							
1,1,1-Trichloroethane	<0.50	ug/L	1.0	0.50	1		06/14/17 21:31	71-55-6	
1,1-Dichloroethane	<0.24	ug/L	1.0	0.24	1		06/14/17 21:31	75-34-3	
1,1-Dichloroethene	<0.41	ug/L	1.0	0.41	1		06/14/17 21:31	75-35-4	
Tetrachloroethene	<0.50	ug/L	1.0	0.50	1		06/14/17 21:31	127-18-4	
Trichloroethene	<0.33	ug/L	1.0	0.33	1		06/14/17 21:31	79-01-6	
Surrogates									
4-Bromofluorobenzene (S)	114	%	61-130		1		06/14/17 21:31	460-00-4	
Dibromofluoromethane (S)	113	%	67-130		1		06/14/17 21:31	1868-53-7	
Toluene-d8 (S)	92	%	70-130		1		06/14/17 21:31	2037-26-5	

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ANALYTICAL RESULTS

Project: 34283.000 NPI

Pace Project No.: 40151504

Sample: MW-63A **Lab ID: 40151504014** Collected: 06/12/17 13:28 Received: 06/13/17 09:30 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260							
1,1,1-Trichloroethane	<0.50	ug/L	1.0	0.50	1		06/14/17 21:54	71-55-6	
1,1-Dichloroethane	<0.24	ug/L	1.0	0.24	1		06/14/17 21:54	75-34-3	
1,1-Dichloroethene	<0.41	ug/L	1.0	0.41	1		06/14/17 21:54	75-35-4	
Tetrachloroethene	<0.50	ug/L	1.0	0.50	1		06/14/17 21:54	127-18-4	
Trichloroethene	<0.33	ug/L	1.0	0.33	1		06/14/17 21:54	79-01-6	
Surrogates									
4-Bromofluorobenzene (S)	107	%	61-130		1		06/14/17 21:54	460-00-4	
Dibromofluoromethane (S)	110	%	67-130		1		06/14/17 21:54	1868-53-7	
Toluene-d8 (S)	96	%	70-130		1		06/14/17 21:54	2037-26-5	

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ANALYTICAL RESULTS

Project: 34283.000 NPI

Pace Project No.: 40151504

Sample: MW-63B **Lab ID: 40151504015** Collected: 06/12/17 13:25 Received: 06/13/17 09:30 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260							
1,1,1-Trichloroethane	<0.50	ug/L	1.0	0.50	1		06/14/17 22:16	71-55-6	
1,1-Dichloroethane	<0.24	ug/L	1.0	0.24	1		06/14/17 22:16	75-34-3	
1,1-Dichloroethene	<0.41	ug/L	1.0	0.41	1		06/14/17 22:16	75-35-4	
Tetrachloroethene	<0.50	ug/L	1.0	0.50	1		06/14/17 22:16	127-18-4	
Trichloroethene	<0.33	ug/L	1.0	0.33	1		06/14/17 22:16	79-01-6	
Surrogates									
4-Bromofluorobenzene (S)	112	%	61-130		1		06/14/17 22:16	460-00-4	
Dibromofluoromethane (S)	110	%	67-130		1		06/14/17 22:16	1868-53-7	
Toluene-d8 (S)	94	%	70-130		1		06/14/17 22:16	2037-26-5	

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ANALYTICAL RESULTS

Project: 34283.000 NPI

Pace Project No.: 40151504

Sample: MW-66A **Lab ID: 40151504016** Collected: 06/12/17 12:00 Received: 06/13/17 09:30 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260							
1,1,1-Trichloroethane	<0.50	ug/L	1.0	0.50	1		06/14/17 22:39	71-55-6	
1,1-Dichloroethane	<0.24	ug/L	1.0	0.24	1		06/14/17 22:39	75-34-3	
1,1-Dichloroethene	<0.41	ug/L	1.0	0.41	1		06/14/17 22:39	75-35-4	
Tetrachloroethene	<0.50	ug/L	1.0	0.50	1		06/14/17 22:39	127-18-4	
Trichloroethene	<0.33	ug/L	1.0	0.33	1		06/14/17 22:39	79-01-6	
Surrogates									
4-Bromofluorobenzene (S)	113	%	61-130		1		06/14/17 22:39	460-00-4	
Dibromofluoromethane (S)	112	%	67-130		1		06/14/17 22:39	1868-53-7	
Toluene-d8 (S)	96	%	70-130		1		06/14/17 22:39	2037-26-5	

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ANALYTICAL RESULTS

Project: 34283.000 NPI

Pace Project No.: 40151504

Sample: MW-66B **Lab ID: 40151504017** Collected: 06/12/17 11:55 Received: 06/13/17 09:30 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260							
1,1,1-Trichloroethane	<0.50	ug/L	1.0	0.50	1		06/14/17 23:01	71-55-6	
1,1-Dichloroethane	<0.24	ug/L	1.0	0.24	1		06/14/17 23:01	75-34-3	
1,1-Dichloroethene	<0.41	ug/L	1.0	0.41	1		06/14/17 23:01	75-35-4	
Tetrachloroethene	<0.50	ug/L	1.0	0.50	1		06/14/17 23:01	127-18-4	
Trichloroethene	<0.33	ug/L	1.0	0.33	1		06/14/17 23:01	79-01-6	
Surrogates									
4-Bromofluorobenzene (S)	113	%	61-130		1		06/14/17 23:01	460-00-4	
Dibromofluoromethane (S)	111	%	67-130		1		06/14/17 23:01	1868-53-7	
Toluene-d8 (S)	95	%	70-130		1		06/14/17 23:01	2037-26-5	

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ANALYTICAL RESULTS

Project: 34283.000 NPI

Pace Project No.: 40151504

Sample: MW-66C **Lab ID: 40151504018** Collected: 06/12/17 11:58 Received: 06/13/17 09:30 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260							
1,1,1-Trichloroethane	<0.50	ug/L	1.0	0.50	1		06/14/17 23:24	71-55-6	
1,1-Dichloroethane	<0.24	ug/L	1.0	0.24	1		06/14/17 23:24	75-34-3	
1,1-Dichloroethene	<0.41	ug/L	1.0	0.41	1		06/14/17 23:24	75-35-4	
Tetrachloroethene	<0.50	ug/L	1.0	0.50	1		06/14/17 23:24	127-18-4	
Trichloroethene	<0.33	ug/L	1.0	0.33	1		06/14/17 23:24	79-01-6	
Surrogates									
4-Bromofluorobenzene (S)	111	%	61-130		1		06/14/17 23:24	460-00-4	
Dibromofluoromethane (S)	114	%	67-130		1		06/14/17 23:24	1868-53-7	
Toluene-d8 (S)	95	%	70-130		1		06/14/17 23:24	2037-26-5	

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ANALYTICAL RESULTS

Project: 34283.000 NPI

Pace Project No.: 40151504

Sample: MW-34A **Lab ID: 40151504019** Collected: 06/12/17 15:10 Received: 06/13/17 09:30 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260							
1,1,1-Trichloroethane	<0.50	ug/L	1.0	0.50	1		06/14/17 23:47	71-55-6	
1,1-Dichloroethane	<0.24	ug/L	1.0	0.24	1		06/14/17 23:47	75-34-3	
1,1-Dichloroethene	<0.41	ug/L	1.0	0.41	1		06/14/17 23:47	75-35-4	
Tetrachloroethene	<0.50	ug/L	1.0	0.50	1		06/14/17 23:47	127-18-4	
Trichloroethene	<0.33	ug/L	1.0	0.33	1		06/14/17 23:47	79-01-6	
Surrogates									
4-Bromofluorobenzene (S)	116	%	61-130		1		06/14/17 23:47	460-00-4	
Dibromofluoromethane (S)	117	%	67-130		1		06/14/17 23:47	1868-53-7	
Toluene-d8 (S)	91	%	70-130		1		06/14/17 23:47	2037-26-5	

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ANALYTICAL RESULTS

Project: 34283.000 NPI

Pace Project No.: 40151504

Sample: MW-34B **Lab ID: 40151504020** Collected: 06/12/17 15:05 Received: 06/13/17 09:30 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260							
1,1,1-Trichloroethane	<0.50	ug/L	1.0	0.50	1		06/15/17 00:09	71-55-6	
1,1-Dichloroethane	<0.24	ug/L	1.0	0.24	1		06/15/17 00:09	75-34-3	
1,1-Dichloroethene	<0.41	ug/L	1.0	0.41	1		06/15/17 00:09	75-35-4	
Tetrachloroethene	<0.50	ug/L	1.0	0.50	1		06/15/17 00:09	127-18-4	
Trichloroethene	<0.33	ug/L	1.0	0.33	1		06/15/17 00:09	79-01-6	
Surrogates									
4-Bromofluorobenzene (S)	123	%	61-130		1		06/15/17 00:09	460-00-4	
Dibromofluoromethane (S)	116	%	67-130		1		06/15/17 00:09	1868-53-7	
Toluene-d8 (S)	87	%	70-130		1		06/15/17 00:09	2037-26-5	

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ANALYTICAL RESULTS

Project: 34283.000 NPI

Pace Project No.: 40151504

Sample: MW-34C **Lab ID: 40151504021** Collected: 06/12/17 15:15 Received: 06/13/17 09:30 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260							
1,1,1-Trichloroethane	<0.50	ug/L	1.0	0.50	1		06/15/17 00:32	71-55-6	
1,1-Dichloroethane	<0.24	ug/L	1.0	0.24	1		06/15/17 00:32	75-34-3	
1,1-Dichloroethene	<0.41	ug/L	1.0	0.41	1		06/15/17 00:32	75-35-4	
Tetrachloroethene	<0.50	ug/L	1.0	0.50	1		06/15/17 00:32	127-18-4	
Trichloroethene	<0.33	ug/L	1.0	0.33	1		06/15/17 00:32	79-01-6	
Surrogates									
4-Bromofluorobenzene (S)	106	%	61-130		1		06/15/17 00:32	460-00-4	
Dibromofluoromethane (S)	111	%	67-130		1		06/15/17 00:32	1868-53-7	
Toluene-d8 (S)	95	%	70-130		1		06/15/17 00:32	2037-26-5	

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ANALYTICAL RESULTS

Project: 34283.000 NPI

Pace Project No.: 40151504

Sample: MW-68A **Lab ID: 40151504022** Collected: 06/12/17 15:55 Received: 06/13/17 09:30 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260							
1,1,1-Trichloroethane	<0.50	ug/L	1.0	0.50	1		06/15/17 00:54	71-55-6	
1,1-Dichloroethane	<0.24	ug/L	1.0	0.24	1		06/15/17 00:54	75-34-3	
1,1-Dichloroethene	<0.41	ug/L	1.0	0.41	1		06/15/17 00:54	75-35-4	
Tetrachloroethene	<0.50	ug/L	1.0	0.50	1		06/15/17 00:54	127-18-4	
Trichloroethene	<0.33	ug/L	1.0	0.33	1		06/15/17 00:54	79-01-6	
Surrogates									
4-Bromofluorobenzene (S)	107	%	61-130		1		06/15/17 00:54	460-00-4	
Dibromofluoromethane (S)	113	%	67-130		1		06/15/17 00:54	1868-53-7	
Toluene-d8 (S)	97	%	70-130		1		06/15/17 00:54	2037-26-5	

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ANALYTICAL RESULTS

Project: 34283.000 NPI

Pace Project No.: 40151504

Sample: MW-68B **Lab ID: 40151504023** Collected: 06/12/17 16:00 Received: 06/13/17 09:30 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260							
1,1,1-Trichloroethane	<0.50	ug/L	1.0	0.50	1		06/15/17 01:17	71-55-6	
1,1-Dichloroethane	<0.24	ug/L	1.0	0.24	1		06/15/17 01:17	75-34-3	
1,1-Dichloroethene	<0.41	ug/L	1.0	0.41	1		06/15/17 01:17	75-35-4	
Tetrachloroethene	<0.50	ug/L	1.0	0.50	1		06/15/17 01:17	127-18-4	
Trichloroethene	<0.33	ug/L	1.0	0.33	1		06/15/17 01:17	79-01-6	
Surrogates									
4-Bromofluorobenzene (S)	107	%	61-130		1		06/15/17 01:17	460-00-4	
Dibromofluoromethane (S)	112	%	67-130		1		06/15/17 01:17	1868-53-7	
Toluene-d8 (S)	97	%	70-130		1		06/15/17 01:17	2037-26-5	

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ANALYTICAL RESULTS

Project: 34283.000 NPI

Pace Project No.: 40151504

Sample: MW-70A **Lab ID: 40151504024** Collected: 06/12/17 14:45 Received: 06/13/17 09:30 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260							
1,1,1-Trichloroethane	<0.50	ug/L	1.0	0.50	1		06/15/17 01:40	71-55-6	
1,1-Dichloroethane	0.73J	ug/L	1.0	0.24	1		06/15/17 01:40	75-34-3	
1,1-Dichloroethene	<0.41	ug/L	1.0	0.41	1		06/15/17 01:40	75-35-4	
Tetrachloroethene	<0.50	ug/L	1.0	0.50	1		06/15/17 01:40	127-18-4	
Trichloroethene	0.68J	ug/L	1.0	0.33	1		06/15/17 01:40	79-01-6	
Surrogates									
4-Bromofluorobenzene (S)	102	%	61-130		1		06/15/17 01:40	460-00-4	
Dibromofluoromethane (S)	109	%	67-130		1		06/15/17 01:40	1868-53-7	
Toluene-d8 (S)	100	%	70-130		1		06/15/17 01:40	2037-26-5	

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ANALYTICAL RESULTS

Project: 34283.000 NPI

Pace Project No.: 40151504

Sample: MW-70B **Lab ID: 40151504025** Collected: 06/12/17 14:50 Received: 06/13/17 09:30 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260							
1,1,1-Trichloroethane	<0.50	ug/L	1.0	0.50	1		06/15/17 08:57	71-55-6	
1,1-Dichloroethane	<0.24	ug/L	1.0	0.24	1		06/15/17 08:57	75-34-3	
1,1-Dichloroethene	<0.41	ug/L	1.0	0.41	1		06/15/17 08:57	75-35-4	
Tetrachloroethene	<0.50	ug/L	1.0	0.50	1		06/15/17 08:57	127-18-4	
Trichloroethene	<0.33	ug/L	1.0	0.33	1		06/15/17 08:57	79-01-6	
Surrogates									
4-Bromofluorobenzene (S)	98	%	61-130		1		06/15/17 08:57	460-00-4	
Dibromofluoromethane (S)	106	%	67-130		1		06/15/17 08:57	1868-53-7	
Toluene-d8 (S)	94	%	70-130		1		06/15/17 08:57	2037-26-5	

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ANALYTICAL RESULTS

Project: 34283.000 NPI

Pace Project No.: 40151504

Sample: MW-74A **Lab ID: 40151504026** Collected: 06/12/17 15:45 Received: 06/13/17 09:30 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260							
1,1,1-Trichloroethane	<0.50	ug/L	1.0	0.50	1		06/15/17 10:49	71-55-6	
1,1-Dichloroethane	<0.24	ug/L	1.0	0.24	1		06/15/17 10:49	75-34-3	
1,1-Dichloroethene	<0.41	ug/L	1.0	0.41	1		06/15/17 10:49	75-35-4	
Tetrachloroethene	<0.50	ug/L	1.0	0.50	1		06/15/17 10:49	127-18-4	
Trichloroethene	<0.33	ug/L	1.0	0.33	1		06/15/17 10:49	79-01-6	
Surrogates									
4-Bromofluorobenzene (S)	97	%	61-130		1		06/15/17 10:49	460-00-4	
Dibromofluoromethane (S)	105	%	67-130		1		06/15/17 10:49	1868-53-7	
Toluene-d8 (S)	94	%	70-130		1		06/15/17 10:49	2037-26-5	

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ANALYTICAL RESULTS

Project: 34283.000 NPI

Pace Project No.: 40151504

Sample: MW-74B **Lab ID: 40151504027** Collected: 06/12/17 15:40 Received: 06/13/17 09:30 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260							
1,1,1-Trichloroethane	<0.50	ug/L	1.0	0.50	1		06/15/17 11:12	71-55-6	
1,1-Dichloroethane	<0.24	ug/L	1.0	0.24	1		06/15/17 11:12	75-34-3	
1,1-Dichloroethene	<0.41	ug/L	1.0	0.41	1		06/15/17 11:12	75-35-4	
Tetrachloroethene	<0.50	ug/L	1.0	0.50	1		06/15/17 11:12	127-18-4	
Trichloroethene	<0.33	ug/L	1.0	0.33	1		06/15/17 11:12	79-01-6	
Surrogates									
4-Bromofluorobenzene (S)	99	%	61-130		1		06/15/17 11:12	460-00-4	
Dibromofluoromethane (S)	107	%	67-130		1		06/15/17 11:12	1868-53-7	
Toluene-d8 (S)	94	%	70-130		1		06/15/17 11:12	2037-26-5	

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ANALYTICAL RESULTS

Project: 34283.000 NPI

Pace Project No.: 40151504

Sample: MW-74B DUP **Lab ID: 40151504028** Collected: 06/12/17 15:40 Received: 06/13/17 09:30 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260							
1,1,1-Trichloroethane	<0.50	ug/L	1.0	0.50	1		06/15/17 08:35	71-55-6	
1,1-Dichloroethane	<0.24	ug/L	1.0	0.24	1		06/15/17 08:35	75-34-3	
1,1-Dichloroethene	<0.41	ug/L	1.0	0.41	1		06/15/17 08:35	75-35-4	
Tetrachloroethene	<0.50	ug/L	1.0	0.50	1		06/15/17 08:35	127-18-4	
Trichloroethene	<0.33	ug/L	1.0	0.33	1		06/15/17 08:35	79-01-6	
Surrogates									
4-Bromofluorobenzene (S)	98	%	61-130		1		06/15/17 08:35	460-00-4	
Dibromofluoromethane (S)	106	%	67-130		1		06/15/17 08:35	1868-53-7	
Toluene-d8 (S)	94	%	70-130		1		06/15/17 08:35	2037-26-5	

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ANALYTICAL RESULTS

Project: 34283.000 NPI

Pace Project No.: 40151504

Sample: TRIP BLANK **Lab ID: 40151504029** Collected: 06/12/17 00:00 Received: 06/13/17 09:30 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260							
1,1,1-Trichloroethane	<0.50	ug/L	1.0	0.50	1		06/15/17 11:34	71-55-6	
1,1-Dichloroethane	<0.24	ug/L	1.0	0.24	1		06/15/17 11:34	75-34-3	
1,1-Dichloroethene	<0.41	ug/L	1.0	0.41	1		06/15/17 11:34	75-35-4	
Tetrachloroethene	<0.50	ug/L	1.0	0.50	1		06/15/17 11:34	127-18-4	
Trichloroethene	<0.33	ug/L	1.0	0.33	1		06/15/17 11:34	79-01-6	
Surrogates									
4-Bromofluorobenzene (S)	97	%	61-130		1		06/15/17 11:34	460-00-4	
Dibromofluoromethane (S)	106	%	67-130		1		06/15/17 11:34	1868-53-7	
Toluene-d8 (S)	93	%	70-130		1		06/15/17 11:34	2037-26-5	

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QUALITY CONTROL DATA

Project: 34283.000 NPI
Pace Project No.: 40151504

QC Batch: 258425 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV
Associated Lab Samples: 40151504002

METHOD BLANK: 1522281 Matrix: Water
Associated Lab Samples: 40151504002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	<0.50	1.0	06/14/17 10:30	
1,1-Dichloroethane	ug/L	<0.24	1.0	06/14/17 10:30	
1,1-Dichloroethene	ug/L	<0.41	1.0	06/14/17 10:30	
Tetrachloroethene	ug/L	<0.50	1.0	06/14/17 10:30	
Trichloroethene	ug/L	<0.33	1.0	06/14/17 10:30	
4-Bromofluorobenzene (S)	%	89	61-130	06/14/17 10:30	
Dibromofluoromethane (S)	%	105	67-130	06/14/17 10:30	
Toluene-d8 (S)	%	92	70-130	06/14/17 10:30	

LABORATORY CONTROL SAMPLE: 1522282

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	50	59.1	118	70-130	
1,1-Dichloroethane	ug/L	50	50.5	101	71-132	
1,1-Dichloroethene	ug/L	50	46.0	92	75-130	
Tetrachloroethene	ug/L	50	52.7	105	70-130	
Trichloroethene	ug/L	50	54.9	110	70-130	
4-Bromofluorobenzene (S)	%			110	61-130	
Dibromofluoromethane (S)	%			102	67-130	
Toluene-d8 (S)	%			95	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1523039 1523040

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		40151367004 Result	Spike Conc.	Spike Conc.	MS Result						
1,1,1-Trichloroethane	ug/L	<0.50	50	50	61.1	61.5	122	123	70-134	1	20
1,1-Dichloroethane	ug/L	<0.24	50	50	42.2	52.5	84	105	71-133	22	20 R1
1,1-Dichloroethene	ug/L	<0.41	50	50	45.4	45.6	91	91	75-136	0	20
Tetrachloroethene	ug/L	13.6	50	50	69.2	68.3	111	109	70-130	1	20
Trichloroethene	ug/L	<0.33	50	50	54.2	53.7	108	107	70-130	1	20
4-Bromofluorobenzene (S)	%						108	111	61-130		
Dibromofluoromethane (S)	%						100	97	67-130		
Toluene-d8 (S)	%						94	93	70-130		

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QUALITY CONTROL DATA

Project: 34283.000 NPI
Pace Project No.: 40151504

QC Batch: 258492 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV
Associated Lab Samples: 40151504003, 40151504004, 40151504005, 40151504006, 40151504007, 40151504008, 40151504009, 40151504012, 40151504013, 40151504014, 40151504015, 40151504016, 40151504017, 40151504018, 40151504019, 40151504020, 40151504021, 40151504022, 40151504023, 40151504024

METHOD BLANK: 1522973 Matrix: Water
Associated Lab Samples: 40151504003, 40151504004, 40151504005, 40151504006, 40151504007, 40151504008, 40151504009, 40151504012, 40151504013, 40151504014, 40151504015, 40151504016, 40151504017, 40151504018, 40151504019, 40151504020, 40151504021, 40151504022, 40151504023, 40151504024

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	<0.50	1.0	06/14/17 16:37	
1,1-Dichloroethane	ug/L	<0.24	1.0	06/14/17 16:37	
1,1-Dichloroethene	ug/L	<0.41	1.0	06/14/17 16:37	
Tetrachloroethene	ug/L	<0.50	1.0	06/14/17 16:37	
Trichloroethene	ug/L	<0.33	1.0	06/14/17 16:37	
4-Bromofluorobenzene (S)	%	113	61-130	06/14/17 16:37	
Dibromofluoromethane (S)	%	111	67-130	06/14/17 16:37	
Toluene-d8 (S)	%	97	70-130	06/14/17 16:37	

LABORATORY CONTROL SAMPLE: 1522974

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	50	55.4	111	70-130	
1,1-Dichloroethane	ug/L	50	61.3	123	71-132	
1,1-Dichloroethene	ug/L	50	58.0	116	75-130	
Tetrachloroethene	ug/L	50	49.9	100	70-130	
Trichloroethene	ug/L	50	61.3	123	70-130	
4-Bromofluorobenzene (S)	%			109	61-130	
Dibromofluoromethane (S)	%			109	67-130	
Toluene-d8 (S)	%			100	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1522975 1522976

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	Max RPD	Qual	
		40151504009 Result	Spike Conc.	Spike Conc.	MS Result						MSD Result
1,1,1-Trichloroethane	ug/L	<0.50	50	50	56.3	55.1	113	110	70-134	2	20
1,1-Dichloroethane	ug/L	<0.24	50	50	62.1	58.1	124	116	71-133	7	20
1,1-Dichloroethene	ug/L	<0.41	50	50	58.2	55.2	116	110	75-136	5	20
Tetrachloroethene	ug/L	<0.50	50	50	52.0	52.7	104	105	70-130	1	20
Trichloroethene	ug/L	<0.33	50	50	61.1	59.9	122	120	70-130	2	20
4-Bromofluorobenzene (S)	%						111	105	61-130		
Dibromofluoromethane (S)	%						106	105	67-130		
Toluene-d8 (S)	%						102	104	70-130		

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QUALITY CONTROL DATA

Project: 34283.000 NPI
Pace Project No.: 40151504

QC Batch: 258506 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV
Associated Lab Samples: 40151504025, 40151504026, 40151504027, 40151504028, 40151504029

METHOD BLANK: 1523015 Matrix: Water
Associated Lab Samples: 40151504025, 40151504026, 40151504027, 40151504028, 40151504029

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	<0.50	1.0	06/15/17 06:43	
1,1-Dichloroethane	ug/L	<0.24	1.0	06/15/17 06:43	
1,1-Dichloroethene	ug/L	<0.41	1.0	06/15/17 06:43	
Tetrachloroethene	ug/L	<0.50	1.0	06/15/17 06:43	
Trichloroethene	ug/L	<0.33	1.0	06/15/17 06:43	
4-Bromofluorobenzene (S)	%	98	61-130	06/15/17 06:43	
Dibromofluoromethane (S)	%	103	67-130	06/15/17 06:43	
Toluene-d8 (S)	%	94	70-130	06/15/17 06:43	

LABORATORY CONTROL SAMPLE: 1523016

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	50	62.1	124	70-130	
1,1-Dichloroethane	ug/L	50	50.0	100	71-132	
1,1-Dichloroethene	ug/L	50	50.9	102	75-130	
Tetrachloroethene	ug/L	50	55.2	110	70-130	
Trichloroethene	ug/L	50	55.9	112	70-130	
4-Bromofluorobenzene (S)	%			101	61-130	
Dibromofluoromethane (S)	%			105	67-130	
Toluene-d8 (S)	%			93	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1523240 1523241

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	Max RPD	Qual	
		40151504025 Result	Spike Conc.	Spike Conc.	MS Result						MSD Result
1,1,1-Trichloroethane	ug/L	<0.50	50	50	63.2	63.5	126	127	70-134	0	20
1,1-Dichloroethane	ug/L	<0.24	50	50	50.5	51.2	101	102	71-133	1	20
1,1-Dichloroethene	ug/L	<0.41	50	50	51.4	51.6	103	103	75-136	0	20
Tetrachloroethene	ug/L	<0.50	50	50	55.6	56.1	111	112	70-130	1	20
Trichloroethene	ug/L	<0.33	50	50	57.7	56.9	115	114	70-130	1	20
4-Bromofluorobenzene (S)	%						101	102	61-130		
Dibromofluoromethane (S)	%						105	105	67-130		
Toluene-d8 (S)	%						93	94	70-130		

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: 34283.000 NPI
Pace Project No.: 40151504

QC Batch: 258546 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV
Associated Lab Samples: 40151504001

METHOD BLANK: 1523204 Matrix: Water
Associated Lab Samples: 40151504001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	<0.50	1.0	06/14/17 14:44	
1,1-Dichloroethane	ug/L	<0.24	1.0	06/14/17 14:44	
1,1-Dichloroethene	ug/L	<0.41	1.0	06/14/17 14:44	
Tetrachloroethene	ug/L	<0.50	1.0	06/14/17 14:44	
Trichloroethene	ug/L	<0.33	1.0	06/14/17 14:44	
4-Bromofluorobenzene (S)	%	99	61-130	06/14/17 14:44	
Dibromofluoromethane (S)	%	103	67-130	06/14/17 14:44	
Toluene-d8 (S)	%	95	70-130	06/14/17 14:44	

LABORATORY CONTROL SAMPLE: 1523205

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	50	62.1	124	70-130	
1,1-Dichloroethane	ug/L	50	50.8	102	71-132	
1,1-Dichloroethene	ug/L	50	51.7	103	75-130	
Tetrachloroethene	ug/L	50	55.5	111	70-130	
Trichloroethene	ug/L	50	56.8	114	70-130	
4-Bromofluorobenzene (S)	%			101	61-130	
Dibromofluoromethane (S)	%			105	67-130	
Toluene-d8 (S)	%			94	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1523459 1523460

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	Max RPD	Qual	
		40151534001 Result	Spike Conc.	Spike Conc.	MS Result						MSD Result
1,1,1-Trichloroethane	ug/L	<0.50	50	50	64.4	63.5	129	127	70-134	1	20
1,1-Dichloroethane	ug/L	<0.24	50	50	52.4	51.4	105	103	71-133	2	20
1,1-Dichloroethene	ug/L	<0.41	50	50	53.5	52.9	107	106	75-136	1	20
Tetrachloroethene	ug/L	<0.50	50	50	57.0	57.7	114	115	70-130	1	20
Trichloroethene	ug/L	<0.33	50	50	59.4	59.3	118	118	70-130	0	20
4-Bromofluorobenzene (S)	%						100	101	61-130		
Dibromofluoromethane (S)	%						105	105	67-130		
Toluene-d8 (S)	%						94	95	70-130		

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: 34283.000 NPI
Pace Project No.: 40151504

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.

LABORATORIES

PASI-G Pace Analytical Services - Green Bay

ANALYTE QUALIFIERS

R1 RPD value was outside control limits.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 34283.000 NPI

Pace Project No.: 40151504

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40151504001	EW1R-76'	EPA 8260	258546		
40151504002	EW1R-86'	EPA 8260	258425		
40151504003	EW1R-96'	EPA 8260	258492		
40151504004	EW-2-81'	EPA 8260	258492		
40151504005	EW-2-91'	EPA 8260	258492		
40151504006	MW-5A	EPA 8260	258492		
40151504007	MW-5B	EPA 8260	258492		
40151504008	MW-6	EPA 8260	258492		
40151504009	MW-62AR	EPA 8260	258492		
40151504012	MW-62B	EPA 8260	258492		
40151504013	MW-62C	EPA 8260	258492		
40151504014	MW-63A	EPA 8260	258492		
40151504015	MW-63B	EPA 8260	258492		
40151504016	MW-66A	EPA 8260	258492		
40151504017	MW-66B	EPA 8260	258492		
40151504018	MW-66C	EPA 8260	258492		
40151504019	MW-34A	EPA 8260	258492		
40151504020	MW-34B	EPA 8260	258492		
40151504021	MW-34C	EPA 8260	258492		
40151504022	MW-68A	EPA 8260	258492		
40151504023	MW-68B	EPA 8260	258492		
40151504024	MW-70A	EPA 8260	258492		
40151504025	MW-70B	EPA 8260	258506		
40151504026	MW-74A	EPA 8260	258506		
40151504027	MW-74B	EPA 8260	258506		
40151504028	MW-74B DUP	EPA 8260	258506		
40151504029	TRIP BLANK	EPA 8260	258506		

REPORT OF LABORATORY ANALYSIS

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40151504

UPPER MIDWEST REGION

MN: 612-607-1700 WI: 920-469-2436



RR

(Please Print Clearly)

Company Name: Gannett Fleming
 Branch/Location: Madison, WI
 Project Contact: Cliff Wright
 Phone: 608-836-1500
 Project Number: 34283.000
 Project Name: NPI
 Project State: WI
 Sampled By (Print): Marcus Musser
 Sampled By (Sign): *[Signature]*

CHAIN OF CUSTODY

***Preservation Codes**
 A=None B=HCL C=H2SO4 D=HNO3 E=DI Water F=Methanol G=NaOH
 H=Sodium Bisulfate Solution I=Sodium Thiosulfate J=Other

Quote #:

Mail To Contact: Cliff Wright

Mail To Company: Gannett Fleming

Mail To Address: 8025 Excelsior Dr. Madison, WI 53717

Invoice To Contact:

Invoice To Company:

Invoice To Address:

Invoice To Phone: 608-836-1500

CLIENT COMMENTS

LAB COMMENTS (Lab Use Only)

Profile #

Send copy of data package to Mary Wehbe
 Mary@mcwscientificsolutions.com

3-40mL v B

9-40mL v B

6/13/17 RR

13-40mL v B

PACE Project No. 40151504

Receipt Temp = 20.1 °C

Sample Receipt pH OK / Adjusted

Cooler Custody Seal Present / Not Present Intact / Not Intact

Y/N	Pick Letter	Analyzes Requested	DATE	TIME	MATRIX	TEMP	INITIALS
N	B	VOCs NPI List	6/12	1240	6W	3°	
				1242		3°	
				1244		3°	
				1315		3°	
				1318		3°	
				1308		3°	
				1305		3°	
				1150		3°	
				1230		3°	
				1230		3°	
				1230		3°	
				1232		3°	
				1228		3°	

Data Package Options (billable)

EPA Level III

EPA Level IV

MS/MSD (billable)

On your sample

NOT needed on your sample

Matrix Codes

A = Air W = Water
 B = Biota DW = Drinking Water
 C = Charcoal GW = Ground Water
 O = Oil SW = Surface Water
 S = Soil WW = Waste Water
 SI = Sludge WP = Wipe

Regulatory Program:

PACE LAB #	CLIENT FIELD ID	COLLECTION DATE	COLLECTION TIME	MATRIX
001	EWIR-76'	6/12	1240	6W
002	AWIR-86'		1242	
003	EWIR-96'		1244	
004	EW-281'		1315	
005	EWZ-91'		1318	
006	MW-5A		1308	
007	MW-5B		1305	
008	MW-6		1150	
009	MW-6ZAR		1230	
010	MW-6ZAR MS 010		1230	
011	MW-6ZAR MSD 011		1230	
012	MW-6ZB 012		1232	
013	MW-6ZC 013		1228	

Rush Turnaround Time Requested - Prelims (Rush TAT subject to approval/surcharge)

Date Needed:

Transmit Prelim Rush Results by (complete what you want):

Email #1: _____

Email #2: _____

Telephone: _____

Fax: _____

Samples on HOLD are subject to special pricing and release of liability

Relinquished By: *Marcus Musser* Date/Time: 6/12, 1700

Relinquished By: *Fedex* Date/Time: 6/13/17 0930

Relinquished By: _____ Date/Time: _____

Relinquished By: _____ Date/Time: _____

Relinquished By: _____ Date/Time: _____

Received By: _____ Date/Time: _____

Received By: _____ Date/Time: _____

Received By: _____ Date/Time: _____

Received By: _____ Date/Time: _____

(Please Print Clearly)

UPPER MIDWEST REGION

Page 2 of 3

MN: 612-607-1700 WI: 920-469-2436

40151504



CHAIN OF CUSTODY

***Preservation Codes**
 A=None B=HCL C=H2SO4 D=HNO3 E=DI Water F=Methanol G=NaOH
 H=Sodium Bisulfate Solution I=Sodium Thiosulfate J=Other

Company Name: _____
 Branch/Location: _____
 Project Contact: *See page 1*
 Phone: _____
 Project Number: _____
 Project Name: _____
 Project State: _____
 Sampled By (Print): _____
 Sampled By (Sign): _____
 PO #: _____ Regulatory Program: _____

Quote #: _____
 Mail To Contact: *See page 1*
 Mail To Company: _____
 Mail To Address: _____
 Invoice To Contact: _____
 Invoice To Company: _____
 Invoice To Address: _____
 Invoice To Phone: _____

Data Package Options (billable)
 EPA Level III
 EPA Level IV

MS/MSD
 On your sample (billable)
 NOT needed on your sample

Matrix Codes
 A = Air W = Water
 B = Biota DW = Drinking Water
 C = Charcoal GW = Ground Water
 O = Oil SW = Surface Water
 S = Soil WW = Waste Water
 SI = Sludge WP = Wipe

Y/N	Pick Letter	Analysis Requested	DATE	TIME	MATRX
N	B	VOCs MPI short list	6/12	1328	6W
				1325	
				1200	
				1155	
				1158	
				1440	
				1510	
				1505	
				1515	
				1555	
				1600	
				1445	
				1450	

PACE LAB #	CLIENT FIELD ID	COLLECTION		MTRX
		DATE	TIME	
014	MW-63A 017 014	6/12	1328	6W
015	MW-63B 013 015		1325	
016	MW-66A 014 016		1200	
017	MW-66B 015 017		1155	
018	MW-66C 016 018		1158	
019	MW-10A		1440	
020	MW-34A 017 019		1510	
021	MW-34B 018 020		1505	
022	MW-34C 019 021		1515	
023	MW-68A 020 022		1555	
024	MW-68B 021 023		1600	
025	MW-70A 022 024		1445	
026	MW-70B 023 025		1450	

CLIENT COMMENTS: *see page 1*

LAB COMMENTS (Lab Use Only): *3-40ml, B*

Profile #: _____

Rush Turnaround Time Requested - Prelims
 Rush TAT subject to approval/surcharge)
 Date Needed: _____

Transmit Prelim Rush Results by (complete what you want):

Email #1: _____
 Email #2: _____
 Telephone: _____
 Fax: _____

Samples on HOLD are subject to special pricing and release of liability

Relinquished By: *Marcus Mussey* Date/Time: *6/12/17 1700*

Relinquished By: *FCL EX* Date/Time: *6/13/17 0930*

Relinquished By: _____ Date/Time: _____

Relinquished By: _____ Date/Time: _____

Relinquished By: _____ Date/Time: _____

Received By: *Fedex* Date/Time: _____

Received By: *Kevin Wey Row* Date/Time: *6/13/17 0930*

Received By: _____ Date/Time: _____

Received By: _____ Date/Time: _____

Received By: _____ Date/Time: _____

PACE Project No. *40151504*

Receipt Temp = *201* °C

Sample Receipt pH
 OK / Adjusted

Cooler Custody Seal
 Present / Not Present
 Intact / Not Intact

014
020
021
022
023
024
025

(Please Print Clearly)

UPPER MIDWEST REGION

MN: 612-607-1700 WI: 920-469-2436

40151504

Page 42 of 43



CHAIN OF CUSTODY

***Preservation Codes**
 A=None B=HCL C=H2SO4 D=HNO3 E=DI Water F=Methanol G=NaOH
 H=Sodium Bisulfate Solution I=Sodium Thiosulfate J=Other

Company Name: _____
 Branch/Location: _____
 Project Contact: _____
 Phone: _____
 Project Number: _____
 Project Name: _____
 Project State: _____
 Sampled By (Print): _____
 Sampled By (Sign): _____
 PO #: _____

see page 1

Quote #: _____
 Mail To Contact: _____
 Mail To Company: _____
 Mail To Address: _____
 Invoice To Contact: _____
 Invoice To Company: _____
 Invoice To Address: _____
 Invoice To Phone: _____

see page 1

Data Package Options (billable)
 EPA Level III
 EPA Level IV

MS/MSD
 On your sample (billable)
 NOT needed on your sample

Matrix Codes
 A = Air W = Water
 B = Biota DW = Drinking Water
 C = Charcoal GW = Ground Water
 O = Oil SW = Surface Water
 S = Soil WW = Waste Water
 SI = Sludge WP = Wipe

FILTERED? (YES/NO)
PRESERVATION (CODE)*

Y/N	Pick Letter	Analyses Requested	COLLECTION		MATRIX
			DATE	TIME	
N	B	VOCs NP1 short list	6/12	1545	GW
				1540	
				1540	

PACE LAB #	CLIENT FIELD ID	COLLECTION		MATRIX
		DATE	TIME	
027	MW-74 A	02/02/06	6/12 1545	GW
028	MW-74 B	02/05/07	↓ 1540	↓
029	MW-74 B dup	02/05/07	↓ 1540	↓
030	Trip Blank	02/10/07		

027
028
029
030
PW
6/13/07

CLIENT COMMENTS
 see page 1

LAB COMMENTS (Lab Use Only)
 3-40mL v^B
 ↓
 2-40mL v^B
 ↓

Profile # _____

Rush Turnaround Time Requested - Prelims (Rush TAT subject to approval/surcharge)
 Date Needed: _____

Transmit Prelim Rush Results by (complete what you want): _____

Relinquished By: Marcus Mussey Date/Time: 6/12/07 1700
 Relinquished By: fea ex Date/Time: 6/13/07 0930
 Relinquished By: _____ Date/Time: _____
 Relinquished By: _____ Date/Time: _____

Received By: _____ Date/Time: _____
 Received By: PACW CW Rie Date/Time: 6/13/07 0930
 Received By: _____ Date/Time: _____
 Received By: _____ Date/Time: _____

PACE Project No. 40151504
 Receipt Temp = 20 °C
 Sample Receipt pH OK / Adjusted
 Cooler Custody Seal Present / Not Present
 Intact / Not Intact

Samples on HOLD are subject to special pricing and release of liability

Sample Condition Upon Receipt

Pace Analytical Services, LLC. - Green Bay WI
1241 Bellevue Street, Suite 9
Green Bay, WI 54302



Project #: **WO# : 40151504**

Client Name: Gannett Fleming



Courier: Fed Ex UPS Client Pace Other: _____

Tracking #: 8115 9776 0868

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: (20) /Corr: _____ Biological Tissue is Frozen: yes

Temp Blank Present: yes no no

Person examining contents:
Date: 6/13/17
Initials: RMV

Temp should be above freezing to 6°C.
Biota Samples may be received at ≤ 0°C.

Comments:

Chain of Custody Present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1.
Chain of Custody Filled Out:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	2.
Chain of Custody Relinquished:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	3.
Sampler Name & Signature on COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	4.
Samples Arrived within Hold Time:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	5.
- VOA Samples frozen upon receipt	<input type="checkbox"/> Yes <input type="checkbox"/> No	Date/Time:
Short Hold Time Analysis (<72hr):	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	6.
Rush Turn Around Time Requested:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	7.
Sufficient Volume:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	8.
Correct Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	9.
-Pace Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
-Pace IR Containers Used:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Containers Intact:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	10.
Filtered volume received for Dissolved tests	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	11.
Sample Labels match COC:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	12.
-Includes date/time/ID/Analysis Matrix: <u>W</u>	2011-label states MW: 62AR-MS DUP 005-140ml B label states EW-2' placed by time RMV 027-1-40ml B no time. 6/13/17 KR 6/13/17	
All containers needing preservation have been checked. (Non-Compliance noted in 13.)	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	13.
All containers needing preservation are found to be in compliance with EPA recommendation. (HNO3, H2SO4 ≤2; NaOH+ZnAct ≥9, NaOH ≥12)	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
exceptions: (VOA, coliform, TOC, TOX, TOH, O&G, WIDROW, Phenolics, OTHER: _____)	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
	<input type="checkbox"/> HNO3 <input type="checkbox"/> H2SO4 <input type="checkbox"/> NaOH <input type="checkbox"/> NaOH +ZnAct	
Initial when completed	Lab Std #ID of preservative	Date/Time:
Headspace in VOA Vials (>6mm):	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	14.
Trip Blank Present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	15.
Trip Blank Custody Seals Present	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Pace Trip Blank Lot # (if purchased): <u>#281</u>		

Client Notification/ Resolution:

If checked, see attached form for additional comments

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: AC for DM

Date: 6/13/17

June 23, 2017

Project #34283.000
NPI Q2 GW
Reviewed by CCW
6/23/17

Clifford Wright
Gannett Fleming
8025 Excelsior Drive
Madison, WI 53717

RE: Project: 34283.000 NPI
Pace Project No.: 40151848

Dear Clifford Wright:

Enclosed are the analytical results for sample(s) received by the laboratory on June 16, 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.

Amended Report: A L2 report was submitted earlier which reported the wrong metal.

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

cc: Mary C. Wehbe, MCW Scientific Solutions



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: 34283.000 NPI

Pace Project No.: 40151848

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

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SAMPLE SUMMARY

Project: 34283.000 NPI
Pace Project No.: 40151848

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40151848001	EW-5 78'	Water	06/13/17 08:05	06/16/17 09:40
40151848002	EW-6	Water	06/13/17 08:00	06/16/17 09:40
40151848003	MW-4A	Water	06/13/17 08:25	06/16/17 09:40
40151848004	MW-4B	Water	06/13/17 08:20	06/16/17 09:40
40151848005	MW-34A	Water	06/12/17 15:10	06/16/17 09:40
40151848006	MW-34B	Water	06/12/17 15:05	06/16/17 09:40
40151848007	MW-34C	Water	06/12/17 15:15	06/16/17 09:40
40151848008	MW-68A	Water	06/12/17 15:55	06/16/17 09:40
40151848009	MW-68B	Water	06/12/17 16:00	06/16/17 09:40
40151848010	MW-70A	Water	06/12/17 14:45	06/16/17 09:40
40151848011	MW-70B	Water	06/12/17 14:50	06/16/17 09:40
40151848012	MW-75	Water	06/12/17 13:30	06/16/17 09:40
40151848013	EW-5 88'	Water	06/12/17 08:05	06/16/17 09:40

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: 34283.000 NPI

Pace Project No.: 40151848

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
40151848001	EW-5 78'	EPA 6010	DLB	1	PASI-G
40151848002	EW-6	EPA 6010	DLB	1	PASI-G
40151848003	MW-4A	EPA 6010	DLB	1	PASI-G
40151848004	MW-4B	EPA 6010	DLB	1	PASI-G
40151848005	MW-34A	EPA 6010	DLB	1	PASI-G
40151848006	MW-34B	EPA 6010	DLB	1	PASI-G
40151848007	MW-34C	EPA 6010	DLB	1	PASI-G
40151848008	MW-68A	EPA 6010	DLB	1	PASI-G
40151848009	MW-68B	EPA 6010	DLB	1	PASI-G
40151848010	MW-70A	EPA 6010	DLB	1	PASI-G
40151848011	MW-70B	EPA 6010	DLB	1	PASI-G
40151848012	MW-75	EPA 6010	DLB	1	PASI-G
40151848013	EW-5 88'	EPA 6010	DLB	1	PASI-G

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: 34283.000 NPI

Pace Project No.: 40151848

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
40151848005	MW-34A					
EPA 6010	Cadmium, Dissolved	4.4J	ug/L	5.0	06/21/17 09:58	
40151848006	MW-34B					
EPA 6010	Cadmium, Dissolved	1.4J	ug/L	5.0	06/20/17 20:09	
40151848009	MW-68B					
EPA 6010	Cadmium, Dissolved	3.9J	ug/L	5.0	06/20/17 20:17	
40151848011	MW-70B					
EPA 6010	Cadmium, Dissolved	4.5J	ug/L	5.0	06/20/17 20:21	
40151848012	MW-75					
EPA 6010	Cadmium, Dissolved	2.0J	ug/L	5.0	06/20/17 20:24	

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: 34283.000 NPI

Pace Project No.: 40151848

Method: EPA 6010

Description: 6010 MET ICP, Dissolved

Client: Gannett Fleming Inc.

Date: June 23, 2017

General Information:

13 samples were analyzed for EPA 6010. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 34283.000 NPI

Pace Project No.: 40151848

Sample: EW-5 78' **Lab ID: 40151848001** Collected: 06/13/17 08:05 Received: 06/16/17 09:40 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, Dissolved									
Analytical Method: EPA 6010									
Cadmium, Dissolved	<1.3	ug/L	5.0	1.3	1		06/20/17 19:53	7440-43-9	

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ANALYTICAL RESULTS

Project: 34283.000 NPI

Pace Project No.: 40151848

Sample: EW-6 **Lab ID: 40151848002** Collected: 06/13/17 08:00 Received: 06/16/17 09:40 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, Dissolved									
Analytical Method: EPA 6010									
Cadmium, Dissolved	<1.3	ug/L	5.0	1.3	1		06/20/17 19:55	7440-43-9	

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ANALYTICAL RESULTS

Project: 34283.000 NPI

Pace Project No.: 40151848

Sample: MW-4A **Lab ID: 40151848003** Collected: 06/13/17 08:25 Received: 06/16/17 09:40 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, Dissolved									
Analytical Method: EPA 6010									
Cadmium, Dissolved	<1.3	ug/L	5.0	1.3	1		06/20/17 20:02	7440-43-9	

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ANALYTICAL RESULTS

Project: 34283.000 NPI

Pace Project No.: 40151848

Sample: MW-4B **Lab ID: 40151848004** Collected: 06/13/17 08:20 Received: 06/16/17 09:40 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, Dissolved									
Analytical Method: EPA 6010									
Cadmium, Dissolved	<1.3	ug/L	5.0	1.3	1		06/20/17 20:05	7440-43-9	

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ANALYTICAL RESULTS

Project: 34283.000 NPI

Pace Project No.: 40151848

Sample: MW-34A **Lab ID: 40151848005** Collected: 06/12/17 15:10 Received: 06/16/17 09:40 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, Dissolved									
Analytical Method: EPA 6010									
Cadmium, Dissolved	4.4J	ug/L	5.0	1.3	1		06/21/17 09:58	7440-43-9	

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ANALYTICAL RESULTS

Project: 34283.000 NPI

Pace Project No.: 40151848

Sample: MW-34B **Lab ID: 40151848006** Collected: 06/12/17 15:05 Received: 06/16/17 09:40 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, Dissolved									
Analytical Method: EPA 6010									
Cadmium, Dissolved	1.4J	ug/L	5.0	1.3	1		06/20/17 20:09	7440-43-9	

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ANALYTICAL RESULTS

Project: 34283.000 NPI

Pace Project No.: 40151848

Sample: MW-34C **Lab ID: 40151848007** Collected: 06/12/17 15:15 Received: 06/16/17 09:40 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, Dissolved	Analytical Method: EPA 6010								
Cadmium, Dissolved	<1.3	ug/L	5.0	1.3	1		06/20/17 20:12	7440-43-9	

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ANALYTICAL RESULTS

Project: 34283.000 NPI

Pace Project No.: 40151848

Sample: MW-68A **Lab ID: 40151848008** Collected: 06/12/17 15:55 Received: 06/16/17 09:40 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, Dissolved									
Analytical Method: EPA 6010									
Cadmium, Dissolved	<1.3	ug/L	5.0	1.3	1		06/20/17 20:14	7440-43-9	

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ANALYTICAL RESULTS

Project: 34283.000 NPI

Pace Project No.: 40151848

Sample: MW-68B **Lab ID: 40151848009** Collected: 06/12/17 16:00 Received: 06/16/17 09:40 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, Dissolved	Analytical Method: EPA 6010								
Cadmium, Dissolved	3.9J	ug/L	5.0	1.3	1		06/20/17 20:17	7440-43-9	

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ANALYTICAL RESULTS

Project: 34283.000 NPI

Pace Project No.: 40151848

Sample: MW-70A **Lab ID: 40151848010** Collected: 06/12/17 14:45 Received: 06/16/17 09:40 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, Dissolved									
Analytical Method: EPA 6010									
Cadmium, Dissolved	<1.3	ug/L	5.0	1.3	1		06/20/17 20:19	7440-43-9	

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ANALYTICAL RESULTS

Project: 34283.000 NPI

Pace Project No.: 40151848

Sample: MW-70B **Lab ID: 40151848011** Collected: 06/12/17 14:50 Received: 06/16/17 09:40 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, Dissolved									
Analytical Method: EPA 6010									
Cadmium, Dissolved	4.5J	ug/L	5.0	1.3	1		06/20/17 20:21	7440-43-9	

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ANALYTICAL RESULTS

Project: 34283.000 NPI

Pace Project No.: 40151848

Sample: MW-75 **Lab ID: 40151848012** Collected: 06/12/17 13:30 Received: 06/16/17 09:40 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, Dissolved	Analytical Method: EPA 6010								
Cadmium, Dissolved	2.0J	ug/L	5.0	1.3	1		06/20/17 20:24	7440-43-9	

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ANALYTICAL RESULTS

Project: 34283.000 NPI

Pace Project No.: 40151848

Sample: EW-5 88' **Lab ID: 40151848013** Collected: 06/12/17 08:05 Received: 06/16/17 09:40 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, Dissolved									
Analytical Method: EPA 6010									
Cadmium, Dissolved	<1.3	ug/L	5.0	1.3	1		06/20/17 20:31	7440-43-9	

REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: 34283.000 NPI

Pace Project No.: 40151848

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.

LABORATORIES

PASI-G Pace Analytical Services - Green Bay

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 34283.000 NPI

Pace Project No.: 40151848

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40151848001	EW-5 78'	EPA 6010	259200		
40151848002	EW-6	EPA 6010	259200		
40151848003	MW-4A	EPA 6010	259200		
40151848004	MW-4B	EPA 6010	259200		
40151848005	MW-34A	EPA 6010	259200		
40151848006	MW-34B	EPA 6010	259200		
40151848007	MW-34C	EPA 6010	259200		
40151848008	MW-68A	EPA 6010	259200		
40151848009	MW-68B	EPA 6010	259200		
40151848010	MW-70A	EPA 6010	259200		
40151848011	MW-70B	EPA 6010	259200		
40151848012	MW-75	EPA 6010	259200		
40151848013	EW-5 88'	EPA 6010	259200		

REPORT OF LABORATORY ANALYSIS

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(Please Print Clearly)

Company Name: Gannett Fleming
 Branch/Location: Madison, WI
 Project Contact: Cliff Wright
 Phone: 608-836-1500
 Project Number: 34283.000
 Project Name: NPI
 Project State: WI
 Sampled By (Print): Chelsea Payne
 Sampled By (Sign): Ch Payne
 PO #: _____ Regulatory Program: _____



UPPER MIDWEST REGION
 MN: 612-607-1700 WI: 920-469-2436

40157848

CHAIN OF CUSTODY

***Preservation Codes**
 A=None B=HCL C=H2SO4 D=HNO3 E=DI Water F=Methanol G=NaOH
 H=Sodium Bisulfate Solution I=Sodium Thiosulfate J=Other

FILTERED? (YES/NO)
 PRESERVATION (CODE)*

Y/N	Pick Letter	Analyses Requested	COLLECTION		MATRIX	
			DATE	TIME		
		Cadmium Cassive	6/13/17	8:05	GW	
				8:00		
				8:25		
				8:20		
				6/12/17	15:10	
				15:05		
				15:15		
				15:55		
				16:00		
				14:45		
				14:50		
				13:35		
				8:05		

Quote #: _____
 Mail To Contact: Cliff Wright
 Mail To Company: Gannett Fleming
 Mail To Address: 8025 Beards Rd. Madison, WI 53717
 Invoice To Contact: _____
 Invoice To Company: See mail to
 Invoice To Address: _____
 Invoice To Phone: 608-836-1500
 CLIENT COMMENTS: _____
 LAB COMMENTS (Lab Use Only): 1-250mlp^D
 Profile #: _____
50mL only
~50mL only
250mL only
50mL only
Please send copy of report to Mary Wenbe

Data Package Options (billable)
 EPA Level III
 EPA Level IV

MS/MSD
 On your sample (billable)
 NOT needed on your sample

Matrix Codes
 A = Air W = Water
 B = Biota DW = Drinking Water
 C = Charcoal GW = Ground Water
 O = Oil SW = Surface Water
 S = Soil WW = Waste Water
 SI = Sludge WP = Wipe

PACE LAB #	CLIENT FIELD ID	COLLECTION		MATRIX
		DATE	TIME	
001	EW-5 78'	6/13/17	8:05	GW
002	EW-6		8:00	
003	MW-4A		8:25	
004	MW-4B		8:20	
005	MW-34A	6/12/17	15:10	
006	MW-34B		15:05	
007	MW-34C		15:15	
008	MW-68A		15:55	
009	MW-68B		16:00	
010	MW-70A		14:45	
011	MW-70B		14:50	
012	MW-75		13:35	
013	EW-48'		8:05	

Rush Turnaround Time Requested - Prelims (Rush TAT subject to approval/surcharge)
 Date Needed: _____

Transmit Prelim Rush Results by (complete what you want): _____

Relinquished By: <u>Chelsea Payne</u> Date/Time: <u>6/15/17 12:00</u>	Received By: _____ Date/Time: _____	PACE Project No. <u>40157848</u> Receipt Temp: <u>ROT</u> °C Sample Receipt pH: <u>OK</u> / Adjusted Cooler Custody Seal Present: <u>Not Present</u> Intact / Not Intact
Relinquished By: <u>C. Loggins</u> Date/Time: <u>6-16-17 0940</u>	Received By: <u>Suzanne Wylke</u> Date/Time: <u>6-16-17 0940</u>	
Relinquished By: _____ Date/Time: _____	Received By: <u>Space</u> Date/Time: _____	
Relinquished By: _____ Date/Time: _____	Received By: _____ Date/Time: _____	
Relinquished By: _____ Date/Time: _____	Received By: _____ Date/Time: _____	

Samples on HOLD are subject to special pricing and release of liability

Sample Condition Upon Receipt

Pace Analytical Services, LLC. - Green Bay WI
1241 Bellevue Street, Suite 9
Green Bay, WI 54302



Project # **WO#: 40151848**

Client Name: Gannett Fleming
 Courier: Fed Ex UPS Client Pace Other: C Shogiste
 Tracking #: 216 0615 17



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: N/A /Corr: _____ Biological Tissue is Frozen: yes no
 Temp Blank Present: yes no

Person examining contents:
 Date: 6/16/17
 Initials: SW

Temp should be above freezing to 6°C.
 Biota Samples may be received at ≤ 0°C.

		Comments:
Chain of Custody Present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1.
Chain of Custody Filled Out:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	2.
Chain of Custody Relinquished:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	3.
Sampler Name & Signature on COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	4.
Samples Arrived within Hold Time:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	5.
- VOA Samples frozen upon receipt	<input type="checkbox"/> Yes <input type="checkbox"/> No	Date/Time:
Short Hold Time Analysis (<72hr):	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	6.
Rush Turn Around Time Requested:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	7.
Sufficient Volume:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	8.
Correct Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	9.
-Pace Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
-Pace IR Containers Used:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Containers Intact:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	10.
Filtered volume received for Dissolved tests	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	11.
Sample Labels match COC:	<input checked="" type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	12. <u>613 - time 3:10" ssu 6/16/17</u>
-Includes date/time/ID/Analysis Matrix:		
All containers needing preservation have been checked. (Non-Compliance noted in 13.)	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	13. <input checked="" type="checkbox"/> HNO3 <input type="checkbox"/> H2SO4 <input type="checkbox"/> NaOH <input type="checkbox"/> NaOH + ZnAct
All containers needing preservation are found to be in compliance with EPA recommendation.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
<u>HNO3</u> <u>H2SO4</u> <input checked="" type="checkbox"/> NaOH+ZnAct ≥9, NaOH ≥12		
exceptions: VOA, coliform, TOC, TOX, TOH, O&G, WIDROW, Phenolics, OTHER:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Initial when completed: <u>SW</u> Lab Std #/ID of preservative: _____ Date/Time: _____
Headspace in VOA Vials (>6mm):	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	14.
Trip Blank Present:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	15.
Trip Blank Custody Seals Present	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> 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: Rnw for DM Date: 6/16/17

From: Dan Milewsky
To: Clifford Wright
BC Dan.Milewsky@pacelabs.com
Date: 6/23/2017 8:35 AM
Subject: EW-88 sample

Cliff,

The sample labeled EW-88', collected 6/12/17 0805, will be reported as EW-5 88' as you requested during our phone conversation.

Dan Milewsky

Project Manager

Pace Analytical Services

6409 Odana Road

Madison, WI 53719

920.412-8566 (Direct/Cell) | [920.469.2436](tel:920.469.2436)

(Green Bay Lab) |

www.pacelabs.com

June 23, 2017

Project #34283.000
NPI Q2 GW
Reviewed by CCW
6/23/17

Clifford Wright
Gannett Fleming
8025 Excelsior Drive
Madison, WI 53717

RE: Project: 34283.000 NPI
Pace Project No.: 40151728

Dear Clifford Wright:

Enclosed are the analytical results for sample(s) received by the laboratory on June 15, 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.

Revised Report: The chain-of-custody was missing a page on the original version.

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

cc: Mary C. Wehbe, MCW Scientific Solutions



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: 34283.000 NPI

Pace Project No.: 40151728

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

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SAMPLE SUMMARY

Project: 34283.000 NPI

Pace Project No.: 40151728

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40151728001	EC-1	Water	06/14/17 09:45	06/15/17 09:55
40151728002	EC-2	Water	06/14/17 09:50	06/15/17 09:55
40151728003	EC-5	Water	06/14/17 09:55	06/15/17 09:55
40151728004	EC-6	Water	06/14/17 09:40	06/15/17 09:55
40151728005	MW-22B	Water	06/13/17 13:00	06/15/17 09:55
40151728006	MW-23A	Water	06/13/17 13:30	06/15/17 09:55
40151728007	MW-23B	Water	06/13/17 13:25	06/15/17 09:55
40151728008	MW-38A	Water	06/13/17 13:55	06/15/17 09:55
40151728009	MW-38B	Water	06/13/17 13:45	06/15/17 09:55
40151728010	MW-38C	Water	06/13/17 13:50	06/15/17 09:55
40151728011	RW-2A	Water	06/13/17 13:15	06/15/17 09:55
40151728012	RW-2B	Water	06/13/17 13:20	06/15/17 09:55
40151728013	RW-2C	Water	06/13/17 13:10	06/15/17 09:55
40151728014	RW-15	Water	06/13/17 13:35	06/15/17 09:55
40151728015	WW-15	Water	06/13/17 15:30	06/15/17 09:55
40151728016	MW-9A	Water	06/13/17 14:40	06/15/17 09:55
40151728017	MW-26A	Water	06/13/17 13:15	06/15/17 09:55
40151728018	MW-26B	Water	06/13/17 13:10	06/15/17 09:55
40151728019	MW-65A	Water	06/13/17 14:30	06/15/17 09:55
40151728020	MW-65B	Water	06/13/17 14:40	06/15/17 09:55
40151728021	MW-65C	Water	06/13/17 14:35	06/15/17 09:55
40151728022	MW-41A	Water	06/13/17 15:45	06/15/17 09:55
40151728023	MW-41B	Water	06/13/17 15:50	06/15/17 09:55
40151728024	MW-41B DUP	Water	06/13/17 00:00	06/15/17 09:55
40151728025	MW-35A	Water	06/14/17 07:55	06/15/17 09:55
40151728026	MW-35A DUP	Water	06/14/17 07:55	06/15/17 09:55
40151728027	MW-35B	Water	06/14/17 08:00	06/15/17 09:55
40151728028	MW-37B	Water	06/14/17 08:10	06/15/17 09:55
40151728029	MW-60A	Water	06/14/17 08:30	06/15/17 09:55
40151728030	MW-60B	Water	06/14/17 08:25	06/15/17 09:55
40151728031	MW-61A	Water	06/14/17 10:15	06/15/17 09:55
40151728032	MW-61A DUP	Water	06/14/17 10:15	06/15/17 09:55
40151728033	MW-61B	Water	06/14/17 10:10	06/15/17 09:55
40151728034	MW-61B DUP	Water	06/14/17 10:10	06/15/17 09:55
40151728035	RW-3A	Water	06/14/17 08:35	06/15/17 09:55
40151728036	RW-3B	Water	06/14/17 08:40	06/15/17 09:55
40151728037	RW-3C	Water	06/14/17 08:45	06/15/17 09:55

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SAMPLE SUMMARY

Project: 34283.000 NPI

Pace Project No.: 40151728

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40151728038	MW-10A	Water	06/12/17 14:40	06/15/17 09:55
40151728039	MW-10B	Water	06/12/17 14:30	06/15/17 09:55
40151728040	RW-2ADUP	Water	06/13/17 13:15	06/15/17 09:55
40151728041	MW-29B	Water	06/13/17 13:20	06/15/17 09:55
40151728042	TRIP BLANK	Water	06/13/17 00:00	06/15/17 09:55

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SAMPLE ANALYTE COUNT

Project: 34283.000 NPI
Pace Project No.: 40151728

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
40151728001	EC-1	EPA 8260	HNW	8	PASI-G
40151728002	EC-2	EPA 8260	HNW	8	PASI-G
40151728003	EC-5	EPA 8260	HNW	8	PASI-G
40151728004	EC-6	EPA 8260	HNW	8	PASI-G
40151728005	MW-22B	EPA 8260	HNW	8	PASI-G
40151728006	MW-23A	EPA 8260	HNW	8	PASI-G
40151728007	MW-23B	EPA 8260	HNW	8	PASI-G
40151728008	MW-38A	EPA 8260	HNW	8	PASI-G
40151728009	MW-38B	EPA 8260	HNW	8	PASI-G
40151728010	MW-38C	EPA 8260	HNW	8	PASI-G
40151728011	RW-2A	EPA 8260	HNW	8	PASI-G
40151728012	RW-2B	EPA 8260	HNW	8	PASI-G
40151728013	RW-2C	EPA 8260	HNW	8	PASI-G
40151728014	RW-15	EPA 8260	HNW	8	PASI-G
40151728015	WW-15	EPA 8260	HNW	8	PASI-G
40151728016	MW-9A	EPA 8260	HNW	8	PASI-G
40151728017	MW-26A	EPA 8260	HNW	8	PASI-G
40151728018	MW-26B	EPA 8260	HNW	8	PASI-G
40151728019	MW-65A	EPA 8260	HNW	8	PASI-G
40151728020	MW-65B	EPA 8260	HNW	8	PASI-G
40151728021	MW-65C	EPA 8260	MDS	8	PASI-G
40151728022	MW-41A	EPA 8260	MDS	8	PASI-G
40151728023	MW-41B	EPA 8260	MDS	8	PASI-G
40151728024	MW-41B DUP	EPA 8260	MDS	8	PASI-G
40151728025	MW-35A	EPA 8260	MDS	8	PASI-G
40151728026	MW-35A DUP	EPA 8260	MDS	8	PASI-G
40151728027	MW-35B	EPA 8260	MDS	8	PASI-G
40151728028	MW-37B	EPA 8260	MDS	8	PASI-G
40151728029	MW-60A	EPA 8260	MDS	8	PASI-G
40151728030	MW-60B	EPA 8260	MDS	8	PASI-G
40151728031	MW-61A	EPA 8260	MDS	8	PASI-G
40151728032	MW-61A DUP	EPA 8260	MDS	8	PASI-G
40151728033	MW-61B	EPA 8260	MDS	8	PASI-G
40151728034	MW-61B DUP	EPA 8260	MDS	8	PASI-G
40151728035	RW-3A	EPA 8260	MDS	8	PASI-G
40151728036	RW-3B	EPA 8260	MDS	8	PASI-G
40151728037	RW-3C	EPA 8260	MDS	8	PASI-G

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SAMPLE ANALYTE COUNT

Project: 34283.000 NPI

Pace Project No.: 40151728

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
40151728038	MW-10A	EPA 6010	DLB	1	PASI-G
40151728039	MW-10B	EPA 6010	DLB	1	PASI-G
40151728040	RW-2ADUP	EPA 8260	MDS	8	PASI-G
40151728041	MW-29B	EPA 8260	MDS	8	PASI-G
40151728042	TRIP BLANK	EPA 8260	MDS	8	PASI-G

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SUMMARY OF DETECTION

Project: 34283.000 NPI
Pace Project No.: 40151728

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
40151728001	EC-1					
EPA 8260	Trichloroethene	0.88J	ug/L	1.0	06/19/17 19:35	
40151728006	MW-23A					
EPA 8260	Trichloroethene	1.2	ug/L	1.0	06/19/17 21:28	
40151728007	MW-23B					
EPA 8260	Trichloroethene	2.1	ug/L	1.0	06/19/17 21:51	
40151728008	MW-38A					
EPA 8260	Trichloroethene	2.0	ug/L	1.0	06/19/17 22:13	
40151728009	MW-38B					
EPA 8260	1,1,1-Trichloroethane	0.60J	ug/L	1.0	06/19/17 19:12	
EPA 8260	Trichloroethene	3.7	ug/L	1.0	06/19/17 19:12	
40151728010	MW-38C					
EPA 8260	Trichloroethene	1.4	ug/L	1.0	06/19/17 22:36	
40151728011	RW-2A					
EPA 8260	Trichloroethene	1.1	ug/L	1.0	06/19/17 22:58	
40151728012	RW-2B					
EPA 8260	Trichloroethene	2.2	ug/L	1.0	06/19/17 23:21	
40151728013	RW-2C					
EPA 8260	Trichloroethene	1.7	ug/L	1.0	06/19/17 23:44	
40151728014	RW-15					
EPA 8260	Trichloroethene	4.4	ug/L	1.0	06/20/17 00:06	
40151728015	WW-15					
EPA 8260	Trichloroethene	1.0	ug/L	1.0	06/20/17 00:29	
40151728018	MW-26B					
EPA 8260	Trichloroethene	0.37J	ug/L	1.0	06/20/17 01:37	
40151728021	MW-65C					
EPA 8260	Trichloroethene	0.63J	ug/L	1.0	06/19/17 22:01	
40151728022	MW-41A					
EPA 8260	Trichloroethene	2.5	ug/L	1.0	06/20/17 02:07	
40151728023	MW-41B					
EPA 8260	Trichloroethene	2.2	ug/L	1.0	06/20/17 02:29	
40151728024	MW-41B DUP					
EPA 8260	Trichloroethene	2.5	ug/L	1.0	06/20/17 02:51	
40151728025	MW-35A					
EPA 8260	1,1,1-Trichloroethane	0.68J	ug/L	1.0	06/20/17 03:14	
EPA 8260	Trichloroethene	2.0	ug/L	1.0	06/20/17 03:14	

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SUMMARY OF DETECTION

Project: 34283.000 NPI

Pace Project No.: 40151728

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
40151728026	MW-35A DUP					
EPA 8260	1,1,1-Trichloroethane	0.62J	ug/L	1.0	06/20/17 03:36	
EPA 8260	Trichloroethene	1.7	ug/L	1.0	06/20/17 03:36	
40151728027	MW-35B					
EPA 8260	Trichloroethene	1.3	ug/L	1.0	06/20/17 03:59	
40151728033	MW-61B					
EPA 8260	Trichloroethene	0.35J	ug/L	1.0	06/19/17 23:30	
40151728034	MW-61B DUP					
EPA 8260	Trichloroethene	0.52J	ug/L	1.0	06/19/17 23:53	
40151728035	RW-3A					
EPA 8260	Trichloroethene	2.2	ug/L	1.0	06/20/17 00:15	
40151728036	RW-3B					
EPA 8260	Trichloroethene	3.6	ug/L	1.0	06/20/17 00:38	
40151728037	RW-3C					
EPA 8260	Trichloroethene	3.4	ug/L	1.0	06/20/17 01:00	
40151728038	MW-10A					
EPA 6010	Cadmium, Dissolved	17.4	ug/L	5.0	06/20/17 19:41	
40151728039	MW-10B					
EPA 6010	Cadmium, Dissolved	3.6J	ug/L	5.0	06/20/17 19:48	
40151728040	RW-2ADUP					
EPA 8260	Trichloroethene	1.1	ug/L	1.0	06/20/17 01:22	

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PROJECT NARRATIVE

Project: 34283.000 NPI
Pace Project No.: 40151728

Method: EPA 6010
Description: 6010 MET ICP, Dissolved
Client: Gannett Fleming Inc.
Date: June 23, 2017

General Information:

2 samples were analyzed for EPA 6010. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: 34283.000 NPI
Pace Project No.: 40151728

Method: EPA 8260
Description: 8260 MSV
Client: Gannett Fleming Inc.
Date: June 23, 2017

General Information:

40 samples were analyzed for EPA 8260. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

Internal Standards:

All internal standards were within QC limits with any exceptions noted below.

Surrogates:

All surrogates were within QC limits with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 34283.000 NPI

Pace Project No.: 40151728

Sample: EC-1 **Lab ID: 40151728001** Collected: 06/14/17 09:45 Received: 06/15/17 09:55 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260							
1,1,1-Trichloroethane	<0.50	ug/L	1.0	0.50	1		06/19/17 19:35	71-55-6	
1,1-Dichloroethane	<0.24	ug/L	1.0	0.24	1		06/19/17 19:35	75-34-3	
1,1-Dichloroethene	<0.41	ug/L	1.0	0.41	1		06/19/17 19:35	75-35-4	
Tetrachloroethene	<0.50	ug/L	1.0	0.50	1		06/19/17 19:35	127-18-4	
Trichloroethene	0.88J	ug/L	1.0	0.33	1		06/19/17 19:35	79-01-6	
Surrogates									
4-Bromofluorobenzene (S)	103	%	61-130		1		06/19/17 19:35	460-00-4	
Dibromofluoromethane (S)	111	%	67-130		1		06/19/17 19:35	1868-53-7	
Toluene-d8 (S)	98	%	70-130		1		06/19/17 19:35	2037-26-5	

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ANALYTICAL RESULTS

Project: 34283.000 NPI

Pace Project No.: 40151728

Sample: EC-2 **Lab ID: 40151728002** Collected: 06/14/17 09:50 Received: 06/15/17 09:55 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260							
1,1,1-Trichloroethane	<0.50	ug/L	1.0	0.50	1		06/19/17 19:57	71-55-6	
1,1-Dichloroethane	<0.24	ug/L	1.0	0.24	1		06/19/17 19:57	75-34-3	
1,1-Dichloroethene	<0.41	ug/L	1.0	0.41	1		06/19/17 19:57	75-35-4	
Tetrachloroethene	<0.50	ug/L	1.0	0.50	1		06/19/17 19:57	127-18-4	
Trichloroethene	<0.33	ug/L	1.0	0.33	1		06/19/17 19:57	79-01-6	
Surrogates									
4-Bromofluorobenzene (S)	103	%	61-130		1		06/19/17 19:57	460-00-4	
Dibromofluoromethane (S)	113	%	67-130		1		06/19/17 19:57	1868-53-7	
Toluene-d8 (S)	99	%	70-130		1		06/19/17 19:57	2037-26-5	

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ANALYTICAL RESULTS

Project: 34283.000 NPI

Pace Project No.: 40151728

Sample: EC-5 **Lab ID: 40151728003** Collected: 06/14/17 09:55 Received: 06/15/17 09:55 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260							
1,1,1-Trichloroethane	<0.50	ug/L	1.0	0.50	1		06/19/17 20:20	71-55-6	
1,1-Dichloroethane	<0.24	ug/L	1.0	0.24	1		06/19/17 20:20	75-34-3	
1,1-Dichloroethene	<0.41	ug/L	1.0	0.41	1		06/19/17 20:20	75-35-4	
Tetrachloroethene	<0.50	ug/L	1.0	0.50	1		06/19/17 20:20	127-18-4	
Trichloroethene	<0.33	ug/L	1.0	0.33	1		06/19/17 20:20	79-01-6	
Surrogates									
4-Bromofluorobenzene (S)	111	%	61-130		1		06/19/17 20:20	460-00-4	
Dibromofluoromethane (S)	111	%	67-130		1		06/19/17 20:20	1868-53-7	
Toluene-d8 (S)	98	%	70-130		1		06/19/17 20:20	2037-26-5	

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ANALYTICAL RESULTS

Project: 34283.000 NPI

Pace Project No.: 40151728

Sample: EC-6 **Lab ID: 40151728004** Collected: 06/14/17 09:40 Received: 06/15/17 09:55 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260							
1,1,1-Trichloroethane	<0.50	ug/L	1.0	0.50	1		06/19/17 20:43	71-55-6	
1,1-Dichloroethane	<0.24	ug/L	1.0	0.24	1		06/19/17 20:43	75-34-3	
1,1-Dichloroethene	<0.41	ug/L	1.0	0.41	1		06/19/17 20:43	75-35-4	
Tetrachloroethene	<0.50	ug/L	1.0	0.50	1		06/19/17 20:43	127-18-4	
Trichloroethene	<0.33	ug/L	1.0	0.33	1		06/19/17 20:43	79-01-6	
Surrogates									
4-Bromofluorobenzene (S)	103	%	61-130		1		06/19/17 20:43	460-00-4	
Dibromofluoromethane (S)	111	%	67-130		1		06/19/17 20:43	1868-53-7	
Toluene-d8 (S)	98	%	70-130		1		06/19/17 20:43	2037-26-5	

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ANALYTICAL RESULTS

Project: 34283.000 NPI

Pace Project No.: 40151728

Sample: MW-22B **Lab ID: 40151728005** Collected: 06/13/17 13:00 Received: 06/15/17 09:55 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260							
1,1,1-Trichloroethane	<0.50	ug/L	1.0	0.50	1		06/19/17 21:05	71-55-6	
1,1-Dichloroethane	<0.24	ug/L	1.0	0.24	1		06/19/17 21:05	75-34-3	
1,1-Dichloroethene	<0.41	ug/L	1.0	0.41	1		06/19/17 21:05	75-35-4	
Tetrachloroethene	<0.50	ug/L	1.0	0.50	1		06/19/17 21:05	127-18-4	
Trichloroethene	<0.33	ug/L	1.0	0.33	1		06/19/17 21:05	79-01-6	
Surrogates									
4-Bromofluorobenzene (S)	104	%	61-130		1		06/19/17 21:05	460-00-4	
Dibromofluoromethane (S)	114	%	67-130		1		06/19/17 21:05	1868-53-7	
Toluene-d8 (S)	99	%	70-130		1		06/19/17 21:05	2037-26-5	

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ANALYTICAL RESULTS

Project: 34283.000 NPI

Pace Project No.: 40151728

Sample: MW-23A **Lab ID: 40151728006** Collected: 06/13/17 13:30 Received: 06/15/17 09:55 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260							
1,1,1-Trichloroethane	<0.50	ug/L	1.0	0.50	1		06/19/17 21:28	71-55-6	
1,1-Dichloroethane	<0.24	ug/L	1.0	0.24	1		06/19/17 21:28	75-34-3	
1,1-Dichloroethene	<0.41	ug/L	1.0	0.41	1		06/19/17 21:28	75-35-4	
Tetrachloroethene	<0.50	ug/L	1.0	0.50	1		06/19/17 21:28	127-18-4	
Trichloroethene	1.2	ug/L	1.0	0.33	1		06/19/17 21:28	79-01-6	
Surrogates									
4-Bromofluorobenzene (S)	102	%	61-130		1		06/19/17 21:28	460-00-4	
Dibromofluoromethane (S)	112	%	67-130		1		06/19/17 21:28	1868-53-7	
Toluene-d8 (S)	98	%	70-130		1		06/19/17 21:28	2037-26-5	

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ANALYTICAL RESULTS

Project: 34283.000 NPI

Pace Project No.: 40151728

Sample: MW-23B **Lab ID: 40151728007** Collected: 06/13/17 13:25 Received: 06/15/17 09:55 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260							
1,1,1-Trichloroethane	<0.50	ug/L	1.0	0.50	1		06/19/17 21:51	71-55-6	
1,1-Dichloroethane	<0.24	ug/L	1.0	0.24	1		06/19/17 21:51	75-34-3	
1,1-Dichloroethene	<0.41	ug/L	1.0	0.41	1		06/19/17 21:51	75-35-4	
Tetrachloroethene	<0.50	ug/L	1.0	0.50	1		06/19/17 21:51	127-18-4	
Trichloroethene	2.1	ug/L	1.0	0.33	1		06/19/17 21:51	79-01-6	
Surrogates									
4-Bromofluorobenzene (S)	104	%	61-130		1		06/19/17 21:51	460-00-4	
Dibromofluoromethane (S)	112	%	67-130		1		06/19/17 21:51	1868-53-7	
Toluene-d8 (S)	97	%	70-130		1		06/19/17 21:51	2037-26-5	

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ANALYTICAL RESULTS

Project: 34283.000 NPI

Pace Project No.: 40151728

Sample: MW-38A **Lab ID: 40151728008** Collected: 06/13/17 13:55 Received: 06/15/17 09:55 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260							
1,1,1-Trichloroethane	<0.50	ug/L	1.0	0.50	1		06/19/17 22:13	71-55-6	
1,1-Dichloroethane	<0.24	ug/L	1.0	0.24	1		06/19/17 22:13	75-34-3	
1,1-Dichloroethene	<0.41	ug/L	1.0	0.41	1		06/19/17 22:13	75-35-4	
Tetrachloroethene	<0.50	ug/L	1.0	0.50	1		06/19/17 22:13	127-18-4	
Trichloroethene	2.0	ug/L	1.0	0.33	1		06/19/17 22:13	79-01-6	
Surrogates									
4-Bromofluorobenzene (S)	106	%	61-130		1		06/19/17 22:13	460-00-4	
Dibromofluoromethane (S)	115	%	67-130		1		06/19/17 22:13	1868-53-7	
Toluene-d8 (S)	95	%	70-130		1		06/19/17 22:13	2037-26-5	

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ANALYTICAL RESULTS

Project: 34283.000 NPI

Pace Project No.: 40151728

Sample: MW-38B **Lab ID: 40151728009** Collected: 06/13/17 13:45 Received: 06/15/17 09:55 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260							
1,1,1-Trichloroethane	0.60J	ug/L	1.0	0.50	1		06/19/17 19:12	71-55-6	
1,1-Dichloroethane	<0.24	ug/L	1.0	0.24	1		06/19/17 19:12	75-34-3	
1,1-Dichloroethene	<0.41	ug/L	1.0	0.41	1		06/19/17 19:12	75-35-4	
Tetrachloroethene	<0.50	ug/L	1.0	0.50	1		06/19/17 19:12	127-18-4	
Trichloroethene	3.7	ug/L	1.0	0.33	1		06/19/17 19:12	79-01-6	
Surrogates									
4-Bromofluorobenzene (S)	108	%	61-130		1		06/19/17 19:12	460-00-4	
Dibromofluoromethane (S)	112	%	67-130		1		06/19/17 19:12	1868-53-7	
Toluene-d8 (S)	99	%	70-130		1		06/19/17 19:12	2037-26-5	

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ANALYTICAL RESULTS

Project: 34283.000 NPI

Pace Project No.: 40151728

Sample: MW-38C **Lab ID: 40151728010** Collected: 06/13/17 13:50 Received: 06/15/17 09:55 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260							
1,1,1-Trichloroethane	<0.50	ug/L	1.0	0.50	1		06/19/17 22:36	71-55-6	
1,1-Dichloroethane	<0.24	ug/L	1.0	0.24	1		06/19/17 22:36	75-34-3	
1,1-Dichloroethene	<0.41	ug/L	1.0	0.41	1		06/19/17 22:36	75-35-4	
Tetrachloroethene	<0.50	ug/L	1.0	0.50	1		06/19/17 22:36	127-18-4	
Trichloroethene	1.4	ug/L	1.0	0.33	1		06/19/17 22:36	79-01-6	
Surrogates									
4-Bromofluorobenzene (S)	103	%	61-130		1		06/19/17 22:36	460-00-4	
Dibromofluoromethane (S)	115	%	67-130		1		06/19/17 22:36	1868-53-7	
Toluene-d8 (S)	98	%	70-130		1		06/19/17 22:36	2037-26-5	

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ANALYTICAL RESULTS

Project: 34283.000 NPI

Pace Project No.: 40151728

Sample: RW-2A **Lab ID: 40151728011** Collected: 06/13/17 13:15 Received: 06/15/17 09:55 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260							
1,1,1-Trichloroethane	<0.50	ug/L	1.0	0.50	1		06/19/17 22:58	71-55-6	
1,1-Dichloroethane	<0.24	ug/L	1.0	0.24	1		06/19/17 22:58	75-34-3	
1,1-Dichloroethene	<0.41	ug/L	1.0	0.41	1		06/19/17 22:58	75-35-4	
Tetrachloroethene	<0.50	ug/L	1.0	0.50	1		06/19/17 22:58	127-18-4	
Trichloroethene	1.1	ug/L	1.0	0.33	1		06/19/17 22:58	79-01-6	
Surrogates									
4-Bromofluorobenzene (S)	106	%	61-130		1		06/19/17 22:58	460-00-4	
Dibromofluoromethane (S)	118	%	67-130		1		06/19/17 22:58	1868-53-7	
Toluene-d8 (S)	97	%	70-130		1		06/19/17 22:58	2037-26-5	

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ANALYTICAL RESULTS

Project: 34283.000 NPI

Pace Project No.: 40151728

Sample: RW-2B **Lab ID: 40151728012** Collected: 06/13/17 13:20 Received: 06/15/17 09:55 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260							
1,1,1-Trichloroethane	<0.50	ug/L	1.0	0.50	1		06/19/17 23:21	71-55-6	
1,1-Dichloroethane	<0.24	ug/L	1.0	0.24	1		06/19/17 23:21	75-34-3	
1,1-Dichloroethene	<0.41	ug/L	1.0	0.41	1		06/19/17 23:21	75-35-4	
Tetrachloroethene	<0.50	ug/L	1.0	0.50	1		06/19/17 23:21	127-18-4	
Trichloroethene	2.2	ug/L	1.0	0.33	1		06/19/17 23:21	79-01-6	
Surrogates									
4-Bromofluorobenzene (S)	101	%	61-130		1		06/19/17 23:21	460-00-4	
Dibromofluoromethane (S)	113	%	67-130		1		06/19/17 23:21	1868-53-7	
Toluene-d8 (S)	96	%	70-130		1		06/19/17 23:21	2037-26-5	

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ANALYTICAL RESULTS

Project: 34283.000 NPI

Pace Project No.: 40151728

Sample: RW-2C **Lab ID: 40151728013** Collected: 06/13/17 13:10 Received: 06/15/17 09:55 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260							
1,1,1-Trichloroethane	<0.50	ug/L	1.0	0.50	1		06/19/17 23:44	71-55-6	
1,1-Dichloroethane	<0.24	ug/L	1.0	0.24	1		06/19/17 23:44	75-34-3	
1,1-Dichloroethene	<0.41	ug/L	1.0	0.41	1		06/19/17 23:44	75-35-4	
Tetrachloroethene	<0.50	ug/L	1.0	0.50	1		06/19/17 23:44	127-18-4	
Trichloroethene	1.7	ug/L	1.0	0.33	1		06/19/17 23:44	79-01-6	
Surrogates									
4-Bromofluorobenzene (S)	104	%	61-130		1		06/19/17 23:44	460-00-4	
Dibromofluoromethane (S)	114	%	67-130		1		06/19/17 23:44	1868-53-7	
Toluene-d8 (S)	97	%	70-130		1		06/19/17 23:44	2037-26-5	

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ANALYTICAL RESULTS

Project: 34283.000 NPI

Pace Project No.: 40151728

Sample: RW-15 **Lab ID: 40151728014** Collected: 06/13/17 13:35 Received: 06/15/17 09:55 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260							
1,1,1-Trichloroethane	<0.50	ug/L	1.0	0.50	1		06/20/17 00:06	71-55-6	
1,1-Dichloroethane	<0.24	ug/L	1.0	0.24	1		06/20/17 00:06	75-34-3	
1,1-Dichloroethene	<0.41	ug/L	1.0	0.41	1		06/20/17 00:06	75-35-4	
Tetrachloroethene	<0.50	ug/L	1.0	0.50	1		06/20/17 00:06	127-18-4	
Trichloroethene	4.4	ug/L	1.0	0.33	1		06/20/17 00:06	79-01-6	
Surrogates									
4-Bromofluorobenzene (S)	101	%	61-130		1		06/20/17 00:06	460-00-4	
Dibromofluoromethane (S)	112	%	67-130		1		06/20/17 00:06	1868-53-7	
Toluene-d8 (S)	96	%	70-130		1		06/20/17 00:06	2037-26-5	

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ANALYTICAL RESULTS

Project: 34283.000 NPI

Pace Project No.: 40151728

Sample: WW-15 **Lab ID: 40151728015** Collected: 06/13/17 15:30 Received: 06/15/17 09:55 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260							
1,1,1-Trichloroethane	<0.50	ug/L	1.0	0.50	1		06/20/17 00:29	71-55-6	
1,1-Dichloroethane	<0.24	ug/L	1.0	0.24	1		06/20/17 00:29	75-34-3	
1,1-Dichloroethene	<0.41	ug/L	1.0	0.41	1		06/20/17 00:29	75-35-4	
Tetrachloroethene	<0.50	ug/L	1.0	0.50	1		06/20/17 00:29	127-18-4	
Trichloroethene	1.0	ug/L	1.0	0.33	1		06/20/17 00:29	79-01-6	
Surrogates									
4-Bromofluorobenzene (S)	109	%	61-130		1		06/20/17 00:29	460-00-4	
Dibromofluoromethane (S)	114	%	67-130		1		06/20/17 00:29	1868-53-7	
Toluene-d8 (S)	97	%	70-130		1		06/20/17 00:29	2037-26-5	

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ANALYTICAL RESULTS

Project: 34283.000 NPI

Pace Project No.: 40151728

Sample: MW-9A **Lab ID: 40151728016** Collected: 06/13/17 14:40 Received: 06/15/17 09:55 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260							
1,1,1-Trichloroethane	<0.50	ug/L	1.0	0.50	1		06/20/17 00:52	71-55-6	
1,1-Dichloroethane	<0.24	ug/L	1.0	0.24	1		06/20/17 00:52	75-34-3	
1,1-Dichloroethene	<0.41	ug/L	1.0	0.41	1		06/20/17 00:52	75-35-4	
Tetrachloroethene	<0.50	ug/L	1.0	0.50	1		06/20/17 00:52	127-18-4	
Trichloroethene	<0.33	ug/L	1.0	0.33	1		06/20/17 00:52	79-01-6	
Surrogates									
4-Bromofluorobenzene (S)	105	%	61-130		1		06/20/17 00:52	460-00-4	
Dibromofluoromethane (S)	117	%	67-130		1		06/20/17 00:52	1868-53-7	
Toluene-d8 (S)	98	%	70-130		1		06/20/17 00:52	2037-26-5	

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ANALYTICAL RESULTS

Project: 34283.000 NPI

Pace Project No.: 40151728

Sample: MW-26A **Lab ID: 40151728017** Collected: 06/13/17 13:15 Received: 06/15/17 09:55 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260							
1,1,1-Trichloroethane	<0.50	ug/L	1.0	0.50	1		06/20/17 01:14	71-55-6	
1,1-Dichloroethane	<0.24	ug/L	1.0	0.24	1		06/20/17 01:14	75-34-3	
1,1-Dichloroethene	<0.41	ug/L	1.0	0.41	1		06/20/17 01:14	75-35-4	
Tetrachloroethene	<0.50	ug/L	1.0	0.50	1		06/20/17 01:14	127-18-4	
Trichloroethene	<0.33	ug/L	1.0	0.33	1		06/20/17 01:14	79-01-6	
Surrogates									
4-Bromofluorobenzene (S)	114	%	61-130		1		06/20/17 01:14	460-00-4	
Dibromofluoromethane (S)	116	%	67-130		1		06/20/17 01:14	1868-53-7	
Toluene-d8 (S)	91	%	70-130		1		06/20/17 01:14	2037-26-5	

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ANALYTICAL RESULTS

Project: 34283.000 NPI

Pace Project No.: 40151728

Sample: MW-26B **Lab ID: 40151728018** Collected: 06/13/17 13:10 Received: 06/15/17 09:55 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260							
1,1,1-Trichloroethane	<0.50	ug/L	1.0	0.50	1		06/20/17 01:37	71-55-6	
1,1-Dichloroethane	<0.24	ug/L	1.0	0.24	1		06/20/17 01:37	75-34-3	
1,1-Dichloroethene	<0.41	ug/L	1.0	0.41	1		06/20/17 01:37	75-35-4	
Tetrachloroethene	<0.50	ug/L	1.0	0.50	1		06/20/17 01:37	127-18-4	
Trichloroethene	0.37J	ug/L	1.0	0.33	1		06/20/17 01:37	79-01-6	
Surrogates									
4-Bromofluorobenzene (S)	114	%	61-130		1		06/20/17 01:37	460-00-4	
Dibromofluoromethane (S)	119	%	67-130		1		06/20/17 01:37	1868-53-7	
Toluene-d8 (S)	92	%	70-130		1		06/20/17 01:37	2037-26-5	

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ANALYTICAL RESULTS

Project: 34283.000 NPI

Pace Project No.: 40151728

Sample: MW-65A **Lab ID: 40151728019** Collected: 06/13/17 14:30 Received: 06/15/17 09:55 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260							
1,1,1-Trichloroethane	<0.50	ug/L	1.0	0.50	1		06/20/17 02:00	71-55-6	
1,1-Dichloroethane	<0.24	ug/L	1.0	0.24	1		06/20/17 02:00	75-34-3	
1,1-Dichloroethene	<0.41	ug/L	1.0	0.41	1		06/20/17 02:00	75-35-4	
Tetrachloroethene	<0.50	ug/L	1.0	0.50	1		06/20/17 02:00	127-18-4	
Trichloroethene	<0.33	ug/L	1.0	0.33	1		06/20/17 02:00	79-01-6	
Surrogates									
4-Bromofluorobenzene (S)	110	%	61-130		1		06/20/17 02:00	460-00-4	
Dibromofluoromethane (S)	118	%	67-130		1		06/20/17 02:00	1868-53-7	
Toluene-d8 (S)	95	%	70-130		1		06/20/17 02:00	2037-26-5	

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ANALYTICAL RESULTS

Project: 34283.000 NPI

Pace Project No.: 40151728

Sample: MW-65B **Lab ID: 40151728020** Collected: 06/13/17 14:40 Received: 06/15/17 09:55 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260							
1,1,1-Trichloroethane	<0.50	ug/L	1.0	0.50	1		06/20/17 02:22	71-55-6	
1,1-Dichloroethane	<0.24	ug/L	1.0	0.24	1		06/20/17 02:22	75-34-3	
1,1-Dichloroethene	<0.41	ug/L	1.0	0.41	1		06/20/17 02:22	75-35-4	
Tetrachloroethene	<0.50	ug/L	1.0	0.50	1		06/20/17 02:22	127-18-4	
Trichloroethene	<0.33	ug/L	1.0	0.33	1		06/20/17 02:22	79-01-6	
Surrogates									
4-Bromofluorobenzene (S)	109	%	61-130		1		06/20/17 02:22	460-00-4	
Dibromofluoromethane (S)	118	%	67-130		1		06/20/17 02:22	1868-53-7	
Toluene-d8 (S)	89	%	70-130		1		06/20/17 02:22	2037-26-5	

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ANALYTICAL RESULTS

Project: 34283.000 NPI

Pace Project No.: 40151728

Sample: MW-65C **Lab ID: 40151728021** Collected: 06/13/17 14:35 Received: 06/15/17 09:55 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260							
1,1,1-Trichloroethane	<0.50	ug/L	1.0	0.50	1		06/19/17 22:01	71-55-6	
1,1-Dichloroethane	<0.24	ug/L	1.0	0.24	1		06/19/17 22:01	75-34-3	
1,1-Dichloroethene	<0.41	ug/L	1.0	0.41	1		06/19/17 22:01	75-35-4	
Tetrachloroethene	<0.50	ug/L	1.0	0.50	1		06/19/17 22:01	127-18-4	
Trichloroethene	0.63J	ug/L	1.0	0.33	1		06/19/17 22:01	79-01-6	
Surrogates									
4-Bromofluorobenzene (S)	91	%	61-130		1		06/19/17 22:01	460-00-4	
Dibromofluoromethane (S)	99	%	67-130		1		06/19/17 22:01	1868-53-7	
Toluene-d8 (S)	93	%	70-130		1		06/19/17 22:01	2037-26-5	

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ANALYTICAL RESULTS

Project: 34283.000 NPI

Pace Project No.: 40151728

Sample: MW-41A **Lab ID: 40151728022** Collected: 06/13/17 15:45 Received: 06/15/17 09:55 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260							
1,1,1-Trichloroethane	<0.50	ug/L	1.0	0.50	1		06/20/17 02:07	71-55-6	
1,1-Dichloroethane	<0.24	ug/L	1.0	0.24	1		06/20/17 02:07	75-34-3	
1,1-Dichloroethene	<0.41	ug/L	1.0	0.41	1		06/20/17 02:07	75-35-4	
Tetrachloroethene	<0.50	ug/L	1.0	0.50	1		06/20/17 02:07	127-18-4	
Trichloroethene	2.5	ug/L	1.0	0.33	1		06/20/17 02:07	79-01-6	
Surrogates									
4-Bromofluorobenzene (S)	90	%	61-130		1		06/20/17 02:07	460-00-4	
Dibromofluoromethane (S)	101	%	67-130		1		06/20/17 02:07	1868-53-7	
Toluene-d8 (S)	93	%	70-130		1		06/20/17 02:07	2037-26-5	

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ANALYTICAL RESULTS

Project: 34283.000 NPI

Pace Project No.: 40151728

Sample: MW-41B **Lab ID: 40151728023** Collected: 06/13/17 15:50 Received: 06/15/17 09:55 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260							
1,1,1-Trichloroethane	<0.50	ug/L	1.0	0.50	1		06/20/17 02:29	71-55-6	
1,1-Dichloroethane	<0.24	ug/L	1.0	0.24	1		06/20/17 02:29	75-34-3	
1,1-Dichloroethene	<0.41	ug/L	1.0	0.41	1		06/20/17 02:29	75-35-4	
Tetrachloroethene	<0.50	ug/L	1.0	0.50	1		06/20/17 02:29	127-18-4	
Trichloroethene	2.2	ug/L	1.0	0.33	1		06/20/17 02:29	79-01-6	
Surrogates									
4-Bromofluorobenzene (S)	88	%	61-130		1		06/20/17 02:29	460-00-4	
Dibromofluoromethane (S)	98	%	67-130		1		06/20/17 02:29	1868-53-7	
Toluene-d8 (S)	94	%	70-130		1		06/20/17 02:29	2037-26-5	

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ANALYTICAL RESULTS

Project: 34283.000 NPI

Pace Project No.: 40151728

Sample: MW-41B DUP **Lab ID: 40151728024** Collected: 06/13/17 00:00 Received: 06/15/17 09:55 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260							
1,1,1-Trichloroethane	<0.50	ug/L	1.0	0.50	1		06/20/17 02:51	71-55-6	
1,1-Dichloroethane	<0.24	ug/L	1.0	0.24	1		06/20/17 02:51	75-34-3	
1,1-Dichloroethene	<0.41	ug/L	1.0	0.41	1		06/20/17 02:51	75-35-4	
Tetrachloroethene	<0.50	ug/L	1.0	0.50	1		06/20/17 02:51	127-18-4	
Trichloroethene	2.5	ug/L	1.0	0.33	1		06/20/17 02:51	79-01-6	
Surrogates									
4-Bromofluorobenzene (S)	92	%	61-130		1		06/20/17 02:51	460-00-4	
Dibromofluoromethane (S)	97	%	67-130		1		06/20/17 02:51	1868-53-7	
Toluene-d8 (S)	95	%	70-130		1		06/20/17 02:51	2037-26-5	

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ANALYTICAL RESULTS

Project: 34283.000 NPI

Pace Project No.: 40151728

Sample: MW-35A **Lab ID: 40151728025** Collected: 06/14/17 07:55 Received: 06/15/17 09:55 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260							
1,1,1-Trichloroethane	0.68J	ug/L	1.0	0.50	1		06/20/17 03:14	71-55-6	
1,1-Dichloroethane	<0.24	ug/L	1.0	0.24	1		06/20/17 03:14	75-34-3	
1,1-Dichloroethene	<0.41	ug/L	1.0	0.41	1		06/20/17 03:14	75-35-4	
Tetrachloroethene	<0.50	ug/L	1.0	0.50	1		06/20/17 03:14	127-18-4	
Trichloroethene	2.0	ug/L	1.0	0.33	1		06/20/17 03:14	79-01-6	
Surrogates									
4-Bromofluorobenzene (S)	91	%	61-130		1		06/20/17 03:14	460-00-4	
Dibromofluoromethane (S)	100	%	67-130		1		06/20/17 03:14	1868-53-7	
Toluene-d8 (S)	92	%	70-130		1		06/20/17 03:14	2037-26-5	

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ANALYTICAL RESULTS

Project: 34283.000 NPI

Pace Project No.: 40151728

Sample: MW-35A DUP **Lab ID: 40151728026** Collected: 06/14/17 07:55 Received: 06/15/17 09:55 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260							
1,1,1-Trichloroethane	0.62J	ug/L	1.0	0.50	1		06/20/17 03:36	71-55-6	
1,1-Dichloroethane	<0.24	ug/L	1.0	0.24	1		06/20/17 03:36	75-34-3	
1,1-Dichloroethene	<0.41	ug/L	1.0	0.41	1		06/20/17 03:36	75-35-4	
Tetrachloroethene	<0.50	ug/L	1.0	0.50	1		06/20/17 03:36	127-18-4	
Trichloroethene	1.7	ug/L	1.0	0.33	1		06/20/17 03:36	79-01-6	
Surrogates									
4-Bromofluorobenzene (S)	92	%	61-130		1		06/20/17 03:36	460-00-4	
Dibromofluoromethane (S)	99	%	67-130		1		06/20/17 03:36	1868-53-7	
Toluene-d8 (S)	94	%	70-130		1		06/20/17 03:36	2037-26-5	

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ANALYTICAL RESULTS

Project: 34283.000 NPI

Pace Project No.: 40151728

Sample: MW-35B **Lab ID: 40151728027** Collected: 06/14/17 08:00 Received: 06/15/17 09:55 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260							
1,1,1-Trichloroethane	<0.50	ug/L	1.0	0.50	1		06/20/17 03:59	71-55-6	
1,1-Dichloroethane	<0.24	ug/L	1.0	0.24	1		06/20/17 03:59	75-34-3	
1,1-Dichloroethene	<0.41	ug/L	1.0	0.41	1		06/20/17 03:59	75-35-4	
Tetrachloroethene	<0.50	ug/L	1.0	0.50	1		06/20/17 03:59	127-18-4	
Trichloroethene	1.3	ug/L	1.0	0.33	1		06/20/17 03:59	79-01-6	
Surrogates									
4-Bromofluorobenzene (S)	89	%	61-130		1		06/20/17 03:59	460-00-4	
Dibromofluoromethane (S)	99	%	67-130		1		06/20/17 03:59	1868-53-7	
Toluene-d8 (S)	93	%	70-130		1		06/20/17 03:59	2037-26-5	

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ANALYTICAL RESULTS

Project: 34283.000 NPI

Pace Project No.: 40151728

Sample: MW-37B **Lab ID: 40151728028** Collected: 06/14/17 08:10 Received: 06/15/17 09:55 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260							
1,1,1-Trichloroethane	<0.50	ug/L	1.0	0.50	1		06/19/17 22:23	71-55-6	
1,1-Dichloroethane	<0.24	ug/L	1.0	0.24	1		06/19/17 22:23	75-34-3	
1,1-Dichloroethene	<0.41	ug/L	1.0	0.41	1		06/19/17 22:23	75-35-4	
Tetrachloroethene	<0.50	ug/L	1.0	0.50	1		06/19/17 22:23	127-18-4	
Trichloroethene	<0.33	ug/L	1.0	0.33	1		06/19/17 22:23	79-01-6	
Surrogates									
4-Bromofluorobenzene (S)	91	%	61-130		1		06/19/17 22:23	460-00-4	
Dibromofluoromethane (S)	96	%	67-130		1		06/19/17 22:23	1868-53-7	
Toluene-d8 (S)	97	%	70-130		1		06/19/17 22:23	2037-26-5	

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ANALYTICAL RESULTS

Project: 34283.000 NPI

Pace Project No.: 40151728

Sample: MW-60A **Lab ID: 40151728029** Collected: 06/14/17 08:30 Received: 06/15/17 09:55 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260							
1,1,1-Trichloroethane	<0.50	ug/L	1.0	0.50	1		06/20/17 04:21	71-55-6	
1,1-Dichloroethane	<0.24	ug/L	1.0	0.24	1		06/20/17 04:21	75-34-3	
1,1-Dichloroethene	<0.41	ug/L	1.0	0.41	1		06/20/17 04:21	75-35-4	
Tetrachloroethene	<0.50	ug/L	1.0	0.50	1		06/20/17 04:21	127-18-4	
Trichloroethene	<0.33	ug/L	1.0	0.33	1		06/20/17 04:21	79-01-6	
Surrogates									
4-Bromofluorobenzene (S)	92	%	61-130		1		06/20/17 04:21	460-00-4	
Dibromofluoromethane (S)	99	%	67-130		1		06/20/17 04:21	1868-53-7	
Toluene-d8 (S)	93	%	70-130		1		06/20/17 04:21	2037-26-5	

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ANALYTICAL RESULTS

Project: 34283.000 NPI

Pace Project No.: 40151728

Sample: MW-60B **Lab ID: 40151728030** Collected: 06/14/17 08:25 Received: 06/15/17 09:55 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260							
1,1,1-Trichloroethane	<0.50	ug/L	1.0	0.50	1		06/20/17 04:43	71-55-6	
1,1-Dichloroethane	<0.24	ug/L	1.0	0.24	1		06/20/17 04:43	75-34-3	
1,1-Dichloroethene	<0.41	ug/L	1.0	0.41	1		06/20/17 04:43	75-35-4	
Tetrachloroethene	<0.50	ug/L	1.0	0.50	1		06/20/17 04:43	127-18-4	
Trichloroethene	<0.33	ug/L	1.0	0.33	1		06/20/17 04:43	79-01-6	
Surrogates									
4-Bromofluorobenzene (S)	91	%	61-130		1		06/20/17 04:43	460-00-4	
Dibromofluoromethane (S)	98	%	67-130		1		06/20/17 04:43	1868-53-7	
Toluene-d8 (S)	94	%	70-130		1		06/20/17 04:43	2037-26-5	

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ANALYTICAL RESULTS

Project: 34283.000 NPI

Pace Project No.: 40151728

Sample: MW-61A **Lab ID: 40151728031** Collected: 06/14/17 10:15 Received: 06/15/17 09:55 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260							
1,1,1-Trichloroethane	<0.50	ug/L	1.0	0.50	1		06/19/17 22:46	71-55-6	
1,1-Dichloroethane	<0.24	ug/L	1.0	0.24	1		06/19/17 22:46	75-34-3	
1,1-Dichloroethene	<0.41	ug/L	1.0	0.41	1		06/19/17 22:46	75-35-4	
Tetrachloroethene	<0.50	ug/L	1.0	0.50	1		06/19/17 22:46	127-18-4	
Trichloroethene	<0.33	ug/L	1.0	0.33	1		06/19/17 22:46	79-01-6	
Surrogates									
4-Bromofluorobenzene (S)	88	%	61-130		1		06/19/17 22:46	460-00-4	
Dibromofluoromethane (S)	99	%	67-130		1		06/19/17 22:46	1868-53-7	
Toluene-d8 (S)	93	%	70-130		1		06/19/17 22:46	2037-26-5	

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ANALYTICAL RESULTS

Project: 34283.000 NPI

Pace Project No.: 40151728

Sample: MW-61A DUP **Lab ID: 40151728032** Collected: 06/14/17 10:15 Received: 06/15/17 09:55 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260							
1,1,1-Trichloroethane	<0.50	ug/L	1.0	0.50	1		06/19/17 23:08	71-55-6	
1,1-Dichloroethane	<0.24	ug/L	1.0	0.24	1		06/19/17 23:08	75-34-3	
1,1-Dichloroethene	<0.41	ug/L	1.0	0.41	1		06/19/17 23:08	75-35-4	
Tetrachloroethene	<0.50	ug/L	1.0	0.50	1		06/19/17 23:08	127-18-4	
Trichloroethene	<0.33	ug/L	1.0	0.33	1		06/19/17 23:08	79-01-6	
Surrogates									
4-Bromofluorobenzene (S)	91	%	61-130		1		06/19/17 23:08	460-00-4	
Dibromofluoromethane (S)	96	%	67-130		1		06/19/17 23:08	1868-53-7	
Toluene-d8 (S)	92	%	70-130		1		06/19/17 23:08	2037-26-5	

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ANALYTICAL RESULTS

Project: 34283.000 NPI

Pace Project No.: 40151728

Sample: MW-61B **Lab ID: 40151728033** Collected: 06/14/17 10:10 Received: 06/15/17 09:55 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260							
1,1,1-Trichloroethane	<0.50	ug/L	1.0	0.50	1		06/19/17 23:30	71-55-6	
1,1-Dichloroethane	<0.24	ug/L	1.0	0.24	1		06/19/17 23:30	75-34-3	
1,1-Dichloroethene	<0.41	ug/L	1.0	0.41	1		06/19/17 23:30	75-35-4	
Tetrachloroethene	<0.50	ug/L	1.0	0.50	1		06/19/17 23:30	127-18-4	
Trichloroethene	0.35J	ug/L	1.0	0.33	1		06/19/17 23:30	79-01-6	
Surrogates									
4-Bromofluorobenzene (S)	91	%	61-130		1		06/19/17 23:30	460-00-4	
Dibromofluoromethane (S)	98	%	67-130		1		06/19/17 23:30	1868-53-7	
Toluene-d8 (S)	93	%	70-130		1		06/19/17 23:30	2037-26-5	

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ANALYTICAL RESULTS

Project: 34283.000 NPI

Pace Project No.: 40151728

Sample: MW-61B DUP **Lab ID: 40151728034** Collected: 06/14/17 10:10 Received: 06/15/17 09:55 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260							
1,1,1-Trichloroethane	<0.50	ug/L	1.0	0.50	1		06/19/17 23:53	71-55-6	
1,1-Dichloroethane	<0.24	ug/L	1.0	0.24	1		06/19/17 23:53	75-34-3	
1,1-Dichloroethene	<0.41	ug/L	1.0	0.41	1		06/19/17 23:53	75-35-4	
Tetrachloroethene	<0.50	ug/L	1.0	0.50	1		06/19/17 23:53	127-18-4	
Trichloroethene	0.52J	ug/L	1.0	0.33	1		06/19/17 23:53	79-01-6	
Surrogates									
4-Bromofluorobenzene (S)	92	%	61-130		1		06/19/17 23:53	460-00-4	
Dibromofluoromethane (S)	90	%	67-130		1		06/19/17 23:53	1868-53-7	
Toluene-d8 (S)	95	%	70-130		1		06/19/17 23:53	2037-26-5	

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ANALYTICAL RESULTS

Project: 34283.000 NPI

Pace Project No.: 40151728

Sample: RW-3A **Lab ID: 40151728035** Collected: 06/14/17 08:35 Received: 06/15/17 09:55 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260							
1,1,1-Trichloroethane	<0.50	ug/L	1.0	0.50	1		06/20/17 00:15	71-55-6	
1,1-Dichloroethane	<0.24	ug/L	1.0	0.24	1		06/20/17 00:15	75-34-3	
1,1-Dichloroethene	<0.41	ug/L	1.0	0.41	1		06/20/17 00:15	75-35-4	
Tetrachloroethene	<0.50	ug/L	1.0	0.50	1		06/20/17 00:15	127-18-4	
Trichloroethene	2.2	ug/L	1.0	0.33	1		06/20/17 00:15	79-01-6	
Surrogates									
4-Bromofluorobenzene (S)	91	%	61-130		1		06/20/17 00:15	460-00-4	
Dibromofluoromethane (S)	92	%	67-130		1		06/20/17 00:15	1868-53-7	
Toluene-d8 (S)	96	%	70-130		1		06/20/17 00:15	2037-26-5	

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ANALYTICAL RESULTS

Project: 34283.000 NPI

Pace Project No.: 40151728

Sample: RW-3B **Lab ID: 40151728036** Collected: 06/14/17 08:40 Received: 06/15/17 09:55 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260							
1,1,1-Trichloroethane	<0.50	ug/L	1.0	0.50	1		06/20/17 00:38	71-55-6	
1,1-Dichloroethane	<0.24	ug/L	1.0	0.24	1		06/20/17 00:38	75-34-3	
1,1-Dichloroethene	<0.41	ug/L	1.0	0.41	1		06/20/17 00:38	75-35-4	
Tetrachloroethene	<0.50	ug/L	1.0	0.50	1		06/20/17 00:38	127-18-4	
Trichloroethene	3.6	ug/L	1.0	0.33	1		06/20/17 00:38	79-01-6	
Surrogates									
4-Bromofluorobenzene (S)	91	%	61-130		1		06/20/17 00:38	460-00-4	
Dibromofluoromethane (S)	93	%	67-130		1		06/20/17 00:38	1868-53-7	
Toluene-d8 (S)	95	%	70-130		1		06/20/17 00:38	2037-26-5	

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ANALYTICAL RESULTS

Project: 34283.000 NPI

Pace Project No.: 40151728

Sample: RW-3C **Lab ID: 40151728037** Collected: 06/14/17 08:45 Received: 06/15/17 09:55 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260							
1,1,1-Trichloroethane	<0.50	ug/L	1.0	0.50	1		06/20/17 01:00	71-55-6	
1,1-Dichloroethane	<0.24	ug/L	1.0	0.24	1		06/20/17 01:00	75-34-3	
1,1-Dichloroethene	<0.41	ug/L	1.0	0.41	1		06/20/17 01:00	75-35-4	
Tetrachloroethene	<0.50	ug/L	1.0	0.50	1		06/20/17 01:00	127-18-4	
Trichloroethene	3.4	ug/L	1.0	0.33	1		06/20/17 01:00	79-01-6	
Surrogates									
4-Bromofluorobenzene (S)	88	%	61-130		1		06/20/17 01:00	460-00-4	
Dibromofluoromethane (S)	95	%	67-130		1		06/20/17 01:00	1868-53-7	
Toluene-d8 (S)	91	%	70-130		1		06/20/17 01:00	2037-26-5	

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ANALYTICAL RESULTS

Project: 34283.000 NPI

Pace Project No.: 40151728

Sample: MW-10A **Lab ID: 40151728038** Collected: 06/12/17 14:40 Received: 06/15/17 09:55 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, Dissolved									
Analytical Method: EPA 6010									
Cadmium, Dissolved	17.4	ug/L	5.0	1.3	1		06/20/17 19:41	7440-43-9	

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ANALYTICAL RESULTS

Project: 34283.000 NPI

Pace Project No.: 40151728

Sample: MW-10B **Lab ID: 40151728039** Collected: 06/12/17 14:30 Received: 06/15/17 09:55 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, Dissolved									
Analytical Method: EPA 6010									
Cadmium, Dissolved	3.6J	ug/L	5.0	1.3	1		06/20/17 19:48	7440-43-9	

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ANALYTICAL RESULTS

Project: 34283.000 NPI

Pace Project No.: 40151728

Sample: RW-2ADUP **Lab ID: 40151728040** Collected: 06/13/17 13:15 Received: 06/15/17 09:55 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260							
1,1,1-Trichloroethane	<0.50	ug/L	1.0	0.50	1		06/20/17 01:22	71-55-6	
1,1-Dichloroethane	<0.24	ug/L	1.0	0.24	1		06/20/17 01:22	75-34-3	
1,1-Dichloroethene	<0.41	ug/L	1.0	0.41	1		06/20/17 01:22	75-35-4	
Tetrachloroethene	<0.50	ug/L	1.0	0.50	1		06/20/17 01:22	127-18-4	
Trichloroethene	1.1	ug/L	1.0	0.33	1		06/20/17 01:22	79-01-6	
Surrogates									
4-Bromofluorobenzene (S)	88	%	61-130		1		06/20/17 01:22	460-00-4	
Dibromofluoromethane (S)	97	%	67-130		1		06/20/17 01:22	1868-53-7	
Toluene-d8 (S)	93	%	70-130		1		06/20/17 01:22	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 34283.000 NPI

Pace Project No.: 40151728

Sample: MW-29B **Lab ID: 40151728041** Collected: 06/13/17 13:20 Received: 06/15/17 09:55 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260							
1,1,1-Trichloroethane	<0.50	ug/L	1.0	0.50	1		06/20/17 01:44	71-55-6	
1,1-Dichloroethane	<0.24	ug/L	1.0	0.24	1		06/20/17 01:44	75-34-3	
1,1-Dichloroethene	<0.41	ug/L	1.0	0.41	1		06/20/17 01:44	75-35-4	
Tetrachloroethene	<0.50	ug/L	1.0	0.50	1		06/20/17 01:44	127-18-4	
Trichloroethene	<0.33	ug/L	1.0	0.33	1		06/20/17 01:44	79-01-6	
Surrogates									
4-Bromofluorobenzene (S)	92	%	61-130		1		06/20/17 01:44	460-00-4	
Dibromofluoromethane (S)	95	%	67-130		1		06/20/17 01:44	1868-53-7	
Toluene-d8 (S)	93	%	70-130		1		06/20/17 01:44	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 34283.000 NPI

Pace Project No.: 40151728

Sample: TRIP BLANK **Lab ID: 40151728042** Collected: 06/13/17 00:00 Received: 06/15/17 09:55 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260							
1,1,1-Trichloroethane	<0.50	ug/L	1.0	0.50	1		06/19/17 21:39	71-55-6	
1,1-Dichloroethane	<0.24	ug/L	1.0	0.24	1		06/19/17 21:39	75-34-3	
1,1-Dichloroethene	<0.41	ug/L	1.0	0.41	1		06/19/17 21:39	75-35-4	
Tetrachloroethene	<0.50	ug/L	1.0	0.50	1		06/19/17 21:39	127-18-4	
Trichloroethene	<0.33	ug/L	1.0	0.33	1		06/19/17 21:39	79-01-6	
Surrogates									
4-Bromofluorobenzene (S)	91	%	61-130		1		06/19/17 21:39	460-00-4	
Dibromofluoromethane (S)	98	%	67-130		1		06/19/17 21:39	1868-53-7	
Toluene-d8 (S)	94	%	70-130		1		06/19/17 21:39	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 34283.000 NPI
Pace Project No.: 40151728

QC Batch: 259200 Analysis Method: EPA 6010
QC Batch Method: EPA 6010 Analysis Description: ICP Metals, Trace, Dissolved
Associated Lab Samples: 40151728038, 40151728039

METHOD BLANK: 1526743 Matrix: Water
Associated Lab Samples: 40151728038, 40151728039

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Cadmium, Dissolved	ug/L	<1.3	5.0	06/20/17 19:37	

LABORATORY CONTROL SAMPLE: 1526744

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Cadmium, Dissolved	ug/L	500	439	88	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1526745 1526746

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		40151728038 Result	Spike Conc.	Spike Conc.	Result						
Cadmium, Dissolved	ug/L	17.4	500	500	461	89	88	75-125	1	20	

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: 34283.000 NPI
Pace Project No.: 40151728

QC Batch: 258770 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV
Associated Lab Samples: 40151728001, 40151728002, 40151728003, 40151728004, 40151728005, 40151728006, 40151728007, 40151728008, 40151728009, 40151728010, 40151728011, 40151728012, 40151728013, 40151728014, 40151728015, 40151728016, 40151728017, 40151728018, 40151728019, 40151728020

METHOD BLANK: 1524701 Matrix: Water
Associated Lab Samples: 40151728001, 40151728002, 40151728003, 40151728004, 40151728005, 40151728006, 40151728007, 40151728008, 40151728009, 40151728010, 40151728011, 40151728012, 40151728013, 40151728014, 40151728015, 40151728016, 40151728017, 40151728018, 40151728019, 40151728020

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	<0.50	1.0	06/19/17 17:42	
1,1-Dichloroethane	ug/L	<0.24	1.0	06/19/17 17:42	
1,1-Dichloroethene	ug/L	<0.41	1.0	06/19/17 17:42	
Tetrachloroethene	ug/L	<0.50	1.0	06/19/17 17:42	
Trichloroethene	ug/L	<0.33	1.0	06/19/17 17:42	
4-Bromofluorobenzene (S)	%	107	61-130	06/19/17 17:42	
Dibromofluoromethane (S)	%	113	67-130	06/19/17 17:42	
Toluene-d8 (S)	%	97	70-130	06/19/17 17:42	

LABORATORY CONTROL SAMPLE: 1524702

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	50	55.8	112	70-130	
1,1-Dichloroethane	ug/L	50	60.7	121	71-132	
1,1-Dichloroethene	ug/L	50	55.8	112	75-130	
Tetrachloroethene	ug/L	50	48.2	96	70-130	
Trichloroethene	ug/L	50	61.9	124	70-130	
4-Bromofluorobenzene (S)	%			111	61-130	
Dibromofluoromethane (S)	%			110	67-130	
Toluene-d8 (S)	%			99	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1524703 1524704

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	Max RPD	Qual	
		40151728009 Result	Spike Conc.	Spike Conc.	MS Result						MSD Result
1,1,1-Trichloroethane	ug/L	0.60J	50	50	56.8	55.4	112	110	70-134	3	20
1,1-Dichloroethane	ug/L	<0.24	50	50	61.4	58.3	123	117	71-133	5	20
1,1-Dichloroethene	ug/L	<0.41	50	50	55.0	54.4	110	109	75-136	1	20
Tetrachloroethene	ug/L	<0.50	50	50	50.2	49.1	100	98	70-130	2	20
Trichloroethene	ug/L	3.7	50	50	64.4	64.8	122	122	70-130	1	20
4-Bromofluorobenzene (S)	%						106	102	61-130		
Dibromofluoromethane (S)	%						110	104	67-130		
Toluene-d8 (S)	%						101	100	70-130		

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 34283.000 NPI
Pace Project No.: 40151728

QC Batch: 258772 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV
Associated Lab Samples: 40151728021, 40151728022, 40151728023, 40151728024, 40151728025, 40151728026, 40151728027, 40151728028, 40151728029, 40151728030, 40151728031, 40151728032, 40151728033, 40151728034, 40151728035, 40151728036, 40151728037, 40151728040, 40151728041, 40151728042

METHOD BLANK: 1524707 Matrix: Water
Associated Lab Samples: 40151728021, 40151728022, 40151728023, 40151728024, 40151728025, 40151728026, 40151728027, 40151728028, 40151728029, 40151728030, 40151728031, 40151728032, 40151728033, 40151728034, 40151728035, 40151728036, 40151728037, 40151728040, 40151728041, 40151728042

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	<0.50	1.0	06/19/17 18:18	
1,1-Dichloroethane	ug/L	<0.24	1.0	06/19/17 18:18	
1,1-Dichloroethene	ug/L	<0.41	1.0	06/19/17 18:18	
Tetrachloroethene	ug/L	<0.50	1.0	06/19/17 18:18	
Trichloroethene	ug/L	<0.33	1.0	06/19/17 18:18	
4-Bromofluorobenzene (S)	%	93	61-130	06/19/17 18:18	
Dibromofluoromethane (S)	%	90	67-130	06/19/17 18:18	
Toluene-d8 (S)	%	94	70-130	06/19/17 18:18	

LABORATORY CONTROL SAMPLE: 1524708

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	50	54.4	109	70-130	
1,1-Dichloroethane	ug/L	50	44.8	90	71-132	
1,1-Dichloroethene	ug/L	50	52.3	105	75-130	
Tetrachloroethene	ug/L	50	59.1	118	70-130	
Trichloroethene	ug/L	50	60.0	120	70-130	
4-Bromofluorobenzene (S)	%			106	61-130	
Dibromofluoromethane (S)	%			91	67-130	
Toluene-d8 (S)	%			96	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1524709 1524710

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	Max RPD	Qual	
		40151728035 Result	Spike Conc.	Spike Conc.	MS Result						MSD Result
1,1,1-Trichloroethane	ug/L	<0.50	50	50	54.1	53.0	108	106	70-134	2	20
1,1-Dichloroethane	ug/L	<0.24	50	50	43.9	45.5	88	91	71-133	4	20
1,1-Dichloroethene	ug/L	<0.41	50	50	50.6	53.5	101	107	75-136	6	20
Tetrachloroethene	ug/L	<0.50	50	50	63.0	59.0	126	118	70-130	7	20
Trichloroethene	ug/L	2.2	50	50	61.8	59.9	119	115	70-130	3	20
4-Bromofluorobenzene (S)	%						109	106	61-130		
Dibromofluoromethane (S)	%						90	88	67-130		
Toluene-d8 (S)	%						96	95	70-130		

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REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: 34283.000 NPI

Pace Project No.: 40151728

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.

LABORATORIES

PASI-G Pace Analytical Services - Green Bay

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 34283.000 NPI
Pace Project No.: 40151728

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40151728038	MW-10A	EPA 6010	259200		
40151728039	MW-10B	EPA 6010	259200		
40151728001	EC-1	EPA 8260	258770		
40151728002	EC-2	EPA 8260	258770		
40151728003	EC-5	EPA 8260	258770		
40151728004	EC-6	EPA 8260	258770		
40151728005	MW-22B	EPA 8260	258770		
40151728006	MW-23A	EPA 8260	258770		
40151728007	MW-23B	EPA 8260	258770		
40151728008	MW-38A	EPA 8260	258770		
40151728009	MW-38B	EPA 8260	258770		
40151728010	MW-38C	EPA 8260	258770		
40151728011	RW-2A	EPA 8260	258770		
40151728012	RW-2B	EPA 8260	258770		
40151728013	RW-2C	EPA 8260	258770		
40151728014	RW-15	EPA 8260	258770		
40151728015	WW-15	EPA 8260	258770		
40151728016	MW-9A	EPA 8260	258770		
40151728017	MW-26A	EPA 8260	258770		
40151728018	MW-26B	EPA 8260	258770		
40151728019	MW-65A	EPA 8260	258770		
40151728020	MW-65B	EPA 8260	258770		
40151728021	MW-65C	EPA 8260	258772		
40151728022	MW-41A	EPA 8260	258772		
40151728023	MW-41B	EPA 8260	258772		
40151728024	MW-41B DUP	EPA 8260	258772		
40151728025	MW-35A	EPA 8260	258772		
40151728026	MW-35A DUP	EPA 8260	258772		
40151728027	MW-35B	EPA 8260	258772		
40151728028	MW-37B	EPA 8260	258772		
40151728029	MW-60A	EPA 8260	258772		
40151728030	MW-60B	EPA 8260	258772		
40151728031	MW-61A	EPA 8260	258772		
40151728032	MW-61A DUP	EPA 8260	258772		
40151728033	MW-61B	EPA 8260	258772		
40151728034	MW-61B DUP	EPA 8260	258772		
40151728035	RW-3A	EPA 8260	258772		
40151728036	RW-3B	EPA 8260	258772		
40151728037	RW-3C	EPA 8260	258772		
40151728040	RW-2ADUP	EPA 8260	258772		
40151728041	MW-29B	EPA 8260	258772		
40151728042	TRIP BLANK	EPA 8260	258772		

REPORT OF LABORATORY ANALYSIS

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(Please Print Clearly)

Company Name: Gannett Fleming
 Branch/Location: Madison, WI
 Project Contact: Cliff Wright
 Phone: 608-836-1800
 Project Number: 34283.000
 Project Name: NPI
 Project State: WI
 Sampled By (Print): Chelsea Payne
 Sampled By (Sign): Chelsea Payne



UPPER MIDWEST REGION
 MN: 612-607-1700 WI: 920-469-2436

40151728

CHAIN OF CUSTODY

Preservation Codes
 A=None B=HCL C=H2SO4 D=HNO3 E=DI Water F=Methanol G=NaOH
 H=Sodium Bisulfate Solution I=Sodium Thiosulfate J=Other

FILTERED?
(YES/NO)
 PRESERVATION
(CODE)*

Y/N	Pick Letter	Analyses Requested	Matrix	DATE	TIME	MATRIX	
N	B	NOCs NPI Sheet List	3	6/14/17	9:45	GW	

Quote #: _____
 Mail To Contact: Cliff Wright
 Mail To Company: Gannett Fleming
 Mail To Address: 8025 Excelsior Dr. Madison, WI 53717
 Invoice To Contact: Same as mail to
 Invoice To Company: _____
 Invoice To Address: _____
 Invoice To Phone: _____

Data Package Options (billable)
 EPA Level III
 EPA Level IV

MS/MSD
 On your sample (billable)
 NOT needed on your sample

Matrix Codes
 A = Air W = Water
 B = Biota DW = Drinking Water
 C = Charcoal GW = Ground Water
 O = Oil SW = Surface Water
 S = Soil WW = Waste Water
 SI = Sludge WP = Wipe

PACE LAB #	CLIENT FIELD ID	COLLECTION		MATRIX
		DATE	TIME	
001	EC-1	6/14/17	9:45	GW
002	EC-2		9:50	
003	EC-5		9:55	
004	EC-6		9:40	
005	MW-22 B	6/13/17	13:00	
006	MW-23 A		13:30	
007	MW-23 B		13:25	
008	MW-38 A		13:55	
009	MW-38 B		13:45	
010	MW-38 B MS			
011	MW-38 B MS dup			
012	MW-38 C 010		13:50	
013	RW-2A 011		13:15	

CLIENT COMMENTS	LAB COMMENTS (Lab Use Only)	Profile #
Send copy of report to Mary Wehbe mary@mcw-scientificsolutions.com	3-40mL B	
	6-40mL B 9-40mL B	

Rush Turnaround Time Requested - Prelims (Rush TAT subject to approval/surcharge)
 Date Needed: _____

Transmit Prelim Rush Results by (complete what you want):
 Email #1: _____
 Email #2: _____
 Telephone: _____
 Fax: _____

Samples on HOLD are subject to special pricing and release of liability

Relinquished By: <u>Chelsea Payne</u>	Date/Time: <u>6/14/17</u>	Received By: _____	Date/Time: _____
Relinquished By: <u>Red EX</u>	Date/Time: <u>6/15/17 0905</u>	Received By: <u>Rachelle Ann Pace</u>	Date/Time: <u>6/15/17 0905</u>
Relinquished By: _____	Date/Time: _____	Received By: _____	Date/Time: _____
Relinquished By: _____	Date/Time: _____	Received By: _____	Date/Time: _____

PACE Project No. 40151728

Receipt Temp 20 °C

Sample Receipt pH OK / Adjusted

Cooler Custody Seal Present / Not Present Intact / Not Intact

(Please Print Clearly)

Company Name: Gannett Fleming

Branch/Location:

Project Contact:

Phone:

Project Number: 34283.000

Project Name: NPI

Project State:

Sampled By (Print):

Sampled By (Sign):

PO #:

Regulatory Program:



UPPER MIDWEST REGION
 MN: 612-607-1700 WI: 920-469-2436

Page 2 of 4
 40151728
 Page 59 of 62

CHAIN OF CUSTODY

***Preservation Codes**
 A=None B=HCL C=H2SO4 D=HNO3 E=DI Water F=Methanol G=NaOH
 H=Sodium Bisulfate Solution I=Sodium Thiosulfate J=Other

FILTERED?
(YES/NO)

PRESERVATION
(CODE)*

Y/N	Pick Letter	Analyses Requested	COLLECTION		MATRIX
			DATE	TIME	
	B	NPI Short List	6/13/17	13:20	GW
				13:10	
				13:35	
				15:30	
				14:40	
				13:15	
				13:10	
				14:30	
				14:40	
				14:35	
				15:45	
				15:50	

Quote #:

Mail To Contact:

Mail To Company:

Mail To Address: See

Invoice To Contact: PS

Invoice To Company:

Invoice To Address:

Invoice To Phone:

Data Package Options (billable)

EPA Level III

EPA Level IV

MS/MSD

On your sample (billable)

NOT needed on your sample

Matrix Codes

A = Air W = Water
 B = Biota DW = Drinking Water
 C = Charcoal GW = Ground Water
 O = Oil SW = Surface Water
 S = Soil WW = Waste Water
 Sl = Sludge WP = Wipe

PACE LAB #	CLIENT FIELD ID	COLLECTION		MATRIX	Analyses Requested	CLIENT COMMENTS	LAB COMMENTS (Lab Use Only)	Profile #
		DATE	TIME					
013	RW-2B 012	6/13/17	13:20	GW	3	3-40mly B		
014	RW-2C 013		13:10					
015	RW-15 014		13:35					
016	WW-15 015		15:30					
017	MW-9A 016		14:40					
018	MW-26A 017		13:15					
019	MW-26B 018		13:10					
020	MW-65A 019		14:30					
021	MW-65B 020		14:40					
022	MW-65C 021		14:35					
023	MW-41A 022		15:45					
024	MW-41B 023		15:50					
025	MW-41B dup 024					2-40mly B		

Rush Turnaround Time Requested - Prelims
 (Rush TAT subject to approval/surcharge)
 Date Needed: 6/15/17

Transmit Prelim Rush Results by (complete what you want): PO EX

Relinquished By:	Date/Time:	Received By:	Date/Time:
Relinquished By:	Date/Time:	Received By:	Date/Time:
Relinquished By:	Date/Time:	Received By:	Date/Time:
Relinquished By:	Date/Time:	Received By:	Date/Time:

PACE Project No. 40151728

Receipt Temp = 201 °C

Sample Receipt pH
 OK / Adjusted
 Cooler Custody Seal
 Present / Not Present
 Intact / Not Intact

(Please Print Clearly)

UPPER MIDWEST REGION
MN: 612-607-1700 WI: 920-469-2436

Page 3 of 4

40151728

Page 60 of 62



CHAIN OF CUSTODY

*Preservation Codes

A=None B=HCL C=H2SO4 D=HNO3 E=DI Water F=Methanol G=NaOH
 H=Sodium Bisulfate Solution I=Sodium Thiosulfate J=Other

Company Name: _____
 Branch/Location: _____
 Project Contact: _____
 Phone: See pg 1
 Project Number: _____
 Project Name: _____
 Project State: _____
 Sampled By (Print): _____
 Sampled By (Sign): _____
 PO #: _____

FILTERED? (YES/NO)
PRESERVATION (CODE)*

Y/N	Pick Letter	Analysis Requested	DATE	TIME	MATRIX
N	B	VOCs NPI Start List	6/14/17	7:55	GW

Data Package Options (billable)
 EPA Level III
 EPA Level IV

MS/MSD
 On your sample (billable)
 NOT needed on your sample

Matrix Codes
 A = Air W = Water
 B = Biota DW = Drinking Water
 C = Charcoal GW = Ground Water
 O = Oil SW = Surface Water
 S = Soil WW = Waste Water
 Sl = Sludge WP = Wipe

Quote #: _____
 Mail To Contact: _____
 Mail To Company: _____
 Mail To Address: _____
 Invoice To Contact: _____
 Invoice To Company: _____
 Invoice To Address: _____
 Invoice To Phone: _____

CLIENT COMMENTS	LAB COMMENTS (Lab Use Only)	Profile #
	3-40mL B	
2-40mL B		
2-40mL B		
9-40mL B		

PACE LAB #	CLIENT FIELD ID	COLLECTION		MATRIX
		DATE	TIME	
026	MW-35A 025	6/14/17	7:55	GW
027	MW-35A dup 026			
028	MW-35B 027		8:00	
029	MW-37B 028		8:10	
030	MW-60A 029		8:30	
031	MW-60B 030		8:25	
032	MW-61A 031		10:15	
033	MW-61A dup 032			
034	MW-61B 033		10:10	
035	MW-61B dup 034			
036	RW-3A 035		8:35	
037	RW-3A MS			
	RW-3A MS dup			

Rush Turnaround Time Requested - Prelims
 (Rush TAT subject to approval/surcharge)
 Date Needed: _____
 Transmit Prelim Rush Results by (complete what you want): _____
 Email #1: _____
 Email #2: _____
 Telephone: _____
 Fax: _____
 Samples on HOLD are subject to special pricing and release of liability

Relinquished By: _____ Date/Time: _____	Received By: _____ Date/Time: _____
Relinquished By: <u>PEL EX</u> Date/Time: <u>6/10/17 09:55</u>	Received By: <u>Rachel was here</u> Date/Time: <u>6/15/17 09:55</u>
Relinquished By: _____ Date/Time: _____	Received By: _____ Date/Time: _____
Relinquished By: _____ Date/Time: _____	Received By: _____ Date/Time: _____

PACE Project No. 40151728
 Receipt Temp = 201 °C
 Sample Receipt pH OK Adjusted
 Cooler Custody Seal Present / Not Present Intact / Not Intact

(Please Print Clearly)

Company Name: _____
 Branch/Location: _____
 Project Contact: _____
 Phone: _____
 Project Number: _____
 Project Name: _____
 Project State: _____
 Sampled By (Print): _____
 Sampled By (Sign): _____
 PO #: _____
 Regulatory Program: _____



UPPER MIDWEST REGION
 MN: 612-607-1700 WI: 920-469-2436

Page 4 of 4

40151728

Page 61 of 62

CHAIN OF CUSTODY

***Preservation Codes**
 A=None B=HCL C=H2SO4 D=HNO3 E=DI Water F=Methanol G=NaOH
 H=Sodium Bisulfate Solution I=Sodium Thiosulfate J=Other

FILTERED?
(YES/NO)
 PRESERVATION
(CODE)*

Y/N	Filter Letter	Analyses Requested	Matrix
	B	VOCS NPF Short List	GW
	D	Cadmium	

Quote #: _____
 Mail To Contact: _____
 Mail To Company: _____
 Mail To Address: _____
 Invoice To Contact: _____
 Invoice To Company: _____
 Invoice To Address: _____
 Invoice To Phone: _____

CLIENT COMMENTS	LAB COMMENTS (Lab Use Only)	Profile #
	3-40ml _B	
1-250ml _P		
2-40ml _B		

Data Package Options (billable)
 EPA Level III
 EPA Level IV

MS/MSD
 On your sample (billable)
 NOT needed on your sample

Matrix Codes
 A = Air W = Water
 B = Biota DW = Drinking Water
 C = Charcoal GW = Ground Water
 O = Oil SW = Surface Water
 S = Soil WW = Waste Water
 SI = Sludge WP = Wipe

PACE LAB #	CLIENT FIELD ID		COLLECTION		MATRIX
			DATE	TIME	
037	RW-3B	030	4/17	8:40	GW
038	RW-3C	031	6/14	8:45	
039	MW-10A	038	6/12	14:40	
040	MW-10B	039	6/12	14:30	
041	Trip Blank	040	6/14		
042	RW-2A dup	041	6/13	13:15	
043	MW 29B	042	6/13	13:20	
044	Trip Blank	043	6/13		

Rush Turnaround Time Requested - Prelims (Rush TAT subject to approval/surcharge) Date Needed:	Relinquished By: _____ Date/Time: _____	Received By: _____ Date/Time: _____	PACE Project No. 40151728 Receipt Temp = 60.1 °C Sample Receipt pH OK / Adjusted Cooler Custody Seal Present / Not Present Intact / Not Intact
Transmit Prelim Rush Results by (complete what you want):	Relinquished By: PEO dx Date/Time: 6/15/17 09:55	Received By: Rachel used Pace Cell 6/17/17 09:55	
Email #1:	Relinquished By: _____ Date/Time: _____	Received By: _____ Date/Time: _____	
Email #2:	Relinquished By: _____ Date/Time: _____	Received By: _____ Date/Time: _____	
Telephone:	Relinquished By: _____ Date/Time: _____	Received By: _____ Date/Time: _____	
Fax:	Relinquished By: _____ Date/Time: _____	Received By: _____ Date/Time: _____	

Samples on HOLD are subject to special pricing and release of liability



Sample Condition Upon Receipt

Pace Analytical Services, LLC. - Green Bay WI
1241 Bellevue Street, Suite 9
Green Bay, WI 54302

Project #:

40151728
AFFIX WORKORDER LABEL HERE

Client Name: Giannet Fleming

Courier: Fed Ex UPS Client Pace Other: _____

Tracking #: 8115 9716 0857

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 20 /Corr: _____ Biological Tissue is Frozen: yes no

Temp Blank Present: yes no no

Temp should be above freezing to 6°C.
Biota Samples may be received at ≤ 0°C.

Person examining contents:
Date: 6/15/17
Initials: RW

Comments:

Chain of Custody Present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1.
Chain of Custody Filled Out:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	2.
Chain of Custody Relinquished:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	3. <u>ONLY page 1 of 4 RW 6/15/17</u>
Sampler Name & Signature on COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	4.
Samples Arrived within Hold Time:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	5.
- VOA Samples frozen upon receipt	<input type="checkbox"/> Yes <input type="checkbox"/> No	Date/Time:
Short Hold Time Analysis (<72hr):	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	6.
Rush Turn Around Time Requested:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	7.
Sufficient Volume:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	8.
Correct Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	9.
-Pace Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
-Pace IR Containers Used:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Containers Intact:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	10.
Filtered volume received for Dissolved tests	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	11.
Sample Labels match COC:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	12. <u>001 no date, 002 no date or time, 003-004</u> <u>(1) no date or time 012 no date or time 035 3-4 only no time</u> <u>all no date</u>
-Includes date/time/ID/Analysis Matrix: <u>W</u>		
All containers needing preservation have been checked. (Non-Compliance noted in 13.)	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	13. <input checked="" type="checkbox"/> HNO3 <input type="checkbox"/> H2SO4 <input type="checkbox"/> NaOH <input type="checkbox"/> NaOH + ZnAct
All containers needing preservation are found to be in compliance with EPA recommendation. (HNO3, H2SO4 <2; NaOH+ZnAct ≥9, NaOH ≥12)	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
exceptions: (VOA, coliform, TOC, TOX, TOH, O&G, WIDROW, Phenolics, OTHER: _____)	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Initial when completed: <u>RW</u> Lab Std #ID of preservative: _____ Date/Time: _____
Headspace in VOA Vials (>6mm):	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	14.
Trip Blank Present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	15.
Trip Blank Custody Seals Present	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Pace Trip Blank Lot # (if purchased): <u>#1381</u>		

RW 6/15/17

Client Notification/ Resolution:

If checked, see attached form for additional comments

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

(1) 036, 2-40ml, 0 no times, all no date
037, 2-40ml, 0 no times, all no date

only received 1 set of trip blanks

Project Manager Review: for DM Date: 6/15/17

June 27, 2017

Project #34283.000
NPI Q2 GW
Reviewed by CCW
6/28/17

Clifford Wright
Gannett Fleming
8025 Excelsior Drive
Madison, WI 53717

RE: Project: 34283.000 NPI
Pace Project No.: 40151610

Dear Clifford Wright:

Enclosed are the analytical results for sample(s) received by the laboratory on June 14, 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

cc: Mary C. Wehbe, MCW Scientific Solutions



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: 34283.000 NPI

Pace Project No.: 40151610

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

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SAMPLE SUMMARY

Project: 34283.000 NPI
Pace Project No.: 40151610

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40151610001	EW-5- 78'	Water	06/13/17 08:05	06/14/17 09:50
40151610002	EW-5- 88'	Water	06/13/17 08:10	06/14/17 09:50
40151610003	EW-6	Water	06/13/17 08:00	06/14/17 09:50
40151610004	MW-4B	Water	06/13/17 08:20	06/14/17 09:50
40151610005	MW-76A	Water	06/13/17 08:55	06/14/17 09:50
40151610006	MW-76B	Water	06/13/17 08:50	06/14/17 09:50
40151610007	MW-77A	Water	06/13/17 08:35	06/14/17 09:50
40151610008	MW-77A DUP	Water	06/13/17 08:35	06/14/17 09:50
40151610009	MW-77B	Water	06/13/17 08:40	06/14/17 09:50
40151610010	MW-77C	Water	06/13/17 08:45	06/14/17 09:50
40151610011	PW-3R	Water	06/13/17 09:10	06/14/17 09:50
40151610012	MW-49A	Water	06/13/17 11:04	06/14/17 09:50
40151610013	MW-49B	Water	06/13/17 11:02	06/14/17 09:50
40151610014	MW-51A	Water	06/13/17 09:50	06/14/17 09:50
40151610015	MW-51B	Water	06/13/17 09:55	06/14/17 09:50
40151610016	MW-52A	Water	06/13/17 10:05	06/14/17 09:50
40151610017	MW-52B	Water	06/13/17 10:10	06/14/17 09:50
40151610018	MW-53A	Water	06/13/17 10:20	06/14/17 09:50
40151610019	MW-53B	Water	06/13/17 10:25	06/14/17 09:50
40151610020	MW-54A	Water	06/13/17 10:50	06/14/17 09:50
40151610021	MW-54B	Water	06/13/17 10:55	06/14/17 09:50
40151610022	MW-54C	Water	06/13/17 11:00	06/14/17 09:50
40151610023	MW-54C DUP	Water	06/13/17 11:00	06/14/17 09:50
40151610024	MW-55B	Water	06/13/17 11:20	06/14/17 09:50
40151610025	MW-55C	Water	06/13/17 11:15	06/14/17 09:50
40151610026	MW-57A	Water	06/13/17 10:35	06/14/17 09:50
40151610027	MW-57B	Water	06/13/17 10:30	06/14/17 09:50
40151610028	MW-43A	Water	06/13/17 15:35	06/14/17 09:50
40151610029	MW-43B	Water	06/13/17 15:30	06/14/17 09:50
40151610030	MW-45A	Water	06/13/17 11:45	06/14/17 09:50
40151610031	MW-45B	Water	06/13/17 11:35	06/14/17 09:50
40151610032	MW-45C	Water	06/13/17 11:40	06/14/17 09:50
40151610033	MW-47A	Water	06/13/17 15:00	06/14/17 09:50
40151610034	MW-47B	Water	06/13/17 14:55	06/14/17 09:50
40151610035	RW-16	Water	06/13/17 15:15	06/14/17 09:50
40151610036	RW-16B	Water	06/13/17 15:05	06/14/17 09:50
40151610037	RW-16C	Water	06/13/17 15:10	06/14/17 09:50

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: 34283.000 NPI

Pace Project No.: 40151610

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40151610038	TRIP BLANK	Water	06/13/17 00:00	06/14/17 09:50
40151610039	MW-51B DUP	Water	06/13/17 09:55	06/14/17 09:50
40151610040	MH-18	Water	06/13/17 08:00	06/14/17 09:50
40151610041	MW-4A	Water	06/13/17 08:25	06/14/17 09:50

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: 34283.000 NPI
Pace Project No.: 40151610

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
40151610001	EW-5- 78'	EPA 8260	LAP	8	PASI-G
40151610002	EW-5- 88'	EPA 8260	LAP	8	PASI-G
40151610003	EW-6	EPA 8260	LAP	8	PASI-G
40151610004	MW-4B	EPA 8260	LAP	8	PASI-G
40151610005	MW-76A	EPA 8260	LAP	8	PASI-G
40151610006	MW-76B	EPA 8260	LAP	8	PASI-G
40151610007	MW-77A	EPA 8260	LAP	8	PASI-G
40151610008	MW-77A DUP	EPA 8260	LAP	8	PASI-G
40151610009	MW-77B	EPA 8260	LAP	8	PASI-G
40151610010	MW-77C	EPA 8260	LAP	8	PASI-G
40151610011	PW-3R	EPA 8260	LAP	8	PASI-G
40151610012	MW-49A	EPA 8260	LAP	8	PASI-G
40151610013	MW-49B	EPA 8260	LAP	8	PASI-G
40151610014	MW-51A	EPA 8260	LAP	8	PASI-G
40151610015	MW-51B	EPA 8260	LAP	8	PASI-G
40151610016	MW-52A	EPA 8260	LAP	8	PASI-G
40151610017	MW-52B	EPA 8260	LAP	8	PASI-G
40151610018	MW-53A	EPA 8260	LAP	8	PASI-G
40151610019	MW-53B	EPA 8260	LAP	8	PASI-G
40151610020	MW-54A	EPA 8260	LAP	8	PASI-G
40151610021	MW-54B	EPA 8260	LAP	8	PASI-G
40151610022	MW-54C	EPA 8260	LAP	8	PASI-G
40151610023	MW-54C DUP	EPA 8260	LAP	8	PASI-G
40151610024	MW-55B	EPA 8260	LAP	8	PASI-G
40151610025	MW-55C	EPA 8260	LAP	8	PASI-G
40151610026	MW-57A	EPA 8260	LAP	8	PASI-G
40151610027	MW-57B	EPA 8260	LAP	8	PASI-G
40151610028	MW-43A	EPA 8260	LAP	8	PASI-G
40151610029	MW-43B	EPA 8260	LAP	8	PASI-G
40151610030	MW-45A	EPA 8260	LAP	8	PASI-G
40151610031	MW-45B	EPA 8260	LAP	8	PASI-G
40151610032	MW-45C	EPA 8260	LAP	8	PASI-G
40151610033	MW-47A	EPA 8260	LAP	8	PASI-G
40151610034	MW-47B	EPA 8260	LAP	8	PASI-G
40151610035	RW-16	EPA 8260	MDS	8	PASI-G
40151610036	RW-16B	EPA 8260	MDS	8	PASI-G
40151610037	RW-16C	EPA 8260	HNW	8	PASI-G

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: 34283.000 NPI

Pace Project No.: 40151610

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
40151610038	TRIP BLANK	EPA 8260	LAP	8	PASI-G
40151610039	MW-51B DUP	EPA 8260	HNW	8	PASI-G
40151610040	MH-18	EPA 8260	LAP	8	PASI-G
40151610041	MW-4A	EPA 8260	HNW	8	PASI-G

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: 34283.000 NPI
Pace Project No.: 40151610

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
40151610001	EW-5- 78'					
EPA 8260	Trichloroethene	0.39J	ug/L	1.0	06/16/17 08:21	
40151610003	EW-6					
EPA 8260	1,1,1-Trichloroethane	1.4	ug/L	1.0	06/16/17 09:06	
EPA 8260	Trichloroethene	0.75J	ug/L	1.0	06/16/17 09:06	
40151610004	MW-4B					
EPA 8260	Trichloroethene	0.55J	ug/L	1.0	06/16/17 09:29	
40151610005	MW-76A					
EPA 8260	1,1,1-Trichloroethane	1.7	ug/L	1.0	06/16/17 07:59	
40151610009	MW-77B					
EPA 8260	Trichloroethene	1.7	ug/L	1.0	06/16/17 10:59	
40151610010	MW-77C					
EPA 8260	Trichloroethene	0.76J	ug/L	1.0	06/16/17 11:22	
40151610012	MW-49A					
EPA 8260	Trichloroethene	0.67J	ug/L	1.0	06/16/17 12:07	
40151610014	MW-51A					
EPA 8260	Trichloroethene	0.64J	ug/L	1.0	06/16/17 12:53	
40151610015	MW-51B					
EPA 8260	Trichloroethene	4.2	ug/L	1.0	06/16/17 13:15	
40151610016	MW-52A					
EPA 8260	Trichloroethene	3.7	ug/L	1.0	06/16/17 09:42	
40151610017	MW-52B					
EPA 8260	1,1,1-Trichloroethane	0.51J	ug/L	1.0	06/16/17 13:38	
EPA 8260	Trichloroethene	5.0	ug/L	1.0	06/16/17 13:38	
40151610018	MW-53A					
EPA 8260	Trichloroethene	2.2	ug/L	1.0	06/16/17 14:00	
40151610019	MW-53B					
EPA 8260	Trichloroethene	4.1	ug/L	1.0	06/16/17 14:23	
40151610021	MW-54B					
EPA 8260	Trichloroethene	4.5	ug/L	1.0	06/16/17 15:08	
40151610022	MW-54C					
EPA 8260	Trichloroethene	4.4	ug/L	1.0	06/16/17 11:13	
40151610023	MW-54C DUP					
EPA 8260	Trichloroethene	4.5	ug/L	1.0	06/16/17 11:36	
40151610024	MW-55B					
EPA 8260	Trichloroethene	1.6	ug/L	1.0	06/16/17 11:59	

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: 34283.000 NPI
Pace Project No.: 40151610

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
40151610026	MW-57A					
EPA 8260	Trichloroethene	0.33J	ug/L	1.0	06/16/17 10:51	
40151610027	MW-57B					
EPA 8260	Trichloroethene	0.43J	ug/L	1.0	06/16/17 12:22	
40151610028	MW-43A					
EPA 8260	Trichloroethene	2.5	ug/L	1.0	06/16/17 12:44	
40151610029	MW-43B					
EPA 8260	Trichloroethene	1.7	ug/L	1.0	06/16/17 13:07	
40151610030	MW-45A					
EPA 8260	Trichloroethene	1.0	ug/L	1.0	06/16/17 13:30	
40151610031	MW-45B					
EPA 8260	Trichloroethene	2.1	ug/L	1.0	06/16/17 13:53	
40151610032	MW-45C					
EPA 8260	Trichloroethene	3.0	ug/L	1.0	06/16/17 14:16	
40151610033	MW-47A					
EPA 8260	Trichloroethene	0.58J	ug/L	1.0	06/16/17 14:38	
40151610035	RW-16					
EPA 8260	Trichloroethene	2.2	ug/L	1.0	06/19/17 12:26	
40151610036	RW-16B					
EPA 8260	Trichloroethene	0.90J	ug/L	1.0	06/19/17 12:49	
40151610037	RW-16C					
EPA 8260	Trichloroethene	3.9	ug/L	1.0	06/19/17 13:12	
40151610039	MW-51B DUP					
EPA 8260	Trichloroethene	4.2	ug/L	1.0	06/19/17 13:34	
40151610040	MH-18					
EPA 8260	1,1,1-Trichloroethane	0.83J	ug/L	1.0	06/16/17 10:28	
EPA 8260	Trichloroethene	0.39J	ug/L	1.0	06/16/17 10:28	

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PROJECT NARRATIVE

Project: 34283.000 NPI

Pace Project No.: 40151610

Method: EPA 8260

Description: 8260 MSV

Client: Gannett Fleming Inc.

Date: June 27, 2017

General Information:

41 samples were analyzed for EPA 8260. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

Internal Standards:

All internal standards were within QC limits with any exceptions noted below.

Surrogates:

All surrogates were within QC limits with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.

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ANALYTICAL RESULTS

Project: 34283.000 NPI

Pace Project No.: 40151610

Sample: EW-5- 78' **Lab ID: 40151610001** Collected: 06/13/17 08:05 Received: 06/14/17 09:50 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260							
1,1,1-Trichloroethane	<0.50	ug/L	1.0	0.50	1		06/16/17 08:21	71-55-6	
1,1-Dichloroethane	<0.24	ug/L	1.0	0.24	1		06/16/17 08:21	75-34-3	
1,1-Dichloroethene	<0.41	ug/L	1.0	0.41	1		06/16/17 08:21	75-35-4	
Tetrachloroethene	<0.50	ug/L	1.0	0.50	1		06/16/17 08:21	127-18-4	
Trichloroethene	0.39J	ug/L	1.0	0.33	1		06/16/17 08:21	79-01-6	
Surrogates									
4-Bromofluorobenzene (S)	111	%	61-130		1		06/16/17 08:21	460-00-4	
Dibromofluoromethane (S)	114	%	67-130		1		06/16/17 08:21	1868-53-7	
Toluene-d8 (S)	72	%	70-130		1		06/16/17 08:21	2037-26-5	

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ANALYTICAL RESULTS

Project: 34283.000 NPI

Pace Project No.: 40151610

Sample: EW-5- 88' **Lab ID: 40151610002** Collected: 06/13/17 08:10 Received: 06/14/17 09:50 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260							
1,1,1-Trichloroethane	<0.50	ug/L	1.0	0.50	1		06/16/17 08:44	71-55-6	
1,1-Dichloroethane	<0.24	ug/L	1.0	0.24	1		06/16/17 08:44	75-34-3	
1,1-Dichloroethene	<0.41	ug/L	1.0	0.41	1		06/16/17 08:44	75-35-4	
Tetrachloroethene	<0.50	ug/L	1.0	0.50	1		06/16/17 08:44	127-18-4	
Trichloroethene	<0.33	ug/L	1.0	0.33	1		06/16/17 08:44	79-01-6	
Surrogates									
4-Bromofluorobenzene (S)	114	%	61-130		1		06/16/17 08:44	460-00-4	
Dibromofluoromethane (S)	114	%	67-130		1		06/16/17 08:44	1868-53-7	
Toluene-d8 (S)	75	%	70-130		1		06/16/17 08:44	2037-26-5	

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ANALYTICAL RESULTS

Project: 34283.000 NPI

Pace Project No.: 40151610

Sample: EW-6 **Lab ID: 40151610003** Collected: 06/13/17 08:00 Received: 06/14/17 09:50 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260							
1,1,1-Trichloroethane	1.4	ug/L	1.0	0.50	1		06/16/17 09:06	71-55-6	
1,1-Dichloroethane	<0.24	ug/L	1.0	0.24	1		06/16/17 09:06	75-34-3	
1,1-Dichloroethene	<0.41	ug/L	1.0	0.41	1		06/16/17 09:06	75-35-4	
Tetrachloroethene	<0.50	ug/L	1.0	0.50	1		06/16/17 09:06	127-18-4	
Trichloroethene	0.75J	ug/L	1.0	0.33	1		06/16/17 09:06	79-01-6	
Surrogates									
4-Bromofluorobenzene (S)	104	%	61-130		1		06/16/17 09:06	460-00-4	
Dibromofluoromethane (S)	110	%	67-130		1		06/16/17 09:06	1868-53-7	
Toluene-d8 (S)	98	%	70-130		1		06/16/17 09:06	2037-26-5	

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ANALYTICAL RESULTS

Project: 34283.000 NPI

Pace Project No.: 40151610

Sample: MW-4B **Lab ID: 40151610004** Collected: 06/13/17 08:20 Received: 06/14/17 09:50 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260							
1,1,1-Trichloroethane	<0.50	ug/L	1.0	0.50	1		06/16/17 09:29	71-55-6	
1,1-Dichloroethane	<0.24	ug/L	1.0	0.24	1		06/16/17 09:29	75-34-3	
1,1-Dichloroethene	<0.41	ug/L	1.0	0.41	1		06/16/17 09:29	75-35-4	
Tetrachloroethene	<0.50	ug/L	1.0	0.50	1		06/16/17 09:29	127-18-4	
Trichloroethene	0.55J	ug/L	1.0	0.33	1		06/16/17 09:29	79-01-6	
Surrogates									
4-Bromofluorobenzene (S)	106	%	61-130		1		06/16/17 09:29	460-00-4	
Dibromofluoromethane (S)	109	%	67-130		1		06/16/17 09:29	1868-53-7	
Toluene-d8 (S)	94	%	70-130		1		06/16/17 09:29	2037-26-5	

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ANALYTICAL RESULTS

Project: 34283.000 NPI

Pace Project No.: 40151610

Sample: MW-76A **Lab ID: 40151610005** Collected: 06/13/17 08:55 Received: 06/14/17 09:50 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260							
1,1,1-Trichloroethane	1.7	ug/L	1.0	0.50	1		06/16/17 07:59	71-55-6	
1,1-Dichloroethane	<0.24	ug/L	1.0	0.24	1		06/16/17 07:59	75-34-3	
1,1-Dichloroethene	<0.41	ug/L	1.0	0.41	1		06/16/17 07:59	75-35-4	
Tetrachloroethene	<0.50	ug/L	1.0	0.50	1		06/16/17 07:59	127-18-4	
Trichloroethene	<0.33	ug/L	1.0	0.33	1		06/16/17 07:59	79-01-6	
Surrogates									
4-Bromofluorobenzene (S)	114	%	61-130		1		06/16/17 07:59	460-00-4	
Dibromofluoromethane (S)	113	%	67-130		1		06/16/17 07:59	1868-53-7	
Toluene-d8 (S)	92	%	70-130		1		06/16/17 07:59	2037-26-5	

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ANALYTICAL RESULTS

Project: 34283.000 NPI

Pace Project No.: 40151610

Sample: MW-76B **Lab ID: 40151610006** Collected: 06/13/17 08:50 Received: 06/14/17 09:50 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260							
1,1,1-Trichloroethane	<0.50	ug/L	1.0	0.50	1		06/16/17 09:52	71-55-6	
1,1-Dichloroethane	<0.24	ug/L	1.0	0.24	1		06/16/17 09:52	75-34-3	
1,1-Dichloroethene	<0.41	ug/L	1.0	0.41	1		06/16/17 09:52	75-35-4	
Tetrachloroethene	<0.50	ug/L	1.0	0.50	1		06/16/17 09:52	127-18-4	
Trichloroethene	<0.33	ug/L	1.0	0.33	1		06/16/17 09:52	79-01-6	
Surrogates									
4-Bromofluorobenzene (S)	107	%	61-130		1		06/16/17 09:52	460-00-4	
Dibromofluoromethane (S)	115	%	67-130		1		06/16/17 09:52	1868-53-7	
Toluene-d8 (S)	97	%	70-130		1		06/16/17 09:52	2037-26-5	

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ANALYTICAL RESULTS

Project: 34283.000 NPI

Pace Project No.: 40151610

Sample: MW-77A **Lab ID: 40151610007** Collected: 06/13/17 08:35 Received: 06/14/17 09:50 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260							
1,1,1-Trichloroethane	<0.50	ug/L	1.0	0.50	1		06/16/17 10:14	71-55-6	
1,1-Dichloroethane	<0.24	ug/L	1.0	0.24	1		06/16/17 10:14	75-34-3	
1,1-Dichloroethene	<0.41	ug/L	1.0	0.41	1		06/16/17 10:14	75-35-4	
Tetrachloroethene	<0.50	ug/L	1.0	0.50	1		06/16/17 10:14	127-18-4	
Trichloroethene	<0.33	ug/L	1.0	0.33	1		06/16/17 10:14	79-01-6	
Surrogates									
4-Bromofluorobenzene (S)	103	%	61-130		1		06/16/17 10:14	460-00-4	
Dibromofluoromethane (S)	109	%	67-130		1		06/16/17 10:14	1868-53-7	
Toluene-d8 (S)	99	%	70-130		1		06/16/17 10:14	2037-26-5	

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ANALYTICAL RESULTS

Project: 34283.000 NPI

Pace Project No.: 40151610

Sample: MW-77A DUP **Lab ID: 40151610008** Collected: 06/13/17 08:35 Received: 06/14/17 09:50 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260							
1,1,1-Trichloroethane	<0.50	ug/L	1.0	0.50	1		06/16/17 10:37	71-55-6	
1,1-Dichloroethane	<0.24	ug/L	1.0	0.24	1		06/16/17 10:37	75-34-3	
1,1-Dichloroethene	<0.41	ug/L	1.0	0.41	1		06/16/17 10:37	75-35-4	
Tetrachloroethene	<0.50	ug/L	1.0	0.50	1		06/16/17 10:37	127-18-4	
Trichloroethene	<0.33	ug/L	1.0	0.33	1		06/16/17 10:37	79-01-6	
Surrogates									
4-Bromofluorobenzene (S)	102	%	61-130		1		06/16/17 10:37	460-00-4	
Dibromofluoromethane (S)	111	%	67-130		1		06/16/17 10:37	1868-53-7	
Toluene-d8 (S)	98	%	70-130		1		06/16/17 10:37	2037-26-5	

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ANALYTICAL RESULTS

Project: 34283.000 NPI

Pace Project No.: 40151610

Sample: MW-77B **Lab ID: 40151610009** Collected: 06/13/17 08:40 Received: 06/14/17 09:50 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260							
1,1,1-Trichloroethane	<0.50	ug/L	1.0	0.50	1		06/16/17 10:59	71-55-6	
1,1-Dichloroethane	<0.24	ug/L	1.0	0.24	1		06/16/17 10:59	75-34-3	
1,1-Dichloroethene	<0.41	ug/L	1.0	0.41	1		06/16/17 10:59	75-35-4	
Tetrachloroethene	<0.50	ug/L	1.0	0.50	1		06/16/17 10:59	127-18-4	
Trichloroethene	1.7	ug/L	1.0	0.33	1		06/16/17 10:59	79-01-6	
Surrogates									
4-Bromofluorobenzene (S)	106	%	61-130		1		06/16/17 10:59	460-00-4	
Dibromofluoromethane (S)	112	%	67-130		1		06/16/17 10:59	1868-53-7	
Toluene-d8 (S)	97	%	70-130		1		06/16/17 10:59	2037-26-5	

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ANALYTICAL RESULTS

Project: 34283.000 NPI

Pace Project No.: 40151610

Sample: MW-77C **Lab ID: 40151610010** Collected: 06/13/17 08:45 Received: 06/14/17 09:50 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260							
1,1,1-Trichloroethane	<0.50	ug/L	1.0	0.50	1		06/16/17 11:22	71-55-6	
1,1-Dichloroethane	<0.24	ug/L	1.0	0.24	1		06/16/17 11:22	75-34-3	
1,1-Dichloroethene	<0.41	ug/L	1.0	0.41	1		06/16/17 11:22	75-35-4	
Tetrachloroethene	<0.50	ug/L	1.0	0.50	1		06/16/17 11:22	127-18-4	
Trichloroethene	0.76J	ug/L	1.0	0.33	1		06/16/17 11:22	79-01-6	
Surrogates									
4-Bromofluorobenzene (S)	104	%	61-130		1		06/16/17 11:22	460-00-4	
Dibromofluoromethane (S)	110	%	67-130		1		06/16/17 11:22	1868-53-7	
Toluene-d8 (S)	95	%	70-130		1		06/16/17 11:22	2037-26-5	

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ANALYTICAL RESULTS

Project: 34283.000 NPI

Pace Project No.: 40151610

Sample: PW-3R **Lab ID: 40151610011** Collected: 06/13/17 09:10 Received: 06/14/17 09:50 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260							
1,1,1-Trichloroethane	<0.50	ug/L	1.0	0.50	1		06/16/17 11:45	71-55-6	
1,1-Dichloroethane	<0.24	ug/L	1.0	0.24	1		06/16/17 11:45	75-34-3	
1,1-Dichloroethene	<0.41	ug/L	1.0	0.41	1		06/16/17 11:45	75-35-4	
Tetrachloroethene	<0.50	ug/L	1.0	0.50	1		06/16/17 11:45	127-18-4	
Trichloroethene	<0.33	ug/L	1.0	0.33	1		06/16/17 11:45	79-01-6	
Surrogates									
4-Bromofluorobenzene (S)	103	%	61-130		1		06/16/17 11:45	460-00-4	
Dibromofluoromethane (S)	111	%	67-130		1		06/16/17 11:45	1868-53-7	
Toluene-d8 (S)	97	%	70-130		1		06/16/17 11:45	2037-26-5	

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ANALYTICAL RESULTS

Project: 34283.000 NPI

Pace Project No.: 40151610

Sample: MW-49A **Lab ID: 40151610012** Collected: 06/13/17 11:04 Received: 06/14/17 09:50 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260							
1,1,1-Trichloroethane	<0.50	ug/L	1.0	0.50	1		06/16/17 12:07	71-55-6	
1,1-Dichloroethane	<0.24	ug/L	1.0	0.24	1		06/16/17 12:07	75-34-3	
1,1-Dichloroethene	<0.41	ug/L	1.0	0.41	1		06/16/17 12:07	75-35-4	
Tetrachloroethene	<0.50	ug/L	1.0	0.50	1		06/16/17 12:07	127-18-4	
Trichloroethene	0.67J	ug/L	1.0	0.33	1		06/16/17 12:07	79-01-6	
Surrogates									
4-Bromofluorobenzene (S)	104	%	61-130		1		06/16/17 12:07	460-00-4	
Dibromofluoromethane (S)	114	%	67-130		1		06/16/17 12:07	1868-53-7	
Toluene-d8 (S)	98	%	70-130		1		06/16/17 12:07	2037-26-5	

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ANALYTICAL RESULTS

Project: 34283.000 NPI

Pace Project No.: 40151610

Sample: MW-49B **Lab ID: 40151610013** Collected: 06/13/17 11:02 Received: 06/14/17 09:50 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260							
1,1,1-Trichloroethane	<0.50	ug/L	1.0	0.50	1		06/16/17 12:30	71-55-6	
1,1-Dichloroethane	<0.24	ug/L	1.0	0.24	1		06/16/17 12:30	75-34-3	
1,1-Dichloroethene	<0.41	ug/L	1.0	0.41	1		06/16/17 12:30	75-35-4	
Tetrachloroethene	<0.50	ug/L	1.0	0.50	1		06/16/17 12:30	127-18-4	
Trichloroethene	<0.33	ug/L	1.0	0.33	1		06/16/17 12:30	79-01-6	
Surrogates									
4-Bromofluorobenzene (S)	110	%	61-130		1		06/16/17 12:30	460-00-4	
Dibromofluoromethane (S)	116	%	67-130		1		06/16/17 12:30	1868-53-7	
Toluene-d8 (S)	96	%	70-130		1		06/16/17 12:30	2037-26-5	

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ANALYTICAL RESULTS

Project: 34283.000 NPI

Pace Project No.: 40151610

Sample: MW-51A **Lab ID: 40151610014** Collected: 06/13/17 09:50 Received: 06/14/17 09:50 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260							
1,1,1-Trichloroethane	<0.50	ug/L	1.0	0.50	1		06/16/17 12:53	71-55-6	
1,1-Dichloroethane	<0.24	ug/L	1.0	0.24	1		06/16/17 12:53	75-34-3	
1,1-Dichloroethene	<0.41	ug/L	1.0	0.41	1		06/16/17 12:53	75-35-4	
Tetrachloroethene	<0.50	ug/L	1.0	0.50	1		06/16/17 12:53	127-18-4	
Trichloroethene	0.64J	ug/L	1.0	0.33	1		06/16/17 12:53	79-01-6	
Surrogates									
4-Bromofluorobenzene (S)	112	%	61-130		1		06/16/17 12:53	460-00-4	
Dibromofluoromethane (S)	116	%	67-130		1		06/16/17 12:53	1868-53-7	
Toluene-d8 (S)	96	%	70-130		1		06/16/17 12:53	2037-26-5	

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ANALYTICAL RESULTS

Project: 34283.000 NPI

Pace Project No.: 40151610

Sample: MW-51B **Lab ID: 40151610015** Collected: 06/13/17 09:55 Received: 06/14/17 09:50 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260							
1,1,1-Trichloroethane	<0.50	ug/L	1.0	0.50	1		06/16/17 13:15	71-55-6	
1,1-Dichloroethane	<0.24	ug/L	1.0	0.24	1		06/16/17 13:15	75-34-3	
1,1-Dichloroethene	<0.41	ug/L	1.0	0.41	1		06/16/17 13:15	75-35-4	
Tetrachloroethene	<0.50	ug/L	1.0	0.50	1		06/16/17 13:15	127-18-4	
Trichloroethene	4.2	ug/L	1.0	0.33	1		06/16/17 13:15	79-01-6	
Surrogates									
4-Bromofluorobenzene (S)	107	%	61-130		1		06/16/17 13:15	460-00-4	
Dibromofluoromethane (S)	119	%	67-130		1		06/16/17 13:15	1868-53-7	
Toluene-d8 (S)	91	%	70-130		1		06/16/17 13:15	2037-26-5	

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ANALYTICAL RESULTS

Project: 34283.000 NPI

Pace Project No.: 40151610

Sample: MW-52A **Lab ID: 40151610016** Collected: 06/13/17 10:05 Received: 06/14/17 09:50 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260							
1,1,1-Trichloroethane	<0.50	ug/L	1.0	0.50	1		06/16/17 09:42	71-55-6	
1,1-Dichloroethane	<0.24	ug/L	1.0	0.24	1		06/16/17 09:42	75-34-3	
1,1-Dichloroethene	<0.41	ug/L	1.0	0.41	1		06/16/17 09:42	75-35-4	
Tetrachloroethene	<0.50	ug/L	1.0	0.50	1		06/16/17 09:42	127-18-4	
Trichloroethene	3.7	ug/L	1.0	0.33	1		06/16/17 09:42	79-01-6	
Surrogates									
4-Bromofluorobenzene (S)	91	%	61-130		1		06/16/17 09:42	460-00-4	
Dibromofluoromethane (S)	100	%	67-130		1		06/16/17 09:42	1868-53-7	
Toluene-d8 (S)	100	%	70-130		1		06/16/17 09:42	2037-26-5	

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ANALYTICAL RESULTS

Project: 34283.000 NPI

Pace Project No.: 40151610

Sample: MW-52B **Lab ID: 40151610017** Collected: 06/13/17 10:10 Received: 06/14/17 09:50 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260							
1,1,1-Trichloroethane	0.51J	ug/L	1.0	0.50	1		06/16/17 13:38	71-55-6	
1,1-Dichloroethane	<0.24	ug/L	1.0	0.24	1		06/16/17 13:38	75-34-3	
1,1-Dichloroethene	<0.41	ug/L	1.0	0.41	1		06/16/17 13:38	75-35-4	
Tetrachloroethene	<0.50	ug/L	1.0	0.50	1		06/16/17 13:38	127-18-4	
Trichloroethene	5.0	ug/L	1.0	0.33	1		06/16/17 13:38	79-01-6	
Surrogates									
4-Bromofluorobenzene (S)	105	%	61-130		1		06/16/17 13:38	460-00-4	
Dibromofluoromethane (S)	114	%	67-130		1		06/16/17 13:38	1868-53-7	
Toluene-d8 (S)	94	%	70-130		1		06/16/17 13:38	2037-26-5	

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ANALYTICAL RESULTS

Project: 34283.000 NPI

Pace Project No.: 40151610

Sample: MW-53A **Lab ID: 40151610018** Collected: 06/13/17 10:20 Received: 06/14/17 09:50 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260							
1,1,1-Trichloroethane	<0.50	ug/L	1.0	0.50	1		06/16/17 14:00	71-55-6	
1,1-Dichloroethane	<0.24	ug/L	1.0	0.24	1		06/16/17 14:00	75-34-3	
1,1-Dichloroethene	<0.41	ug/L	1.0	0.41	1		06/16/17 14:00	75-35-4	
Tetrachloroethene	<0.50	ug/L	1.0	0.50	1		06/16/17 14:00	127-18-4	
Trichloroethene	2.2	ug/L	1.0	0.33	1		06/16/17 14:00	79-01-6	
Surrogates									
4-Bromofluorobenzene (S)	103	%	61-130		1		06/16/17 14:00	460-00-4	
Dibromofluoromethane (S)	114	%	67-130		1		06/16/17 14:00	1868-53-7	
Toluene-d8 (S)	97	%	70-130		1		06/16/17 14:00	2037-26-5	

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ANALYTICAL RESULTS

Project: 34283.000 NPI

Pace Project No.: 40151610

Sample: MW-53B **Lab ID: 40151610019** Collected: 06/13/17 10:25 Received: 06/14/17 09:50 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260							
1,1,1-Trichloroethane	<0.50	ug/L	1.0	0.50	1		06/16/17 14:23	71-55-6	
1,1-Dichloroethane	<0.24	ug/L	1.0	0.24	1		06/16/17 14:23	75-34-3	
1,1-Dichloroethene	<0.41	ug/L	1.0	0.41	1		06/16/17 14:23	75-35-4	
Tetrachloroethene	<0.50	ug/L	1.0	0.50	1		06/16/17 14:23	127-18-4	
Trichloroethene	4.1	ug/L	1.0	0.33	1		06/16/17 14:23	79-01-6	
Surrogates									
4-Bromofluorobenzene (S)	104	%	61-130		1		06/16/17 14:23	460-00-4	
Dibromofluoromethane (S)	115	%	67-130		1		06/16/17 14:23	1868-53-7	
Toluene-d8 (S)	97	%	70-130		1		06/16/17 14:23	2037-26-5	

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ANALYTICAL RESULTS

Project: 34283.000 NPI

Pace Project No.: 40151610

Sample: MW-54A **Lab ID: 40151610020** Collected: 06/13/17 10:50 Received: 06/14/17 09:50 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260							
1,1,1-Trichloroethane	<0.50	ug/L	1.0	0.50	1		06/16/17 14:46	71-55-6	
1,1-Dichloroethane	<0.24	ug/L	1.0	0.24	1		06/16/17 14:46	75-34-3	
1,1-Dichloroethene	<0.41	ug/L	1.0	0.41	1		06/16/17 14:46	75-35-4	
Tetrachloroethene	<0.50	ug/L	1.0	0.50	1		06/16/17 14:46	127-18-4	
Trichloroethene	<0.33	ug/L	1.0	0.33	1		06/16/17 14:46	79-01-6	
Surrogates									
4-Bromofluorobenzene (S)	107	%	61-130		1		06/16/17 14:46	460-00-4	
Dibromofluoromethane (S)	117	%	67-130		1		06/16/17 14:46	1868-53-7	
Toluene-d8 (S)	95	%	70-130		1		06/16/17 14:46	2037-26-5	

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ANALYTICAL RESULTS

Project: 34283.000 NPI

Pace Project No.: 40151610

Sample: MW-54B **Lab ID: 40151610021** Collected: 06/13/17 10:55 Received: 06/14/17 09:50 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260							
1,1,1-Trichloroethane	<0.50	ug/L	1.0	0.50	1		06/16/17 15:08	71-55-6	
1,1-Dichloroethane	<0.24	ug/L	1.0	0.24	1		06/16/17 15:08	75-34-3	
1,1-Dichloroethene	<0.41	ug/L	1.0	0.41	1		06/16/17 15:08	75-35-4	
Tetrachloroethene	<0.50	ug/L	1.0	0.50	1		06/16/17 15:08	127-18-4	
Trichloroethene	4.5	ug/L	1.0	0.33	1		06/16/17 15:08	79-01-6	
Surrogates									
4-Bromofluorobenzene (S)	103	%	61-130		1		06/16/17 15:08	460-00-4	
Dibromofluoromethane (S)	115	%	67-130		1		06/16/17 15:08	1868-53-7	
Toluene-d8 (S)	95	%	70-130		1		06/16/17 15:08	2037-26-5	

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ANALYTICAL RESULTS

Project: 34283.000 NPI

Pace Project No.: 40151610

Sample: MW-54C **Lab ID: 40151610022** Collected: 06/13/17 11:00 Received: 06/14/17 09:50 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260							
1,1,1-Trichloroethane	<0.50	ug/L	1.0	0.50	1		06/16/17 11:13	71-55-6	
1,1-Dichloroethane	<0.24	ug/L	1.0	0.24	1		06/16/17 11:13	75-34-3	
1,1-Dichloroethene	<0.41	ug/L	1.0	0.41	1		06/16/17 11:13	75-35-4	
Tetrachloroethene	<0.50	ug/L	1.0	0.50	1		06/16/17 11:13	127-18-4	
Trichloroethene	4.4	ug/L	1.0	0.33	1		06/16/17 11:13	79-01-6	
Surrogates									
4-Bromofluorobenzene (S)	93	%	61-130		1		06/16/17 11:13	460-00-4	
Dibromofluoromethane (S)	100	%	67-130		1		06/16/17 11:13	1868-53-7	
Toluene-d8 (S)	99	%	70-130		1		06/16/17 11:13	2037-26-5	

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ANALYTICAL RESULTS

Project: 34283.000 NPI

Pace Project No.: 40151610

Sample: MW-54C DUP **Lab ID: 40151610023** Collected: 06/13/17 11:00 Received: 06/14/17 09:50 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260							
1,1,1-Trichloroethane	<0.50	ug/L	1.0	0.50	1		06/16/17 11:36	71-55-6	
1,1-Dichloroethane	<0.24	ug/L	1.0	0.24	1		06/16/17 11:36	75-34-3	
1,1-Dichloroethene	<0.41	ug/L	1.0	0.41	1		06/16/17 11:36	75-35-4	
Tetrachloroethene	<0.50	ug/L	1.0	0.50	1		06/16/17 11:36	127-18-4	
Trichloroethene	4.5	ug/L	1.0	0.33	1		06/16/17 11:36	79-01-6	
Surrogates									
4-Bromofluorobenzene (S)	93	%	61-130		1		06/16/17 11:36	460-00-4	
Dibromofluoromethane (S)	102	%	67-130		1		06/16/17 11:36	1868-53-7	
Toluene-d8 (S)	99	%	70-130		1		06/16/17 11:36	2037-26-5	

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ANALYTICAL RESULTS

Project: 34283.000 NPI

Pace Project No.: 40151610

Sample: MW-55B **Lab ID: 40151610024** Collected: 06/13/17 11:20 Received: 06/14/17 09:50 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260							
1,1,1-Trichloroethane	<0.50	ug/L	1.0	0.50	1		06/16/17 11:59	71-55-6	
1,1-Dichloroethane	<0.24	ug/L	1.0	0.24	1		06/16/17 11:59	75-34-3	
1,1-Dichloroethene	<0.41	ug/L	1.0	0.41	1		06/16/17 11:59	75-35-4	
Tetrachloroethene	<0.50	ug/L	1.0	0.50	1		06/16/17 11:59	127-18-4	
Trichloroethene	1.6	ug/L	1.0	0.33	1		06/16/17 11:59	79-01-6	
Surrogates									
4-Bromofluorobenzene (S)	88	%	61-130		1		06/16/17 11:59	460-00-4	
Dibromofluoromethane (S)	99	%	67-130		1		06/16/17 11:59	1868-53-7	
Toluene-d8 (S)	97	%	70-130		1		06/16/17 11:59	2037-26-5	

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ANALYTICAL RESULTS

Project: 34283.000 NPI

Pace Project No.: 40151610

Sample: MW-55C **Lab ID: 40151610025** Collected: 06/13/17 11:15 Received: 06/14/17 09:50 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260							
1,1,1-Trichloroethane	<0.50	ug/L	1.0	0.50	1		06/16/17 10:05	71-55-6	
1,1-Dichloroethane	<0.24	ug/L	1.0	0.24	1		06/16/17 10:05	75-34-3	
1,1-Dichloroethene	<0.41	ug/L	1.0	0.41	1		06/16/17 10:05	75-35-4	
Tetrachloroethene	<0.50	ug/L	1.0	0.50	1		06/16/17 10:05	127-18-4	
Trichloroethene	<0.33	ug/L	1.0	0.33	1		06/16/17 10:05	79-01-6	
Surrogates									
4-Bromofluorobenzene (S)	91	%	61-130		1		06/16/17 10:05	460-00-4	
Dibromofluoromethane (S)	102	%	67-130		1		06/16/17 10:05	1868-53-7	
Toluene-d8 (S)	98	%	70-130		1		06/16/17 10:05	2037-26-5	

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ANALYTICAL RESULTS

Project: 34283.000 NPI

Pace Project No.: 40151610

Sample: MW-57A **Lab ID: 40151610026** Collected: 06/13/17 10:35 Received: 06/14/17 09:50 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260							
1,1,1-Trichloroethane	<0.50	ug/L	1.0	0.50	1		06/16/17 10:51	71-55-6	
1,1-Dichloroethane	<0.24	ug/L	1.0	0.24	1		06/16/17 10:51	75-34-3	
1,1-Dichloroethene	<0.41	ug/L	1.0	0.41	1		06/16/17 10:51	75-35-4	
Tetrachloroethene	<0.50	ug/L	1.0	0.50	1		06/16/17 10:51	127-18-4	
Trichloroethene	0.33J	ug/L	1.0	0.33	1		06/16/17 10:51	79-01-6	
Surrogates									
4-Bromofluorobenzene (S)	88	%	61-130		1		06/16/17 10:51	460-00-4	
Dibromofluoromethane (S)	96	%	67-130		1		06/16/17 10:51	1868-53-7	
Toluene-d8 (S)	95	%	70-130		1		06/16/17 10:51	2037-26-5	

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ANALYTICAL RESULTS

Project: 34283.000 NPI

Pace Project No.: 40151610

Sample: MW-57B **Lab ID: 40151610027** Collected: 06/13/17 10:30 Received: 06/14/17 09:50 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260							
1,1,1-Trichloroethane	<0.50	ug/L	1.0	0.50	1		06/16/17 12:22	71-55-6	
1,1-Dichloroethane	<0.24	ug/L	1.0	0.24	1		06/16/17 12:22	75-34-3	
1,1-Dichloroethene	<0.41	ug/L	1.0	0.41	1		06/16/17 12:22	75-35-4	
Tetrachloroethene	<0.50	ug/L	1.0	0.50	1		06/16/17 12:22	127-18-4	
Trichloroethene	0.43J	ug/L	1.0	0.33	1		06/16/17 12:22	79-01-6	
Surrogates									
4-Bromofluorobenzene (S)	91	%	61-130		1		06/16/17 12:22	460-00-4	
Dibromofluoromethane (S)	104	%	67-130		1		06/16/17 12:22	1868-53-7	
Toluene-d8 (S)	99	%	70-130		1		06/16/17 12:22	2037-26-5	

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ANALYTICAL RESULTS

Project: 34283.000 NPI

Pace Project No.: 40151610

Sample: MW-43A **Lab ID: 40151610028** Collected: 06/13/17 15:35 Received: 06/14/17 09:50 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260							
1,1,1-Trichloroethane	<0.50	ug/L	1.0	0.50	1		06/16/17 12:44	71-55-6	
1,1-Dichloroethane	<0.24	ug/L	1.0	0.24	1		06/16/17 12:44	75-34-3	
1,1-Dichloroethene	<0.41	ug/L	1.0	0.41	1		06/16/17 12:44	75-35-4	
Tetrachloroethene	<0.50	ug/L	1.0	0.50	1		06/16/17 12:44	127-18-4	
Trichloroethene	2.5	ug/L	1.0	0.33	1		06/16/17 12:44	79-01-6	
Surrogates									
4-Bromofluorobenzene (S)	87	%	61-130		1		06/16/17 12:44	460-00-4	
Dibromofluoromethane (S)	102	%	67-130		1		06/16/17 12:44	1868-53-7	
Toluene-d8 (S)	96	%	70-130		1		06/16/17 12:44	2037-26-5	

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ANALYTICAL RESULTS

Project: 34283.000 NPI

Pace Project No.: 40151610

Sample: MW-43B **Lab ID: 40151610029** Collected: 06/13/17 15:30 Received: 06/14/17 09:50 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260							
1,1,1-Trichloroethane	<0.50	ug/L	1.0	0.50	1		06/16/17 13:07	71-55-6	
1,1-Dichloroethane	<0.24	ug/L	1.0	0.24	1		06/16/17 13:07	75-34-3	
1,1-Dichloroethene	<0.41	ug/L	1.0	0.41	1		06/16/17 13:07	75-35-4	
Tetrachloroethene	<0.50	ug/L	1.0	0.50	1		06/16/17 13:07	127-18-4	
Trichloroethene	1.7	ug/L	1.0	0.33	1		06/16/17 13:07	79-01-6	
Surrogates									
4-Bromofluorobenzene (S)	89	%	61-130		1		06/16/17 13:07	460-00-4	
Dibromofluoromethane (S)	103	%	67-130		1		06/16/17 13:07	1868-53-7	
Toluene-d8 (S)	98	%	70-130		1		06/16/17 13:07	2037-26-5	

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ANALYTICAL RESULTS

Project: 34283.000 NPI

Pace Project No.: 40151610

Sample: MW-45A **Lab ID: 40151610030** Collected: 06/13/17 11:45 Received: 06/14/17 09:50 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260							
1,1,1-Trichloroethane	<0.50	ug/L	1.0	0.50	1		06/16/17 13:30	71-55-6	
1,1-Dichloroethane	<0.24	ug/L	1.0	0.24	1		06/16/17 13:30	75-34-3	
1,1-Dichloroethene	<0.41	ug/L	1.0	0.41	1		06/16/17 13:30	75-35-4	
Tetrachloroethene	<0.50	ug/L	1.0	0.50	1		06/16/17 13:30	127-18-4	
Trichloroethene	1.0	ug/L	1.0	0.33	1		06/16/17 13:30	79-01-6	
Surrogates									
4-Bromofluorobenzene (S)	90	%	61-130		1		06/16/17 13:30	460-00-4	
Dibromofluoromethane (S)	99	%	67-130		1		06/16/17 13:30	1868-53-7	
Toluene-d8 (S)	96	%	70-130		1		06/16/17 13:30	2037-26-5	

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ANALYTICAL RESULTS

Project: 34283.000 NPI

Pace Project No.: 40151610

Sample: MW-45B **Lab ID: 40151610031** Collected: 06/13/17 11:35 Received: 06/14/17 09:50 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260							
1,1,1-Trichloroethane	<0.50	ug/L	1.0	0.50	1		06/16/17 13:53	71-55-6	
1,1-Dichloroethane	<0.24	ug/L	1.0	0.24	1		06/16/17 13:53	75-34-3	
1,1-Dichloroethene	<0.41	ug/L	1.0	0.41	1		06/16/17 13:53	75-35-4	
Tetrachloroethene	<0.50	ug/L	1.0	0.50	1		06/16/17 13:53	127-18-4	
Trichloroethene	2.1	ug/L	1.0	0.33	1		06/16/17 13:53	79-01-6	
Surrogates									
4-Bromofluorobenzene (S)	93	%	61-130		1		06/16/17 13:53	460-00-4	
Dibromofluoromethane (S)	102	%	67-130		1		06/16/17 13:53	1868-53-7	
Toluene-d8 (S)	99	%	70-130		1		06/16/17 13:53	2037-26-5	

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ANALYTICAL RESULTS

Project: 34283.000 NPI

Pace Project No.: 40151610

Sample: MW-45C **Lab ID: 40151610032** Collected: 06/13/17 11:40 Received: 06/14/17 09:50 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260							
1,1,1-Trichloroethane	<0.50	ug/L	1.0	0.50	1		06/16/17 14:16	71-55-6	
1,1-Dichloroethane	<0.24	ug/L	1.0	0.24	1		06/16/17 14:16	75-34-3	
1,1-Dichloroethene	<0.41	ug/L	1.0	0.41	1		06/16/17 14:16	75-35-4	
Tetrachloroethene	<0.50	ug/L	1.0	0.50	1		06/16/17 14:16	127-18-4	
Trichloroethene	3.0	ug/L	1.0	0.33	1		06/16/17 14:16	79-01-6	
Surrogates									
4-Bromofluorobenzene (S)	91	%	61-130		1		06/16/17 14:16	460-00-4	
Dibromofluoromethane (S)	96	%	67-130		1		06/16/17 14:16	1868-53-7	
Toluene-d8 (S)	97	%	70-130		1		06/16/17 14:16	2037-26-5	

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ANALYTICAL RESULTS

Project: 34283.000 NPI

Pace Project No.: 40151610

Sample: MW-47A **Lab ID: 40151610033** Collected: 06/13/17 15:00 Received: 06/14/17 09:50 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260							
1,1,1-Trichloroethane	<0.50	ug/L	1.0	0.50	1		06/16/17 14:38	71-55-6	
1,1-Dichloroethane	<0.24	ug/L	1.0	0.24	1		06/16/17 14:38	75-34-3	
1,1-Dichloroethene	<0.41	ug/L	1.0	0.41	1		06/16/17 14:38	75-35-4	
Tetrachloroethene	<0.50	ug/L	1.0	0.50	1		06/16/17 14:38	127-18-4	
Trichloroethene	0.58J	ug/L	1.0	0.33	1		06/16/17 14:38	79-01-6	
Surrogates									
4-Bromofluorobenzene (S)	90	%	61-130		1		06/16/17 14:38	460-00-4	
Dibromofluoromethane (S)	103	%	67-130		1		06/16/17 14:38	1868-53-7	
Toluene-d8 (S)	96	%	70-130		1		06/16/17 14:38	2037-26-5	

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ANALYTICAL RESULTS

Project: 34283.000 NPI

Pace Project No.: 40151610

Sample: MW-47B **Lab ID: 40151610034** Collected: 06/13/17 14:55 Received: 06/14/17 09:50 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260							
1,1,1-Trichloroethane	<0.50	ug/L	1.0	0.50	1		06/16/17 15:01	71-55-6	
1,1-Dichloroethane	<0.24	ug/L	1.0	0.24	1		06/16/17 15:01	75-34-3	
1,1-Dichloroethene	<0.41	ug/L	1.0	0.41	1		06/16/17 15:01	75-35-4	
Tetrachloroethene	<0.50	ug/L	1.0	0.50	1		06/16/17 15:01	127-18-4	
Trichloroethene	<0.33	ug/L	1.0	0.33	1		06/16/17 15:01	79-01-6	
Surrogates									
4-Bromofluorobenzene (S)	89	%	61-130		1		06/16/17 15:01	460-00-4	
Dibromofluoromethane (S)	98	%	67-130		1		06/16/17 15:01	1868-53-7	
Toluene-d8 (S)	96	%	70-130		1		06/16/17 15:01	2037-26-5	

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ANALYTICAL RESULTS

Project: 34283.000 NPI

Pace Project No.: 40151610

Sample: RW-16 **Lab ID: 40151610035** Collected: 06/13/17 15:15 Received: 06/14/17 09:50 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260							
1,1,1-Trichloroethane	<0.50	ug/L	1.0	0.50	1		06/19/17 12:26	71-55-6	
1,1-Dichloroethane	<0.24	ug/L	1.0	0.24	1		06/19/17 12:26	75-34-3	
1,1-Dichloroethene	<0.41	ug/L	1.0	0.41	1		06/19/17 12:26	75-35-4	
Tetrachloroethene	<0.50	ug/L	1.0	0.50	1		06/19/17 12:26	127-18-4	
Trichloroethene	2.2	ug/L	1.0	0.33	1		06/19/17 12:26	79-01-6	
Surrogates									
4-Bromofluorobenzene (S)	87	%	61-130		1		06/19/17 12:26	460-00-4	
Dibromofluoromethane (S)	92	%	67-130		1		06/19/17 12:26	1868-53-7	
Toluene-d8 (S)	96	%	70-130		1		06/19/17 12:26	2037-26-5	

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ANALYTICAL RESULTS

Project: 34283.000 NPI

Pace Project No.: 40151610

Sample: RW-16B **Lab ID: 40151610036** Collected: 06/13/17 15:05 Received: 06/14/17 09:50 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260							
1,1,1-Trichloroethane	<0.50	ug/L	1.0	0.50	1		06/19/17 12:49	71-55-6	
1,1-Dichloroethane	<0.24	ug/L	1.0	0.24	1		06/19/17 12:49	75-34-3	
1,1-Dichloroethene	<0.41	ug/L	1.0	0.41	1		06/19/17 12:49	75-35-4	
Tetrachloroethene	<0.50	ug/L	1.0	0.50	1		06/19/17 12:49	127-18-4	
Trichloroethene	0.90J	ug/L	1.0	0.33	1		06/19/17 12:49	79-01-6	
Surrogates									
4-Bromofluorobenzene (S)	88	%	61-130		1		06/19/17 12:49	460-00-4	
Dibromofluoromethane (S)	91	%	67-130		1		06/19/17 12:49	1868-53-7	
Toluene-d8 (S)	96	%	70-130		1		06/19/17 12:49	2037-26-5	

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ANALYTICAL RESULTS

Project: 34283.000 NPI

Pace Project No.: 40151610

Sample: RW-16C **Lab ID: 40151610037** Collected: 06/13/17 15:10 Received: 06/14/17 09:50 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260							
1,1,1-Trichloroethane	<0.50	ug/L	1.0	0.50	1		06/19/17 13:12	71-55-6	
1,1-Dichloroethane	<0.24	ug/L	1.0	0.24	1		06/19/17 13:12	75-34-3	
1,1-Dichloroethene	<0.41	ug/L	1.0	0.41	1		06/19/17 13:12	75-35-4	
Tetrachloroethene	<0.50	ug/L	1.0	0.50	1		06/19/17 13:12	127-18-4	
Trichloroethene	3.9	ug/L	1.0	0.33	1		06/19/17 13:12	79-01-6	
Surrogates									
4-Bromofluorobenzene (S)	88	%	61-130		1		06/19/17 13:12	460-00-4	
Dibromofluoromethane (S)	90	%	67-130		1		06/19/17 13:12	1868-53-7	
Toluene-d8 (S)	95	%	70-130		1		06/19/17 13:12	2037-26-5	

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ANALYTICAL RESULTS

Project: 34283.000 NPI

Pace Project No.: 40151610

Sample: TRIP BLANK **Lab ID: 40151610038** Collected: 06/13/17 00:00 Received: 06/14/17 09:50 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260							
1,1,1-Trichloroethane	<0.50	ug/L	1.0	0.50	1		06/16/17 09:19	71-55-6	
1,1-Dichloroethane	<0.24	ug/L	1.0	0.24	1		06/16/17 09:19	75-34-3	
1,1-Dichloroethene	<0.41	ug/L	1.0	0.41	1		06/16/17 09:19	75-35-4	
Tetrachloroethene	<0.50	ug/L	1.0	0.50	1		06/16/17 09:19	127-18-4	
Trichloroethene	<0.33	ug/L	1.0	0.33	1		06/16/17 09:19	79-01-6	
Surrogates									
4-Bromofluorobenzene (S)	92	%	61-130		1		06/16/17 09:19	460-00-4	
Dibromofluoromethane (S)	100	%	67-130		1		06/16/17 09:19	1868-53-7	
Toluene-d8 (S)	100	%	70-130		1		06/16/17 09:19	2037-26-5	

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ANALYTICAL RESULTS

Project: 34283.000 NPI

Pace Project No.: 40151610

Sample: MW-51B DUP **Lab ID: 40151610039** Collected: 06/13/17 09:55 Received: 06/14/17 09:50 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260							
1,1,1-Trichloroethane	<0.50	ug/L	1.0	0.50	1		06/19/17 13:34	71-55-6	
1,1-Dichloroethane	<0.24	ug/L	1.0	0.24	1		06/19/17 13:34	75-34-3	
1,1-Dichloroethene	<0.41	ug/L	1.0	0.41	1		06/19/17 13:34	75-35-4	
Tetrachloroethene	<0.50	ug/L	1.0	0.50	1		06/19/17 13:34	127-18-4	
Trichloroethene	4.2	ug/L	1.0	0.33	1		06/19/17 13:34	79-01-6	
Surrogates									
4-Bromofluorobenzene (S)	89	%	61-130		1		06/19/17 13:34	460-00-4	
Dibromofluoromethane (S)	97	%	67-130		1		06/19/17 13:34	1868-53-7	
Toluene-d8 (S)	93	%	70-130		1		06/19/17 13:34	2037-26-5	

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ANALYTICAL RESULTS

Project: 34283.000 NPI

Pace Project No.: 40151610

Sample: MH-18 **Lab ID: 40151610040** Collected: 06/13/17 08:00 Received: 06/14/17 09:50 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260							
1,1,1-Trichloroethane	0.83J	ug/L	1.0	0.50	1		06/16/17 10:28	71-55-6	
1,1-Dichloroethane	<0.24	ug/L	1.0	0.24	1		06/16/17 10:28	75-34-3	
1,1-Dichloroethene	<0.41	ug/L	1.0	0.41	1		06/16/17 10:28	75-35-4	
Tetrachloroethene	<0.50	ug/L	1.0	0.50	1		06/16/17 10:28	127-18-4	
Trichloroethene	0.39J	ug/L	1.0	0.33	1		06/16/17 10:28	79-01-6	
Surrogates									
4-Bromofluorobenzene (S)	90	%	61-130		1		06/16/17 10:28	460-00-4	
Dibromofluoromethane (S)	101	%	67-130		1		06/16/17 10:28	1868-53-7	
Toluene-d8 (S)	96	%	70-130		1		06/16/17 10:28	2037-26-5	

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ANALYTICAL RESULTS

Project: 34283.000 NPI

Pace Project No.: 40151610

Sample: MW-4A **Lab ID: 40151610041** Collected: 06/13/17 08:25 Received: 06/14/17 09:50 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260							
1,1,1-Trichloroethane	<0.50	ug/L	1.0	0.50	1		06/20/17 18:25	71-55-6	
1,1-Dichloroethane	<0.24	ug/L	1.0	0.24	1		06/20/17 18:25	75-34-3	
1,1-Dichloroethene	<0.41	ug/L	1.0	0.41	1		06/20/17 18:25	75-35-4	
Tetrachloroethene	<0.50	ug/L	1.0	0.50	1		06/20/17 18:25	127-18-4	
Trichloroethene	<0.33	ug/L	1.0	0.33	1		06/20/17 18:25	79-01-6	
Surrogates									
4-Bromofluorobenzene (S)	99	%	61-130		1		06/20/17 18:25	460-00-4	
Dibromofluoromethane (S)	108	%	67-130		1		06/20/17 18:25	1868-53-7	
Toluene-d8 (S)	91	%	70-130		1		06/20/17 18:25	2037-26-5	

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QUALITY CONTROL DATA

Project: 34283.000 NPI
Pace Project No.: 40151610

QC Batch: 258613 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV
Associated Lab Samples: 40151610001, 40151610002, 40151610003, 40151610004, 40151610005, 40151610006, 40151610007, 40151610008, 40151610009, 40151610010, 40151610011, 40151610012, 40151610013, 40151610014, 40151610015, 40151610017, 40151610018, 40151610019, 40151610020, 40151610021

METHOD BLANK: 1523766 Matrix: Water
Associated Lab Samples: 40151610001, 40151610002, 40151610003, 40151610004, 40151610005, 40151610006, 40151610007, 40151610008, 40151610009, 40151610010, 40151610011, 40151610012, 40151610013, 40151610014, 40151610015, 40151610017, 40151610018, 40151610019, 40151610020, 40151610021

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	<0.50	1.0	06/15/17 17:06	
1,1-Dichloroethane	ug/L	<0.24	1.0	06/15/17 17:06	
1,1-Dichloroethene	ug/L	<0.41	1.0	06/15/17 17:06	
Tetrachloroethene	ug/L	<0.50	1.0	06/15/17 17:06	
Trichloroethene	ug/L	<0.33	1.0	06/15/17 17:06	
4-Bromofluorobenzene (S)	%	113	61-130	06/15/17 17:06	
Dibromofluoromethane (S)	%	113	67-130	06/15/17 17:06	
Toluene-d8 (S)	%	91	70-130	06/15/17 17:06	

LABORATORY CONTROL SAMPLE: 1523767

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	50	57.9	116	70-130	
1,1-Dichloroethane	ug/L	50	63.7	127	71-132	
1,1-Dichloroethene	ug/L	50	58.1	116	75-130	
Tetrachloroethene	ug/L	50	48.7	97	70-130	
Trichloroethene	ug/L	50	61.1	122	70-130	
4-Bromofluorobenzene (S)	%			120	61-130	
Dibromofluoromethane (S)	%			114	67-130	
Toluene-d8 (S)	%			97	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1523768 1523769

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		40151610005 Result	Spike Conc.	Spike Conc.	MS Result						
1,1,1-Trichloroethane	ug/L	1.7	50	50	58.1	55.9	113	108	70-134	4	20
1,1-Dichloroethane	ug/L	<0.24	50	50	61.7	60.8	123	122	71-133	1	20
1,1-Dichloroethene	ug/L	<0.41	50	50	56.1	54.6	112	109	75-136	3	20
Tetrachloroethene	ug/L	<0.50	50	50	47.0	46.6	93	92	70-130	1	20
Trichloroethene	ug/L	<0.33	50	50	62.1	60.7	124	121	70-130	2	20
4-Bromofluorobenzene (S)	%						116	111	61-130		
Dibromofluoromethane (S)	%						108	108	67-130		
Toluene-d8 (S)	%						96	99	70-130		

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QUALITY CONTROL DATA

Project: 34283.000 NPI
Pace Project No.: 40151610

QC Batch: 258614 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV
Associated Lab Samples: 40151610016, 40151610022, 40151610023, 40151610024, 40151610025, 40151610026, 40151610027, 40151610028, 40151610029, 40151610030, 40151610031, 40151610032, 40151610033, 40151610034, 40151610035, 40151610036, 40151610037, 40151610038, 40151610039, 40151610040

METHOD BLANK: 1523770 Matrix: Water
Associated Lab Samples: 40151610016, 40151610022, 40151610023, 40151610024, 40151610025, 40151610026, 40151610027, 40151610028, 40151610029, 40151610030, 40151610031, 40151610032, 40151610033, 40151610034, 40151610035, 40151610036, 40151610037, 40151610038, 40151610039, 40151610040

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	<0.50	1.0	06/16/17 07:48	
1,1-Dichloroethane	ug/L	<0.24	1.0	06/16/17 07:48	
1,1-Dichloroethene	ug/L	<0.41	1.0	06/16/17 07:48	
Tetrachloroethene	ug/L	<0.50	1.0	06/16/17 07:48	
Trichloroethene	ug/L	<0.33	1.0	06/16/17 07:48	
4-Bromofluorobenzene (S)	%	91	61-130	06/16/17 07:48	
Dibromofluoromethane (S)	%	97	67-130	06/16/17 07:48	
Toluene-d8 (S)	%	100	70-130	06/16/17 07:48	

LABORATORY CONTROL SAMPLE: 1523771

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	50	50.9	102	70-130	
1,1-Dichloroethane	ug/L	50	57.1	114	71-132	
1,1-Dichloroethene	ug/L	50	47.7	95	75-130	
Tetrachloroethene	ug/L	50	51.8	104	70-130	
Trichloroethene	ug/L	50	53.1	106	70-130	
4-Bromofluorobenzene (S)	%			97	61-130	
Dibromofluoromethane (S)	%			100	67-130	
Toluene-d8 (S)	%			95	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1523772 1523773

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	Max RPD	Qual	
		40151610016 Result	Spike Conc.	Spike Conc.	MS Result						MSD Result
1,1,1-Trichloroethane	ug/L	<0.50	50	50	53.2	52.4	106	105	70-134	2	20
1,1-Dichloroethane	ug/L	<0.24	50	50	59.8	57.2	120	114	71-133	4	20
1,1-Dichloroethene	ug/L	<0.41	50	50	51.4	49.8	103	100	75-136	3	20
Tetrachloroethene	ug/L	<0.50	50	50	54.0	55.0	108	110	70-130	2	20
Trichloroethene	ug/L	3.7	50	50	57.0	55.4	107	103	70-130	3	20
4-Bromofluorobenzene (S)	%						95	100	61-130		
Dibromofluoromethane (S)	%						101	98	67-130		
Toluene-d8 (S)	%						96	98	70-130		

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QUALITY CONTROL DATA

Project: 34283.000 NPI
Pace Project No.: 40151610

QC Batch: 258768 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV
Associated Lab Samples: 40151610041

METHOD BLANK: 1524697 Matrix: Water
Associated Lab Samples: 40151610041

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	<0.50	1.0	06/20/17 06:32	
1,1-Dichloroethane	ug/L	<0.24	1.0	06/20/17 06:32	
1,1-Dichloroethene	ug/L	<0.41	1.0	06/20/17 06:32	
Tetrachloroethene	ug/L	<0.50	1.0	06/20/17 06:32	
Trichloroethene	ug/L	<0.33	1.0	06/20/17 06:32	
4-Bromofluorobenzene (S)	%	98	61-130	06/20/17 06:32	
Dibromofluoromethane (S)	%	107	67-130	06/20/17 06:32	
Toluene-d8 (S)	%	92	70-130	06/20/17 06:32	

LABORATORY CONTROL SAMPLE: 1524698

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	50	64.2	128	70-130	
1,1-Dichloroethane	ug/L	50	52.5	105	71-132	
1,1-Dichloroethene	ug/L	50	51.9	104	75-130	
Tetrachloroethene	ug/L	50	52.9	106	70-130	
Trichloroethene	ug/L	50	58.0	116	70-130	
4-Bromofluorobenzene (S)	%			103	61-130	
Dibromofluoromethane (S)	%			107	67-130	
Toluene-d8 (S)	%			92	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1524901 1524902

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	Max RPD	Qual
		40151727013 Result	Spike Conc.	Spike Conc.	MS Result					
1,1,1-Trichloroethane	ug/L	<0.50	50	50	65.3	62.7	131	125	70-134	4 20
1,1-Dichloroethane	ug/L	<0.24	50	50	52.9	51.1	106	102	71-133	3 20
1,1-Dichloroethene	ug/L	<0.41	50	50	52.4	50.7	105	101	75-136	3 20
Tetrachloroethene	ug/L	<0.50	50	50	54.7	53.6	109	107	70-130	2 20
Trichloroethene	ug/L	<0.33	50	50	57.9	56.8	116	114	70-130	2 20
4-Bromofluorobenzene (S)	%						102	102	61-130	
Dibromofluoromethane (S)	%						109	108	67-130	
Toluene-d8 (S)	%						91	92	70-130	

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

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

QUALIFIERS

Project: 34283.000 NPI

Pace Project No.: 40151610

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.

LABORATORIES

PASI-G Pace Analytical Services - Green Bay

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 34283.000 NPI
Pace Project No.: 40151610

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40151610001	EW-5- 78'	EPA 8260	258613		
40151610002	EW-5- 88'	EPA 8260	258613		
40151610003	EW-6	EPA 8260	258613		
40151610004	MW-4B	EPA 8260	258613		
40151610005	MW-76A	EPA 8260	258613		
40151610006	MW-76B	EPA 8260	258613		
40151610007	MW-77A	EPA 8260	258613		
40151610008	MW-77A DUP	EPA 8260	258613		
40151610009	MW-77B	EPA 8260	258613		
40151610010	MW-77C	EPA 8260	258613		
40151610011	PW-3R	EPA 8260	258613		
40151610012	MW-49A	EPA 8260	258613		
40151610013	MW-49B	EPA 8260	258613		
40151610014	MW-51A	EPA 8260	258613		
40151610015	MW-51B	EPA 8260	258613		
40151610016	MW-52A	EPA 8260	258614		
40151610017	MW-52B	EPA 8260	258613		
40151610018	MW-53A	EPA 8260	258613		
40151610019	MW-53B	EPA 8260	258613		
40151610020	MW-54A	EPA 8260	258613		
40151610021	MW-54B	EPA 8260	258613		
40151610022	MW-54C	EPA 8260	258614		
40151610023	MW-54C DUP	EPA 8260	258614		
40151610024	MW-55B	EPA 8260	258614		
40151610025	MW-55C	EPA 8260	258614		
40151610026	MW-57A	EPA 8260	258614		
40151610027	MW-57B	EPA 8260	258614		
40151610028	MW-43A	EPA 8260	258614		
40151610029	MW-43B	EPA 8260	258614		
40151610030	MW-45A	EPA 8260	258614		
40151610031	MW-45B	EPA 8260	258614		
40151610032	MW-45C	EPA 8260	258614		
40151610033	MW-47A	EPA 8260	258614		
40151610034	MW-47B	EPA 8260	258614		
40151610035	RW-16	EPA 8260	258614		
40151610036	RW-16B	EPA 8260	258614		
40151610037	RW-16C	EPA 8260	258614		
40151610038	TRIP BLANK	EPA 8260	258614		
40151610039	MW-51B DUP	EPA 8260	258614		
40151610040	MH-18	EPA 8260	258614		
40151610041	MW-4A	EPA 8260	258768		

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, LLC.

(Please Print Clearly)

Company Name: Gannett Fleming
 Branch/Location: Madison, WI
 Project Contact: Cliff Wright
 Phone: 608-836-1500
 Project Number: 34783.000
 Project Name: NRI
 Project State: WI
 Sampled By (Print): Marcus Mussey
 Sampled By (Sign): *[Signature]*
 PO #:
 Regulatory Program:



UPPER MIDWEST REGION
 MN: 612-607-1700 WI: 920-469-2436

CHAIN OF CUSTODY

***Preservation Codes**
 A=None B=HCL C=H2SO4 D=HNO3 E=DI Water F=Methanol G=NaOH
 H=Sodium Bisulfate Solution I=Sodium Thiosulfate J=Other

FILTERED?
(YES/NO)
 PRESERVATION
(CODE)*

Y/N	Pick Letter	Analyses Requested
N	B	NPI short list
		3
		1
		1
		3
		1
		1
		1
		1
		1
		1
		1
		1
		1
		1
		1
		1
		1
		1
		1
		1

Quote #: Cliff Wright
 Mail To Contact:
 Mail To Company: Gannett Fleming
 Mail To Address: 5025 Excelsior Dr Madison, WI 53717
 Invoice To Contact:
 Invoice To Company:
 Invoice To Address:

Invoice To Phone: 608-836-1500
 CLIENT COMMENTS
 LAB COMMENTS (Lab Use Only)
 Profile #

Send Copy of data package to Mary Wenzel at Mary@mcwscientificsoilutions.com
 3-40ml vB
 3-40ml vB
 3-40ml vB

Data Package Options (billable)
 EPA Level III
 EPA Level IV

MS/MSD
 On your sample (billable)
 NOT needed on your sample

Matrix Codes
 A = Air W = Water
 B = Biota DW = Drinking Water
 C = Charcoal GW = Ground Water
 O = Oil SW = Surface Water
 S = Soil WW = Waste Water
 SI = Sludge WP = Wipe

PACE LAB #	CLIENT FIELD ID	COLLECTION		MATRIX
		DATE	TIME	
001	MW-22B	6/13	1300	GW
002	EW-5-78'	6/13	805	GW
003	EW-5-88'		810	
004	EW-6		800	
005	MW-4A		825	
005	MW-4B		820	
	MW-23A		1330	
	MW-23B		1325	
	MW-38A		1355	
	MW-38B		1345	
	MW-38B MS		1345	
	MW-38B MSD		1345	
	MW-38C		1350	

Rush Turnaround Time Requested - Prelims (Rush TAT subject to approval/surcharge)
 Date Needed:
 Transmit Prelim Rush Results by (complete what you want):
 Email #1:
 Email #2:
 Telephone:
 Fax:
 Samples on HOLD are subject to special pricing and release of liability

Relinquished By: Marcus Mussey Date/Time: 6/13, 1730
 Relinquished By: FedEx Date/Time: 6/14/17 0950
 Relinquished By: Date/Time:
 Relinquished By: Date/Time:
 Relinquished By: Date/Time:

Received By: Fedex Date/Time:
 Received By: Kate Schram-Pace Date/Time: 6/14/17 0950
 Received By: Date/Time:
 Received By: Date/Time:
 Received By: Date/Time:

PACE Project No. 40157610
 Receipt Temp = ROI °C
 Sample Receipt pH OK / Adjusted
 Cooler Custody Seal Present / Not Present Intact / Not Intact

(Please Print Clearly)

UPPER MIDWEST REGION

MN: 612-607-1700 WI: 920-469-2436

40157610



Company Name:
 Branch/Location: *See*
 Project Contact: *See*
 Phone: *page*
 Project Number:
 Project Name: *I*
 Project State:
 Sampled By (Print):
 Sampled By (Sign):
 PO #:
 Regulatory Program:

CHAIN OF CUSTODY

***Preservation Codes**
 A=None B=HCL C=H2SO4 D=HNO3 E=DI Water F=Methanol G=NaOH
 H=Sodium Bisulfate Solution I=Sodium Thiosulfate J=Other

FILTERED?
(YES/NO)
 PRESERVATION
(CODE)*

Y/N	Pick Letter	Analyses Requested
N	B	0005 NPE SHORT L

Quote #:
 Mail To Contact:
 Mail To Company: *See*
 Mail To Address: *page*
 Invoice To Contact:
 Invoice To Company: *I*
 Invoice To Address:
 Invoice To Phone:
 CLIENT COMMENTS
 LAB COMMENTS (Lab Use Only)
 Profile #

Data Package Options (billable)
 EPA Level III
 EPA Level IV
MS/MSD
 On your sample (billable)
 NOT needed on your sample
Matrix Codes
 A = Air W = Water
 B = Biota DW = Drinking Water
 C = Charcoal GW = Ground Water
 O = Oil SW = Surface Water
 S = Soil WW = Waste Water
 SI = Sludge WP = Wipe

PACE LAB #	CLIENT FIELD ID	COLLECTION		MATRIX
		DATE	TIME	
006	MW-76A	6/13	855	GW
007	MW-76MS		855	
008	MW-76MSD		855	
007	MW-76B		850	
008	MW-77A		835	
009	MW-77A DUP		835	
010	MW-77B		840	
011	MW-77C		845	
012	PW-3R		910	
	RW-2A		1315	
	RW-2B		1320	
	RW-2C		1310	
	RW-15		1335	

9 L-40mlvB
 kt 6/14/17
 3-40mlvB
 2-40mlvB

Rush Turnaround Time Requested - Prelims
 (Rush TAT subject to approval/surcharge)
 Date Needed:
 Transmit Prelim Rush Results by (complete what you want):
 Email #1:
 Email #2:
 Telephone:
 Fax:
 Samples on HOLD are subject to special pricing and release of liability

Relinquished By: <i>[Signature]</i>	Date/Time: 6/13, 1730	Received By: <i>Fedex</i>	Date/Time:
Relinquished By: <i>Fedex</i>	Date/Time: 6/14/17 0950	Received By: <i>Ratio Schramm Pace</i>	Date/Time: 0950
Relinquished By:	Date/Time:	Received By:	Date/Time:
Relinquished By:	Date/Time:	Received By:	Date/Time:

PACE Project No. 40157610
 Receipt Temp = RO1 °C
 Sample Receipt pH OK / Adjusted
 Cooler Custody Seal Present / Not Present Intact / Not Intact

(Please Print Clearly)



UPPER MIDWEST REGION

MN: 612-607-1700 WI: 920-469-2436

40151610

Company Name:
 Branch/Location: *See*
 Project Contact:
 Phone:
 Project Number: *page 2*
 Project Name:
 Project State:
 Sampled By (Print):
 Sampled By (Sign):

CHAIN OF CUSTODY

Preservation Codes
 A=None B=HCL C=H2SO4 D=HNO3 E=DI Water F=Methanol G=NaOH
 H=Sodium Bisulfate Solution I=Sodium Thiosulfate J=Other

FILTERED?
(YES/NO)
 PRESERVATION
(CODE)*

Y/N	Y	N																
Pick Letter	B																	
Analyses Requested																		

Data Package Options (billable)
 EPA Level III
 EPA Level IV

MS/MSD
 On your sample (billable)
 NOT needed on your sample

Matrix Codes
 A = Air W = Water
 B = Biota DW = Drinking Water
 C = Charcoal GW = Ground Water
 O = Oil SW = Surface Water
 S = Soil WW = Waste Water
 SI = Sludge WP = Wipe

PACE LAB #	CLIENT FIELD ID	COLLECTION		MATRIX	Y/N	Pick Letter	Analyses Requested
		DATE	TIME				
	WW-15	6/13	1530	GW			
	MW-65A		1430				
	MW-65B		1440				
	MW-65C		1435				
013	MW-49A	6/13	1104	GW			3
014	MW-49B		1102				
015	MW-51A		950				
016	MW-51B		955				
017	MW-52A		1005				
018	MW-52A MS		1005				
018	MW-52A MSP		1005				
018	MW-52B	017	1010				
019	MW-53A	018	1020				

Quote #:

Mail To Contact:

Mail To Company: *See*

Mail To Address: *page 1*

Invoice To Contact:

Invoice To Company:

Invoice To Address: *I*

Invoice To Phone:

CLIENT COMMENTS

LAB COMMENTS (Lab Use Only)

Profile #

3-40 ml vB

9-40 ml vB

Rush Turnaround Time Requested - Prelims
(Rush TAT subject to approval/surcharge)
Date Needed:

Transmit Prelim Rush Results by (complete what you want):

Email #1: _____

Email #2: _____

Telephone: _____

Fax: _____

Samples on HOLD are subject to special pricing and release of liability

Relinquished By: *[Signature]* Date/Time: *6/13, 1730*

Relinquished By: *FedEx* Date/Time: *6/14/17 0950*

Relinquished By: _____ Date/Time: _____

Relinquished By: _____ Date/Time: _____

Relinquished By: _____ Date/Time: _____

Received By: _____ Date/Time: _____

Received By: *Kate Johnson Pace* Date/Time: *6/14/17 0950*

Received By: _____ Date/Time: _____

Received By: _____ Date/Time: _____

Received By: _____ Date/Time: _____

PACE Project No. *40151610*

Receipt Temp = *ROI* °C

Sample Receipt pH *OK / Adjusted*

Cooler Custody Seal *Present / Not Present*
Intact / Not Intact

(Please Print Clearly)

Company Name:
 Branch/Location: *See*
 Project Contact:
 Phone:
 Project Number:
 Project Name: *page 1*
 Project State:
 Sampled By (Print):
 Sampled By (Sign):
 PO #:
 Regulatory Program:



UPPER MIDWEST REGION
 MN: 612-607-1700 WI: 920-469-2436

Page 4 of 5
 40651610

CHAIN OF CUSTODY

***Preservation Codes**
 A=None B=HCL C=H2SO4 D=HNO3 E=DI Water F=Methanol G=NaOH
 H=Sodium Bisulfate Solution I=Sodium Thiosulfate J=Other

FILTERED?
(YES/NO)
 PRESERVATION
(CODE)*

Y/N	Pick Letter	Analyses Requested	COLLECTION		MATRIX	
			DATE	TIME		
N	B	VOCs MPI short list				

Quote #:
 Mail To Contact: *See*
 Mail To Company:
 Mail To Address: *page 1*
 Invoice To Contact:
 Invoice To Company:
 Invoice To Address: *I*
 Invoice To Phone:
 CLIENT COMMENTS:
 LAB COMMENTS (Lab Use Only):
 Profile #:

Data Package Options (billable)
 EPA Level III
 EPA Level IV

MS/MSD
 On your sample (billable)
 NOT needed on your sample

Matrix Codes
 A = Air W = Water
 B = Biota DW = Drinking Water
 C = Charcoal GW = Ground Water
 O = Oil SW = Surface Water
 S = Soil WW = Waste Water
 SI = Sludge WP = Wipe

PACE LAB #	CLIENT FIELD ID	COLLECTION		MATRIX
		DATE	TIME	
020	MW-53B	019	6/13 1025	GW
021	MW-54A	020	1050	
022	MW-54B	021	1055	
023	MW-54C	022	1100	
024	MW-54C DUP	023	1100	
025	MW-55B	024	1120	
026	MW-55C	025	1115	
027	MW-57A	026	1035	
028	MW-57B	027	1030	
028	MW-41A		1545	
028	MW-41B		1550	
028	MW-41B DUP		1550	
029	MW-43A	028	6/13 1535	GW

021-
022-
023-
024-
025-
026-
027-
028-
029-
030-
6/14/17

Rush Turnaround Time Requested - Prelims
 (Rush TAT subject to approval/surcharge)
 Date Needed:

Relinquished By: <i>[Signature]</i>	Date/Time: 6/13, 1730
Relinquished By: <i>FedEx</i>	Date/Time: 6/14/17 0950
Relinquished By:	Date/Time:
Relinquished By:	Date/Time:
Relinquished By:	Date/Time:

Received By: <i>FedEx</i>	Date/Time:
Received By: <i>Sarah Debraun Pace</i>	Date/Time: 6/14/17 0950
Received By:	Date/Time:
Received By:	Date/Time:
Received By:	Date/Time:

PACE Project No. 40651610
 Receipt Temp = ROI °C
 Sample Receipt pH OK / Adjusted
 Cooler Custody Seal Present / Not Present
 Intact / Not Intact

(Please Print Clearly)

Company Name:
Branch/Location:
Project Contact:
Phone:
Project Number:
Project Name:
Project State:
Sampled By (Print):
Sampled By (Sign):



40151610

Page 60 of 61

CHAIN OF CUSTODY

*Preservation Codes							
A=None	B=HCL	C=H2SO4	D=HNO3	E=DI Water	F=Methanol	G=NaOH	
H=Sodium Bisulfate Solution	I=Sodium Thiosulfate	J=Other					

FILTERED?
(YES/NO)
 PRESERVATION
(CODE)*

Y / N	Pick Letter	Analytes Requested	COLLECTION			MATRIX	
			DATE	TIME			
N	B	NIPS short list					

Quote #:
Mail To Contact:
Mail To Company:
Mail To Address:
Invoice To Contact:
Invoice To Company:
Invoice To Address:
Invoice To Phone:

Data Package Options (billable)
 EPA Level III
 EPA Level IV

MS/MSD
 On your sample (billable)
 NOT needed on your sample

Matrix Codes
 A = Air W = Water
 B = Biota DW = Drinking Water
 C = Charcoal GW = Ground Water
 O = Oil SW = Surface Water
 S = Soil WW = Waste Water
 SI = Sludge WP = Wipe

PACE LAB #	CLIENT FIELD ID	COLLECTION		MATRIX	Analytes Requested	Profile #
		DATE	TIME			
030	MW-43B	029	6/13 1530	6W	3	
031	MW-45A	030	1145			
032	MW-45B	031	1135			
033	MW-45C	032	1140			
034	MW-47A	033	1500			
035	MW-47B	034	1455			
036	RW-16	035	1515			
037	RW-16 B	036	1505			
038	RW-16 C	037	1510			
039	TRIP BLANK 1038					
040	MW-51B DUP 039		955		3	
041	MH-18	040	800		3	

Rush Turnaround Time Requested - Prelims
 (Rush TAT subject to approval/surcharge)
 Date Needed:

Transmit Prelim Rush Results by (complete what you want):
 Email #1:
 Email #2:
 Telephone:
 Fax:

Samples on HOLD are subject to special pricing and release of liability

Relinquished By: [Signature]	Date/Time: 6/13/17 1730	Received By: [Signature]	Date/Time: 0950 6/14/17	PACE Project No. 40151610
Relinquished By: FedEx	Date/Time: 6/14/17 0950	Received By: Kate Schramm	Date/Time: 6/14/17	
Relinquished By:	Date/Time:	Received By:	Date/Time:	
Relinquished By:	Date/Time:	Received By:	Date/Time:	
Relinquished By:	Date/Time:	Received By:	Date/Time:	Receipt Temp = ROI °C
				Sample Receipt pH OK / Adjusted
				Cooler Custody Seal Present / Not Present Intact / Not Intact

2-40mL vB
 6/14/17

Client Name: Gannett Fleming

Project #: **WO#: 40151610**



Courier: Fed Ex UPS Client Pace Other: _____

Tracking #: 811597760846

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: NA Type of Ice: Wet Blue Dry None

Cooler Temperature: Uncorr: _____ /Corr: ROI Biological Tissue is Frozen: yes no

Temp Blank Present: yes no

Temp should be above freezing to 6°C.

Biota Samples may be received at ≤ 0°C.

Person examining contents:
Date: 6/14/17
Initials: KJ

Comments:

Chain of Custody Present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1. <u>KJ 6/14/17</u>
Chain of Custody Filled Out:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	2. <u>037 ID is RW-16</u>
Chain of Custody Relinquished:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	3. <u>035</u>
Sampler Name & Signature on COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	4. _____
Samples Arrived within Hold Time:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	5. _____
- VOA Samples frozen upon receipt	<input type="checkbox"/> Yes <input type="checkbox"/> No	Date/Time: _____
Short Hold Time Analysis (<72hr):	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	6. _____
Rush Turn Around Time Requested:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	7. _____
Sufficient Volume:	<input checked="" type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	8. <u>no sample received for MW 4A</u>
Correct Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	9. <u>001 1 vial rec'd w/no volume, 008 vials bagged together 1 vial no ID or sample volume</u>
-Pace Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
-Pace IR Containers Used:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Containers Intact:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	10. _____
Filtered volume received for Dissolved tests	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	11. _____
Sample Labels match COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	12. <u>005 ID for MS/MSD is MW 76A. all MSD volume client wrote "MS dup" after ID</u>
-Includes date/time/ID/Analysis Matrix: <u>W</u>		
All containers needing preservation have been checked. (Non-Compliance noted in 13.)	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	13. <input type="checkbox"/> HNO3 <input type="checkbox"/> H2SO4 <input type="checkbox"/> NaOH <input type="checkbox"/> NaOH + ZnAct
All containers needing preservation are found to be in compliance with EPA recommendation. (HNO3, H2SO4 ≤2; NaOH+ZnAct ≥9, NaOH ≥12) exceptions: <input checked="" type="checkbox"/> VOA coliform, TOC, TOX, TOH, O&G, WIDROW, Phenolics, OTHER:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	Initial when completed: _____ Lab Std #/ID of preservative: _____ Date/Time: _____
Headspace in VOA Vials (>6mm):	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	14. _____
Trip Blank Present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	15. _____
Trip Blank Custody Seals Present	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Pace Trip Blank Lot # (if purchased): <u>381</u>		

Client Notification/ Resolution:

Person Contacted: _____ Date/Time: _____ If checked, see attached form for additional comments

Comments/ Resolution: _____

Project Manager Review: Low for pm

Date: 6/14/17

June 28, 2017

Project #34283.000
NPI Q2 GW
Reviewed by CCW
6/28/17

Clifford Wright
Gannett Fleming
8025 Excelsior Drive
Madison, WI 53717

RE: Project: 34283.000 NPI
Pace Project No.: 40151726

Dear Clifford Wright:

Enclosed are the analytical results for sample(s) received by the laboratory on June 15, 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

cc: Mary C. Wehbe, MCW Scientific Solutions



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: 34283.000 NPI
Pace Project No.: 40151726

Minnesota Certification IDs

1700 Elm Street SE, Suite 200, Minneapolis, MN 55414
A2LA Certification #: 2926.01
Alabama Certification #: 40770
Alaska Contaminated Sites Certification #: UST-078
Alaska DW Certification #: MN00064
Arizona Certification #: AZ0014
Arkansas Certification #: 88-0680
California Certification #: MN00064
CNMI Saipan Certification #: MP0003
Colorado Certification #: MN00064
Connecticut Certification #: PH-0256
EPA Region 8 Certification #: 8TMS-L
Florida Certification #: E87605
Georgia Certification #: 959
Guam EPA Certification #: MN00064
Hawaii Certification #: MN00064
Idaho Certification #: MN00064
Illinois Certification #: 200011
Indiana Certification #: C-MN-01
Iowa Certification #: 368
Kansas Certification #: E-10167
Kentucky DW Certification #: 90062
Kentucky WW Certification #: 90062
Louisiana DEQ Certification #: 03086
Louisiana DW Certification #: MN00064
Maine Certification #: MN00064
Maryland Certification #: 322
Michigan Certification #: 9909

Minnesota Certification #: 027-053-137
Mississippi Certification #: MN00064
Montana Certification #: CERT0092
Nebraska Certification #: NE-OS-18-06
Nevada Certification #: MN00064
New Hampshire Certification #: 2081
New Jersey Certification #: MN002
New York Certification #: 11647
North Carolina DW Certification #: 27700
North Carolina WW Certification #: 530
North Dakota Certification #: R-036
Ohio DW Certification #: 41244
Ohio VAP Certification #: CL101
Oklahoma Certification #: 9507
Oregon NwTPH Certification #: MN300001
Oregon Secondary Certification #: MN200001
Pennsylvania Certification #: 68-00563
Puerto Rico Certification #: MN00064
South Carolina Certification #: 74003001
Tennessee Certification #: TN02818
Texas Certification #: T104704192
Utah Certification #: MN00064
Virginia Certification #: 460163
Washington Certification #: C486
West Virginia DW Certification #: 9952 C
West Virginia WW Certification #: 382
Wisconsin Certification #: 999407970
Wyoming via EPA Region 8 Certification #: 8TMS-L

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SAMPLE SUMMARY

Project: 34283.000 NPI

Pace Project No.: 40151726

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40151726001	CW-11	Water	06/14/17 09:09	06/15/17 09:55
40151726002	CW-15	Water	06/14/17 09:12	06/15/17 09:55
40151726003	CW-16	Water	06/14/17 09:02	06/15/17 09:55
40151726004	CW-19	Water	06/14/17 09:15	06/15/17 09:55
40151726005	CW-22	Water	06/14/17 09:24	06/15/17 09:55
40151726006	CW-23	Water	06/14/17 09:20	06/15/17 09:55
40151726007	RAW	Water	06/14/17 09:30	06/15/17 09:55
40151726008	TOWER A	Water	06/14/17 09:32	06/15/17 09:55
40151726009	TOWER B	Water	06/14/17 09:35	06/15/17 09:55
40151726010	FINISHED PRODUCT	Water	06/14/17 08:55	06/15/17 09:55
40151726011	CW-17	Water	06/14/17 09:06	06/15/17 09:55
40151726012	TRIP BLANK	Water	06/14/17 00:00	06/15/17 09:55

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SAMPLE ANALYTE COUNT

Project: 34283.000 NPI

Pace Project No.: 40151726

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
40151726001	CW-11	EPA 524.2	DJB	8	PASI-M
40151726002	CW-15	EPA 524.2	DJB	8	PASI-M
40151726003	CW-16	EPA 524.2	DJB	8	PASI-M
40151726004	CW-19	EPA 524.2	DJB	8	PASI-M
40151726005	CW-22	EPA 524.2	DJB	8	PASI-M
40151726006	CW-23	EPA 524.2	DJB	8	PASI-M
40151726007	RAW	EPA 524.2	DJB	8	PASI-M
40151726008	TOWER A	EPA 524.2	DJB	8	PASI-M
40151726009	TOWER B	EPA 524.2	DJB	8	PASI-M
40151726010	FINISHED PRODUCT	EPA 524.2	DJB	8	PASI-M
40151726011	CW-17	EPA 524.2	DJB	8	PASI-M
40151726012	TRIP BLANK	EPA 524.2	DJB	8	PASI-M

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SUMMARY OF DETECTION

Project: 34283.000 NPI

Pace Project No.: 40151726

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
40151726002	CW-15					
EPA 524.2	Trichloroethene	0.28J	ug/L	0.40	06/26/17 11:44	
40151726004	CW-19					
EPA 524.2	Trichloroethene	1.8	ug/L	0.40	06/26/17 12:49	
40151726005	CW-22					
EPA 524.2	1,1,1-Trichloroethane	0.27J	ug/L	0.50	06/26/17 13:11	
EPA 524.2	Trichloroethene	2.3	ug/L	0.40	06/26/17 13:11	
40151726007	RAW					
EPA 524.2	Trichloroethene	1.1	ug/L	0.40	06/26/17 13:54	

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PROJECT NARRATIVE

Project: 34283.000 NPI

Pace Project No.: 40151726

Method: EPA 524.2

Description: 524.2 MSV

Client: Gannett Fleming Inc.

Date: June 28, 2017

General Information:

12 samples were analyzed for EPA 524.2. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

Internal Standards:

All internal standards were within QC limits with any exceptions noted below.

Surrogates:

All surrogates were within QC limits with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: 481564

A matrix spike/matrix spike duplicate was not performed due to insufficient sample volume.

Duplicate Sample:

All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.

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ANALYTICAL RESULTS

Project: 34283.000 NPI

Pace Project No.: 40151726

Sample: CW-11 **Lab ID: 40151726001** Collected: 06/14/17 09:09 Received: 06/15/17 09:55 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
524.2 MSV		Analytical Method: EPA 524.2							
1,1-Dichloroethane	<0.088	ug/L	0.50	0.088	1		06/26/17 11:22	75-34-3	
1,1-Dichloroethene	<0.089	ug/L	0.50	0.089	1		06/26/17 11:22	75-35-4	
Tetrachloroethene	<0.12	ug/L	0.50	0.12	1		06/26/17 11:22	127-18-4	
1,1,1-Trichloroethane	<0.10	ug/L	0.50	0.10	1		06/26/17 11:22	71-55-6	
Trichloroethene	<0.044	ug/L	0.40	0.044	1		06/26/17 11:22	79-01-6	
Surrogates									
4-Bromofluorobenzene (S)	102	%	75-125		1		06/26/17 11:22	460-00-4	
Toluene-d8 (S)	102	%	75-125		1		06/26/17 11:22	2037-26-5	
1,2-Dichloroethane-d4 (S)	107	%	75-125		1		06/26/17 11:22	17060-07-0	

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ANALYTICAL RESULTS

Project: 34283.000 NPI

Pace Project No.: 40151726

Sample: CW-15 **Lab ID: 40151726002** Collected: 06/14/17 09:12 Received: 06/15/17 09:55 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
524.2 MSV		Analytical Method: EPA 524.2							
1,1-Dichloroethane	<0.088	ug/L	0.50	0.088	1		06/26/17 11:44	75-34-3	
1,1-Dichloroethene	<0.089	ug/L	0.50	0.089	1		06/26/17 11:44	75-35-4	
Tetrachloroethene	<0.12	ug/L	0.50	0.12	1		06/26/17 11:44	127-18-4	
1,1,1-Trichloroethane	<0.10	ug/L	0.50	0.10	1		06/26/17 11:44	71-55-6	
Trichloroethene	0.28J	ug/L	0.40	0.044	1		06/26/17 11:44	79-01-6	
Surrogates									
4-Bromofluorobenzene (S)	100	%	75-125		1		06/26/17 11:44	460-00-4	
Toluene-d8 (S)	100	%	75-125		1		06/26/17 11:44	2037-26-5	
1,2-Dichloroethane-d4 (S)	109	%	75-125		1		06/26/17 11:44	17060-07-0	

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ANALYTICAL RESULTS

Project: 34283.000 NPI

Pace Project No.: 40151726

Sample: CW-16 **Lab ID: 40151726003** Collected: 06/14/17 09:02 Received: 06/15/17 09:55 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
524.2 MSV		Analytical Method: EPA 524.2							
1,1-Dichloroethane	<0.088	ug/L	0.50	0.088	1		06/26/17 12:27	75-34-3	
1,1-Dichloroethene	<0.089	ug/L	0.50	0.089	1		06/26/17 12:27	75-35-4	
Tetrachloroethene	<0.12	ug/L	0.50	0.12	1		06/26/17 12:27	127-18-4	
1,1,1-Trichloroethane	<0.10	ug/L	0.50	0.10	1		06/26/17 12:27	71-55-6	
Trichloroethene	<0.044	ug/L	0.40	0.044	1		06/26/17 12:27	79-01-6	
Surrogates									
4-Bromofluorobenzene (S)	102	%	75-125		1		06/26/17 12:27	460-00-4	
Toluene-d8 (S)	101	%	75-125		1		06/26/17 12:27	2037-26-5	
1,2-Dichloroethane-d4 (S)	110	%	75-125		1		06/26/17 12:27	17060-07-0	

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ANALYTICAL RESULTS

Project: 34283.000 NPI

Pace Project No.: 40151726

Sample: CW-19 **Lab ID: 40151726004** Collected: 06/14/17 09:15 Received: 06/15/17 09:55 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
524.2 MSV		Analytical Method: EPA 524.2							
1,1-Dichloroethane	<0.088	ug/L	0.50	0.088	1		06/26/17 12:49	75-34-3	
1,1-Dichloroethene	<0.089	ug/L	0.50	0.089	1		06/26/17 12:49	75-35-4	
Tetrachloroethene	<0.12	ug/L	0.50	0.12	1		06/26/17 12:49	127-18-4	
1,1,1-Trichloroethane	<0.10	ug/L	0.50	0.10	1		06/26/17 12:49	71-55-6	
Trichloroethene	1.8	ug/L	0.40	0.044	1		06/26/17 12:49	79-01-6	
Surrogates									
4-Bromofluorobenzene (S)	103	%	75-125		1		06/26/17 12:49	460-00-4	
Toluene-d8 (S)	100	%	75-125		1		06/26/17 12:49	2037-26-5	
1,2-Dichloroethane-d4 (S)	110	%	75-125		1		06/26/17 12:49	17060-07-0	

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ANALYTICAL RESULTS

Project: 34283.000 NPI

Pace Project No.: 40151726

Sample: CW-22 **Lab ID: 40151726005** Collected: 06/14/17 09:24 Received: 06/15/17 09:55 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
524.2 MSV		Analytical Method: EPA 524.2							
1,1-Dichloroethane	<0.088	ug/L	0.50	0.088	1		06/26/17 13:11	75-34-3	
1,1-Dichloroethene	<0.089	ug/L	0.50	0.089	1		06/26/17 13:11	75-35-4	
Tetrachloroethene	<0.12	ug/L	0.50	0.12	1		06/26/17 13:11	127-18-4	
1,1,1-Trichloroethane	0.27J	ug/L	0.50	0.10	1		06/26/17 13:11	71-55-6	
Trichloroethene	2.3	ug/L	0.40	0.044	1		06/26/17 13:11	79-01-6	
Surrogates									
4-Bromofluorobenzene (S)	100	%	75-125		1		06/26/17 13:11	460-00-4	
Toluene-d8 (S)	100	%	75-125		1		06/26/17 13:11	2037-26-5	
1,2-Dichloroethane-d4 (S)	108	%	75-125		1		06/26/17 13:11	17060-07-0	

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ANALYTICAL RESULTS

Project: 34283.000 NPI

Pace Project No.: 40151726

Sample: CW-23 **Lab ID: 40151726006** Collected: 06/14/17 09:20 Received: 06/15/17 09:55 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
524.2 MSV		Analytical Method: EPA 524.2							
1,1-Dichloroethane	<0.088	ug/L	0.50	0.088	1		06/26/17 13:32	75-34-3	
1,1-Dichloroethene	<0.089	ug/L	0.50	0.089	1		06/26/17 13:32	75-35-4	
Tetrachloroethene	<0.12	ug/L	0.50	0.12	1		06/26/17 13:32	127-18-4	
1,1,1-Trichloroethane	<0.10	ug/L	0.50	0.10	1		06/26/17 13:32	71-55-6	
Trichloroethene	<0.044	ug/L	0.40	0.044	1		06/26/17 13:32	79-01-6	
Surrogates									
4-Bromofluorobenzene (S)	102	%	75-125		1		06/26/17 13:32	460-00-4	
Toluene-d8 (S)	102	%	75-125		1		06/26/17 13:32	2037-26-5	
1,2-Dichloroethane-d4 (S)	110	%	75-125		1		06/26/17 13:32	17060-07-0	

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ANALYTICAL RESULTS

Project: 34283.000 NPI
Pace Project No.: 40151726

Sample: RAW **Lab ID: 40151726007** Collected: 06/14/17 09:30 Received: 06/15/17 09:55 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
524.2 MSV		Analytical Method: EPA 524.2							
1,1-Dichloroethane	<0.088	ug/L	0.50	0.088	1		06/26/17 13:54	75-34-3	
1,1-Dichloroethene	<0.089	ug/L	0.50	0.089	1		06/26/17 13:54	75-35-4	
Tetrachloroethene	<0.12	ug/L	0.50	0.12	1		06/26/17 13:54	127-18-4	
1,1,1-Trichloroethane	<0.10	ug/L	0.50	0.10	1		06/26/17 13:54	71-55-6	
Trichloroethene	1.1	ug/L	0.40	0.044	1		06/26/17 13:54	79-01-6	
Surrogates									
4-Bromofluorobenzene (S)	103	%	75-125		1		06/26/17 13:54	460-00-4	
Toluene-d8 (S)	100	%	75-125		1		06/26/17 13:54	2037-26-5	
1,2-Dichloroethane-d4 (S)	110	%	75-125		1		06/26/17 13:54	17060-07-0	

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ANALYTICAL RESULTS

Project: 34283.000 NPI

Pace Project No.: 40151726

Sample: TOWER A **Lab ID: 40151726008** Collected: 06/14/17 09:32 Received: 06/15/17 09:55 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
524.2 MSV		Analytical Method: EPA 524.2							
1,1-Dichloroethane	<0.088	ug/L	0.50	0.088	1		06/26/17 14:16	75-34-3	
1,1-Dichloroethene	<0.089	ug/L	0.50	0.089	1		06/26/17 14:16	75-35-4	
Tetrachloroethene	<0.12	ug/L	0.50	0.12	1		06/26/17 14:16	127-18-4	
1,1,1-Trichloroethane	<0.10	ug/L	0.50	0.10	1		06/26/17 14:16	71-55-6	
Trichloroethene	<0.044	ug/L	0.40	0.044	1		06/26/17 14:16	79-01-6	
Surrogates									
4-Bromofluorobenzene (S)	99	%	75-125		1		06/26/17 14:16	460-00-4	
Toluene-d8 (S)	100	%	75-125		1		06/26/17 14:16	2037-26-5	
1,2-Dichloroethane-d4 (S)	112	%	75-125		1		06/26/17 14:16	17060-07-0	

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ANALYTICAL RESULTS

Project: 34283.000 NPI

Pace Project No.: 40151726

Sample: TOWER B **Lab ID: 40151726009** Collected: 06/14/17 09:35 Received: 06/15/17 09:55 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
524.2 MSV		Analytical Method: EPA 524.2							
1,1-Dichloroethane	<0.088	ug/L	0.50	0.088	1		06/26/17 14:38	75-34-3	
1,1-Dichloroethene	<0.089	ug/L	0.50	0.089	1		06/26/17 14:38	75-35-4	
Tetrachloroethene	<0.12	ug/L	0.50	0.12	1		06/26/17 14:38	127-18-4	
1,1,1-Trichloroethane	<0.10	ug/L	0.50	0.10	1		06/26/17 14:38	71-55-6	
Trichloroethene	<0.044	ug/L	0.40	0.044	1		06/26/17 14:38	79-01-6	
Surrogates									
4-Bromofluorobenzene (S)	100	%	75-125		1		06/26/17 14:38	460-00-4	
Toluene-d8 (S)	100	%	75-125		1		06/26/17 14:38	2037-26-5	
1,2-Dichloroethane-d4 (S)	110	%	75-125		1		06/26/17 14:38	17060-07-0	

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ANALYTICAL RESULTS

Project: 34283.000 NPI

Pace Project No.: 40151726

Sample: FINISHED PRODUCT **Lab ID: 40151726010** Collected: 06/14/17 08:55 Received: 06/15/17 09:55 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
524.2 MSV		Analytical Method: EPA 524.2							
1,1-Dichloroethane	<0.088	ug/L	0.50	0.088	1		06/26/17 15:00	75-34-3	
1,1-Dichloroethene	<0.089	ug/L	0.50	0.089	1		06/26/17 15:00	75-35-4	
Tetrachloroethene	<0.12	ug/L	0.50	0.12	1		06/26/17 15:00	127-18-4	
1,1,1-Trichloroethane	<0.10	ug/L	0.50	0.10	1		06/26/17 15:00	71-55-6	
Trichloroethene	<0.044	ug/L	0.40	0.044	1		06/26/17 15:00	79-01-6	
Surrogates									
4-Bromofluorobenzene (S)	101	%	75-125		1		06/26/17 15:00	460-00-4	
Toluene-d8 (S)	101	%	75-125		1		06/26/17 15:00	2037-26-5	
1,2-Dichloroethane-d4 (S)	112	%	75-125		1		06/26/17 15:00	17060-07-0	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 34283.000 NPI

Pace Project No.: 40151726

Sample: CW-17 **Lab ID: 40151726011** Collected: 06/14/17 09:06 Received: 06/15/17 09:55 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
524.2 MSV		Analytical Method: EPA 524.2							
1,1-Dichloroethane	<0.088	ug/L	0.50	0.088	1		06/26/17 15:21	75-34-3	
1,1-Dichloroethene	<0.089	ug/L	0.50	0.089	1		06/26/17 15:21	75-35-4	
Tetrachloroethene	<0.12	ug/L	0.50	0.12	1		06/26/17 15:21	127-18-4	
1,1,1-Trichloroethane	<0.10	ug/L	0.50	0.10	1		06/26/17 15:21	71-55-6	
Trichloroethene	<0.044	ug/L	0.40	0.044	1		06/26/17 15:21	79-01-6	
Surrogates									
4-Bromofluorobenzene (S)	101	%	75-125		1		06/26/17 15:21	460-00-4	
Toluene-d8 (S)	100	%	75-125		1		06/26/17 15:21	2037-26-5	
1,2-Dichloroethane-d4 (S)	109	%	75-125		1		06/26/17 15:21	17060-07-0	

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ANALYTICAL RESULTS

Project: 34283.000 NPI

Pace Project No.: 40151726

Sample: TRIP BLANK **Lab ID: 40151726012** Collected: 06/14/17 00:00 Received: 06/15/17 09:55 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
524.2 MSV		Analytical Method: EPA 524.2							
1,1-Dichloroethane	<0.088	ug/L	0.50	0.088	1		06/26/17 10:39	75-34-3	
1,1-Dichloroethene	<0.089	ug/L	0.50	0.089	1		06/26/17 10:39	75-35-4	
Tetrachloroethene	<0.12	ug/L	0.50	0.12	1		06/26/17 10:39	127-18-4	
1,1,1-Trichloroethane	<0.10	ug/L	0.50	0.10	1		06/26/17 10:39	71-55-6	
Trichloroethene	<0.044	ug/L	0.40	0.044	1		06/26/17 10:39	79-01-6	
Surrogates									
4-Bromofluorobenzene (S)	101	%	75-125		1		06/26/17 10:39	460-00-4	
Toluene-d8 (S)	99	%	75-125		1		06/26/17 10:39	2037-26-5	
1,2-Dichloroethane-d4 (S)	110	%	75-125		1		06/26/17 10:39	17060-07-0	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 34283.000 NPI
Pace Project No.: 40151726

QC Batch: 481564 Analysis Method: EPA 524.2
QC Batch Method: EPA 524.2 Analysis Description: 524.2 MSV
Associated Lab Samples: 40151726001, 40151726002, 40151726003, 40151726004, 40151726005, 40151726006, 40151726007, 40151726008, 40151726009, 40151726010, 40151726011, 40151726012

METHOD BLANK: 2623276 Matrix: Water
Associated Lab Samples: 40151726001, 40151726002, 40151726003, 40151726004, 40151726005, 40151726006, 40151726007, 40151726008, 40151726009, 40151726010, 40151726011, 40151726012

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	<0.10	0.50	06/26/17 10:17	
1,1-Dichloroethane	ug/L	<0.088	0.50	06/26/17 10:17	
1,1-Dichloroethene	ug/L	<0.089	0.50	06/26/17 10:17	
Tetrachloroethene	ug/L	<0.12	0.50	06/26/17 10:17	
Trichloroethene	ug/L	<0.044	0.40	06/26/17 10:17	
1,2-Dichloroethane-d4 (S)	%	106	75-125	06/26/17 10:17	
4-Bromofluorobenzene (S)	%	100	75-125	06/26/17 10:17	
Toluene-d8 (S)	%	101	75-125	06/26/17 10:17	

LABORATORY CONTROL SAMPLE & LCSD: 2623277 2623278

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
1,1,1-Trichloroethane	ug/L	20	18.9	18.2	95	91	70-130	4	20	
1,1-Dichloroethane	ug/L	20	18.7	18.7	93	94	70-130	0	20	
1,1-Dichloroethene	ug/L	20	17.5	17.0	87	85	70-130	2	20	
Tetrachloroethene	ug/L	20	18.3	17.6	92	88	70-130	4	20	
Trichloroethene	ug/L	20	18.7	17.9	93	89	70-130	4	20	
1,2-Dichloroethane-d4 (S)	%				100	103	75-125			
4-Bromofluorobenzene (S)	%				98	98	75-125			
Toluene-d8 (S)	%				101	101	75-125			

MATRIX SPIKE SAMPLE: 2623279

Parameter	Units	40151726001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	<0.10	20	18.8	94	70-130	
1,1-Dichloroethane	ug/L	<0.088	20	18.0	90	70-130	
1,1-Dichloroethene	ug/L	<0.089	20	17.5	88	70-130	
Tetrachloroethene	ug/L	<0.12	20	17.1	85	70-130	
Trichloroethene	ug/L	<0.044	20	18.1	90	70-130	
1,2-Dichloroethane-d4 (S)	%				97	75-125	
4-Bromofluorobenzene (S)	%				97	75-125	
Toluene-d8 (S)	%				101	75-125	

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: 34283.000 NPI

Pace Project No.: 40151726

SAMPLE DUPLICATE: 2623280

Parameter	Units	40151726002 Result	Dup Result	RPD	Max RPD	Qualifiers
1,1,1-Trichloroethane	ug/L	<0.10	<0.10		20	
1,1-Dichloroethane	ug/L	<0.088	<0.088		20	
1,1-Dichloroethene	ug/L	<0.089	<0.089		20	
Tetrachloroethene	ug/L	<0.12	<0.12		20	
Trichloroethene	ug/L	0.28J	0.22J		20	
1,2-Dichloroethane-d4 (S)	%.	109	109	0		
4-Bromofluorobenzene (S)	%.	100	99	1		
Toluene-d8 (S)	%.	100	100	0		

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: 34283.000 NPI
Pace Project No.: 40151726

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.

LABORATORIES

PASI-M Pace Analytical Services - Minneapolis

BATCH QUALIFIERS

Batch: 481564

[M5] A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 34283.000 NPI

Pace Project No.: 40151726

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40151726001	CW-11	EPA 524.2	481564		
40151726002	CW-15	EPA 524.2	481564		
40151726003	CW-16	EPA 524.2	481564		
40151726004	CW-19	EPA 524.2	481564		
40151726005	CW-22	EPA 524.2	481564		
40151726006	CW-23	EPA 524.2	481564		
40151726007	RAW	EPA 524.2	481564		
40151726008	TOWER A	EPA 524.2	481564		
40151726009	TOWER B	EPA 524.2	481564		
40151726010	FINISHED PRODUCT	EPA 524.2	481564		
40151726011	CW-17	EPA 524.2	481564		
40151726012	TRIP BLANK	EPA 524.2	481564		

REPORT OF LABORATORY ANALYSIS

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(Please Print Clearly)

Company Name: Gannett Fleming
 Branch/Location: Madison, WI
 Project Contact: Cliff Wright
 Phone: 608-836-1500
 Project Number: 34283.000
 Project Name: NPI
 Project State: WI
 Sampled By (Print): Chelsea Payne
 Sampled By (Sign): Chelsea Payne
 PO #: _____ Regulatory Program: _____



UPPER MIDWEST REGION
 MN: 612-607-1700 WI: 920-469-2436

40151726

SSM

CHAIN OF CUSTODY

***Preservation Codes**
 A=None B=HCL C=H2SO4 D=HNO3 E=DI Water F=Methanol G=NaOH
 H=Sodium Bisulfate Solution I=Sodium Thiosulfate J=Other

FILTERED? (YES/NO)
 PRESERVATION (CODE)*

Y/N	Pick Letter	Matrix Codes
Z	B	W = Water
		DW = Drinking Water
		GW = Ground Water
		SW = Surface Water
		WW = Waste Water
		WP = Wipe
		SI = Sludge
		VP = Volatile
		SV = Semi-volatile
		SVOC = Semi-volatile Organic Compounds
		VOCs = Volatile Organic Compounds
		SVOCs = Semi-volatile Organic Compounds
		PCBs = Polychlorinated Biphenyls
		PAHs = Polycyclic Aromatic Hydrocarbons
		PFAS = Per- and Poly-fluoroalkyl Substances
		Other = Other

Analyses Requested
 VOCs
 S 24.2 Drinking Water

Quote #: _____
 Mail To Contact: Cliff Wright
 Mail To Company: Gannett Fleming
 Mail To Address: 8025 Excelstor Dr
 Madison, WI 53717
 Invoice To Contact: See
 Invoice To Company: mail
 Invoice To Address: to
 Invoice To Phone: 608-836-1500
 CLIENT COMMENTS: _____
 LAB COMMENTS (Lab Use Only): _____
 Profile #: _____
 Send copy of 3-40ml^B
 data pkg to Mary Webb
 mary@mcw-scientificsolutions.com
 2-40ml^B
 2-40ml^B

Data Package Options (billable)
 EPA Level III
 EPA Level IV

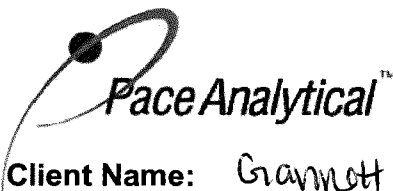
MS/MSD
 On your sample (billable)
 NOT needed on your sample

Matrix Codes
 A = Air W = Water
 B = Biota DW = Drinking Water
 C = Charcoal GW = Ground Water
 O = Oil SW = Surface Water
 S = Soil WW = Waste Water
 SI = Sludge WP = Wipe

PACE LAB #	CLIENT FIELD ID	COLLECTION		MATRIX
		DATE	TIME	
001	CW-11	6/14/17	9:09	GW
002	CW-15		9:12	
003	CW-16		9:02	
004	CW-19		9:15	
005	CW-22		9:24	
000	CW-23		9:20	
007	Raw		9:30	
008	Tower A		9:32	
009	Tower B		9:35	
010	Finished Product		8:55	
011	CW-17		9:06	
012	Trip Blank			

Rush Turnaround Time Requested - Prelims (Rush TAT subject to approval/surcharge)
 Date Needed: _____
 Relinquished By: Chelsea Payne Date/Time: 6/14/17
 Received By: _____ Date/Time: _____
 Transmit Prelim Rush Results by (complete what you want): Fed Ex Date/Time: 6/15/17
 Received By: Rachel Lee Pace Date/Time: 6/15/17
 Relinquished By: _____ Date/Time: _____
 Received By: _____ Date/Time: _____
 Relinquished By: _____ Date/Time: _____
 Received By: _____ Date/Time: _____
 Relinquished By: _____ Date/Time: _____
 Received By: _____ Date/Time: _____

PACE Project No. 40151726
 Receipt Temp = 20.1 °C
 Sample Receipt pH OK / Adjusted
 Cooler Custody Seal Present / Not Present Intact / Not Intact



Sample Condition Upon Receipt

Pace Analytical Services, LLC. - Green Bay WI
1241 Bellevue Street, Suite 9
Green Bay, WI 54302

Project #

WO#: 40151726

Client Name: Grannott Fleming

Courier: [x] Fed Ex [] UPS [] Client [] Pace Other: _____

Tracking #: 8115 9716 0857



Custody Seal on Cooler/Box Present: [] yes [x] no Seals intact: [] yes [] no

Custody Seal on Samples Present: [] yes [x] no Seals intact: [] yes [] no

Packing Material: [] Bubble Wrap [x] Bubble Bags [] None [] Other

Thermometer Used: N/A Type of Ice: Wet Blue Dry None [x] Samples on ice, cooling process has begun

Cooler Temperature: Uncorr: 120 / Corr: _____ Biological Tissue is Frozen: [] yes [] no

Temp Blank Present: [] yes [x] no

Person examining contents:
Date: 6/15/17
Initials: RMW

Temp should be above freezing to 6°C.
Biota Samples may be received at ≤ 0°C.

Comments:

Table with 15 rows of inspection items and checkboxes. Includes items like 'Chain of Custody Present', 'Short Hold Time Analysis (<72hr)', 'Rush Turn Around Time Requested', 'Sample Labels match COC', 'All containers needing preservation have been checked', 'Headspace in VOA Vials (>6mm)', 'Trip Blank Present'.

Client Notification/ Resolution:

If checked, see attached form for additional comments []

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review:

AL for DM

Date: 6/15/17

September 05, 2017

Project #34283.000
NPI Q3 GW
Reviewed by CCW
9/6/17

Clifford Wright
Gannett Fleming
8025 Excelsior Drive
Madison, WI 53717

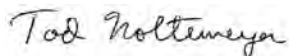
RE: Project: 34283.000 NPI
Pace Project No.: 40155891

Dear Clifford Wright:

Enclosed are the analytical results for sample(s) received by the laboratory on August 30, 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,



Tod Noltemeyer for
Dan Milewsky
dan.milewsky@pacelabs.com
(920)469-2436
Project Manager

Enclosures

cc: Mary C. Wehbe, MCW Scientific Solutions



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: 34283.000 NPI

Pace Project No.: 40155891

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

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SAMPLE SUMMARY

Project: 34283.000 NPI

Pace Project No.: 40155891

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40155891001	EW-1R H	Water	08/28/17 11:20	08/30/17 10:00
40155891002	EW-1R M	Water	08/28/17 11:22	08/30/17 10:00
40155891003	EW-1R L	Water	08/28/17 11:24	08/30/17 10:00
40155891004	EW-2 H	Water	08/28/17 11:40	08/30/17 10:00
40155891005	EW-2 L	Water	08/28/17 11:42	08/30/17 10:00
40155891006	EW-5 H	Water	08/28/17 14:30	08/30/17 10:00
40155891007	EW-5 L	Water	08/28/17 14:25	08/30/17 10:00
40155891008	EW-5 L DUP	Water	08/28/17 14:25	08/30/17 10:00
40155891009	MW-4A	Water	08/28/17 14:45	08/30/17 10:00
40155891010	MW-4B	Water	08/28/17 14:40	08/30/17 10:00
40155891011	MW-34A	Water	08/28/17 13:25	08/30/17 10:00
40155891012	MW-34B	Water	08/28/17 13:10	08/30/17 10:00
40155891013	MW-34C	Water	08/28/17 13:18	08/30/17 10:00
40155891014	MW-70A	Water	08/28/17 12:50	08/30/17 10:00
40155891015	MW-70B	Water	08/28/17 13:00	08/30/17 10:00
40155891016	MW-76A	Water	08/28/17 15:45	08/30/17 10:00
40155891017	MW-76B	Water	08/28/17 15:35	08/30/17 10:00
40155891018	MW-77A	Water	08/28/17 15:10	08/30/17 10:00
40155891019	MW-77B	Water	08/28/17 15:05	08/30/17 10:00
40155891020	MW-77C	Water	08/28/17 15:00	08/30/17 10:00
40155891021	MW-10A	Water	08/28/17 12:38	08/30/17 10:00
40155891022	MW-10B	Water	08/28/17 12:40	08/30/17 10:00
40155891023	MW-68B	Water	08/28/17 14:05	08/30/17 10:00
40155891024	MW-70B	Water	08/28/17 13:45	08/30/17 10:00
40155891025	MW-75	Water	08/28/17 13:10	08/30/17 10:00
40155891026	EC-1	Water	08/29/17 09:40	08/30/17 10:00
40155891029	MH-18	Water	08/29/17 10:10	08/30/17 10:00
40155891030	MW-23A	Water	08/29/17 07:55	08/30/17 10:00
40155891031	MW-23B	Water	08/29/17 08:00	08/30/17 10:00
40155891032	EW-6	Water	08/28/17 15:25	08/30/17 10:00
40155891033	EW-6 DUP	Water	08/28/17 15:25	08/30/17 10:00
40155891034	MW-70 A DUP	Water	08/28/17 12:50	08/30/17 10:00
40155891035	MW-76 B DUP	Water	08/28/17 15:35	08/30/17 10:00

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: 34283.000 NPI
Pace Project No.: 40155891

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
40155891001	EW-1R H	EPA 8260	LAP	8	PASI-G
40155891002	EW-1R M	EPA 8260	LAP	8	PASI-G
40155891003	EW-1R L	EPA 8260	LAP	8	PASI-G
40155891004	EW-2 H	EPA 8260	LAP	8	PASI-G
40155891005	EW-2 L	EPA 8260	LAP	8	PASI-G
40155891006	EW-5 H	EPA 8260	LAP	8	PASI-G
40155891007	EW-5 L	EPA 8260	LAP	8	PASI-G
40155891008	EW-5 L DUP	EPA 8260	LAP	8	PASI-G
40155891009	MW-4A	EPA 8260	LAP	8	PASI-G
40155891010	MW-4B	EPA 8260	LAP	8	PASI-G
40155891011	MW-34A	EPA 8260	LAP	8	PASI-G
40155891012	MW-34B	EPA 8260	LAP	8	PASI-G
40155891013	MW-34C	EPA 8260	LAP	8	PASI-G
40155891014	MW-70A	EPA 8260	LAP	8	PASI-G
40155891015	MW-70B	EPA 8260	LAP	8	PASI-G
40155891016	MW-76A	EPA 8260	LAP	8	PASI-G
40155891017	MW-76B	EPA 8260	LAP	8	PASI-G
40155891018	MW-77A	EPA 8260	LAP	8	PASI-G
40155891019	MW-77B	EPA 8260	LAP	8	PASI-G
40155891020	MW-77C	EPA 8260	LAP	8	PASI-G
40155891021	MW-10A	EPA 6010	DLB	1	PASI-G
40155891022	MW-10B	EPA 6010	DLB	1	PASI-G
40155891023	MW-68B	EPA 6010	DLB	1	PASI-G
40155891024	MW-70B	EPA 6010	DLB	1	PASI-G
40155891025	MW-75	EPA 6010	DLB	1	PASI-G
40155891026	EC-1	EPA 8260	MDS	8	PASI-G
40155891029	MH-18	EPA 8260	MDS	8	PASI-G
40155891030	MW-23A	EPA 8260	MDS	8	PASI-G
40155891031	MW-23B	EPA 8260	MDS	8	PASI-G
40155891032	EW-6	EPA 8260	MDS	8	PASI-G
40155891033	EW-6 DUP	EPA 8260	MDS	8	PASI-G
40155891034	MW-70 A DUP	EPA 8260	MDS	8	PASI-G
40155891035	MW-76 B DUP	EPA 8260	MDS	8	PASI-G

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: 34283.000 NPI
Pace Project No.: 40155891

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
40155891006	EW-5 H					
EPA 8260	Trichloroethene	0.37J	ug/L	1.0	08/31/17 11:30	
40155891007	EW-5 L					
EPA 8260	Trichloroethene	0.42J	ug/L	1.0	08/31/17 11:53	
40155891008	EW-5 L DUP					
EPA 8260	Trichloroethene	0.38J	ug/L	1.0	08/31/17 12:15	
40155891010	MW-4B					
EPA 8260	Trichloroethene	0.38J	ug/L	1.0	08/31/17 15:16	
40155891011	MW-34A					
EPA 8260	1,1-Dichloroethane	0.28J	ug/L	1.0	08/31/17 15:39	
40155891014	MW-70A					
EPA 8260	1,1-Dichloroethane	0.33J	ug/L	1.0	08/31/17 12:38	
EPA 8260	Trichloroethene	0.61J	ug/L	1.0	08/31/17 12:38	
40155891018	MW-77A					
EPA 8260	Trichloroethene	0.35J	ug/L	1.0	08/31/17 17:32	
40155891019	MW-77B					
EPA 8260	Trichloroethene	2.1	ug/L	1.0	08/31/17 13:00	
40155891020	MW-77C					
EPA 8260	Trichloroethene	0.59J	ug/L	1.0	08/31/17 13:23	
40155891021	MW-10A					
EPA 6010	Cadmium, Dissolved	20.1	ug/L	5.0	08/31/17 12:31	
40155891023	MW-68B					
EPA 6010	Cadmium, Dissolved	4.0J	ug/L	5.0	08/31/17 12:43	
40155891024	MW-70B					
EPA 6010	Cadmium, Dissolved	4.0J	ug/L	5.0	08/31/17 12:45	
40155891025	MW-75					
EPA 6010	Cadmium, Dissolved	2.1J	ug/L	5.0	08/31/17 12:48	
40155891026	EC-1					
EPA 8260	Trichloroethene	1.2	ug/L	1.0	08/31/17 13:09	
40155891029	MH-18					
EPA 8260	1,1,1-Trichloroethane	0.88J	ug/L	1.0	08/31/17 12:47	
EPA 8260	Trichloroethene	0.54J	ug/L	1.0	08/31/17 12:47	
40155891030	MW-23A					
EPA 8260	Trichloroethene	0.64J	ug/L	1.0	08/31/17 17:48	
40155891031	MW-23B					
EPA 8260	Trichloroethene	1.8	ug/L	1.0	08/31/17 18:09	

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SUMMARY OF DETECTION

Project: 34283.000 NPI

Pace Project No.: 40155891

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
40155891032	EW-6					
EPA 8260	1,1,1-Trichloroethane	1.4	ug/L	1.0	08/31/17 18:30	
EPA 8260	Trichloroethene	0.91J	ug/L	1.0	08/31/17 18:30	
40155891033	EW-6 DUP					
EPA 8260	1,1,1-Trichloroethane	1.2	ug/L	1.0	08/31/17 18:52	
EPA 8260	Trichloroethene	0.73J	ug/L	1.0	08/31/17 18:52	
40155891034	MW-70 A DUP					
EPA 8260	1,1-Dichloroethane	0.43J	ug/L	1.0	08/31/17 19:13	
EPA 8260	Trichloroethene	0.69J	ug/L	1.0	08/31/17 19:13	

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PROJECT NARRATIVE

Project: 34283.000 NPI

Pace Project No.: 40155891

Method: EPA 6010

Description: 6010 MET ICP, Dissolved

Client: Gannett Fleming Inc.

Date: September 05, 2017

General Information:

5 samples were analyzed for EPA 6010. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: 34283.000 NPI

Pace Project No.: 40155891

Method: EPA 8260

Description: 8260 MSV

Client: Gannett Fleming Inc.

Date: September 05, 2017

General Information:

28 samples were analyzed for EPA 8260. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

Internal Standards:

All internal standards were within QC limits with any exceptions noted below.

Surrogates:

All surrogates were within QC limits with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.

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ANALYTICAL RESULTS

Project: 34283.000 NPI

Pace Project No.: 40155891

Sample: EW-1R H **Lab ID: 40155891001** Collected: 08/28/17 11:20 Received: 08/30/17 10:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260							
1,1,1-Trichloroethane	<0.50	ug/L	1.0	0.50	1		08/31/17 13:46	71-55-6	
1,1-Dichloroethane	<0.24	ug/L	1.0	0.24	1		08/31/17 13:46	75-34-3	
1,1-Dichloroethene	<0.41	ug/L	1.0	0.41	1		08/31/17 13:46	75-35-4	
Tetrachloroethene	<0.50	ug/L	1.0	0.50	1		08/31/17 13:46	127-18-4	
Trichloroethene	<0.33	ug/L	1.0	0.33	1		08/31/17 13:46	79-01-6	
Surrogates									
4-Bromofluorobenzene (S)	89	%	61-130		1		08/31/17 13:46	460-00-4	
Dibromofluoromethane (S)	100	%	67-130		1		08/31/17 13:46	1868-53-7	
Toluene-d8 (S)	96	%	70-130		1		08/31/17 13:46	2037-26-5	

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ANALYTICAL RESULTS

Project: 34283.000 NPI

Pace Project No.: 40155891

Sample: EW-1R M **Lab ID: 40155891002** Collected: 08/28/17 11:22 Received: 08/30/17 10:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260							
1,1,1-Trichloroethane	<0.50	ug/L	1.0	0.50	1		08/31/17 14:08	71-55-6	
1,1-Dichloroethane	<0.24	ug/L	1.0	0.24	1		08/31/17 14:08	75-34-3	
1,1-Dichloroethene	<0.41	ug/L	1.0	0.41	1		08/31/17 14:08	75-35-4	
Tetrachloroethene	<0.50	ug/L	1.0	0.50	1		08/31/17 14:08	127-18-4	
Trichloroethene	<0.33	ug/L	1.0	0.33	1		08/31/17 14:08	79-01-6	
Surrogates									
4-Bromofluorobenzene (S)	84	%	61-130		1		08/31/17 14:08	460-00-4	
Dibromofluoromethane (S)	105	%	67-130		1		08/31/17 14:08	1868-53-7	
Toluene-d8 (S)	98	%	70-130		1		08/31/17 14:08	2037-26-5	

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ANALYTICAL RESULTS

Project: 34283.000 NPI

Pace Project No.: 40155891

Sample: EW-1R L **Lab ID: 40155891003** Collected: 08/28/17 11:24 Received: 08/30/17 10:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260							
1,1,1-Trichloroethane	<0.50	ug/L	1.0	0.50	1		08/31/17 14:31	71-55-6	
1,1-Dichloroethane	<0.24	ug/L	1.0	0.24	1		08/31/17 14:31	75-34-3	
1,1-Dichloroethene	<0.41	ug/L	1.0	0.41	1		08/31/17 14:31	75-35-4	
Tetrachloroethene	<0.50	ug/L	1.0	0.50	1		08/31/17 14:31	127-18-4	
Trichloroethene	<0.33	ug/L	1.0	0.33	1		08/31/17 14:31	79-01-6	
Surrogates									
4-Bromofluorobenzene (S)	93	%	61-130		1		08/31/17 14:31	460-00-4	
Dibromofluoromethane (S)	103	%	67-130		1		08/31/17 14:31	1868-53-7	
Toluene-d8 (S)	99	%	70-130		1		08/31/17 14:31	2037-26-5	

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ANALYTICAL RESULTS

Project: 34283.000 NPI

Pace Project No.: 40155891

Sample: EW-2 H **Lab ID: 40155891004** Collected: 08/28/17 11:40 Received: 08/30/17 10:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260							
1,1,1-Trichloroethane	<0.50	ug/L	1.0	0.50	1		08/31/17 17:55	71-55-6	
1,1-Dichloroethane	<0.24	ug/L	1.0	0.24	1		08/31/17 17:55	75-34-3	
1,1-Dichloroethene	<0.41	ug/L	1.0	0.41	1		08/31/17 17:55	75-35-4	
Tetrachloroethene	<0.50	ug/L	1.0	0.50	1		08/31/17 17:55	127-18-4	
Trichloroethene	<0.33	ug/L	1.0	0.33	1		08/31/17 17:55	79-01-6	
Surrogates									
4-Bromofluorobenzene (S)	91	%	61-130		1		08/31/17 17:55	460-00-4	
Dibromofluoromethane (S)	106	%	67-130		1		08/31/17 17:55	1868-53-7	
Toluene-d8 (S)	100	%	70-130		1		08/31/17 17:55	2037-26-5	

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ANALYTICAL RESULTS

Project: 34283.000 NPI

Pace Project No.: 40155891

Sample: EW-2 L **Lab ID: 40155891005** Collected: 08/28/17 11:42 Received: 08/30/17 10:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260							
1,1,1-Trichloroethane	<0.50	ug/L	1.0	0.50	1		08/31/17 18:17	71-55-6	
1,1-Dichloroethane	<0.24	ug/L	1.0	0.24	1		08/31/17 18:17	75-34-3	
1,1-Dichloroethene	<0.41	ug/L	1.0	0.41	1		08/31/17 18:17	75-35-4	
Tetrachloroethene	<0.50	ug/L	1.0	0.50	1		08/31/17 18:17	127-18-4	
Trichloroethene	<0.33	ug/L	1.0	0.33	1		08/31/17 18:17	79-01-6	
Surrogates									
4-Bromofluorobenzene (S)	85	%	61-130		1		08/31/17 18:17	460-00-4	
Dibromofluoromethane (S)	104	%	67-130		1		08/31/17 18:17	1868-53-7	
Toluene-d8 (S)	97	%	70-130		1		08/31/17 18:17	2037-26-5	

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ANALYTICAL RESULTS

Project: 34283.000 NPI

Pace Project No.: 40155891

Sample: EW-5 H **Lab ID: 40155891006** Collected: 08/28/17 14:30 Received: 08/30/17 10:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260							
1,1,1-Trichloroethane	<0.50	ug/L	1.0	0.50	1		08/31/17 11:30	71-55-6	
1,1-Dichloroethane	<0.24	ug/L	1.0	0.24	1		08/31/17 11:30	75-34-3	
1,1-Dichloroethene	<0.41	ug/L	1.0	0.41	1		08/31/17 11:30	75-35-4	
Tetrachloroethene	<0.50	ug/L	1.0	0.50	1		08/31/17 11:30	127-18-4	
Trichloroethene	0.37J	ug/L	1.0	0.33	1		08/31/17 11:30	79-01-6	
Surrogates									
4-Bromofluorobenzene (S)	89	%	61-130		1		08/31/17 11:30	460-00-4	
Dibromofluoromethane (S)	104	%	67-130		1		08/31/17 11:30	1868-53-7	
Toluene-d8 (S)	97	%	70-130		1		08/31/17 11:30	2037-26-5	

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ANALYTICAL RESULTS

Project: 34283.000 NPI

Pace Project No.: 40155891

Sample: EW-5 L **Lab ID: 40155891007** Collected: 08/28/17 14:25 Received: 08/30/17 10:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260							
1,1,1-Trichloroethane	<0.50	ug/L	1.0	0.50	1		08/31/17 11:53	71-55-6	
1,1-Dichloroethane	<0.24	ug/L	1.0	0.24	1		08/31/17 11:53	75-34-3	
1,1-Dichloroethene	<0.41	ug/L	1.0	0.41	1		08/31/17 11:53	75-35-4	
Tetrachloroethene	<0.50	ug/L	1.0	0.50	1		08/31/17 11:53	127-18-4	
Trichloroethene	0.42J	ug/L	1.0	0.33	1		08/31/17 11:53	79-01-6	
Surrogates									
4-Bromofluorobenzene (S)	91	%	61-130		1		08/31/17 11:53	460-00-4	
Dibromofluoromethane (S)	102	%	67-130		1		08/31/17 11:53	1868-53-7	
Toluene-d8 (S)	102	%	70-130		1		08/31/17 11:53	2037-26-5	

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ANALYTICAL RESULTS

Project: 34283.000 NPI

Pace Project No.: 40155891

Sample: EW-5 L DUP **Lab ID: 40155891008** Collected: 08/28/17 14:25 Received: 08/30/17 10:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260							
1,1,1-Trichloroethane	<0.50	ug/L	1.0	0.50	1		08/31/17 12:15	71-55-6	
1,1-Dichloroethane	<0.24	ug/L	1.0	0.24	1		08/31/17 12:15	75-34-3	
1,1-Dichloroethene	<0.41	ug/L	1.0	0.41	1		08/31/17 12:15	75-35-4	
Tetrachloroethene	<0.50	ug/L	1.0	0.50	1		08/31/17 12:15	127-18-4	
Trichloroethene	0.38J	ug/L	1.0	0.33	1		08/31/17 12:15	79-01-6	
Surrogates									
4-Bromofluorobenzene (S)	88	%	61-130		1		08/31/17 12:15	460-00-4	
Dibromofluoromethane (S)	101	%	67-130		1		08/31/17 12:15	1868-53-7	
Toluene-d8 (S)	98	%	70-130		1		08/31/17 12:15	2037-26-5	

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ANALYTICAL RESULTS

Project: 34283.000 NPI

Pace Project No.: 40155891

Sample: MW-4A **Lab ID: 40155891009** Collected: 08/28/17 14:45 Received: 08/30/17 10:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260							
1,1,1-Trichloroethane	<0.50	ug/L	1.0	0.50	1		08/31/17 14:53	71-55-6	
1,1-Dichloroethane	<0.24	ug/L	1.0	0.24	1		08/31/17 14:53	75-34-3	
1,1-Dichloroethene	<0.41	ug/L	1.0	0.41	1		08/31/17 14:53	75-35-4	
Tetrachloroethene	<0.50	ug/L	1.0	0.50	1		08/31/17 14:53	127-18-4	
Trichloroethene	<0.33	ug/L	1.0	0.33	1		08/31/17 14:53	79-01-6	
Surrogates									
4-Bromofluorobenzene (S)	88	%	61-130		1		08/31/17 14:53	460-00-4	
Dibromofluoromethane (S)	102	%	67-130		1		08/31/17 14:53	1868-53-7	
Toluene-d8 (S)	100	%	70-130		1		08/31/17 14:53	2037-26-5	

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ANALYTICAL RESULTS

Project: 34283.000 NPI

Pace Project No.: 40155891

Sample: MW-4B **Lab ID: 40155891010** Collected: 08/28/17 14:40 Received: 08/30/17 10:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260							
1,1,1-Trichloroethane	<0.50	ug/L	1.0	0.50	1		08/31/17 15:16	71-55-6	
1,1-Dichloroethane	<0.24	ug/L	1.0	0.24	1		08/31/17 15:16	75-34-3	
1,1-Dichloroethene	<0.41	ug/L	1.0	0.41	1		08/31/17 15:16	75-35-4	
Tetrachloroethene	<0.50	ug/L	1.0	0.50	1		08/31/17 15:16	127-18-4	
Trichloroethene	0.38J	ug/L	1.0	0.33	1		08/31/17 15:16	79-01-6	
Surrogates									
4-Bromofluorobenzene (S)	82	%	61-130		1		08/31/17 15:16	460-00-4	
Dibromofluoromethane (S)	106	%	67-130		1		08/31/17 15:16	1868-53-7	
Toluene-d8 (S)	97	%	70-130		1		08/31/17 15:16	2037-26-5	

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ANALYTICAL RESULTS

Project: 34283.000 NPI

Pace Project No.: 40155891

Sample: MW-34A **Lab ID: 40155891011** Collected: 08/28/17 13:25 Received: 08/30/17 10:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260							
1,1,1-Trichloroethane	<0.50	ug/L	1.0	0.50	1		08/31/17 15:39	71-55-6	
1,1-Dichloroethane	0.28J	ug/L	1.0	0.24	1		08/31/17 15:39	75-34-3	
1,1-Dichloroethene	<0.41	ug/L	1.0	0.41	1		08/31/17 15:39	75-35-4	
Tetrachloroethene	<0.50	ug/L	1.0	0.50	1		08/31/17 15:39	127-18-4	
Trichloroethene	<0.33	ug/L	1.0	0.33	1		08/31/17 15:39	79-01-6	
Surrogates									
4-Bromofluorobenzene (S)	90	%	61-130		1		08/31/17 15:39	460-00-4	
Dibromofluoromethane (S)	101	%	67-130		1		08/31/17 15:39	1868-53-7	
Toluene-d8 (S)	99	%	70-130		1		08/31/17 15:39	2037-26-5	

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ANALYTICAL RESULTS

Project: 34283.000 NPI

Pace Project No.: 40155891

Sample: MW-34B **Lab ID: 40155891012** Collected: 08/28/17 13:10 Received: 08/30/17 10:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260							
1,1,1-Trichloroethane	<0.50	ug/L	1.0	0.50	1		08/31/17 16:01	71-55-6	
1,1-Dichloroethane	<0.24	ug/L	1.0	0.24	1		08/31/17 16:01	75-34-3	
1,1-Dichloroethene	<0.41	ug/L	1.0	0.41	1		08/31/17 16:01	75-35-4	
Tetrachloroethene	<0.50	ug/L	1.0	0.50	1		08/31/17 16:01	127-18-4	
Trichloroethene	<0.33	ug/L	1.0	0.33	1		08/31/17 16:01	79-01-6	
Surrogates									
4-Bromofluorobenzene (S)	91	%	61-130		1		08/31/17 16:01	460-00-4	
Dibromofluoromethane (S)	102	%	67-130		1		08/31/17 16:01	1868-53-7	
Toluene-d8 (S)	98	%	70-130		1		08/31/17 16:01	2037-26-5	

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ANALYTICAL RESULTS

Project: 34283.000 NPI

Pace Project No.: 40155891

Sample: MW-34C **Lab ID: 40155891013** Collected: 08/28/17 13:18 Received: 08/30/17 10:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260							
1,1,1-Trichloroethane	<0.50	ug/L	1.0	0.50	1		08/31/17 16:24	71-55-6	
1,1-Dichloroethane	<0.24	ug/L	1.0	0.24	1		08/31/17 16:24	75-34-3	
1,1-Dichloroethene	<0.41	ug/L	1.0	0.41	1		08/31/17 16:24	75-35-4	
Tetrachloroethene	<0.50	ug/L	1.0	0.50	1		08/31/17 16:24	127-18-4	
Trichloroethene	<0.33	ug/L	1.0	0.33	1		08/31/17 16:24	79-01-6	
Surrogates									
4-Bromofluorobenzene (S)	86	%	61-130		1		08/31/17 16:24	460-00-4	
Dibromofluoromethane (S)	103	%	67-130		1		08/31/17 16:24	1868-53-7	
Toluene-d8 (S)	97	%	70-130		1		08/31/17 16:24	2037-26-5	

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ANALYTICAL RESULTS

Project: 34283.000 NPI

Pace Project No.: 40155891

Sample: MW-70A **Lab ID: 40155891014** Collected: 08/28/17 12:50 Received: 08/30/17 10:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260							
1,1,1-Trichloroethane	<0.50	ug/L	1.0	0.50	1		08/31/17 12:38	71-55-6	
1,1-Dichloroethane	0.33J	ug/L	1.0	0.24	1		08/31/17 12:38	75-34-3	
1,1-Dichloroethene	<0.41	ug/L	1.0	0.41	1		08/31/17 12:38	75-35-4	
Tetrachloroethene	<0.50	ug/L	1.0	0.50	1		08/31/17 12:38	127-18-4	
Trichloroethene	0.61J	ug/L	1.0	0.33	1		08/31/17 12:38	79-01-6	
Surrogates									
4-Bromofluorobenzene (S)	91	%	61-130		1		08/31/17 12:38	460-00-4	
Dibromofluoromethane (S)	102	%	67-130		1		08/31/17 12:38	1868-53-7	
Toluene-d8 (S)	100	%	70-130		1		08/31/17 12:38	2037-26-5	

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ANALYTICAL RESULTS

Project: 34283.000 NPI

Pace Project No.: 40155891

Sample: MW-70B **Lab ID: 40155891015** Collected: 08/28/17 13:00 Received: 08/30/17 10:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260							
1,1,1-Trichloroethane	<0.50	ug/L	1.0	0.50	1		08/31/17 16:47	71-55-6	
1,1-Dichloroethane	<0.24	ug/L	1.0	0.24	1		08/31/17 16:47	75-34-3	
1,1-Dichloroethene	<0.41	ug/L	1.0	0.41	1		08/31/17 16:47	75-35-4	
Tetrachloroethene	<0.50	ug/L	1.0	0.50	1		08/31/17 16:47	127-18-4	
Trichloroethene	<0.33	ug/L	1.0	0.33	1		08/31/17 16:47	79-01-6	
Surrogates									
4-Bromofluorobenzene (S)	89	%	61-130		1		08/31/17 16:47	460-00-4	
Dibromofluoromethane (S)	106	%	67-130		1		08/31/17 16:47	1868-53-7	
Toluene-d8 (S)	98	%	70-130		1		08/31/17 16:47	2037-26-5	

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ANALYTICAL RESULTS

Project: 34283.000 NPI

Pace Project No.: 40155891

Sample: MW-76A **Lab ID: 40155891016** Collected: 08/28/17 15:45 Received: 08/30/17 10:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260							
1,1,1-Trichloroethane	<0.50	ug/L	1.0	0.50	1		08/31/17 11:08	71-55-6	
1,1-Dichloroethane	<0.24	ug/L	1.0	0.24	1		08/31/17 11:08	75-34-3	
1,1-Dichloroethene	<0.41	ug/L	1.0	0.41	1		08/31/17 11:08	75-35-4	
Tetrachloroethene	<0.50	ug/L	1.0	0.50	1		08/31/17 11:08	127-18-4	
Trichloroethene	<0.33	ug/L	1.0	0.33	1		08/31/17 11:08	79-01-6	
Surrogates									
4-Bromofluorobenzene (S)	90	%	61-130		1		08/31/17 11:08	460-00-4	
Dibromofluoromethane (S)	99	%	67-130		1		08/31/17 11:08	1868-53-7	
Toluene-d8 (S)	100	%	70-130		1		08/31/17 11:08	2037-26-5	

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ANALYTICAL RESULTS

Project: 34283.000 NPI

Pace Project No.: 40155891

Sample: MW-76B **Lab ID: 40155891017** Collected: 08/28/17 15:35 Received: 08/30/17 10:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260							
1,1,1-Trichloroethane	<0.50	ug/L	1.0	0.50	1		08/31/17 17:09	71-55-6	
1,1-Dichloroethane	<0.24	ug/L	1.0	0.24	1		08/31/17 17:09	75-34-3	
1,1-Dichloroethene	<0.41	ug/L	1.0	0.41	1		08/31/17 17:09	75-35-4	
Tetrachloroethene	<0.50	ug/L	1.0	0.50	1		08/31/17 17:09	127-18-4	
Trichloroethene	<0.33	ug/L	1.0	0.33	1		08/31/17 17:09	79-01-6	
Surrogates									
4-Bromofluorobenzene (S)	87	%	61-130		1		08/31/17 17:09	460-00-4	
Dibromofluoromethane (S)	109	%	67-130		1		08/31/17 17:09	1868-53-7	
Toluene-d8 (S)	97	%	70-130		1		08/31/17 17:09	2037-26-5	

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ANALYTICAL RESULTS

Project: 34283.000 NPI

Pace Project No.: 40155891

Sample: MW-77A **Lab ID: 40155891018** Collected: 08/28/17 15:10 Received: 08/30/17 10:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260							
1,1,1-Trichloroethane	<0.50	ug/L	1.0	0.50	1		08/31/17 17:32	71-55-6	
1,1-Dichloroethane	<0.24	ug/L	1.0	0.24	1		08/31/17 17:32	75-34-3	
1,1-Dichloroethene	<0.41	ug/L	1.0	0.41	1		08/31/17 17:32	75-35-4	
Tetrachloroethene	<0.50	ug/L	1.0	0.50	1		08/31/17 17:32	127-18-4	
Trichloroethene	0.35J	ug/L	1.0	0.33	1		08/31/17 17:32	79-01-6	
Surrogates									
4-Bromofluorobenzene (S)	92	%	61-130		1		08/31/17 17:32	460-00-4	
Dibromofluoromethane (S)	99	%	67-130		1		08/31/17 17:32	1868-53-7	
Toluene-d8 (S)	102	%	70-130		1		08/31/17 17:32	2037-26-5	

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ANALYTICAL RESULTS

Project: 34283.000 NPI

Pace Project No.: 40155891

Sample: MW-77B **Lab ID: 40155891019** Collected: 08/28/17 15:05 Received: 08/30/17 10:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260							
1,1,1-Trichloroethane	<0.50	ug/L	1.0	0.50	1		08/31/17 13:00	71-55-6	
1,1-Dichloroethane	<0.24	ug/L	1.0	0.24	1		08/31/17 13:00	75-34-3	
1,1-Dichloroethene	<0.41	ug/L	1.0	0.41	1		08/31/17 13:00	75-35-4	
Tetrachloroethene	<0.50	ug/L	1.0	0.50	1		08/31/17 13:00	127-18-4	
Trichloroethene	2.1	ug/L	1.0	0.33	1		08/31/17 13:00	79-01-6	
Surrogates									
4-Bromofluorobenzene (S)	92	%	61-130		1		08/31/17 13:00	460-00-4	
Dibromofluoromethane (S)	102	%	67-130		1		08/31/17 13:00	1868-53-7	
Toluene-d8 (S)	98	%	70-130		1		08/31/17 13:00	2037-26-5	

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ANALYTICAL RESULTS

Project: 34283.000 NPI

Pace Project No.: 40155891

Sample: MW-77C **Lab ID: 40155891020** Collected: 08/28/17 15:00 Received: 08/30/17 10:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260							
1,1,1-Trichloroethane	<0.50	ug/L	1.0	0.50	1		08/31/17 13:23	71-55-6	
1,1-Dichloroethane	<0.24	ug/L	1.0	0.24	1		08/31/17 13:23	75-34-3	
1,1-Dichloroethene	<0.41	ug/L	1.0	0.41	1		08/31/17 13:23	75-35-4	
Tetrachloroethene	<0.50	ug/L	1.0	0.50	1		08/31/17 13:23	127-18-4	
Trichloroethene	0.59J	ug/L	1.0	0.33	1		08/31/17 13:23	79-01-6	
Surrogates									
4-Bromofluorobenzene (S)	87	%	61-130		1		08/31/17 13:23	460-00-4	
Dibromofluoromethane (S)	102	%	67-130		1		08/31/17 13:23	1868-53-7	
Toluene-d8 (S)	94	%	70-130		1		08/31/17 13:23	2037-26-5	

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ANALYTICAL RESULTS

Project: 34283.000 NPI

Pace Project No.: 40155891

Sample: MW-10A **Lab ID: 40155891021** Collected: 08/28/17 12:38 Received: 08/30/17 10:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, Dissolved	Analytical Method: EPA 6010								
Cadmium, Dissolved	20.1	ug/L	5.0	1.3	1		08/31/17 12:31	7440-43-9	

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ANALYTICAL RESULTS

Project: 34283.000 NPI

Pace Project No.: 40155891

Sample: MW-10B **Lab ID: 40155891022** Collected: 08/28/17 12:40 Received: 08/30/17 10:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, Dissolved	Analytical Method: EPA 6010								
Cadmium, Dissolved	<1.3	ug/L	5.0	1.3	1		08/31/17 12:38	7440-43-9	

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ANALYTICAL RESULTS

Project: 34283.000 NPI

Pace Project No.: 40155891

Sample: MW-68B **Lab ID: 40155891023** Collected: 08/28/17 14:05 Received: 08/30/17 10:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, Dissolved	Analytical Method: EPA 6010								
Cadmium, Dissolved	4.0J	ug/L	5.0	1.3	1		08/31/17 12:43	7440-43-9	

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ANALYTICAL RESULTS

Project: 34283.000 NPI

Pace Project No.: 40155891

Sample: MW-70B **Lab ID: 40155891024** Collected: 08/28/17 13:45 Received: 08/30/17 10:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, Dissolved	Analytical Method: EPA 6010								
Cadmium, Dissolved	4.0J	ug/L	5.0	1.3	1		08/31/17 12:45	7440-43-9	

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ANALYTICAL RESULTS

Project: 34283.000 NPI

Pace Project No.: 40155891

Sample: MW-75 **Lab ID: 40155891025** Collected: 08/28/17 13:10 Received: 08/30/17 10:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, Dissolved	Analytical Method: EPA 6010								
Cadmium, Dissolved	2.1J	ug/L	5.0	1.3	1		08/31/17 12:48	7440-43-9	

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ANALYTICAL RESULTS

Project: 34283.000 NPI

Pace Project No.: 40155891

Sample: EC-1 **Lab ID: 40155891026** Collected: 08/29/17 09:40 Received: 08/30/17 10:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260							
1,1,1-Trichloroethane	<0.50	ug/L	1.0	0.50	1		08/31/17 13:09	71-55-6	
1,1-Dichloroethane	<0.24	ug/L	1.0	0.24	1		08/31/17 13:09	75-34-3	
1,1-Dichloroethene	<0.41	ug/L	1.0	0.41	1		08/31/17 13:09	75-35-4	
Tetrachloroethene	<0.50	ug/L	1.0	0.50	1		08/31/17 13:09	127-18-4	
Trichloroethene	1.2	ug/L	1.0	0.33	1		08/31/17 13:09	79-01-6	
Surrogates									
4-Bromofluorobenzene (S)	87	%	61-130		1		08/31/17 13:09	460-00-4	
Dibromofluoromethane (S)	105	%	67-130		1		08/31/17 13:09	1868-53-7	
Toluene-d8 (S)	96	%	70-130		1		08/31/17 13:09	2037-26-5	

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ANALYTICAL RESULTS

Project: 34283.000 NPI

Pace Project No.: 40155891

Sample: MH-18 **Lab ID: 40155891029** Collected: 08/29/17 10:10 Received: 08/30/17 10:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260							
1,1,1-Trichloroethane	0.88J	ug/L	1.0	0.50	1		08/31/17 12:47	71-55-6	
1,1-Dichloroethane	<0.24	ug/L	1.0	0.24	1		08/31/17 12:47	75-34-3	
1,1-Dichloroethene	<0.41	ug/L	1.0	0.41	1		08/31/17 12:47	75-35-4	
Tetrachloroethene	<0.50	ug/L	1.0	0.50	1		08/31/17 12:47	127-18-4	
Trichloroethene	0.54J	ug/L	1.0	0.33	1		08/31/17 12:47	79-01-6	
Surrogates									
4-Bromofluorobenzene (S)	87	%	61-130		1		08/31/17 12:47	460-00-4	
Dibromofluoromethane (S)	107	%	67-130		1		08/31/17 12:47	1868-53-7	
Toluene-d8 (S)	95	%	70-130		1		08/31/17 12:47	2037-26-5	

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ANALYTICAL RESULTS

Project: 34283.000 NPI

Pace Project No.: 40155891

Sample: MW-23A **Lab ID: 40155891030** Collected: 08/29/17 07:55 Received: 08/30/17 10:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260							
1,1,1-Trichloroethane	<0.50	ug/L	1.0	0.50	1		08/31/17 17:48	71-55-6	
1,1-Dichloroethane	<0.24	ug/L	1.0	0.24	1		08/31/17 17:48	75-34-3	
1,1-Dichloroethene	<0.41	ug/L	1.0	0.41	1		08/31/17 17:48	75-35-4	
Tetrachloroethene	<0.50	ug/L	1.0	0.50	1		08/31/17 17:48	127-18-4	
Trichloroethene	0.64J	ug/L	1.0	0.33	1		08/31/17 17:48	79-01-6	
Surrogates									
4-Bromofluorobenzene (S)	89	%	61-130		1		08/31/17 17:48	460-00-4	
Dibromofluoromethane (S)	112	%	67-130		1		08/31/17 17:48	1868-53-7	
Toluene-d8 (S)	96	%	70-130		1		08/31/17 17:48	2037-26-5	

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ANALYTICAL RESULTS

Project: 34283.000 NPI

Pace Project No.: 40155891

Sample: MW-23B **Lab ID: 40155891031** Collected: 08/29/17 08:00 Received: 08/30/17 10:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260							
1,1,1-Trichloroethane	<0.50	ug/L	1.0	0.50	1		08/31/17 18:09	71-55-6	
1,1-Dichloroethane	<0.24	ug/L	1.0	0.24	1		08/31/17 18:09	75-34-3	
1,1-Dichloroethene	<0.41	ug/L	1.0	0.41	1		08/31/17 18:09	75-35-4	
Tetrachloroethene	<0.50	ug/L	1.0	0.50	1		08/31/17 18:09	127-18-4	
Trichloroethene	1.8	ug/L	1.0	0.33	1		08/31/17 18:09	79-01-6	
Surrogates									
4-Bromofluorobenzene (S)	82	%	61-130		1		08/31/17 18:09	460-00-4	
Dibromofluoromethane (S)	114	%	67-130		1		08/31/17 18:09	1868-53-7	
Toluene-d8 (S)	92	%	70-130		1		08/31/17 18:09	2037-26-5	

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ANALYTICAL RESULTS

Project: 34283.000 NPI

Pace Project No.: 40155891

Sample: EW-6 **Lab ID: 40155891032** Collected: 08/28/17 15:25 Received: 08/30/17 10:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260							
1,1,1-Trichloroethane	1.4	ug/L	1.0	0.50	1		08/31/17 18:30	71-55-6	
1,1-Dichloroethane	<0.24	ug/L	1.0	0.24	1		08/31/17 18:30	75-34-3	
1,1-Dichloroethene	<0.41	ug/L	1.0	0.41	1		08/31/17 18:30	75-35-4	
Tetrachloroethene	<0.50	ug/L	1.0	0.50	1		08/31/17 18:30	127-18-4	
Trichloroethene	0.91J	ug/L	1.0	0.33	1		08/31/17 18:30	79-01-6	
Surrogates									
4-Bromofluorobenzene (S)	85	%	61-130		1		08/31/17 18:30	460-00-4	
Dibromofluoromethane (S)	115	%	67-130		1		08/31/17 18:30	1868-53-7	
Toluene-d8 (S)	92	%	70-130		1		08/31/17 18:30	2037-26-5	

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ANALYTICAL RESULTS

Project: 34283.000 NPI

Pace Project No.: 40155891

Sample: EW-6 DUP **Lab ID: 40155891033** Collected: 08/28/17 15:25 Received: 08/30/17 10:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260							
1,1,1-Trichloroethane	1.2	ug/L	1.0	0.50	1		08/31/17 18:52	71-55-6	
1,1-Dichloroethane	<0.24	ug/L	1.0	0.24	1		08/31/17 18:52	75-34-3	
1,1-Dichloroethene	<0.41	ug/L	1.0	0.41	1		08/31/17 18:52	75-35-4	
Tetrachloroethene	<0.50	ug/L	1.0	0.50	1		08/31/17 18:52	127-18-4	
Trichloroethene	0.73J	ug/L	1.0	0.33	1		08/31/17 18:52	79-01-6	
Surrogates									
4-Bromofluorobenzene (S)	84	%	61-130		1		08/31/17 18:52	460-00-4	
Dibromofluoromethane (S)	111	%	67-130		1		08/31/17 18:52	1868-53-7	
Toluene-d8 (S)	90	%	70-130		1		08/31/17 18:52	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 34283.000 NPI

Pace Project No.: 40155891

Sample: MW-70 A DUP **Lab ID: 40155891034** Collected: 08/28/17 12:50 Received: 08/30/17 10:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260							
1,1,1-Trichloroethane	<0.50	ug/L	1.0	0.50	1		08/31/17 19:13	71-55-6	
1,1-Dichloroethane	0.43J	ug/L	1.0	0.24	1		08/31/17 19:13	75-34-3	
1,1-Dichloroethene	<0.41	ug/L	1.0	0.41	1		08/31/17 19:13	75-35-4	
Tetrachloroethene	<0.50	ug/L	1.0	0.50	1		08/31/17 19:13	127-18-4	
Trichloroethene	0.69J	ug/L	1.0	0.33	1		08/31/17 19:13	79-01-6	
Surrogates									
4-Bromofluorobenzene (S)	83	%	61-130		1		08/31/17 19:13	460-00-4	
Dibromofluoromethane (S)	115	%	67-130		1		08/31/17 19:13	1868-53-7	
Toluene-d8 (S)	91	%	70-130		1		08/31/17 19:13	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 34283.000 NPI

Pace Project No.: 40155891

Sample: MW-76 B DUP **Lab ID: 40155891035** Collected: 08/28/17 15:35 Received: 08/30/17 10:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260							
1,1,1-Trichloroethane	<0.50	ug/L	1.0	0.50	1		08/31/17 19:34	71-55-6	
1,1-Dichloroethane	<0.24	ug/L	1.0	0.24	1		08/31/17 19:34	75-34-3	
1,1-Dichloroethene	<0.41	ug/L	1.0	0.41	1		08/31/17 19:34	75-35-4	
Tetrachloroethene	<0.50	ug/L	1.0	0.50	1		08/31/17 19:34	127-18-4	
Trichloroethene	<0.33	ug/L	1.0	0.33	1		08/31/17 19:34	79-01-6	
Surrogates									
4-Bromofluorobenzene (S)	85	%	61-130		1		08/31/17 19:34	460-00-4	
Dibromofluoromethane (S)	116	%	67-130		1		08/31/17 19:34	1868-53-7	
Toluene-d8 (S)	92	%	70-130		1		08/31/17 19:34	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 34283.000 NPI
Pace Project No.: 40155891

QC Batch: 266348 Analysis Method: EPA 6010
QC Batch Method: EPA 6010 Analysis Description: ICP Metals, Trace, Dissolved
Associated Lab Samples: 40155891021, 40155891022, 40155891023, 40155891024, 40155891025

METHOD BLANK: 1565501 Matrix: Water
Associated Lab Samples: 40155891021, 40155891022, 40155891023, 40155891024, 40155891025

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Cadmium, Dissolved	ug/L	<1.3	5.0	08/31/17 13:14	

LABORATORY CONTROL SAMPLE: 1565502

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Cadmium, Dissolved	ug/L	500	492	98	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1565503 1565504

Parameter	Units	40155891021 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Cadmium, Dissolved	ug/L	20.1	500	500	522	524	100	101	75-125	0	20	

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: 34283.000 NPI
Pace Project No.: 40155891

QC Batch: 266296 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV
Associated Lab Samples: 40155891001, 40155891002, 40155891003, 40155891004, 40155891005, 40155891006, 40155891007, 40155891008, 40155891009, 40155891010, 40155891011, 40155891012, 40155891013, 40155891014, 40155891015, 40155891016, 40155891017, 40155891018, 40155891019, 40155891020

METHOD BLANK: 1565218 Matrix: Water
Associated Lab Samples: 40155891001, 40155891002, 40155891003, 40155891004, 40155891005, 40155891006, 40155891007, 40155891008, 40155891009, 40155891010, 40155891011, 40155891012, 40155891013, 40155891014, 40155891015, 40155891016, 40155891017, 40155891018, 40155891019, 40155891020

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	<0.50	1.0	08/31/17 09:29	
1,1-Dichloroethane	ug/L	<0.24	1.0	08/31/17 09:29	
1,1-Dichloroethene	ug/L	<0.41	1.0	08/31/17 09:29	
Tetrachloroethene	ug/L	<0.50	1.0	08/31/17 09:29	
Trichloroethene	ug/L	<0.33	1.0	08/31/17 09:29	
4-Bromofluorobenzene (S)	%	83	61-130	08/31/17 09:29	
Dibromofluoromethane (S)	%	102	67-130	08/31/17 09:29	
Toluene-d8 (S)	%	98	70-130	08/31/17 09:29	

LABORATORY CONTROL SAMPLE: 1565219

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	50	55.3	111	70-130	
1,1-Dichloroethane	ug/L	50	50.0	100	71-132	
1,1-Dichloroethene	ug/L	50	47.1	94	75-130	
Tetrachloroethene	ug/L	50	55.7	111	70-130	
Trichloroethene	ug/L	50	55.4	111	70-130	
4-Bromofluorobenzene (S)	%			101	61-130	
Dibromofluoromethane (S)	%			101	67-130	
Toluene-d8 (S)	%			99	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1565220 1565221

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	Max RPD	Qual	
		40155891016 Result	Spike Conc.	Spike Conc.	MS Result						MSD Result
1,1,1-Trichloroethane	ug/L	<0.50	50	50	55.5	54.4	111	109	70-134	2	20
1,1-Dichloroethane	ug/L	<0.24	50	50	52.7	51.2	105	102	71-133	3	20
1,1-Dichloroethene	ug/L	<0.41	50	50	49.0	46.1	98	92	75-136	6	20
Tetrachloroethene	ug/L	<0.50	50	50	51.8	52.4	104	105	70-130	1	20
Trichloroethene	ug/L	<0.33	50	50	54.5	55.4	109	111	70-130	2	20
4-Bromofluorobenzene (S)	%						96	100	61-130		
Dibromofluoromethane (S)	%						104	101	67-130		
Toluene-d8 (S)	%						97	96	70-130		

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: 34283.000 NPI
Pace Project No.: 40155891

QC Batch: 266297 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV
Associated Lab Samples: 40155891026, 40155891029, 40155891030, 40155891031, 40155891032, 40155891033, 40155891034, 40155891035

METHOD BLANK: 1565222 Matrix: Water
Associated Lab Samples: 40155891026, 40155891029, 40155891030, 40155891031, 40155891032, 40155891033, 40155891034, 40155891035

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	<0.50	1.0	08/31/17 11:06	
1,1-Dichloroethane	ug/L	<0.24	1.0	08/31/17 11:06	
1,1-Dichloroethene	ug/L	<0.41	1.0	08/31/17 11:06	
Tetrachloroethene	ug/L	<0.50	1.0	08/31/17 11:06	
Trichloroethene	ug/L	<0.33	1.0	08/31/17 11:06	
4-Bromofluorobenzene (S)	%	87	61-130	08/31/17 11:06	
Dibromofluoromethane (S)	%	107	67-130	08/31/17 11:06	
Toluene-d8 (S)	%	94	70-130	08/31/17 11:06	

LABORATORY CONTROL SAMPLE: 1565223

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	50	48.1	96	70-130	
1,1-Dichloroethane	ug/L	50	55.8	112	71-132	
1,1-Dichloroethene	ug/L	50	42.7	85	75-130	
Tetrachloroethene	ug/L	50	45.8	92	70-130	
Trichloroethene	ug/L	50	53.1	106	70-130	
4-Bromofluorobenzene (S)	%			103	61-130	
Dibromofluoromethane (S)	%			100	67-130	
Toluene-d8 (S)	%			96	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1565224 1565225

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		40155891026 Result	Spike Conc.	Spike Conc.	MS Result						
1,1,1-Trichloroethane	ug/L	<0.50	50	50	51.6	48.6	103	97	70-134	6	20
1,1-Dichloroethane	ug/L	<0.24	50	50	58.2	56.2	116	112	71-133	3	20
1,1-Dichloroethene	ug/L	<0.41	50	50	45.4	43.4	91	87	75-136	4	20
Tetrachloroethene	ug/L	<0.50	50	50	49.3	48.0	99	96	70-130	3	20
Trichloroethene	ug/L	1.2	50	50	56.0	57.5	110	112	70-130	3	20
4-Bromofluorobenzene (S)	%						106	103	61-130		
Dibromofluoromethane (S)	%						100	99	67-130		
Toluene-d8 (S)	%						97	97	70-130		

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: 34283.000 NPI

Pace Project No.: 40155891

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.

LABORATORIES

PASI-G Pace Analytical Services - Green Bay

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 34283.000 NPI
Pace Project No.: 40155891

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40155891021	MW-10A	EPA 6010	266348		
40155891022	MW-10B	EPA 6010	266348		
40155891023	MW-68B	EPA 6010	266348		
40155891024	MW-70B	EPA 6010	266348		
40155891025	MW-75	EPA 6010	266348		
40155891001	EW-1R H	EPA 8260	266296		
40155891002	EW-1R M	EPA 8260	266296		
40155891003	EW-1R L	EPA 8260	266296		
40155891004	EW-2 H	EPA 8260	266296		
40155891005	EW-2 L	EPA 8260	266296		
40155891006	EW-5 H	EPA 8260	266296		
40155891007	EW-5 L	EPA 8260	266296		
40155891008	EW-5 L DUP	EPA 8260	266296		
40155891009	MW-4A	EPA 8260	266296		
40155891010	MW-4B	EPA 8260	266296		
40155891011	MW-34A	EPA 8260	266296		
40155891012	MW-34B	EPA 8260	266296		
40155891013	MW-34C	EPA 8260	266296		
40155891014	MW-70A	EPA 8260	266296		
40155891015	MW-70B	EPA 8260	266296		
40155891016	MW-76A	EPA 8260	266296		
40155891017	MW-76B	EPA 8260	266296		
40155891018	MW-77A	EPA 8260	266296		
40155891019	MW-77B	EPA 8260	266296		
40155891020	MW-77C	EPA 8260	266296		
40155891026	EC-1	EPA 8260	266297		
40155891029	MH-18	EPA 8260	266297		
40155891030	MW-23A	EPA 8260	266297		
40155891031	MW-23B	EPA 8260	266297		
40155891032	EW-6	EPA 8260	266297		
40155891033	EW-6 DUP	EPA 8260	266297		
40155891034	MW-70 A DUP	EPA 8260	266297		
40155891035	MW-76 B DUP	EPA 8260	266297		

REPORT OF LABORATORY ANALYSIS

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(Please Print Clearly)

Company Name: Gannett Fleming
 Branch/Location: Madison, WI
 Project Contact: Cliff Wright
 Phone: 608-836-4500
 Project Number: 34283.000
 Project Name: NPI
 Project State: WI
 Sampled By (Print): Chelsea Payne
 Sampled By (Sign): Chelsea Payne



UPPER MIDWEST REGION

MN: 612-607-1700 WI: 920-469-2436

SSM/KR

40155891

Page 47 of 50

CHAIN OF CUSTODY

Preservation Codes
 A=None B=HCL C=H2SO4 D=HNO3 E=DI Water F=Methanol G=NaOH
 H=Sodium Bisulfate Solution I=Sodium Thiosulfate J=Other

FILTERED? (YES/NO)
 PRESERVATION (CODE)*

Y/N	Pick Letter	Regulatory Program	Analyses Requested
N	B		VOCs by 8260 B
			3

Data Package Options (billable)
 EPA Level III
 EPA Level IV

MS/MSD
 On your sample (billable)
 NOT needed on your sample

Matrix Codes
 A = Air W = Water
 B = Biota DW = Drinking Water
 C = Charcoal GW = Ground Water
 O = Oil SW = Surface Water
 S = Soil WW = Waste Water
 SI = Sludge WP = Wipe

PACE LAB #	CLIENT FIELD ID	COLLECTION		MATRIX
		DATE	TIME	
001	EW-IR H	8/28	11:20	GW
002	EW-IR M		11:22	
003	EW-IR L		11:24	
004	EW-2 H		11:40	
005	EW-2 L		11:42	
006	EW-5 H		14:38	
007	EW-5 L		14:25	
008	EW-5 L dup		14:25	
009	MW-4A		14:45	
010	MW-4B		14:40	
011	MW-34A		13:25	
012	MW-34B		13:10	
013	MW-34C		13:16	

Quote #:
Mail To Contact: Cliff Wright
Mail To Company: Gannett Fleming
Mail To Address: 8025 Excelsior Rd
Madison, WI 53717
Invoice To Contact:
Invoice To Company: See Mail
Invoice To Address: to
Invoice To Phone: 608-836-1500
CLIENT COMMENTS
LAB COMMENTS (Lab Use Only)
Profile #

Send copy of data pkg to Mary Wehler
 2-40mly⁸

Rush Turnaround Time Requested - Prelims
 (Rush TAT subject to approval/surcharge)
 Date Needed:

Relinquished By: Chelsea Payne Date/Time: 8/29/17 15:00
 Received By: _____ Date/Time: _____

Transmit Prelim Rush Results by (complete what you want):
 Relinquished By: CS Logistics Date/Time: 8/30/17 1000
 Received By: SSM Solved Pace Date/Time: 8/30/17 1000

Relinquished By: _____ Date/Time: _____
 Received By: _____ Date/Time: _____

Relinquished By: _____ Date/Time: _____
 Received By: _____ Date/Time: _____

Relinquished By: _____ Date/Time: _____
 Received By: _____ Date/Time: _____

PACE Project No. 40155891
 Receipt Temp = 201 °C
 Sample Receipt pH OK / Adjusted
 Cooler Custody Seal Present / Not Present
 Intact / Not Intact

UPPER MIDWEST REGION
MN: 612-607-1700 WI: 920-469-2436



CHAIN OF CUSTODY

***Preservation Codes**

A=None B=HCL C=H2SO4 D=HNO3 E=DI Water F=Methanol G=NaOH
H=Sodium Bisulfate Solution I=Sodium Thiosulfate J=Other

(Please Print Clearly)

Company Name: Gannett Fleming

Branch/Location:

Project Contact:

Phone: See

Project Number: 34283.000

Project Name: NPI

Project State: PG 1

Sampled By (Print):

Sampled By (Sign):

PO #:

Regulatory Program:

Data Package Options (billable)

EPA Level III

EPA Level IV

MS/MSD

On your sample (billable)

NOT needed on your sample

Matrix Codes

A = Air W = Water
B = Biota DW = Drinking Water
C = Charcoal GW = Ground Water
O = Oil SW = Surface Water
S = Soil WW = Waste Water
Sl = Sludge WP = Wipe

FILTERED? (YES/NO)
PRESERVATION (CODE)*

Y/N	Pick Letter	Analyses Requested	Matrix Codes
Y	B	VECS by 8/16/06	Cadmium diss
Y	D		

Quote #:

Mail To Contact:

Mail To Company:

Mail To Address: See pg 1

Invoice To Contact:

Invoice To Company:

Invoice To Address:

Invoice To Phone:

CLIENT COMMENTS

LAB COMMENTS (Lab Use Only)

Profile #

3-40 mL^B

9-40 mL^B = 2/24/07
8/15/07
8/16/07

250 mL^D

PACE LAB #	CLIENT FIELD ID	COLLECTION		MATRIX
		DATE	TIME	
014	MW-70A	8-28-07	12:50	GW
015	MW-70B		13:00	
016	MW-76A		15:45	
017	MW-76A MS		15:45	
018	MW-76A MSdup		15:45	
019	MW-76B 017		15:35	
020	MW-77A 018		15:10	
021	MW-77B 019		15:05	
022	MW-77C 020		15:05	
023	MW-10A 021		12:38	
024	MW-10B 022		12:40	
025	MW-68B 023		14:05	
026	MW-70B024		13:45	

Rush Turnaround Time Requested - Prelims (Rush Turnaround subject to approval/surcharge)

Date Needed: 8/29/07

Relinquished By: [Signature]	Date/Time: 8/29/07 15:00	Received By:	Date/Time:
Relinquished By: [Signature]	Date/Time: 8/30/07 1000	Received By: [Signature]	Date/Time: 8/30/07 1000
Relinquished By:	Date/Time:	Received By:	Date/Time:
Relinquished By:	Date/Time:	Received By:	Date/Time:

Samples on HOLD are subject to special pricing and release of liability

PACE Project No. 40155891

Receipt Temp = 101 °C

Sample Receipt pH OK / Adjusted

Cooler Custody Seal Present / Not Present Intact / Not Intact

(Please Print Clearly)

Company Name: Gunneth Fleming

Branch/Location:

Project Contact: See

Phone:

Project Number: 34243.000

Project Name: NPI

Project State:

Sampled By (Print): pg

Sampled By (Sign):

PO #:

Regulatory Program:



UPPER MIDWEST REGION
 MN: 612-607-1700 WI: 920-469-2436

4055891

CHAIN OF CUSTODY

***Preservation Codes**
 A=None B=HCL C=H2SO4 D=HNO3 E=DI Water F=Methanol G=NaOH
 H=Sodium Bisulfate Solution I=Sodium Thiosulfate J=Other

FILTERED?
(YES/NO)

PRESERVATION
(CODE)*

Y/N	Y	N																		
Pick Letter	D	B																		
Analyses Requested	Cadmium	VOCs 8260																		

Quote #:

Mail To Contact:

Mail To Company:

Mail To Address:

Invoice To Contact:

Invoice To Company:

Invoice To Address:

Invoice To Phone:

Data Package Options (billable)

EPA Level III

EPA Level IV

MS/MSD

On your sample (billable)

NOT needed on your sample

Matrix Codes

A = Air W = Water
 B = Biota DW = Drinking Water
 C = Charcoal GW = Ground Water
 O = Oil SW = Surface Water
 S = Soil WW = Waste Water
 Sl = Sludge WP = Wipe

PACE LAB #	CLIENT FIELD ID	COLLECTION		MATRIX
		DATE	TIME	
027	MW-75 D25	8/28/17	13:10	GW
028	EC-1 024	8/29/17	9:40	
029	EC-1 MS 027	8/30/17	"	
030	EC-1 MS dup 028	"	"	
	Trip Blank 027	8/28/17		
031	MW-18 028 030	8/29/17	10:10	
032	MW-23A 030 031	↓	8:55	↓
033	MW-23B 030 032	↓	8:00	↓
034	EW-6 031 033	8/28	15:25	"
035	EW-6 dup 032 034	"	15:25	"
036	MW-70 A dup 027	8/28/17	12:50	
037	MW-76 B dup 027	8/28/17	15:35	

CLIENT COMMENTS	LAB COMMENTS (Lab Use Only)	Profile #
	2-250 mL ^P	
	93-40 mL ^B	
	8-30-17 RR	
	3-40 mL ^B	

Rush Turnaround Time Requested - Prelims (Rush TAT subject to approval/surcharge)

Date Needed:

Transmit Prelim Rush Results by (complete what you want):

Email #1:

Email #2:

Telephone:

Fax:

Samples on HOLD are subject to special pricing and release of liability

Relinquished By: Chris Drog Date/Time: 8/29/17 5:00

Relinquished By: CS Equities Date/Time: 8/30/17 10:00

Relinquished By:

Relinquished By:

Relinquished By:

Received By:

Received By: Sam Sobel Pace Date/Time: 8/30/17 10:00

Received By:

Received By:

Received By:

PACE Project No. 4055891

Receipt Temp = 20.1 °C

Sample Receipt pH OK / Adjusted

Cooler Custody Seal Present (Not Present) Intact / Not Intact

C019a(27Jun2006) Added 3-40 mL B with ID MW-70A dup received in shipment 8/30/17
added 3-40 mL B with ID MW-76 B dup received in shipment 8/30/17

Sample Condition Upon Receipt

Pace Analytical Services, LLC. - Green Bay WI
1241 Bellevue Street, Suite 9
Green Bay, WI 54302

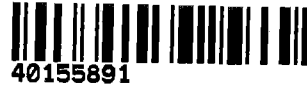


Client Name: Gannett Fleming

Project #: **WO# : 40155891**

Courier: Fed Ex UPS Client Pace Other:

Tracking #: 8115 9775 9934



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: 201 / Corr: _____ Biological Tissue is Frozen: yes

Temp Blank Present: yes no no

Person examining contents:
Date: 8/30/17
Initials: GO

Temp should be above freezing to 6°C.
Biota Samples may be received at ≤ 0°C.

Comments:

Chain of Custody Present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1.
Chain of Custody Filled Out:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	2. Added sample point 036 & 037 received in shipment
Chain of Custody Relinquished:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	3.
Sampler Name & Signature on COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	4.
Samples Arrived within Hold Time:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	5.
- VOA Samples frozen upon receipt	<input type="checkbox"/> Yes <input type="checkbox"/> No	Date/Time:
Short Hold Time Analysis (<72hr):	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	6.
Rush Turn Around Time Requested:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	7.
Sufficient Volume:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	8. No MS/MSD
Correct Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	9.
-Pace Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
-Pace IR Containers Used:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Containers Intact:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	10.
Filtered volume received for Dissolved tests	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	11.
Sample Labels match COC:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	12. added sample point 036-340 only B & 037-340 only B received in shipment & trip blank received in shipment
-Includes date/time/ID/Analysis Matrix: <u>W</u>		<input type="checkbox"/> HNO3 <input type="checkbox"/> H2SO4 <input type="checkbox"/> NaOH <input type="checkbox"/> NaOH + ZnAct
All containers needing preservation have been checked. (Non-Compliance noted in 13.)	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	13.
All containers needing preservation are found to be in compliance with EPA recommendation. (HNO3, H2SO4 ≤2; NaOH+ZnAct ≥9, NaOH ≥12)	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
exceptions: (VOA) coliform, TOC, TOX, TOH, O&G, WIDROW, Phenolics, OTHER:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Initial when completed
		Lab Std #ID of preservative
		Date/Time:
Headspace in VOA Vials (>6mm):	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	14.
Trip Blank Present:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	15.
Trip Blank Custody Seals Present	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> 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 FOC DM

Date: 8/30/17

September 11, 2017

Project #34283.000
NPI Q3 GW
Reviewed by CCW
9/11/17

Clifford Wright
Gannett Fleming
8025 Excelsior Drive
Madison, WI 53717

RE: Project: 34283.000 NPI
Pace Project No.: 40155900

Dear Clifford Wright:

Enclosed are the analytical results for sample(s) received by the laboratory on August 30, 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

cc: Mary C. Wehbe, MCW Scientific Solutions



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: 34283.000 NPI

Pace Project No.: 40155900

Minnesota Certification IDs

1700 Elm Street SE, Suite 200, Minneapolis, MN 55414-2485

A2LA Certification #: 2926.01

Alabama Certification #: 40770

Alaska Contaminated Sites Certification #: UST-078

Alaska DW Certification #: MN00064

Arizona Certification #: AZ0014

Arkansas Certification #: 88-0680

California Certification #: MN00064

CNMI Saipan Certification #: MP0003

Colorado Certification #: MN00064

Connecticut Certification #: PH-0256

EPA Region 8+Wyoming Certification #: via MN 027-053-137

Florida Certification #: E87605

Georgia Certification #: 959

Guam EPA Certification #: MN00064

Hawaii Certification #: MN00064

Idaho Certification #: MN00064

Illinois Certification #: 200011

Indiana Certification #: C-MN-01

Iowa Certification #: 368

Kansas Certification #: E-10167

Kentucky DW Certification #: 90062

Kentucky WW Certification #: 90062

Louisiana DEQ Certification #: 03086

Louisiana DW Certification #: MN00064

Maine Certification #: MN00064

Maryland Certification #: 322

Massachusetts Certification #: M-MN064

Michigan Certification #: 9909

Minnesota Certification #: 027-053-137

Mississippi Certification #: MN00064

Montana Certification #: CERT0092

Nebraska Certification #: NE-OS-18-06

Nevada Certification #: MN00064

New Hampshire Certification #: 2081

New Jersey Certification #: MN002

New York Certification #: 11647

North Carolina DW Certification #: 27700

North Carolina WW Certification #: 530

North Dakota Certification #: R-036

Ohio DW Certification #: 41244

Ohio VAP Certification #: CL101

Oklahoma Certification #: 9507

Oregon NwTPH Certification #: MN300001

Oregon Secondary Certification #: MN200001

Pennsylvania Certification #: 68-00563

Puerto Rico Certification #: MN00064

South Carolina Certification #: 74003001

Tennessee Certification #: TN02818

Texas Certification #: T104704192

Utah Certification #: MN00064

Virginia Certification #: 460163

Washington Certification #: C486

West Virginia DW Certification #: 9952 C

West Virginia DEP Certification #: 382

Wisconsin Certification #: 999407970

Wyoming via EPA Region 8 Certification #: 8TMS-L

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SAMPLE SUMMARY

Project: 34283.000 NPI

Pace Project No.: 40155900

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40155900001	CW-11	Water	08/29/17 09:00	08/30/17 10:00
40155900002	CW-15	Water	08/29/17 09:10	08/30/17 10:00
40155900003	CW-16	Water	08/29/17 08:50	08/30/17 10:00
40155900004	CW-17	Water	08/29/17 08:52	08/30/17 10:00
40155900005	CW-19	Water	08/29/17 09:15	08/30/17 10:00
40155900006	CW-22	Water	08/29/17 09:28	08/30/17 10:00
40155900007	CW-23	Water	08/29/17 09:20	08/30/17 10:00
40155900008	RAW	Water	08/29/17 08:42	08/30/17 10:00
40155900009	TOWER A	Water	08/29/17 08:40	08/30/17 10:00
40155900010	TOWER B	Water	08/29/17 08:44	08/30/17 10:00
40155900011	FINISHED PRODUCT	Water	08/29/17 08:35	08/30/17 10:00

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SAMPLE ANALYTE COUNT

Project: 34283.000 NPI

Pace Project No.: 40155900

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
40155900001	CW-11	EPA 524.2	DJB	8	PASI-M
40155900002	CW-15	EPA 524.2	DJB	8	PASI-M
40155900003	CW-16	EPA 524.2	DJB	8	PASI-M
40155900004	CW-17	EPA 524.2	DJB	8	PASI-M
40155900005	CW-19	EPA 524.2	DJB	8	PASI-M
40155900006	CW-22	EPA 524.2	DJB	8	PASI-M
40155900007	CW-23	EPA 524.2	DJB	8	PASI-M
40155900008	RAW	EPA 524.2	DJB	8	PASI-M
40155900009	TOWER A	EPA 524.2	DJB	8	PASI-M
40155900010	TOWER B	EPA 524.2	DJB	8	PASI-M
40155900011	FINISHED PRODUCT	EPA 524.2	DJB	8	PASI-M

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SUMMARY OF DETECTION

Project: 34283.000 NPI

Pace Project No.: 40155900

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
40155900002	CW-15					
EPA 524.2	Trichloroethene	0.078J	ug/L	0.40	09/07/17 23:36	
40155900005	CW-19					
EPA 524.2	Trichloroethene	0.82	ug/L	0.40	09/08/17 01:04	
40155900006	CW-22					
EPA 524.2	1,1,1-Trichloroethane	0.26J	ug/L	0.50	09/08/17 01:26	
EPA 524.2	Trichloroethene	2.2	ug/L	0.40	09/08/17 01:26	
40155900008	RAW					
EPA 524.2	Trichloroethene	1.0	ug/L	0.40	09/08/17 02:10	

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PROJECT NARRATIVE

Project: 34283.000 NPI
Pace Project No.: 40155900

Method: EPA 524.2
Description: 524.2 MSV
Client: Gannett Fleming Inc.
Date: September 11, 2017

General Information:

11 samples were analyzed for EPA 524.2. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

Internal Standards:

All internal standards were within QC limits with any exceptions noted below.

Surrogates:

All surrogates were within QC limits with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: 495329

A matrix spike/matrix spike duplicate was not performed due to insufficient sample volume.

Duplicate Sample:

All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 34283.000 NPI

Pace Project No.: 40155900

Sample: CW-11 **Lab ID:** 40155900001 Collected: 08/29/17 09:00 Received: 08/30/17 10:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
524.2 MSV		Analytical Method: EPA 524.2							
1,1-Dichloroethane	<0.088	ug/L	0.50	0.088	1		09/07/17 23:14	75-34-3	
1,1-Dichloroethene	<0.089	ug/L	0.50	0.089	1		09/07/17 23:14	75-35-4	
Tetrachloroethene	<0.12	ug/L	0.50	0.12	1		09/07/17 23:14	127-18-4	
1,1,1-Trichloroethane	<0.10	ug/L	0.50	0.10	1		09/07/17 23:14	71-55-6	
Trichloroethene	<0.044	ug/L	0.40	0.044	1		09/07/17 23:14	79-01-6	
Surrogates									
4-Bromofluorobenzene (S)	103	%	75-125		1		09/07/17 23:14	460-00-4	
Toluene-d8 (S)	101	%	75-125		1		09/07/17 23:14	2037-26-5	
1,2-Dichloroethane-d4 (S)	96	%	75-125		1		09/07/17 23:14	17060-07-0	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 34283.000 NPI

Pace Project No.: 40155900

Sample: CW-15 **Lab ID: 40155900002** Collected: 08/29/17 09:10 Received: 08/30/17 10:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
524.2 MSV		Analytical Method: EPA 524.2							
1,1-Dichloroethane	<0.088	ug/L	0.50	0.088	1		09/07/17 23:36	75-34-3	
1,1-Dichloroethene	<0.089	ug/L	0.50	0.089	1		09/07/17 23:36	75-35-4	
Tetrachloroethene	<0.12	ug/L	0.50	0.12	1		09/07/17 23:36	127-18-4	
1,1,1-Trichloroethane	<0.10	ug/L	0.50	0.10	1		09/07/17 23:36	71-55-6	
Trichloroethene	0.078J	ug/L	0.40	0.044	1		09/07/17 23:36	79-01-6	
Surrogates									
4-Bromofluorobenzene (S)	103	%	75-125		1		09/07/17 23:36	460-00-4	
Toluene-d8 (S)	101	%	75-125		1		09/07/17 23:36	2037-26-5	
1,2-Dichloroethane-d4 (S)	96	%	75-125		1		09/07/17 23:36	17060-07-0	

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ANALYTICAL RESULTS

Project: 34283.000 NPI

Pace Project No.: 40155900

Sample: CW-16 **Lab ID: 40155900003** Collected: 08/29/17 08:50 Received: 08/30/17 10:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
524.2 MSV		Analytical Method: EPA 524.2							
1,1-Dichloroethane	<0.088	ug/L	0.50	0.088	1		09/08/17 00:20	75-34-3	
1,1-Dichloroethene	<0.089	ug/L	0.50	0.089	1		09/08/17 00:20	75-35-4	
Tetrachloroethene	<0.12	ug/L	0.50	0.12	1		09/08/17 00:20	127-18-4	
1,1,1-Trichloroethane	<0.10	ug/L	0.50	0.10	1		09/08/17 00:20	71-55-6	
Trichloroethene	<0.044	ug/L	0.40	0.044	1		09/08/17 00:20	79-01-6	
Surrogates									
4-Bromofluorobenzene (S)	103	%	75-125		1		09/08/17 00:20	460-00-4	
Toluene-d8 (S)	101	%	75-125		1		09/08/17 00:20	2037-26-5	
1,2-Dichloroethane-d4 (S)	95	%	75-125		1		09/08/17 00:20	17060-07-0	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 34283.000 NPI

Pace Project No.: 40155900

Sample: CW-17 **Lab ID: 40155900004** Collected: 08/29/17 08:52 Received: 08/30/17 10:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
524.2 MSV		Analytical Method: EPA 524.2							
1,1-Dichloroethane	<0.088	ug/L	0.50	0.088	1		09/08/17 00:42	75-34-3	
1,1-Dichloroethene	<0.089	ug/L	0.50	0.089	1		09/08/17 00:42	75-35-4	
Tetrachloroethene	<0.12	ug/L	0.50	0.12	1		09/08/17 00:42	127-18-4	
1,1,1-Trichloroethane	<0.10	ug/L	0.50	0.10	1		09/08/17 00:42	71-55-6	
Trichloroethene	<0.044	ug/L	0.40	0.044	1		09/08/17 00:42	79-01-6	
Surrogates									
4-Bromofluorobenzene (S)	103	%	75-125		1		09/08/17 00:42	460-00-4	
Toluene-d8 (S)	101	%	75-125		1		09/08/17 00:42	2037-26-5	
1,2-Dichloroethane-d4 (S)	98	%	75-125		1		09/08/17 00:42	17060-07-0	

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ANALYTICAL RESULTS

Project: 34283.000 NPI

Pace Project No.: 40155900

Sample: CW-19 **Lab ID: 40155900005** Collected: 08/29/17 09:15 Received: 08/30/17 10:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
524.2 MSV		Analytical Method: EPA 524.2							
1,1-Dichloroethane	<0.088	ug/L	0.50	0.088	1		09/08/17 01:04	75-34-3	
1,1-Dichloroethene	<0.089	ug/L	0.50	0.089	1		09/08/17 01:04	75-35-4	
Tetrachloroethene	<0.12	ug/L	0.50	0.12	1		09/08/17 01:04	127-18-4	
1,1,1-Trichloroethane	<0.10	ug/L	0.50	0.10	1		09/08/17 01:04	71-55-6	
Trichloroethene	0.82	ug/L	0.40	0.044	1		09/08/17 01:04	79-01-6	
Surrogates									
4-Bromofluorobenzene (S)	104	%	75-125		1		09/08/17 01:04	460-00-4	
Toluene-d8 (S)	101	%	75-125		1		09/08/17 01:04	2037-26-5	
1,2-Dichloroethane-d4 (S)	97	%	75-125		1		09/08/17 01:04	17060-07-0	

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ANALYTICAL RESULTS

Project: 34283.000 NPI

Pace Project No.: 40155900

Sample: CW-22 **Lab ID: 40155900006** Collected: 08/29/17 09:28 Received: 08/30/17 10:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
524.2 MSV		Analytical Method: EPA 524.2							
1,1-Dichloroethane	<0.088	ug/L	0.50	0.088	1		09/08/17 01:26	75-34-3	
1,1-Dichloroethene	<0.089	ug/L	0.50	0.089	1		09/08/17 01:26	75-35-4	
Tetrachloroethene	<0.12	ug/L	0.50	0.12	1		09/08/17 01:26	127-18-4	
1,1,1-Trichloroethane	0.26J	ug/L	0.50	0.10	1		09/08/17 01:26	71-55-6	
Trichloroethene	2.2	ug/L	0.40	0.044	1		09/08/17 01:26	79-01-6	
Surrogates									
4-Bromofluorobenzene (S)	104	%	75-125		1		09/08/17 01:26	460-00-4	
Toluene-d8 (S)	103	%	75-125		1		09/08/17 01:26	2037-26-5	
1,2-Dichloroethane-d4 (S)	99	%	75-125		1		09/08/17 01:26	17060-07-0	

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ANALYTICAL RESULTS

Project: 34283.000 NPI

Pace Project No.: 40155900

Sample: CW-23 **Lab ID: 40155900007** Collected: 08/29/17 09:20 Received: 08/30/17 10:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
524.2 MSV		Analytical Method: EPA 524.2							
1,1-Dichloroethane	<0.088	ug/L	0.50	0.088	1		09/08/17 01:48	75-34-3	
1,1-Dichloroethene	<0.089	ug/L	0.50	0.089	1		09/08/17 01:48	75-35-4	
Tetrachloroethene	<0.12	ug/L	0.50	0.12	1		09/08/17 01:48	127-18-4	
1,1,1-Trichloroethane	<0.10	ug/L	0.50	0.10	1		09/08/17 01:48	71-55-6	
Trichloroethene	<0.044	ug/L	0.40	0.044	1		09/08/17 01:48	79-01-6	
Surrogates									
4-Bromofluorobenzene (S)	104	%	75-125		1		09/08/17 01:48	460-00-4	
Toluene-d8 (S)	101	%	75-125		1		09/08/17 01:48	2037-26-5	
1,2-Dichloroethane-d4 (S)	97	%	75-125		1		09/08/17 01:48	17060-07-0	

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ANALYTICAL RESULTS

Project: 34283.000 NPI

Pace Project No.: 40155900

Sample: RAW **Lab ID: 40155900008** Collected: 08/29/17 08:42 Received: 08/30/17 10:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
524.2 MSV		Analytical Method: EPA 524.2							
1,1-Dichloroethane	<0.088	ug/L	0.50	0.088	1		09/08/17 02:10	75-34-3	
1,1-Dichloroethene	<0.089	ug/L	0.50	0.089	1		09/08/17 02:10	75-35-4	
Tetrachloroethene	<0.12	ug/L	0.50	0.12	1		09/08/17 02:10	127-18-4	
1,1,1-Trichloroethane	<0.10	ug/L	0.50	0.10	1		09/08/17 02:10	71-55-6	
Trichloroethene	1.0	ug/L	0.40	0.044	1		09/08/17 02:10	79-01-6	
Surrogates									
4-Bromofluorobenzene (S)	103	%	75-125		1		09/08/17 02:10	460-00-4	
Toluene-d8 (S)	101	%	75-125		1		09/08/17 02:10	2037-26-5	
1,2-Dichloroethane-d4 (S)	99	%	75-125		1		09/08/17 02:10	17060-07-0	

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ANALYTICAL RESULTS

Project: 34283.000 NPI

Pace Project No.: 40155900

Sample: TOWER A **Lab ID: 40155900009** Collected: 08/29/17 08:40 Received: 08/30/17 10:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
524.2 MSV		Analytical Method: EPA 524.2							
1,1-Dichloroethane	<0.088	ug/L	0.50	0.088	1		09/08/17 02:33	75-34-3	
1,1-Dichloroethene	<0.089	ug/L	0.50	0.089	1		09/08/17 02:33	75-35-4	
Tetrachloroethene	<0.12	ug/L	0.50	0.12	1		09/08/17 02:33	127-18-4	
1,1,1-Trichloroethane	<0.10	ug/L	0.50	0.10	1		09/08/17 02:33	71-55-6	
Trichloroethene	<0.044	ug/L	0.40	0.044	1		09/08/17 02:33	79-01-6	
Surrogates									
4-Bromofluorobenzene (S)	103	%	75-125		1		09/08/17 02:33	460-00-4	
Toluene-d8 (S)	102	%	75-125		1		09/08/17 02:33	2037-26-5	
1,2-Dichloroethane-d4 (S)	97	%	75-125		1		09/08/17 02:33	17060-07-0	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 34283.000 NPI

Pace Project No.: 40155900

Sample: TOWER B **Lab ID: 40155900010** Collected: 08/29/17 08:44 Received: 08/30/17 10:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
524.2 MSV		Analytical Method: EPA 524.2							
1,1-Dichloroethane	<0.088	ug/L	0.50	0.088	1		09/08/17 02:55	75-34-3	
1,1-Dichloroethene	<0.089	ug/L	0.50	0.089	1		09/08/17 02:55	75-35-4	
Tetrachloroethene	<0.12	ug/L	0.50	0.12	1		09/08/17 02:55	127-18-4	
1,1,1-Trichloroethane	<0.10	ug/L	0.50	0.10	1		09/08/17 02:55	71-55-6	
Trichloroethene	<0.044	ug/L	0.40	0.044	1		09/08/17 02:55	79-01-6	
Surrogates									
4-Bromofluorobenzene (S)	103	%	75-125		1		09/08/17 02:55	460-00-4	
Toluene-d8 (S)	102	%	75-125		1		09/08/17 02:55	2037-26-5	
1,2-Dichloroethane-d4 (S)	99	%	75-125		1		09/08/17 02:55	17060-07-0	

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ANALYTICAL RESULTS

Project: 34283.000 NPI

Pace Project No.: 40155900

Sample: FINISHED PRODUCT **Lab ID: 40155900011** Collected: 08/29/17 08:35 Received: 08/30/17 10:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
524.2 MSV		Analytical Method: EPA 524.2							
1,1-Dichloroethane	<0.088	ug/L	0.50	0.088	1		09/08/17 03:17	75-34-3	
1,1-Dichloroethene	<0.089	ug/L	0.50	0.089	1		09/08/17 03:17	75-35-4	
Tetrachloroethene	<0.12	ug/L	0.50	0.12	1		09/08/17 03:17	127-18-4	
1,1,1-Trichloroethane	<0.10	ug/L	0.50	0.10	1		09/08/17 03:17	71-55-6	
Trichloroethene	<0.044	ug/L	0.40	0.044	1		09/08/17 03:17	79-01-6	
Surrogates									
4-Bromofluorobenzene (S)	103	%	75-125		1		09/08/17 03:17	460-00-4	
Toluene-d8 (S)	102	%	75-125		1		09/08/17 03:17	2037-26-5	
1,2-Dichloroethane-d4 (S)	99	%	75-125		1		09/08/17 03:17	17060-07-0	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 34283.000 NPI
Pace Project No.: 40155900

QC Batch:	495329	Analysis Method:	EPA 524.2
QC Batch Method:	EPA 524.2	Analysis Description:	524.2 MSV
Associated Lab Samples:	40155900001, 40155900002, 40155900003, 40155900004, 40155900005, 40155900006, 40155900007, 40155900008, 40155900009, 40155900010, 40155900011		

METHOD BLANK: 2693873 Matrix: Water
Associated Lab Samples: 40155900001, 40155900002, 40155900003, 40155900004, 40155900005, 40155900006, 40155900007, 40155900008, 40155900009, 40155900010, 40155900011

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	<0.10	0.50	09/07/17 22:52	
1,1-Dichloroethane	ug/L	<0.088	0.50	09/07/17 22:52	
1,1-Dichloroethene	ug/L	<0.089	0.50	09/07/17 22:52	
Tetrachloroethene	ug/L	<0.12	0.50	09/07/17 22:52	
Trichloroethene	ug/L	<0.044	0.40	09/07/17 22:52	
1,2-Dichloroethane-d4 (S)	%	96	75-125	09/07/17 22:52	
4-Bromofluorobenzene (S)	%	102	75-125	09/07/17 22:52	
Toluene-d8 (S)	%	101	75-125	09/07/17 22:52	

LABORATORY CONTROL SAMPLE & LCSD: 2693874 2693875

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
1,1,1-Trichloroethane	ug/L	20	20.4	19.4	102	97	70-130	5	20	
1,1-Dichloroethane	ug/L	20	18.5	18.3	92	92	70-130	1	20	
1,1-Dichloroethene	ug/L	20	18.4	18.2	92	91	70-130	1	20	
Tetrachloroethene	ug/L	20	21.3	20.4	107	102	70-130	5	20	
Trichloroethene	ug/L	20	20.0	19.2	100	96	70-130	4	20	
1,2-Dichloroethane-d4 (S)	%				91	90	75-125			
4-Bromofluorobenzene (S)	%				100	101	75-125			
Toluene-d8 (S)	%				100	101	75-125			

MATRIX SPIKE SAMPLE: 2693876

Parameter	Units	40155900001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	<0.10	20	20.4	102	70-130	
1,1-Dichloroethane	ug/L	<0.088	20	18.3	91	70-130	
1,1-Dichloroethene	ug/L	<0.089	20	19.3	96	70-130	
Tetrachloroethene	ug/L	<0.12	20	20.6	103	70-130	
Trichloroethene	ug/L	<0.044	20	19.4	97	70-130	
1,2-Dichloroethane-d4 (S)	%				92	75-125	
4-Bromofluorobenzene (S)	%				101	75-125	
Toluene-d8 (S)	%				101	75-125	

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.

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QUALITY CONTROL DATA

Project: 34283.000 NPI

Pace Project No.: 40155900

SAMPLE DUPLICATE: 2693877

Parameter	Units	40155900002 Result	Dup Result	RPD	Max RPD	Qualifiers
1,1,1-Trichloroethane	ug/L	<0.10	<0.10		20	
1,1-Dichloroethane	ug/L	<0.088	<0.088		20	
1,1-Dichloroethene	ug/L	<0.089	<0.089		20	
Tetrachloroethene	ug/L	<0.12	<0.12		20	
Trichloroethene	ug/L	0.078J	0.098J		20	
1,2-Dichloroethane-d4 (S)	%.	96	97	0		
4-Bromofluorobenzene (S)	%.	103	103	0		
Toluene-d8 (S)	%.	101	101	0		

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: 34283.000 NPI
Pace Project No.: 40155900

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.

LABORATORIES

PASI-M Pace Analytical Services - Minneapolis

BATCH QUALIFIERS

Batch: 495329

[M5] A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 34283.000 NPI

Pace Project No.: 40155900

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40155900001	CW-11	EPA 524.2	495329		
40155900002	CW-15	EPA 524.2	495329		
40155900003	CW-16	EPA 524.2	495329		
40155900004	CW-17	EPA 524.2	495329		
40155900005	CW-19	EPA 524.2	495329		
40155900006	CW-22	EPA 524.2	495329		
40155900007	CW-23	EPA 524.2	495329		
40155900008	RAW	EPA 524.2	495329		
40155900009	TOWER A	EPA 524.2	495329		
40155900010	TOWER B	EPA 524.2	495329		
40155900011	FINISHED PRODUCT	EPA 524.2	495329		

REPORT OF LABORATORY ANALYSIS

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(Please Print Clearly)

Company Name: Gannett Fleming
 Branch/Location: Madison, WI
 Project Contact: Cliff Wright
 Phone: 608-836-1500
 Project Number: 34283.000
 Project Name: NPI
 Project State: WI
 Sampled By (Print): Chelsea Payne
 Sampled By (Sign): Chelsea Payne
 PO #: _____ Regulatory Program: _____



UPPER MIDWEST REGION
 MN: 612-607-1700 WI: 920-469-2436

40155900

CHAIN OF CUSTODY

***Preservation Codes**
 A=None B=HCL C=H2SO4 D=HNO3 E=DI Water F=Methanol G=NaOH
 H=Sodium Bisulfate Solution I=Sodium Thiosulfate J=Other

FILTERED? (YES/NO)
 PRESERVATION (CODE)*

Y/N	Pick Letter	Analysis Requested	COLLECTION		MATRIX
			DATE	TIME	
N	B	524 Drinking water Standard	8-29-17	11:00	GW
				9:10	
				8:50	
				8:52	
				9:15	
				9:28	
				9:20	
				8:42	
				8:40	
				8:44	
				8:35	
			8-28		

Quote #: _____
 Mail To Contact: Cliff Wright
 Mail To Company: Gannett Fleming
 Mail To Address: 8025 Excelsior Rd
Madison, WI 53717
 Invoice To Contact: _____
 Invoice To Company: See mail to
 Invoice To Address: _____
 Invoice To Phone: 608-836-1500
 CLIENT COMMENTS: _____
 LAB COMMENTS (Lab Use Only): _____
 Profile #: _____

Data Package Options (billable)
 EPA Level III
 EPA Level IV

MS/MSD
 On your sample (billable)
 NOT needed on your sample

Matrix Codes
 A = Air W = Water
 B = Biota DW = Drinking Water
 C = Charcoal GW = Ground Water
 O = Oil SW = Surface Water
 S = Soil WW = Waste Water
 SI = Sludge WP = Wipe

PACE LAB #	CLIENT FIELD ID	COLLECTION		MATRIX
		DATE	TIME	
001	CW-11	8-29-17	11:00	GW
002	CW-15		9:10	
003	CW-16		8:50	
004	CW-17		8:52	
005	CW-19		9:15	
006	CW-22		9:28	
007	CW-23		9:20	
008	Raw		8:42	
009	Tower A		8:40	
010	Tower B		8:44	
011	Finished Product		8:35	
	Trip Blank	8-28		

Rush Turnaround Time Requested - Prelims (Rush TAT subject to approval/surcharge)
 Date Needed: _____

Transmit Prelim Rush Results by (complete what you want): _____

Relinquished By: <u>Chelsea Payne</u> Date/Time: <u>8-29-17 15:00</u>	Received By: _____ Date/Time: _____	PACE Project No. <u>40155900</u> Receipt Temp = <u>100</u> °C Sample Receipt pH <u>OR Adjusted</u> Cobler Custody Seal Present / Not Present Intact / Not Intact
Relinquished By: <u>CS Logistics</u> Date/Time: <u>8/30/17 1000</u>	Received By: <u>SW Surface</u> Date/Time: <u>8/30/17 1700</u>	
Relinquished By: _____ Date/Time: _____	Received By: _____ Date/Time: _____	
Relinquished By: _____ Date/Time: _____	Received By: _____ Date/Time: _____	

Samples on HOLD are subject to special pricing and release of liability



Sample Condition Upon Receipt

Pace Analytical Services, LLC. - Green Bay WI
1241 Bellevue Street, Suite 9
Green Bay, WI 54302

Client Name: Gannett Fleming

Project #: WO#: 40155900

Courier: Fed Ex UPS Client Pace Other:
Tracking #: 8115 9775 9934



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: 201 /Corr: Biological Tissue is Frozen: yes

Temp Blank Present: yes no

Person examining contents:
Date: 8/30/17
Initials: [Signature]

Temp should be above freezing to 6°C.
Biota Samples may be received at ≤ 0°C.

Comments:

Table with 15 rows of inspection items and checkboxes. Includes items like Chain of Custody Present, Short Hold Time Analysis, Rush Turn Around Time Requested, etc.

Client Notification/ Resolution:
Person Contacted: Date/Time:
Comments/ Resolution:

Project Manager Review: RMR for DM Date: 8/30/17

December 21, 2017

Clifford Wright
Gannett Fleming
8025 Excelsior Drive
Madison, WI 53717

Project #34283.000
NPI Q4 GW
Reviewed by CCW
12/22/17

RE: Project: 34283.000 NPI
Pace Project No.: 40162407

Dear Clifford Wright:

Enclosed are the analytical results for sample(s) received by the laboratory on December 14, 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

cc: Mary C. Wehbe, MCW Scientific Solutions



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: 34283.000 NPI

Pace Project No.: 40162407

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

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SAMPLE SUMMARY

Project: 34283.000 NPI

Pace Project No.: 40162407

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40162407001	EW-1R-H	Water	12/12/17 12:50	12/14/17 09:50
40162407002	EW-1R-M	Water	12/12/17 12:52	12/14/17 09:50
40162407003	EW-1R-M DUP	Water	12/12/17 12:52	12/14/17 09:50
40162407004	EW-1R-L	Water	12/12/17 12:55	12/14/17 09:50
40162407005	EW-2 H	Water	12/12/17 13:00	12/14/17 09:50
40162407006	EW-2 L	Water	12/12/17 13:05	12/14/17 09:50
40162407007	MW-5A	Water	12/12/17 13:15	12/14/17 09:50
40162407008	MW-5B	Water	12/12/17 13:05	12/14/17 09:50
40162407009	MW-4A	Water	12/12/17 16:00	12/14/17 09:50
40162407010	MW-4A DUP	Water	12/12/17 16:00	12/14/17 09:50
40162407011	MW-4B	Water	12/12/17 16:05	12/14/17 09:50
40162407012	MW-62 AR	Water	12/12/17 12:40	12/14/17 09:50
40162407013	MW-62 B	Water	12/12/17 12:30	12/14/17 09:50
40162407014	MW-66 A	Water	12/12/17 12:05	12/14/17 09:50
40162407015	MW-66 B	Water	12/12/17 11:55	12/14/17 09:50
40162407016	MW-66 C	Water	12/12/17 12:10	12/14/17 09:50
40162407017	MW-70 A	Water	12/12/17 14:35	12/14/17 09:50
40162407018	MW-70 A DUP	Water	12/12/17 14:35	12/14/17 09:50
40162407019	MW-70 B	Water	12/12/17 14:40	12/14/17 09:50
40162407020	MW-75	Water	12/12/17 15:25	12/14/17 09:50
40162407021	MW-34 A	Water	12/12/17 15:00	12/14/17 09:50
40162407022	MW-34 B	Water	12/12/17 14:55	12/14/17 09:50
40162407023	MW-34 C	Water	12/12/17 15:05	12/14/17 09:50
40162407024	MW-10 A	Water	12/12/17 14:20	12/14/17 09:50
40162407025	MW-10 B	Water	12/12/17 14:30	12/14/17 09:50
40162407026	MH-18	Water	12/12/17 15:30	12/14/17 09:50
40162407027	TRIP BLANK	Water	12/12/17 00:00	12/14/17 09:50

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SAMPLE ANALYTE COUNT

Project: 34283.000 NPI

Pace Project No.: 40162407

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
40162407001	EW-1R-H	EPA 8260	LAP	8	PASI-G
40162407002	EW-1R-M	EPA 8260	LAP	8	PASI-G
40162407003	EW-1R-M DUP	EPA 8260	LAP	8	PASI-G
40162407004	EW-1R-L	EPA 8260	LAP	8	PASI-G
40162407005	EW-2 H	EPA 8260	LAP	8	PASI-G
40162407006	EW-2 L	EPA 8260	LAP	8	PASI-G
40162407007	MW-5A	EPA 8260	LAP	8	PASI-G
40162407008	MW-5B	EPA 8260	HNW	8	PASI-G
40162407009	MW-4A	EPA 8260	HNW	8	PASI-G
40162407010	MW-4A DUP	EPA 8260	HNW	8	PASI-G
40162407011	MW-4B	EPA 8260	HNW	8	PASI-G
40162407012	MW-62 AR	EPA 8260	LAP	8	PASI-G
40162407013	MW-62 B	EPA 8260	HNW	8	PASI-G
40162407014	MW-66 A	EPA 8260	HNW	8	PASI-G
40162407015	MW-66 B	EPA 8260	HNW	8	PASI-G
40162407016	MW-66 C	EPA 8260	HNW	8	PASI-G
40162407017	MW-70 A	EPA 8260	HNW	8	PASI-G
40162407018	MW-70 A DUP	EPA 8260	HNW	8	PASI-G
40162407019	MW-70 B	EPA 6010	JLD	1	PASI-G
		EPA 8260	HNW	8	PASI-G
40162407020	MW-75	EPA 6010	JLD	1	PASI-G
40162407021	MW-34 A	EPA 6010	JLD	1	PASI-G
		EPA 8260	HNW	8	PASI-G
40162407022	MW-34 B	EPA 6010	JLD	1	PASI-G
		EPA 8260	LAP	8	PASI-G
40162407023	MW-34 C	EPA 8260	HNW	8	PASI-G
40162407024	MW-10 A	EPA 6010	JLD	1	PASI-G
40162407025	MW-10 B	EPA 6010	JLD	1	PASI-G
40162407026	MH-18	EPA 6010	JLD	1	PASI-G
		EPA 8260	LAP	8	PASI-G
40162407027	TRIP BLANK	EPA 8260	HNW	8	PASI-G

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: 34283.000 NPI
Pace Project No.: 40162407

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
40162407011	MW-4B					
EPA 8260	Trichloroethene	0.38J	ug/L	1.0	12/15/17 14:37	
40162407017	MW-70 A					
EPA 8260	1,1-Dichloroethane	0.27J	ug/L	1.0	12/15/17 16:27	
EPA 8260	Trichloroethene	0.51J	ug/L	1.0	12/15/17 16:27	
40162407018	MW-70 A DUP					
EPA 8260	1,1-Dichloroethane	0.35J	ug/L	1.0	12/15/17 13:32	
EPA 8260	Trichloroethene	0.47J	ug/L	1.0	12/15/17 13:32	
40162407019	MW-70 B					
EPA 6010	Cadmium, Dissolved	2.4J	ug/L	5.0	12/15/17 18:45	
40162407022	MW-34 B					
EPA 6010	Cadmium, Dissolved	1.4J	ug/L	5.0	12/15/17 19:02	
40162407024	MW-10 A					
EPA 6010	Cadmium, Dissolved	18.8	ug/L	5.0	12/15/17 19:04	
40162407026	MH-18					
EPA 8260	1,1,1-Trichloroethane	0.61J	ug/L	1.0	12/20/17 15:31	
EPA 8260	Trichloroethene	0.51J	ug/L	1.0	12/20/17 15:31	

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: 34283.000 NPI
Pace Project No.: 40162407

Method: EPA 6010
Description: 6010 MET ICP, Dissolved
Client: Gannett Fleming Inc.
Date: December 21, 2017

General Information:

7 samples were analyzed for EPA 6010. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: 34283.000 NPI
Pace Project No.: 40162407

Method: EPA 8260
Description: 8260 MSV
Client: Gannett Fleming Inc.
Date: December 21, 2017

General Information:

24 samples were analyzed for EPA 8260. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

Internal Standards:

All internal standards were within QC limits with any exceptions noted below.

Surrogates:

All surrogates were within QC limits with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.

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ANALYTICAL RESULTS

Project: 34283.000 NPI

Pace Project No.: 40162407

Sample: EW-1R-H **Lab ID: 40162407001** Collected: 12/12/17 12:50 Received: 12/14/17 09:50 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260							
1,1,1-Trichloroethane	<0.50	ug/L	1.0	0.50	1		12/18/17 18:38	71-55-6	
1,1-Dichloroethane	<0.24	ug/L	1.0	0.24	1		12/18/17 18:38	75-34-3	
1,1-Dichloroethene	<0.41	ug/L	1.0	0.41	1		12/18/17 18:38	75-35-4	
Tetrachloroethene	<0.50	ug/L	1.0	0.50	1		12/18/17 18:38	127-18-4	
Trichloroethene	<0.33	ug/L	1.0	0.33	1		12/18/17 18:38	79-01-6	
Surrogates									
4-Bromofluorobenzene (S)	80	%	61-130		1		12/18/17 18:38	460-00-4	
Dibromofluoromethane (S)	108	%	67-130		1		12/18/17 18:38	1868-53-7	
Toluene-d8 (S)	102	%	70-130		1		12/18/17 18:38	2037-26-5	

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ANALYTICAL RESULTS

Project: 34283.000 NPI

Pace Project No.: 40162407

Sample: EW-1R-M **Lab ID: 40162407002** Collected: 12/12/17 12:52 Received: 12/14/17 09:50 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260							
1,1,1-Trichloroethane	<0.50	ug/L	1.0	0.50	1		12/18/17 19:00	71-55-6	
1,1-Dichloroethane	<0.24	ug/L	1.0	0.24	1		12/18/17 19:00	75-34-3	
1,1-Dichloroethene	<0.41	ug/L	1.0	0.41	1		12/18/17 19:00	75-35-4	
Tetrachloroethene	<0.50	ug/L	1.0	0.50	1		12/18/17 19:00	127-18-4	
Trichloroethene	<0.33	ug/L	1.0	0.33	1		12/18/17 19:00	79-01-6	
Surrogates									
4-Bromofluorobenzene (S)	86	%	61-130		1		12/18/17 19:00	460-00-4	
Dibromofluoromethane (S)	107	%	67-130		1		12/18/17 19:00	1868-53-7	
Toluene-d8 (S)	103	%	70-130		1		12/18/17 19:00	2037-26-5	

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ANALYTICAL RESULTS

Project: 34283.000 NPI

Pace Project No.: 40162407

Sample: EW-1R-M DUP **Lab ID: 40162407003** Collected: 12/12/17 12:52 Received: 12/14/17 09:50 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260							
1,1,1-Trichloroethane	<0.50	ug/L	1.0	0.50	1		12/18/17 19:22	71-55-6	
1,1-Dichloroethane	<0.24	ug/L	1.0	0.24	1		12/18/17 19:22	75-34-3	
1,1-Dichloroethene	<0.41	ug/L	1.0	0.41	1		12/18/17 19:22	75-35-4	
Tetrachloroethene	<0.50	ug/L	1.0	0.50	1		12/18/17 19:22	127-18-4	
Trichloroethene	<0.33	ug/L	1.0	0.33	1		12/18/17 19:22	79-01-6	
Surrogates									
4-Bromofluorobenzene (S)	86	%	61-130		1		12/18/17 19:22	460-00-4	
Dibromofluoromethane (S)	112	%	67-130		1		12/18/17 19:22	1868-53-7	
Toluene-d8 (S)	106	%	70-130		1		12/18/17 19:22	2037-26-5	

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ANALYTICAL RESULTS

Project: 34283.000 NPI

Pace Project No.: 40162407

Sample: EW-1R-L **Lab ID: 40162407004** Collected: 12/12/17 12:55 Received: 12/14/17 09:50 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260							
1,1,1-Trichloroethane	<0.50	ug/L	1.0	0.50	1		12/18/17 19:44	71-55-6	
1,1-Dichloroethane	<0.24	ug/L	1.0	0.24	1		12/18/17 19:44	75-34-3	
1,1-Dichloroethene	<0.41	ug/L	1.0	0.41	1		12/18/17 19:44	75-35-4	
Tetrachloroethene	<0.50	ug/L	1.0	0.50	1		12/18/17 19:44	127-18-4	
Trichloroethene	<0.33	ug/L	1.0	0.33	1		12/18/17 19:44	79-01-6	
Surrogates									
4-Bromofluorobenzene (S)	80	%	61-130		1		12/18/17 19:44	460-00-4	
Dibromofluoromethane (S)	111	%	67-130		1		12/18/17 19:44	1868-53-7	
Toluene-d8 (S)	105	%	70-130		1		12/18/17 19:44	2037-26-5	

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ANALYTICAL RESULTS

Project: 34283.000 NPI

Pace Project No.: 40162407

Sample: EW-2 H **Lab ID: 40162407005** Collected: 12/12/17 13:00 Received: 12/14/17 09:50 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260							
1,1,1-Trichloroethane	<0.50	ug/L	1.0	0.50	1		12/18/17 20:06	71-55-6	
1,1-Dichloroethane	<0.24	ug/L	1.0	0.24	1		12/18/17 20:06	75-34-3	
1,1-Dichloroethene	<0.41	ug/L	1.0	0.41	1		12/18/17 20:06	75-35-4	
Tetrachloroethene	<0.50	ug/L	1.0	0.50	1		12/18/17 20:06	127-18-4	
Trichloroethene	<0.33	ug/L	1.0	0.33	1		12/18/17 20:06	79-01-6	
Surrogates									
4-Bromofluorobenzene (S)	88	%	61-130		1		12/18/17 20:06	460-00-4	
Dibromofluoromethane (S)	113	%	67-130		1		12/18/17 20:06	1868-53-7	
Toluene-d8 (S)	103	%	70-130		1		12/18/17 20:06	2037-26-5	

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ANALYTICAL RESULTS

Project: 34283.000 NPI

Pace Project No.: 40162407

Sample: EW-2 L **Lab ID: 40162407006** Collected: 12/12/17 13:05 Received: 12/14/17 09:50 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260							
1,1,1-Trichloroethane	<0.50	ug/L	1.0	0.50	1		12/18/17 20:28	71-55-6	
1,1-Dichloroethane	<0.24	ug/L	1.0	0.24	1		12/18/17 20:28	75-34-3	
1,1-Dichloroethene	<0.41	ug/L	1.0	0.41	1		12/18/17 20:28	75-35-4	
Tetrachloroethene	<0.50	ug/L	1.0	0.50	1		12/18/17 20:28	127-18-4	
Trichloroethene	<0.33	ug/L	1.0	0.33	1		12/18/17 20:28	79-01-6	
Surrogates									
4-Bromofluorobenzene (S)	86	%	61-130		1		12/18/17 20:28	460-00-4	
Dibromofluoromethane (S)	111	%	67-130		1		12/18/17 20:28	1868-53-7	
Toluene-d8 (S)	107	%	70-130		1		12/18/17 20:28	2037-26-5	

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ANALYTICAL RESULTS

Project: 34283.000 NPI

Pace Project No.: 40162407

Sample: MW-5A **Lab ID: 40162407007** Collected: 12/12/17 13:15 Received: 12/14/17 09:50 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260							
1,1,1-Trichloroethane	<0.50	ug/L	1.0	0.50	1		12/18/17 20:50	71-55-6	
1,1-Dichloroethane	<0.24	ug/L	1.0	0.24	1		12/18/17 20:50	75-34-3	
1,1-Dichloroethene	<0.41	ug/L	1.0	0.41	1		12/18/17 20:50	75-35-4	
Tetrachloroethene	<0.50	ug/L	1.0	0.50	1		12/18/17 20:50	127-18-4	
Trichloroethene	<0.33	ug/L	1.0	0.33	1		12/18/17 20:50	79-01-6	
Surrogates									
4-Bromofluorobenzene (S)	84	%	61-130		1		12/18/17 20:50	460-00-4	
Dibromofluoromethane (S)	110	%	67-130		1		12/18/17 20:50	1868-53-7	
Toluene-d8 (S)	103	%	70-130		1		12/18/17 20:50	2037-26-5	

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ANALYTICAL RESULTS

Project: 34283.000 NPI

Pace Project No.: 40162407

Sample: MW-5B **Lab ID: 40162407008** Collected: 12/12/17 13:05 Received: 12/14/17 09:50 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260							
1,1,1-Trichloroethane	<0.50	ug/L	1.0	0.50	1		12/15/17 13:53	71-55-6	
1,1-Dichloroethane	<0.24	ug/L	1.0	0.24	1		12/15/17 13:53	75-34-3	
1,1-Dichloroethene	<0.41	ug/L	1.0	0.41	1		12/15/17 13:53	75-35-4	
Tetrachloroethene	<0.50	ug/L	1.0	0.50	1		12/15/17 13:53	127-18-4	
Trichloroethene	<0.33	ug/L	1.0	0.33	1		12/15/17 13:53	79-01-6	
Surrogates									
4-Bromofluorobenzene (S)	91	%	61-130		1		12/15/17 13:53	460-00-4	
Dibromofluoromethane (S)	103	%	67-130		1		12/15/17 13:53	1868-53-7	
Toluene-d8 (S)	100	%	70-130		1		12/15/17 13:53	2037-26-5	

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ANALYTICAL RESULTS

Project: 34283.000 NPI

Pace Project No.: 40162407

Sample: MW-4A **Lab ID: 40162407009** Collected: 12/12/17 16:00 Received: 12/14/17 09:50 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260							
1,1,1-Trichloroethane	<0.50	ug/L	1.0	0.50	1		12/15/17 14:15	71-55-6	
1,1-Dichloroethane	<0.24	ug/L	1.0	0.24	1		12/15/17 14:15	75-34-3	
1,1-Dichloroethene	<0.41	ug/L	1.0	0.41	1		12/15/17 14:15	75-35-4	
Tetrachloroethene	<0.50	ug/L	1.0	0.50	1		12/15/17 14:15	127-18-4	
Trichloroethene	<0.33	ug/L	1.0	0.33	1		12/15/17 14:15	79-01-6	
Surrogates									
4-Bromofluorobenzene (S)	92	%	61-130		1		12/15/17 14:15	460-00-4	
Dibromofluoromethane (S)	101	%	67-130		1		12/15/17 14:15	1868-53-7	
Toluene-d8 (S)	101	%	70-130		1		12/15/17 14:15	2037-26-5	

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ANALYTICAL RESULTS

Project: 34283.000 NPI

Pace Project No.: 40162407

Sample: MW-4A DUP **Lab ID: 40162407010** Collected: 12/12/17 16:00 Received: 12/14/17 09:50 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260							
1,1,1-Trichloroethane	<0.50	ug/L	1.0	0.50	1		12/15/17 13:10	71-55-6	
1,1-Dichloroethane	<0.24	ug/L	1.0	0.24	1		12/15/17 13:10	75-34-3	
1,1-Dichloroethene	<0.41	ug/L	1.0	0.41	1		12/15/17 13:10	75-35-4	
Tetrachloroethene	<0.50	ug/L	1.0	0.50	1		12/15/17 13:10	127-18-4	
Trichloroethene	<0.33	ug/L	1.0	0.33	1		12/15/17 13:10	79-01-6	
Surrogates									
4-Bromofluorobenzene (S)	90	%	61-130		1		12/15/17 13:10	460-00-4	
Dibromofluoromethane (S)	103	%	67-130		1		12/15/17 13:10	1868-53-7	
Toluene-d8 (S)	100	%	70-130		1		12/15/17 13:10	2037-26-5	

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ANALYTICAL RESULTS

Project: 34283.000 NPI

Pace Project No.: 40162407

Sample: MW-4B **Lab ID: 40162407011** Collected: 12/12/17 16:05 Received: 12/14/17 09:50 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260							
1,1,1-Trichloroethane	<0.50	ug/L	1.0	0.50	1		12/15/17 14:37	71-55-6	
1,1-Dichloroethane	<0.24	ug/L	1.0	0.24	1		12/15/17 14:37	75-34-3	
1,1-Dichloroethene	<0.41	ug/L	1.0	0.41	1		12/15/17 14:37	75-35-4	
Tetrachloroethene	<0.50	ug/L	1.0	0.50	1		12/15/17 14:37	127-18-4	
Trichloroethene	0.38J	ug/L	1.0	0.33	1		12/15/17 14:37	79-01-6	
Surrogates									
4-Bromofluorobenzene (S)	91	%	61-130		1		12/15/17 14:37	460-00-4	
Dibromofluoromethane (S)	103	%	67-130		1		12/15/17 14:37	1868-53-7	
Toluene-d8 (S)	101	%	70-130		1		12/15/17 14:37	2037-26-5	

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ANALYTICAL RESULTS

Project: 34283.000 NPI

Pace Project No.: 40162407

Sample: MW-62 AR **Lab ID: 40162407012** Collected: 12/12/17 12:40 Received: 12/14/17 09:50 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260							
1,1,1-Trichloroethane	<0.50	ug/L	1.0	0.50	1		12/18/17 18:16	71-55-6	
1,1-Dichloroethane	<0.24	ug/L	1.0	0.24	1		12/18/17 18:16	75-34-3	
1,1-Dichloroethene	<0.41	ug/L	1.0	0.41	1		12/18/17 18:16	75-35-4	
Tetrachloroethene	<0.50	ug/L	1.0	0.50	1		12/18/17 18:16	127-18-4	
Trichloroethene	<0.33	ug/L	1.0	0.33	1		12/18/17 18:16	79-01-6	
Surrogates									
4-Bromofluorobenzene (S)	84	%	61-130		1		12/18/17 18:16	460-00-4	
Dibromofluoromethane (S)	105	%	67-130		1		12/18/17 18:16	1868-53-7	
Toluene-d8 (S)	103	%	70-130		1		12/18/17 18:16	2037-26-5	

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ANALYTICAL RESULTS

Project: 34283.000 NPI

Pace Project No.: 40162407

Sample: MW-62 B **Lab ID: 40162407013** Collected: 12/12/17 12:30 Received: 12/14/17 09:50 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260							
1,1,1-Trichloroethane	<0.50	ug/L	1.0	0.50	1		12/15/17 14:59	71-55-6	
1,1-Dichloroethane	<0.24	ug/L	1.0	0.24	1		12/15/17 14:59	75-34-3	
1,1-Dichloroethene	<0.41	ug/L	1.0	0.41	1		12/15/17 14:59	75-35-4	
Tetrachloroethene	<0.50	ug/L	1.0	0.50	1		12/15/17 14:59	127-18-4	
Trichloroethene	<0.33	ug/L	1.0	0.33	1		12/15/17 14:59	79-01-6	
Surrogates									
4-Bromofluorobenzene (S)	95	%	61-130		1		12/15/17 14:59	460-00-4	
Dibromofluoromethane (S)	96	%	67-130		1		12/15/17 14:59	1868-53-7	
Toluene-d8 (S)	104	%	70-130		1		12/15/17 14:59	2037-26-5	

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ANALYTICAL RESULTS

Project: 34283.000 NPI

Pace Project No.: 40162407

Sample: MW-66 A **Lab ID: 40162407014** Collected: 12/12/17 12:05 Received: 12/14/17 09:50 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260							
1,1,1-Trichloroethane	<0.50	ug/L	1.0	0.50	1		12/15/17 15:21	71-55-6	
1,1-Dichloroethane	<0.24	ug/L	1.0	0.24	1		12/15/17 15:21	75-34-3	
1,1-Dichloroethene	<0.41	ug/L	1.0	0.41	1		12/15/17 15:21	75-35-4	
Tetrachloroethene	<0.50	ug/L	1.0	0.50	1		12/15/17 15:21	127-18-4	
Trichloroethene	<0.33	ug/L	1.0	0.33	1		12/15/17 15:21	79-01-6	
Surrogates									
4-Bromofluorobenzene (S)	91	%	61-130		1		12/15/17 15:21	460-00-4	
Dibromofluoromethane (S)	103	%	67-130		1		12/15/17 15:21	1868-53-7	
Toluene-d8 (S)	103	%	70-130		1		12/15/17 15:21	2037-26-5	

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ANALYTICAL RESULTS

Project: 34283.000 NPI

Pace Project No.: 40162407

Sample: MW-66 B **Lab ID: 40162407015** Collected: 12/12/17 11:55 Received: 12/14/17 09:50 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260							
1,1,1-Trichloroethane	<0.50	ug/L	1.0	0.50	1		12/15/17 15:43	71-55-6	
1,1-Dichloroethane	<0.24	ug/L	1.0	0.24	1		12/15/17 15:43	75-34-3	
1,1-Dichloroethene	<0.41	ug/L	1.0	0.41	1		12/15/17 15:43	75-35-4	
Tetrachloroethene	<0.50	ug/L	1.0	0.50	1		12/15/17 15:43	127-18-4	
Trichloroethene	<0.33	ug/L	1.0	0.33	1		12/15/17 15:43	79-01-6	
Surrogates									
4-Bromofluorobenzene (S)	91	%	61-130		1		12/15/17 15:43	460-00-4	
Dibromofluoromethane (S)	103	%	67-130		1		12/15/17 15:43	1868-53-7	
Toluene-d8 (S)	100	%	70-130		1		12/15/17 15:43	2037-26-5	

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ANALYTICAL RESULTS

Project: 34283.000 NPI

Pace Project No.: 40162407

Sample: MW-66 C **Lab ID: 40162407016** Collected: 12/12/17 12:10 Received: 12/14/17 09:50 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260							
1,1,1-Trichloroethane	<0.50	ug/L	1.0	0.50	1		12/15/17 16:05	71-55-6	
1,1-Dichloroethane	<0.24	ug/L	1.0	0.24	1		12/15/17 16:05	75-34-3	
1,1-Dichloroethene	<0.41	ug/L	1.0	0.41	1		12/15/17 16:05	75-35-4	
Tetrachloroethene	<0.50	ug/L	1.0	0.50	1		12/15/17 16:05	127-18-4	
Trichloroethene	<0.33	ug/L	1.0	0.33	1		12/15/17 16:05	79-01-6	
Surrogates									
4-Bromofluorobenzene (S)	90	%	61-130		1		12/15/17 16:05	460-00-4	
Dibromofluoromethane (S)	102	%	67-130		1		12/15/17 16:05	1868-53-7	
Toluene-d8 (S)	101	%	70-130		1		12/15/17 16:05	2037-26-5	

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ANALYTICAL RESULTS

Project: 34283.000 NPI

Pace Project No.: 40162407

Sample: MW-70 A **Lab ID: 40162407017** Collected: 12/12/17 14:35 Received: 12/14/17 09:50 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260							
1,1,1-Trichloroethane	<0.50	ug/L	1.0	0.50	1		12/15/17 16:27	71-55-6	
1,1-Dichloroethane	0.27J	ug/L	1.0	0.24	1		12/15/17 16:27	75-34-3	
1,1-Dichloroethene	<0.41	ug/L	1.0	0.41	1		12/15/17 16:27	75-35-4	
Tetrachloroethene	<0.50	ug/L	1.0	0.50	1		12/15/17 16:27	127-18-4	
Trichloroethene	0.51J	ug/L	1.0	0.33	1		12/15/17 16:27	79-01-6	
Surrogates									
4-Bromofluorobenzene (S)	90	%	61-130		1		12/15/17 16:27	460-00-4	
Dibromofluoromethane (S)	102	%	67-130		1		12/15/17 16:27	1868-53-7	
Toluene-d8 (S)	101	%	70-130		1		12/15/17 16:27	2037-26-5	

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ANALYTICAL RESULTS

Project: 34283.000 NPI

Pace Project No.: 40162407

Sample: MW-70 A DUP **Lab ID: 40162407018** Collected: 12/12/17 14:35 Received: 12/14/17 09:50 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260							
1,1,1-Trichloroethane	<0.50	ug/L	1.0	0.50	1		12/15/17 13:32	71-55-6	
1,1-Dichloroethane	0.35J	ug/L	1.0	0.24	1		12/15/17 13:32	75-34-3	
1,1-Dichloroethene	<0.41	ug/L	1.0	0.41	1		12/15/17 13:32	75-35-4	
Tetrachloroethene	<0.50	ug/L	1.0	0.50	1		12/15/17 13:32	127-18-4	
Trichloroethene	0.47J	ug/L	1.0	0.33	1		12/15/17 13:32	79-01-6	
Surrogates									
4-Bromofluorobenzene (S)	92	%	61-130		1		12/15/17 13:32	460-00-4	
Dibromofluoromethane (S)	104	%	67-130		1		12/15/17 13:32	1868-53-7	
Toluene-d8 (S)	101	%	70-130		1		12/15/17 13:32	2037-26-5	

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ANALYTICAL RESULTS

Project: 34283.000 NPI

Pace Project No.: 40162407

Sample: MW-70 B **Lab ID: 40162407019** Collected: 12/12/17 14:40 Received: 12/14/17 09:50 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, Dissolved		Analytical Method: EPA 6010							
Cadmium, Dissolved	2.4J	ug/L	5.0	1.3	1		12/15/17 18:45	7440-43-9	
8260 MSV		Analytical Method: EPA 8260							
1,1,1-Trichloroethane	<0.50	ug/L	1.0	0.50	1		12/15/17 12:48	71-55-6	
1,1-Dichloroethane	<0.24	ug/L	1.0	0.24	1		12/15/17 12:48	75-34-3	
1,1-Dichloroethene	<0.41	ug/L	1.0	0.41	1		12/15/17 12:48	75-35-4	
Tetrachloroethene	<0.50	ug/L	1.0	0.50	1		12/15/17 12:48	127-18-4	
Trichloroethene	<0.33	ug/L	1.0	0.33	1		12/15/17 12:48	79-01-6	
Surrogates									
4-Bromofluorobenzene (S)	90	%	61-130		1		12/15/17 12:48	460-00-4	
Dibromofluoromethane (S)	100	%	67-130		1		12/15/17 12:48	1868-53-7	
Toluene-d8 (S)	98	%	70-130		1		12/15/17 12:48	2037-26-5	

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ANALYTICAL RESULTS

Project: 34283.000 NPI

Pace Project No.: 40162407

Sample: MW-75 **Lab ID: 40162407020** Collected: 12/12/17 15:25 Received: 12/14/17 09:50 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, Dissolved									
Analytical Method: EPA 6010									
Cadmium, Dissolved	<1.3	ug/L	5.0	1.3	1		12/15/17 18:57	7440-43-9	

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ANALYTICAL RESULTS

Project: 34283.000 NPI

Pace Project No.: 40162407

Sample: MW-34 A **Lab ID: 40162407021** Collected: 12/12/17 15:00 Received: 12/14/17 09:50 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, Dissolved		Analytical Method: EPA 6010							
Cadmium, Dissolved	<1.3	ug/L	5.0	1.3	1		12/15/17 18:59	7440-43-9	
8260 MSV		Analytical Method: EPA 8260							
1,1,1-Trichloroethane	<0.50	ug/L	1.0	0.50	1		12/15/17 16:48	71-55-6	
1,1-Dichloroethane	<0.24	ug/L	1.0	0.24	1		12/15/17 16:48	75-34-3	
1,1-Dichloroethene	<0.41	ug/L	1.0	0.41	1		12/15/17 16:48	75-35-4	
Tetrachloroethene	<0.50	ug/L	1.0	0.50	1		12/15/17 16:48	127-18-4	
Trichloroethene	<0.33	ug/L	1.0	0.33	1		12/15/17 16:48	79-01-6	
Surrogates									
4-Bromofluorobenzene (S)	91	%	61-130		1		12/15/17 16:48	460-00-4	
Dibromofluoromethane (S)	105	%	67-130		1		12/15/17 16:48	1868-53-7	
Toluene-d8 (S)	100	%	70-130		1		12/15/17 16:48	2037-26-5	

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ANALYTICAL RESULTS

Project: 34283.000 NPI

Pace Project No.: 40162407

Sample: MW-34 B **Lab ID: 40162407022** Collected: 12/12/17 14:55 Received: 12/14/17 09:50 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, Dissolved		Analytical Method: EPA 6010							
Cadmium, Dissolved	1.4J	ug/L	5.0	1.3	1		12/15/17 19:02	7440-43-9	
8260 MSV		Analytical Method: EPA 8260							
1,1,1-Trichloroethane	<0.50	ug/L	1.0	0.50	1		12/20/17 15:08	71-55-6	
1,1-Dichloroethane	<0.24	ug/L	1.0	0.24	1		12/20/17 15:08	75-34-3	
1,1-Dichloroethene	<0.41	ug/L	1.0	0.41	1		12/20/17 15:08	75-35-4	
Tetrachloroethene	<0.50	ug/L	1.0	0.50	1		12/20/17 15:08	127-18-4	
Trichloroethene	<0.33	ug/L	1.0	0.33	1		12/20/17 15:08	79-01-6	
Surrogates									
4-Bromofluorobenzene (S)	100	%	61-130		1		12/20/17 15:08	460-00-4	
Dibromofluoromethane (S)	96	%	67-130		1		12/20/17 15:08	1868-53-7	
Toluene-d8 (S)	98	%	70-130		1		12/20/17 15:08	2037-26-5	

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ANALYTICAL RESULTS

Project: 34283.000 NPI

Pace Project No.: 40162407

Sample: MW-34 C **Lab ID: 40162407023** Collected: 12/12/17 15:05 Received: 12/14/17 09:50 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260							
1,1,1-Trichloroethane	<0.50	ug/L	1.0	0.50	1		12/15/17 17:32	71-55-6	
1,1-Dichloroethane	<0.24	ug/L	1.0	0.24	1		12/15/17 17:32	75-34-3	
1,1-Dichloroethene	<0.41	ug/L	1.0	0.41	1		12/15/17 17:32	75-35-4	
Tetrachloroethene	<0.50	ug/L	1.0	0.50	1		12/15/17 17:32	127-18-4	
Trichloroethene	<0.33	ug/L	1.0	0.33	1		12/15/17 17:32	79-01-6	
Surrogates									
4-Bromofluorobenzene (S)	89	%	61-130		1		12/15/17 17:32	460-00-4	
Dibromofluoromethane (S)	103	%	67-130		1		12/15/17 17:32	1868-53-7	
Toluene-d8 (S)	100	%	70-130		1		12/15/17 17:32	2037-26-5	

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ANALYTICAL RESULTS

Project: 34283.000 NPI

Pace Project No.: 40162407

Sample: MW-10 A **Lab ID: 40162407024** Collected: 12/12/17 14:20 Received: 12/14/17 09:50 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, Dissolved									
Analytical Method: EPA 6010									
Cadmium, Dissolved	18.8	ug/L	5.0	1.3	1		12/15/17 19:04	7440-43-9	

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ANALYTICAL RESULTS

Project: 34283.000 NPI

Pace Project No.: 40162407

Sample: MW-10 B **Lab ID: 40162407025** Collected: 12/12/17 14:30 Received: 12/14/17 09:50 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, Dissolved	Analytical Method: EPA 6010								
Cadmium, Dissolved	<1.3	ug/L	5.0	1.3	1		12/15/17 19:07	7440-43-9	

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ANALYTICAL RESULTS

Project: 34283.000 NPI

Pace Project No.: 40162407

Sample: MH-18 **Lab ID: 40162407026** Collected: 12/12/17 15:30 Received: 12/14/17 09:50 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, Dissolved		Analytical Method: EPA 6010							
Cadmium, Dissolved	<1.3	ug/L	5.0	1.3	1		12/15/17 19:09	7440-43-9	
8260 MSV		Analytical Method: EPA 8260							
1,1,1-Trichloroethane	0.61J	ug/L	1.0	0.50	1		12/20/17 15:31	71-55-6	
1,1-Dichloroethane	<0.24	ug/L	1.0	0.24	1		12/20/17 15:31	75-34-3	
1,1-Dichloroethene	<0.41	ug/L	1.0	0.41	1		12/20/17 15:31	75-35-4	
Tetrachloroethene	<0.50	ug/L	1.0	0.50	1		12/20/17 15:31	127-18-4	
Trichloroethene	0.51J	ug/L	1.0	0.33	1		12/20/17 15:31	79-01-6	
Surrogates									
4-Bromofluorobenzene (S)	98	%	61-130		1		12/20/17 15:31	460-00-4	
Dibromofluoromethane (S)	95	%	67-130		1		12/20/17 15:31	1868-53-7	
Toluene-d8 (S)	99	%	70-130		1		12/20/17 15:31	2037-26-5	

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ANALYTICAL RESULTS

Project: 34283.000 NPI

Pace Project No.: 40162407

Sample: TRIP BLANK **Lab ID: 40162407027** Collected: 12/12/17 00:00 Received: 12/14/17 09:50 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260							
1,1,1-Trichloroethane	<0.50	ug/L	1.0	0.50	1		12/15/17 19:44	71-55-6	
1,1-Dichloroethane	<0.24	ug/L	1.0	0.24	1		12/15/17 19:44	75-34-3	
1,1-Dichloroethene	<0.41	ug/L	1.0	0.41	1		12/15/17 19:44	75-35-4	
Tetrachloroethene	<0.50	ug/L	1.0	0.50	1		12/15/17 19:44	127-18-4	
Trichloroethene	<0.33	ug/L	1.0	0.33	1		12/15/17 19:44	79-01-6	
Surrogates									
4-Bromofluorobenzene (S)	89	%	61-130		1		12/15/17 19:44	460-00-4	
Dibromofluoromethane (S)	104	%	67-130		1		12/15/17 19:44	1868-53-7	
Toluene-d8 (S)	99	%	70-130		1		12/15/17 19:44	2037-26-5	

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QUALITY CONTROL DATA

Project: 34283.000 NPI
Pace Project No.: 40162407

QC Batch: 277287 Analysis Method: EPA 6010
QC Batch Method: EPA 6010 Analysis Description: ICP Metals, Trace, Dissolved
Associated Lab Samples: 40162407019, 40162407020, 40162407021, 40162407022, 40162407024, 40162407025, 40162407026

METHOD BLANK: 1630159 Matrix: Water
Associated Lab Samples: 40162407019, 40162407020, 40162407021, 40162407022, 40162407024, 40162407025, 40162407026

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Cadmium, Dissolved	ug/L	<1.3	5.0	12/18/17 11:01	

LABORATORY CONTROL SAMPLE: 1630161

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Cadmium, Dissolved	ug/L	500	514	103	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1630162 1630163

Parameter	Units	40162407019 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Cadmium, Dissolved	ug/L	2.4J	500	500	514	525	102	105	75-125	2	20	

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QUALITY CONTROL DATA

Project: 34283.000 NPI
Pace Project No.: 40162407

QC Batch: 277219 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV
Associated Lab Samples: 40162407001, 40162407002, 40162407003, 40162407004, 40162407005, 40162407006, 40162407007, 40162407012

METHOD BLANK: 1629821 Matrix: Water
Associated Lab Samples: 40162407001, 40162407002, 40162407003, 40162407004, 40162407005, 40162407006, 40162407007, 40162407012

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	<0.50	1.0	12/18/17 16:26	
1,1-Dichloroethane	ug/L	<0.24	1.0	12/18/17 16:26	
1,1-Dichloroethene	ug/L	<0.41	1.0	12/18/17 16:26	
Tetrachloroethene	ug/L	<0.50	1.0	12/18/17 16:26	
Trichloroethene	ug/L	<0.33	1.0	12/18/17 16:26	
4-Bromofluorobenzene (S)	%	84	61-130	12/18/17 16:26	
Dibromofluoromethane (S)	%	108	67-130	12/18/17 16:26	
Toluene-d8 (S)	%	103	70-130	12/18/17 16:26	

LABORATORY CONTROL SAMPLE: 1629822

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	50	61.4	123	70-130	
1,1-Dichloroethane	ug/L	50	55.3	111	71-132	
1,1-Dichloroethene	ug/L	50	56.8	114	75-130	
Tetrachloroethene	ug/L	50	51.4	103	70-130	
Trichloroethene	ug/L	50	56.0	112	70-130	
4-Bromofluorobenzene (S)	%			100	61-130	
Dibromofluoromethane (S)	%			108	67-130	
Toluene-d8 (S)	%			99	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1629823 1629824

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual	
		40162407012 Result	Spike Conc.	Spike Conc.	MS Result							MSD Result
1,1,1-Trichloroethane	ug/L	<0.50	50	50	62.4	62.8	125	126	70-134	1	20	
1,1-Dichloroethane	ug/L	<0.24	50	50	55.7	59.1	111	118	71-133	6	20	
1,1-Dichloroethene	ug/L	<0.41	50	50	55.8	56.2	112	112	75-136	1	20	
Tetrachloroethene	ug/L	<0.50	50	50	52.3	52.4	105	105	70-130	0	20	
Trichloroethene	ug/L	<0.33	50	50	56.3	57.5	113	115	70-130	2	20	
4-Bromofluorobenzene (S)	%						101	102	61-130			
Dibromofluoromethane (S)	%						106	106	67-130			
Toluene-d8 (S)	%						99	100	70-130			

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QUALITY CONTROL DATA

Project: 34283.000 NPI
Pace Project No.: 40162407

QC Batch: 277220 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV
Associated Lab Samples: 40162407008, 40162407009, 40162407010, 40162407011, 40162407013, 40162407014, 40162407015, 40162407016, 40162407017, 40162407018, 40162407019, 40162407021, 40162407023, 40162407027

METHOD BLANK: 1629825 Matrix: Water
Associated Lab Samples: 40162407008, 40162407009, 40162407010, 40162407011, 40162407013, 40162407014, 40162407015, 40162407016, 40162407017, 40162407018, 40162407019, 40162407021, 40162407023, 40162407027

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	<0.50	1.0	12/15/17 11:20	
1,1-Dichloroethane	ug/L	<0.24	1.0	12/15/17 11:20	
1,1-Dichloroethene	ug/L	<0.41	1.0	12/15/17 11:20	
Tetrachloroethene	ug/L	<0.50	1.0	12/15/17 11:20	
Trichloroethene	ug/L	<0.33	1.0	12/15/17 11:20	
4-Bromofluorobenzene (S)	%	91	61-130	12/15/17 11:20	
Dibromofluoromethane (S)	%	105	67-130	12/15/17 11:20	
Toluene-d8 (S)	%	99	70-130	12/15/17 11:20	

LABORATORY CONTROL SAMPLE: 1629826

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	50	51.1	102	70-130	
1,1-Dichloroethane	ug/L	50	51.4	103	71-132	
1,1-Dichloroethene	ug/L	50	48.9	98	75-130	
Tetrachloroethene	ug/L	50	51.9	104	70-130	
Trichloroethene	ug/L	50	53.5	107	70-130	
4-Bromofluorobenzene (S)	%			99	61-130	
Dibromofluoromethane (S)	%			102	67-130	
Toluene-d8 (S)	%			100	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1629827 1629828

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		40162407019 Result	Spike Conc.	Spike Conc.	MS Result						
1,1,1-Trichloroethane	ug/L	<0.50	50	50	53.9	51.9	108	104	70-134	4	20
1,1-Dichloroethane	ug/L	<0.24	50	50	52.6	52.1	105	104	71-133	1	20
1,1-Dichloroethene	ug/L	<0.41	50	50	54.7	53.2	109	106	75-136	3	20
Tetrachloroethene	ug/L	<0.50	50	50	59.2	53.6	118	107	70-130	10	20
Trichloroethene	ug/L	<0.33	50	50	58.7	55.3	117	111	70-130	6	20
4-Bromofluorobenzene (S)	%						100	99	61-130		
Dibromofluoromethane (S)	%						100	102	67-130		
Toluene-d8 (S)	%						103	100	70-130		

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: 34283.000 NPI

Pace Project No.: 40162407

QC Batch: 277394

Analysis Method: EPA 8260

QC Batch Method: EPA 8260

Analysis Description: 8260 MSV

Associated Lab Samples: 40162407022, 40162407026

METHOD BLANK: 1630972

Matrix: Water

Associated Lab Samples: 40162407022, 40162407026

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	<0.50	1.0	12/20/17 07:13	
1,1-Dichloroethane	ug/L	<0.24	1.0	12/20/17 07:13	
1,1-Dichloroethene	ug/L	<0.41	1.0	12/20/17 07:13	
Tetrachloroethene	ug/L	<0.50	1.0	12/20/17 07:13	
Trichloroethene	ug/L	<0.33	1.0	12/20/17 07:13	
4-Bromofluorobenzene (S)	%	101	61-130	12/20/17 07:13	
Dibromofluoromethane (S)	%	94	67-130	12/20/17 07:13	
Toluene-d8 (S)	%	100	70-130	12/20/17 07:13	

LABORATORY CONTROL SAMPLE: 1630973

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	50	52.5	105	70-130	
1,1-Dichloroethane	ug/L	50	51.8	104	71-132	
1,1-Dichloroethene	ug/L	50	49.0	98	75-130	
Tetrachloroethene	ug/L	50	56.6	113	70-130	
Trichloroethene	ug/L	50	57.0	114	70-130	
4-Bromofluorobenzene (S)	%			104	61-130	
Dibromofluoromethane (S)	%			98	67-130	
Toluene-d8 (S)	%			99	70-130	

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: 34283.000 NPI

Pace Project No.: 40162407

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.

LABORATORIES

PASI-G Pace Analytical Services - Green Bay

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 34283.000 NPI
Pace Project No.: 40162407

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40162407019	MW-70 B	EPA 6010	277287		
40162407020	MW-75	EPA 6010	277287		
40162407021	MW-34 A	EPA 6010	277287		
40162407022	MW-34 B	EPA 6010	277287		
40162407024	MW-10 A	EPA 6010	277287		
40162407025	MW-10 B	EPA 6010	277287		
40162407026	MH-18	EPA 6010	277287		
40162407001	EW-1R-H	EPA 8260	277219		
40162407002	EW-1R-M	EPA 8260	277219		
40162407003	EW-1R-M DUP	EPA 8260	277219		
40162407004	EW-1R-L	EPA 8260	277219		
40162407005	EW-2 H	EPA 8260	277219		
40162407006	EW-2 L	EPA 8260	277219		
40162407007	MW-5A	EPA 8260	277219		
40162407008	MW-5B	EPA 8260	277220		
40162407009	MW-4A	EPA 8260	277220		
40162407010	MW-4A DUP	EPA 8260	277220		
40162407011	MW-4B	EPA 8260	277220		
40162407012	MW-62 AR	EPA 8260	277219		
40162407013	MW-62 B	EPA 8260	277220		
40162407014	MW-66 A	EPA 8260	277220		
40162407015	MW-66 B	EPA 8260	277220		
40162407016	MW-66 C	EPA 8260	277220		
40162407017	MW-70 A	EPA 8260	277220		
40162407018	MW-70 A DUP	EPA 8260	277220		
40162407019	MW-70 B	EPA 8260	277220		
40162407021	MW-34 A	EPA 8260	277220		
40162407022	MW-34 B	EPA 8260	277394		
40162407023	MW-34 C	EPA 8260	277220		
40162407026	MH-18	EPA 8260	277394		
40162407027	TRIP BLANK	EPA 8260	277220		

REPORT OF LABORATORY ANALYSIS

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(Please Print Clearly)

Company Name: Gannett Fleming
 Branch/Location: Madison, WI
 Project Contact: Cliff Wright
 Phone: 608-836-1800
 Project Number: 34283.000
 Project Name: NPI
 Project State: WI
 Sampled By (Print): Chekeea Payne
 Sampled By (Sign): Chekeea Payne
 PO #: _____ Regulatory Program: _____



UPPER MIDWEST REGION
 MN: 612-607-1700 WI: 920-469-2436

CHAIN OF CUSTODY

Preservation Codes
 A=None B=HCL C=H2SO4 D=HNO3 E=DI Water F=Methanol G=NaOH
 H=Sodium Bisulfate Solution I=Sodium Thiosulfate J=Other

FILTERED?
(YES/NO)
 PRESERVATION
(CODE)*

Y/N	Pick Letter	Analysis Requested																
N	B	VOCs NPI Short List																
		Get analyzed																

Quote #: _____
 Mail To Contact: Cliff Wright
 Mail To Company: Gannett Fleming
 Mail To Address: 8025 Excelsior Rd
Madison, WI 53717
 Invoice To Contact: _____
 Invoice To Company: See mail to
 Invoice To Address: _____
 Invoice To Phone: 608-836-1800
 CLIENT COMMENTS: _____
 LAB COMMENTS (Lab Use Only): _____
 Profile #: _____

Data Package Options (billable)
 EPA Level III
 EPA Level IV

MS/MSD
 On your sample (billable)
 NOT needed on your sample

Matrix Codes
 A = Air W = Water
 B = Biota DW = Drinking Water
 C = Charcoal GW = Ground Water
 O = Oil SW = Surface Water
 S = Soil WW = Waste Water
 SI = Sludge WP = Wipe

PACE LAB #	CLIENT FIELD ID	COLLECTION		MATRIX
		DATE	TIME	
001	EW-1R-H	12/12/17	12:50	GW
002	EW-1R M		12:52	
003	EW-1R M dup		"	
004	EW-1R L		12:55	
005	EW-2 H		13:00	
006	EW-2 L		13:05	
007	MW-5A		13:15	
008	MW-5B		13:05	
009	MW-4A		16:00	
010	MW-4A dup		"	
011	MW-4B		16:05	
012	MW-62 AR		12:40	
↓	MW-62 AR MS		"	

Rush Turnaround Time Requested - Prelims (Rush TAT subject to approval/surcharge)
 Date Needed: _____

Transmit Prelim Rush Results by (complete what you want): _____

Relinquished By: <u>Chekeea Payne</u>	Date/Time: <u>12/13/17 17:45</u>	Received By: _____	Date/Time: _____
Relinquished By: <u>Helex</u>	Date/Time: <u>12/14/17 09:50</u>	Received By: <u>Rachel Wes Pae</u>	Date/Time: <u>12/14/17 09:50</u>
Relinquished By: _____	Date/Time: _____	Received By: _____	Date/Time: _____
Relinquished By: _____	Date/Time: _____	Received By: _____	Date/Time: _____
Relinquished By: _____	Date/Time: _____	Received By: _____	Date/Time: _____

Samples on HOLD are subject to special pricing and release of liability

PACE Project No. 40162407
 Receipt Temp = 20.1 °C
 Sample Receipt pH OK / Adjusted
 Cooler Custody Seal Present / Not Present Intact / Not Intact

(Please Print Clearly)

UPPER MIDWEST REGION

MN: 612-607-1700 WI: 920-469-2436

40162407

Page 42 of 44



CHAIN OF CUSTODY

*Preservation Codes					
A=None	B=HCL	C=H2SO4	D=HNO3	E=DI Water	F=Methanol
G=NaOH	H=Sodium Bisulfate Solution	I=Sodium Thiosulfate	J=Other		

Company Name: Gannett Fleming
 Branch/Location: Madison, WI
 Project Contact: _____
 Phone: _____
 Project Number: 34283,000
 Project Name: _____
 Project State: See pg 1
 Sampled By (Print): _____
 Sampled By (Sign): _____
 PO #: _____
 Regulatory Program: _____

FILTERED?
(YES/NO)
 PRESERVATION
(CODE)*

Y/N	Pick Letter	Analysis Requested	DATE	TIME	MATRIX	Y	N											
N	B	NPI VOCs ShortList Cadmium dissolved	12/12/17	12:40	GW													
Y	D																	

Data Package Options (billable)
 EPA Level III
 EPA Level IV

MS/MSD
 On your sample (billable)
 NOT needed on your sample

Matrix Codes
 A = Air W = Water
 B = Biota DW = Drinking Water
 C = Charcoal GW = Ground Water
 O = Oil SW = Surface Water
 S = Soil WW = Waste Water
 SI = Sludge WP = Wipe

Quote #: _____
 Mail To Contact: _____
 Mail To Company: _____
 Mail To Address: See pg 1
 Invoice To Contact: _____
 Invoice To Company: _____
 Invoice To Address: _____
 Invoice To Phone: _____
 CLIENT COMMENTS: _____
 LAB COMMENTS (Lab Use Only): _____
 Profile #: _____

PACE LAB #	CLIENT FIELD ID	COLLECTION		MATRIX	Analysis Requested	Y	N											
		DATE	TIME															
02	MW-62 AR MS dup	12/12/17	12:40	GW	3													
013	MW-62 B		12:30		1													
014	MW-66 A		12:05		1													
015	MW-66 B		11:55		1													
016	MW-66 C		12:10		1													
017	MW-70 A		14:35		1													
018	MW-70 A dup				1													
019	MW-70 B		14:40		3													
020	MW-75		15:25		1													
021	MW-34 A		15:00		3													
022	MW-34 B		14:55		3													
023	MW-34 C		15:05		3													
024	MW-10 A		14:20		1													

3-40ml B

1-250ml PD

Rush Turnaround Time Requested - Prelims (Rush TAT subject to approval/surcharge)
 Date Needed: _____
 Transmit Prelim Rush Results by (complete what you want): _____

Relinquished By: <u>Chad Payne</u>	Date/Time: _____	Received By: _____	Date/Time: _____
Relinquished By: <u>Fred Ex</u>	Date/Time: <u>12/14/17 09:50</u>	Received By: <u>Rachel Wu</u>	Date/Time: <u>12/14/17 09:50</u>
Relinquished By: _____	Date/Time: _____	Received By: _____	Date/Time: _____
Relinquished By: _____	Date/Time: _____	Received By: _____	Date/Time: _____
Relinquished By: _____	Date/Time: _____	Received By: _____	Date/Time: _____

PACE Project No. 40162407

Receipt Temp = 20 °C

Sample Receipt pH OK / Adjusted

Cooler Custody Seal Present / Not Present Intact / Not Intact

(Please Print Clearly)

Company Name: Gannett Fleming
 Branch/Location: Madison, WI
 Project Contact:
 Phone:
 Project Number: 34283,000
 Project Name:
 Project State: See pg 1
 Sampled By (Print):
 Sampled By (Sign):
 PO #:



UPPER MIDWEST REGION
 MN: 612-607-1700 WI: 920-469-2436

40162407

CHAIN OF CUSTODY

***Preservation Codes**
 A=None B=HCL C=H2SO4 D=HNO3 E=DI Water F=Methanol G=NaOH
 H=Sodium Bisulfate Solution I=Sodium Thiosulfate J=Other

FILTERED?
(YES/NO)
 PRESERVATION
(CODE)*

Y/N	Pick Letter	Analysis Requested																			
	B	MI																			
	D	VOCs Short List																			
		Cadmium, diss.																			

Quote #:
 Mail To Contact:
 Mail To Company:
 Mail To Address: See pg 1
 Invoice To Contact:
 Invoice To Company:
 Invoice To Address:
 Invoice To Phone:
 CLIENT COMMENTS
 LAB COMMENTS (Lab Use Only)
 Profile #

Data Package Options (billable)
 EPA Level III
 EPA Level IV

MS/MSD
 On your sample (billable)
 NOT needed on your sample

Matrix Codes
 A = Air W = Water
 B = Biota DW = Drinking Water
 C = Charcoal GW = Ground Water
 O = Oil SW = Surface Water
 S = Soil WW = Waste Water
 SI = Sludge WP = Wipe

PACE LAB #	CLIENT FIELD ID	COLLECTION		MATRIX
		DATE	TIME	
025	MW-10B	12/17/17	14:30	GW
026	MH-18	"	15:30	↓
027	Trip Blank	12/17/17		↓

Rush Turnaround Time Requested - Prelims (Rush TAT subject to approval/surcharge) Date Needed:

Relinquished By: [Signature] Date/Time: 12/14/17 09:50 Received By: [Signature] Date/Time: 12/14/17 09:50

Transmit Prelim Rush Results by (complete what you want): FD Ex

Relinquished By: [Signature] Date/Time: 12/14/17 09:50 Received By: [Signature] Date/Time: 12/14/17 09:50

Relinquished By: [Signature] Date/Time: 12/14/17 09:50 Received By: [Signature] Date/Time: 12/14/17 09:50

Relinquished By: [Signature] Date/Time: 12/14/17 09:50 Received By: [Signature] Date/Time: 12/14/17 09:50

Relinquished By: [Signature] Date/Time: 12/14/17 09:50 Received By: [Signature] Date/Time: 12/14/17 09:50

PACE Project No. 40162407
 Receipt Temp = 101 °C
 Sample Receipt pH OK/Adjusted
 Cooler Custody Seal Present (Not Present) Intact (Not Intact)



Sample Condition Upon Receipt

Pace Analytical Services, LLC. - Green Bay WI
1241 Bellevue Street, Suite 9
Green Bay, WI 54302

Project # **WO# : 40162407**

Client Name: Garnett Fleming

Courier: Fed Ex UPS Client Pace Other: _____
Tracking #: 8115 3971 8885



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 NIA Type of Ice: Wet Blue Dry None Samples on ice, cooling process has begun

Cooler Temperature Uncorr: _____ /Corr: RO Biological Tissue is Frozen: yes no

Temp Blank Present: yes no

Temp should be above freezing to 6°C.
Biota Samples may be received at ≤ 0°C.

Person examining contents:
Date: 12/14/17
Initials: RM

Comments:

Chain of Custody Present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1.
Chain of Custody Filled Out:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	2.
Chain of Custody Relinquished:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	3.
Sampler Name & Signature on COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	4. <u>page 1 only RM 12/14/17</u>
Samples Arrived within Hold Time:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	5.
- VOA Samples frozen upon receipt	<input type="checkbox"/> Yes <input type="checkbox"/> No	Date/Time:
Short Hold Time Analysis (<72hr):	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	6.
Rush Turn Around Time Requested:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	7.
Sufficient Volume:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	8. <u>NO ms/msd for metals RM 12/14/17</u>
Correct Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	9.
-Pace Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
-Pace IR Containers Used:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Containers Intact:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	10.
Filtered volume received for Dissolved tests	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	11. <u>RM 12/14/17</u>
Sample Labels match COC:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	12. <u>003 time 1252, 010 time 1600</u>
-Includes date/time/ID/Analysis Matrix: <u>W</u>		<u>012 all vials have time 1240. 018 time 1435</u>
All containers needing preservation have been checked. (Non-Compliance noted in 13.)	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	13. <input checked="" type="checkbox"/> HNO3 <input type="checkbox"/> H2SO4 <input type="checkbox"/> NaOH <input type="checkbox"/> NaOH + ZnAct
All containers needing preservation are found to be in compliance with EPA recommendation. (HNO3, H2SO4 ≤2; NaOH+ZnAct ≥9, NaOH ≥12)	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
exceptions: (VOA, coliform, TOC, TOX, TOH, O&G, WIDROW, Phenolics, OTHER: _____)	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	initial when completed <u>RM</u> Lab Std #/ID of preservative _____ Date/Time: _____
Headspace in VOA Vials (>6mm):	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	14.
Trip Blank Present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	15.
Trip Blank Custody Seals Present	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Pace Trip Blank Lot # (if purchased): <u>388</u>		

Client Notification/ Resolution: _____ If checked, see attached form for additional comments
Person Contacted: _____ Date/Time: _____
Comments/ Resolution: _____

Project Manager Review: As for DM Date: 12-14-17

December 27, 2017

Project 34283.000
NPI Q4 GW-City
Reviewed by CCW
12/27/17

Clifford Wright
Gannett Fleming
8025 Excelsior Drive
Madison, WI 53717

RE: Project: 34283.000 NPI
Pace Project No.: 40162410

Dear Clifford Wright:

Enclosed are the analytical results for sample(s) received by the laboratory on December 14, 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

cc: Mary C. Wehbe, MCW Scientific Solutions



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: 34283.000 NPI

Pace Project No.: 40162410

Minnesota Certification IDs

1700 Elm Street SE, Suite 200, Minneapolis, MN 55414-2485

A2LA Certification #: 2926.01

Alabama Certification #: 40770

Alaska Contaminated Sites Certification #: 17-009

Alaska DW Certification #: MN00064

Arizona Certification #: AZ0014

Arkansas Certification #: 88-0680

California Certification #: 2929

CNMI Saipan Certification #: MP0003

Colorado Certification #: MN00064

Connecticut Certification #: PH-0256

EPA Region 8+Wyoming DW Certification #: via MN 027-053-137

Florida Certification #: E87605

Georgia Certification #: 959

Guam EPA Certification #: MN00064

Hawaii Certification #: MN00064

Idaho Certification #: MN00064

Illinois Certification #: 200011

Indiana Certification #: C-MN-01

Iowa Certification #: 368

Kansas Certification #: E-10167

Kentucky DW Certification #: 90062

Kentucky WW Certification #: 90062

Louisiana DEQ Certification #: 03086

Louisiana DW Certification #: MN00064

Maine Certification #: MN00064

Maryland Certification #: 322

Massachusetts Certification #: M-MN064

Michigan Certification #: 9909

Minnesota Certification #: 027-053-137

Mississippi Certification #: MN00064

Montana Certification #: CERT0092

Nebraska Certification #: NE-OS-18-06

Nevada Certification #: MN00064

New Hampshire Certification #: 2081

New Jersey Certification #: MN002

New York Certification #: 11647

North Carolina DW Certification #: 27700

North Carolina WW Certification #: 530

North Dakota Certification #: R-036

Ohio DW Certification #: 41244

Ohio VAP Certification #: CL101

Oklahoma Certification #: 9507

Oregon NwTPH Certification #: MN300001

Oregon Secondary Certification #: MN200001

Pennsylvania Certification #: 68-00563

Puerto Rico Certification #: MN00064

South Carolina Certification #: 74003001

Tennessee Certification #: TN02818

Texas Certification #: T104704192

Utah Certification #: MN00064

Virginia Certification #: 460163

Washington Certification #: C486

West Virginia DW Certification #: 9952 C

West Virginia DEP Certification #: 382

Wisconsin Certification #: 999407970

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: 34283.000 NPI

Pace Project No.: 40162410

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40162410001	CW-11	Water	12/13/17 09:24	12/14/17 09:50
40162410002	CW-15	Water	12/13/17 09:34	12/14/17 09:50
40162410003	CW-16	Water	12/13/17 09:22	12/14/17 09:50
40162410004	CW-17	Water	12/13/17 09:20	12/14/17 09:50
40162410005	CW-19	Water	12/13/17 09:36	12/14/17 09:50
40162410006	CW-22	Water	12/13/17 09:50	12/14/17 09:50
40162410007	CW-23	Water	12/13/17 09:45	12/14/17 09:50
40162410008	RAW	Water	12/13/17 09:20	12/14/17 09:50
40162410009	TOWER A	Water	12/13/17 09:22	12/14/17 09:50
40162410010	TOWER B	Water	12/13/17 09:18	12/14/17 09:50
40162410011	FINISHED PRODUCT	Water	12/13/17 09:10	12/14/17 09:50
40162410012	TRIP BLANK	Water	12/13/17 00:00	12/14/17 09:50

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SAMPLE ANALYTE COUNT

Project: 34283.000 NPI

Pace Project No.: 40162410

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
40162410001	CW-11	EPA 524.2	DJB	8	PASI-M
40162410002	CW-15	EPA 524.2	DJB	8	PASI-M
40162410003	CW-16	EPA 524.2	DJB	8	PASI-M
40162410004	CW-17	EPA 524.2	DJB	8	PASI-M
40162410005	CW-19	EPA 524.2	DJB	8	PASI-M
40162410006	CW-22	EPA 524.2	DJB	8	PASI-M
40162410007	CW-23	EPA 524.2	DJB	8	PASI-M
40162410008	RAW	EPA 524.2	DJB	8	PASI-M
40162410009	TOWER A	EPA 524.2	DJB	8	PASI-M
40162410010	TOWER B	EPA 524.2	DJB	8	PASI-M
40162410011	FINISHED PRODUCT	EPA 524.2	DJB	8	PASI-M
40162410012	TRIP BLANK	EPA 524.2	DJB	8	PASI-M

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SUMMARY OF DETECTION

Project: 34283.000 NPI

Pace Project No.: 40162410

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
40162410005	CW-19					
EPA 524.2	Trichloroethene	0.40	ug/L	0.36	12/18/17 15:13	
40162410006	CW-22					
EPA 524.2	1,1,1-Trichloroethane	0.25J	ug/L	0.44	12/18/17 15:37	
EPA 524.2	Trichloroethene	2.4	ug/L	0.36	12/18/17 15:37	
40162410007	CW-23					
EPA 524.2	Trichloroethene	0.16J	ug/L	0.36	12/18/17 16:01	
40162410008	RAW					
EPA 524.2	Trichloroethene	1.1	ug/L	0.36	12/18/17 16:24	

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PROJECT NARRATIVE

Project: 34283.000 NPI
Pace Project No.: 40162410

Method: EPA 524.2
Description: 524.2 MSV
Client: Gannett Fleming Inc.
Date: December 27, 2017

General Information:

12 samples were analyzed for EPA 524.2. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

Internal Standards:

All internal standards were within QC limits with any exceptions noted below.

Surrogates:

All surrogates were within QC limits with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.

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ANALYTICAL RESULTS

Project: 34283.000 NPI

Pace Project No.: 40162410

Sample: CW-11 **Lab ID: 40162410001** Collected: 12/13/17 09:24 Received: 12/14/17 09:50 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
524.2 MSV		Analytical Method: EPA 524.2							
1,1-Dichloroethane	<0.14	ug/L	0.48	0.14	1		12/18/17 13:40	75-34-3	
1,1-Dichloroethene	<0.18	ug/L	0.60	0.18	1		12/18/17 13:40	75-35-4	
Tetrachloroethene	<0.12	ug/L	0.38	0.12	1		12/18/17 13:40	127-18-4	
1,1,1-Trichloroethane	<0.13	ug/L	0.44	0.13	1		12/18/17 13:40	71-55-6	
Trichloroethene	<0.11	ug/L	0.36	0.11	1		12/18/17 13:40	79-01-6	
Surrogates									
4-Bromofluorobenzene (S)	93	%	75-125		1		12/18/17 13:40	460-00-4	
Toluene-d8 (S)	90	%	75-125		1		12/18/17 13:40	2037-26-5	
1,2-Dichloroethane-d4 (S)	100	%	75-125		1		12/18/17 13:40	17060-07-0	

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ANALYTICAL RESULTS

Project: 34283.000 NPI

Pace Project No.: 40162410

Sample: CW-15 **Lab ID: 40162410002** Collected: 12/13/17 09:34 Received: 12/14/17 09:50 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
524.2 MSV		Analytical Method: EPA 524.2							
1,1-Dichloroethane	<0.14	ug/L	0.48	0.14	1		12/18/17 14:03	75-34-3	
1,1-Dichloroethene	<0.18	ug/L	0.60	0.18	1		12/18/17 14:03	75-35-4	
Tetrachloroethene	<0.12	ug/L	0.38	0.12	1		12/18/17 14:03	127-18-4	
1,1,1-Trichloroethane	<0.13	ug/L	0.44	0.13	1		12/18/17 14:03	71-55-6	
Trichloroethene	<0.11	ug/L	0.36	0.11	1		12/18/17 14:03	79-01-6	
Surrogates									
4-Bromofluorobenzene (S)	95	%	75-125		1		12/18/17 14:03	460-00-4	
Toluene-d8 (S)	95	%	75-125		1		12/18/17 14:03	2037-26-5	
1,2-Dichloroethane-d4 (S)	102	%	75-125		1		12/18/17 14:03	17060-07-0	

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ANALYTICAL RESULTS

Project: 34283.000 NPI

Pace Project No.: 40162410

Sample: CW-16 **Lab ID: 40162410003** Collected: 12/13/17 09:22 Received: 12/14/17 09:50 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
524.2 MSV		Analytical Method: EPA 524.2							
1,1-Dichloroethane	<0.14	ug/L	0.48	0.14	1		12/18/17 14:26	75-34-3	
1,1-Dichloroethene	<0.18	ug/L	0.60	0.18	1		12/18/17 14:26	75-35-4	
Tetrachloroethene	<0.12	ug/L	0.38	0.12	1		12/18/17 14:26	127-18-4	
1,1,1-Trichloroethane	<0.13	ug/L	0.44	0.13	1		12/18/17 14:26	71-55-6	
Trichloroethene	<0.11	ug/L	0.36	0.11	1		12/18/17 14:26	79-01-6	
Surrogates									
4-Bromofluorobenzene (S)	93	%	75-125		1		12/18/17 14:26	460-00-4	
Toluene-d8 (S)	98	%	75-125		1		12/18/17 14:26	2037-26-5	
1,2-Dichloroethane-d4 (S)	97	%	75-125		1		12/18/17 14:26	17060-07-0	

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ANALYTICAL RESULTS

Project: 34283.000 NPI

Pace Project No.: 40162410

Sample: CW-17 **Lab ID: 40162410004** Collected: 12/13/17 09:20 Received: 12/14/17 09:50 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
524.2 MSV		Analytical Method: EPA 524.2							
1,1-Dichloroethane	<0.14	ug/L	0.48	0.14	1		12/18/17 14:50	75-34-3	
1,1-Dichloroethene	<0.18	ug/L	0.60	0.18	1		12/18/17 14:50	75-35-4	
Tetrachloroethene	<0.12	ug/L	0.38	0.12	1		12/18/17 14:50	127-18-4	
1,1,1-Trichloroethane	<0.13	ug/L	0.44	0.13	1		12/18/17 14:50	71-55-6	
Trichloroethene	<0.11	ug/L	0.36	0.11	1		12/18/17 14:50	79-01-6	
Surrogates									
4-Bromofluorobenzene (S)	94	%	75-125		1		12/18/17 14:50	460-00-4	
Toluene-d8 (S)	95	%	75-125		1		12/18/17 14:50	2037-26-5	
1,2-Dichloroethane-d4 (S)	99	%	75-125		1		12/18/17 14:50	17060-07-0	

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ANALYTICAL RESULTS

Project: 34283.000 NPI

Pace Project No.: 40162410

Sample: CW-19 **Lab ID: 40162410005** Collected: 12/13/17 09:36 Received: 12/14/17 09:50 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
524.2 MSV		Analytical Method: EPA 524.2							
1,1-Dichloroethane	<0.14	ug/L	0.48	0.14	1		12/18/17 15:13	75-34-3	
1,1-Dichloroethene	<0.18	ug/L	0.60	0.18	1		12/18/17 15:13	75-35-4	
Tetrachloroethene	<0.12	ug/L	0.38	0.12	1		12/18/17 15:13	127-18-4	
1,1,1-Trichloroethane	<0.13	ug/L	0.44	0.13	1		12/18/17 15:13	71-55-6	
Trichloroethene	0.40	ug/L	0.36	0.11	1		12/18/17 15:13	79-01-6	
Surrogates									
4-Bromofluorobenzene (S)	94	%	75-125		1		12/18/17 15:13	460-00-4	
Toluene-d8 (S)	97	%	75-125		1		12/18/17 15:13	2037-26-5	
1,2-Dichloroethane-d4 (S)	100	%	75-125		1		12/18/17 15:13	17060-07-0	

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ANALYTICAL RESULTS

Project: 34283.000 NPI

Pace Project No.: 40162410

Sample: CW-22 **Lab ID: 40162410006** Collected: 12/13/17 09:50 Received: 12/14/17 09:50 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
524.2 MSV		Analytical Method: EPA 524.2							
1,1-Dichloroethane	<0.14	ug/L	0.48	0.14	1		12/18/17 15:37	75-34-3	
1,1-Dichloroethene	<0.18	ug/L	0.60	0.18	1		12/18/17 15:37	75-35-4	
Tetrachloroethene	<0.12	ug/L	0.38	0.12	1		12/18/17 15:37	127-18-4	
1,1,1-Trichloroethane	0.25J	ug/L	0.44	0.13	1		12/18/17 15:37	71-55-6	
Trichloroethene	2.4	ug/L	0.36	0.11	1		12/18/17 15:37	79-01-6	
Surrogates									
4-Bromofluorobenzene (S)	94	%	75-125		1		12/18/17 15:37	460-00-4	
Toluene-d8 (S)	90	%	75-125		1		12/18/17 15:37	2037-26-5	
1,2-Dichloroethane-d4 (S)	100	%	75-125		1		12/18/17 15:37	17060-07-0	

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ANALYTICAL RESULTS

Project: 34283.000 NPI

Pace Project No.: 40162410

Sample: CW-23 **Lab ID: 40162410007** Collected: 12/13/17 09:45 Received: 12/14/17 09:50 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
524.2 MSV		Analytical Method: EPA 524.2							
1,1-Dichloroethane	<0.14	ug/L	0.48	0.14	1		12/18/17 16:01	75-34-3	
1,1-Dichloroethene	<0.18	ug/L	0.60	0.18	1		12/18/17 16:01	75-35-4	
Tetrachloroethene	<0.12	ug/L	0.38	0.12	1		12/18/17 16:01	127-18-4	
1,1,1-Trichloroethane	<0.13	ug/L	0.44	0.13	1		12/18/17 16:01	71-55-6	
Trichloroethene	0.16J	ug/L	0.36	0.11	1		12/18/17 16:01	79-01-6	
Surrogates									
4-Bromofluorobenzene (S)	95	%	75-125		1		12/18/17 16:01	460-00-4	
Toluene-d8 (S)	98	%	75-125		1		12/18/17 16:01	2037-26-5	
1,2-Dichloroethane-d4 (S)	102	%	75-125		1		12/18/17 16:01	17060-07-0	

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ANALYTICAL RESULTS

Project: 34283.000 NPI

Pace Project No.: 40162410

Sample: RAW **Lab ID: 40162410008** Collected: 12/13/17 09:20 Received: 12/14/17 09:50 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
524.2 MSV		Analytical Method: EPA 524.2							
1,1-Dichloroethane	<0.14	ug/L	0.48	0.14	1		12/18/17 16:24	75-34-3	
1,1-Dichloroethene	<0.18	ug/L	0.60	0.18	1		12/18/17 16:24	75-35-4	
Tetrachloroethene	<0.12	ug/L	0.38	0.12	1		12/18/17 16:24	127-18-4	
1,1,1-Trichloroethane	<0.13	ug/L	0.44	0.13	1		12/18/17 16:24	71-55-6	
Trichloroethene	1.1	ug/L	0.36	0.11	1		12/18/17 16:24	79-01-6	
Surrogates									
4-Bromofluorobenzene (S)	89	%	75-125		1		12/18/17 16:24	460-00-4	
Toluene-d8 (S)	88	%	75-125		1		12/18/17 16:24	2037-26-5	
1,2-Dichloroethane-d4 (S)	99	%	75-125		1		12/18/17 16:24	17060-07-0	

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ANALYTICAL RESULTS

Project: 34283.000 NPI

Pace Project No.: 40162410

Sample: TOWER A **Lab ID: 40162410009** Collected: 12/13/17 09:22 Received: 12/14/17 09:50 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
524.2 MSV		Analytical Method: EPA 524.2							
1,1-Dichloroethane	<0.14	ug/L	0.48	0.14	1		12/18/17 16:47	75-34-3	
1,1-Dichloroethene	<0.18	ug/L	0.60	0.18	1		12/18/17 16:47	75-35-4	
Tetrachloroethene	<0.12	ug/L	0.38	0.12	1		12/18/17 16:47	127-18-4	
1,1,1-Trichloroethane	<0.13	ug/L	0.44	0.13	1		12/18/17 16:47	71-55-6	
Trichloroethene	<0.11	ug/L	0.36	0.11	1		12/18/17 16:47	79-01-6	
Surrogates									
4-Bromofluorobenzene (S)	94	%	75-125		1		12/18/17 16:47	460-00-4	
Toluene-d8 (S)	98	%	75-125		1		12/18/17 16:47	2037-26-5	
1,2-Dichloroethane-d4 (S)	100	%	75-125		1		12/18/17 16:47	17060-07-0	

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ANALYTICAL RESULTS

Project: 34283.000 NPI

Pace Project No.: 40162410

Sample: TOWER B **Lab ID: 40162410010** Collected: 12/13/17 09:18 Received: 12/14/17 09:50 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
524.2 MSV		Analytical Method: EPA 524.2							
1,1-Dichloroethane	<0.14	ug/L	0.48	0.14	1		12/18/17 17:11	75-34-3	
1,1-Dichloroethene	<0.18	ug/L	0.60	0.18	1		12/18/17 17:11	75-35-4	
Tetrachloroethene	<0.12	ug/L	0.38	0.12	1		12/18/17 17:11	127-18-4	
1,1,1-Trichloroethane	<0.13	ug/L	0.44	0.13	1		12/18/17 17:11	71-55-6	
Trichloroethene	<0.11	ug/L	0.36	0.11	1		12/18/17 17:11	79-01-6	
Surrogates									
4-Bromofluorobenzene (S)	94	%	75-125		1		12/18/17 17:11	460-00-4	
Toluene-d8 (S)	98	%	75-125		1		12/18/17 17:11	2037-26-5	
1,2-Dichloroethane-d4 (S)	102	%	75-125		1		12/18/17 17:11	17060-07-0	

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ANALYTICAL RESULTS

Project: 34283.000 NPI

Pace Project No.: 40162410

Sample: FINISHED PRODUCT **Lab ID: 40162410011** Collected: 12/13/17 09:10 Received: 12/14/17 09:50 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
524.2 MSV		Analytical Method: EPA 524.2							
1,1-Dichloroethane	<0.14	ug/L	0.48	0.14	1		12/18/17 17:34	75-34-3	
1,1-Dichloroethene	<0.18	ug/L	0.60	0.18	1		12/18/17 17:34	75-35-4	
Tetrachloroethene	<0.12	ug/L	0.38	0.12	1		12/18/17 17:34	127-18-4	
1,1,1-Trichloroethane	<0.13	ug/L	0.44	0.13	1		12/18/17 17:34	71-55-6	
Trichloroethene	<0.11	ug/L	0.36	0.11	1		12/18/17 17:34	79-01-6	
Surrogates									
4-Bromofluorobenzene (S)	93	%	75-125		1		12/18/17 17:34	460-00-4	
Toluene-d8 (S)	93	%	75-125		1		12/18/17 17:34	2037-26-5	
1,2-Dichloroethane-d4 (S)	101	%	75-125		1		12/18/17 17:34	17060-07-0	

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ANALYTICAL RESULTS

Project: 34283.000 NPI

Pace Project No.: 40162410

Sample: TRIP BLANK **Lab ID: 40162410012** Collected: 12/13/17 00:00 Received: 12/14/17 09:50 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
524.2 MSV		Analytical Method: EPA 524.2							
1,1-Dichloroethane	<0.14	ug/L	0.48	0.14	1		12/18/17 12:53	75-34-3	
1,1-Dichloroethene	<0.18	ug/L	0.60	0.18	1		12/18/17 12:53	75-35-4	
Tetrachloroethene	<0.12	ug/L	0.38	0.12	1		12/18/17 12:53	127-18-4	
1,1,1-Trichloroethane	<0.13	ug/L	0.44	0.13	1		12/18/17 12:53	71-55-6	
Trichloroethene	<0.11	ug/L	0.36	0.11	1		12/18/17 12:53	79-01-6	
Surrogates									
4-Bromofluorobenzene (S)	97	%	75-125		1		12/18/17 12:53	460-00-4	
Toluene-d8 (S)	96	%	75-125		1		12/18/17 12:53	2037-26-5	
1,2-Dichloroethane-d4 (S)	99	%	75-125		1		12/18/17 12:53	17060-07-0	

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QUALITY CONTROL DATA

Project: 34283.000 NPI
Pace Project No.: 40162410

QC Batch: 514228 Analysis Method: EPA 524.2
QC Batch Method: EPA 524.2 Analysis Description: 524.2 MSV
Associated Lab Samples: 40162410001, 40162410002, 40162410003, 40162410004, 40162410005, 40162410006, 40162410007, 40162410008, 40162410009, 40162410010, 40162410011, 40162410012

METHOD BLANK: 2796437 Matrix: Water
Associated Lab Samples: 40162410001, 40162410002, 40162410003, 40162410004, 40162410005, 40162410006, 40162410007, 40162410008, 40162410009, 40162410010, 40162410011, 40162410012

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	<0.13	0.44	12/18/17 12:29	
1,1-Dichloroethane	ug/L	<0.14	0.48	12/18/17 12:29	
1,1-Dichloroethene	ug/L	<0.18	0.60	12/18/17 12:29	
Tetrachloroethene	ug/L	<0.12	0.38	12/18/17 12:29	
Trichloroethene	ug/L	<0.11	0.36	12/18/17 12:29	
1,2-Dichloroethane-d4 (S)	%	99	75-125	12/18/17 12:29	
4-Bromofluorobenzene (S)	%	95	75-125	12/18/17 12:29	
Toluene-d8 (S)	%	98	75-125	12/18/17 12:29	

LABORATORY CONTROL SAMPLE & LCSD: 2796438		2796439								
Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
1,1,1-Trichloroethane	ug/L	20	21.4	21.1	107	106	70-130	1	20	
1,1-Dichloroethane	ug/L	20	19.2	17.5	96	88	70-130	9	20	
1,1-Dichloroethene	ug/L	20	18.2	18.2	91	91	70-130	0	20	
Tetrachloroethene	ug/L	20	20.2	19.6	101	98	70-130	3	20	
Trichloroethene	ug/L	20	20.8	19.7	104	99	70-130	5	20	
1,2-Dichloroethane-d4 (S)	%				96	94	75-125			
4-Bromofluorobenzene (S)	%				92	88	75-125			
Toluene-d8 (S)	%				96	99	75-125			

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2797561		2797562													
Parameter	Units	10414843002		MS		MSD		MS		MSD		% Rec Limits	RPD	Max RPD	Qual
		Result	Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec							
1,1,1-Trichloroethane	ug/L	ND	20	20	24.9	20.4	124	102	70-130	19	20				
1,1-Dichloroethane	ug/L	0.64	20	20	19.5	19.8	94	96	70-130	1	20				
1,1-Dichloroethene	ug/L	ND	20	20	22.6	20.6	113	103	70-130	9	20				
Tetrachloroethene	ug/L	ND	20	20	22.7	19.4	114	97	70-130	16	20				
Trichloroethene	ug/L	11.5	20	20	34.9	32.8	117	106	70-130	6	20				
1,2-Dichloroethane-d4 (S)	%						93	93	75-125						
4-Bromofluorobenzene (S)	%						95	95	75-125						
Toluene-d8 (S)	%						96	96	75-125						

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: 34283.000 NPI

Pace Project No.: 40162410

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.

LABORATORIES

PASI-M Pace Analytical Services - Minneapolis

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 34283.000 NPI

Pace Project No.: 40162410

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40162410001	CW-11	EPA 524.2	514228		
40162410002	CW-15	EPA 524.2	514228		
40162410003	CW-16	EPA 524.2	514228		
40162410004	CW-17	EPA 524.2	514228		
40162410005	CW-19	EPA 524.2	514228		
40162410006	CW-22	EPA 524.2	514228		
40162410007	CW-23	EPA 524.2	514228		
40162410008	RAW	EPA 524.2	514228		
40162410009	TOWER A	EPA 524.2	514228		
40162410010	TOWER B	EPA 524.2	514228		
40162410011	FINISHED PRODUCT	EPA 524.2	514228		
40162410012	TRIP BLANK	EPA 524.2	514228		

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Sample Condition Upon Receipt

Pace Analytical Services, LLC. - Green Bay WI
1241 Bellevue Street, Suite 9
Green Bay, WI 54302

Client Name: Garnett Fleming

Project #: WO#: 40162410
Barcode: 40162410

Courier: [X] Fed Ex [] UPS [] Client [] Pace Other:
Tracking #: 9120 5484 6087

Custody Seal on Cooler/Box Present: [] yes [X] no Seals intact: [] yes [] no

Custody Seal on Samples Present: [] yes [X] no Seals intact: [] yes [] no

Packing Material: [] Bubble Wrap [X] Bubble Bags [] None [] Other

Thermometer Used: N/A Type of Ice: [X] Wet [] Blue [] Dry [] None [X] Samples on ice, cooling process has begun

Cooler Temperature: Uncorr: MBT ICorr: Biological Tissue is Frozen: [] yes [] no

Temp Blank Present: [] yes [X] no

Temp should be above freezing to 6°C.
Biota Samples may be received at ≤ 0°C.

Person examining contents:
Date: 12/14/17
Initials: SSN

Comments:

Table with 15 rows of inspection items and checkboxes. Items include Chain of Custody Present, Short Hold Time Analysis, Rush Turn Around Time Requested, Sufficient Volume, Containers Intact, Filtered volume received for Dissolved tests, Sample Labels match COC, All containers needing preservation have been checked, Headspace in VOA Vials (>6mm), Trip Blank Present.

Client Notification/ Resolution: If checked, see attached form for additional comments
Person Contacted: Date/Time:
Comments/ Resolution:

Project Manager Review: AC for DM Date: 12-14-17

December 21, 2017

Project #34283.000
NPI Q4 GW
Reviewed by CCW
12/22/17

Clifford Wright
Gannett Fleming
8025 Excelsior Drive
Madison, WI 53717

RE: Project: 34283.000 NPI
Pace Project No.: 40162418

Dear Clifford Wright:

Enclosed are the analytical results for sample(s) received by the laboratory on December 14, 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

cc: Mary C. Wehbe, MCW Scientific Solutions



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: 34283.000 NPI

Pace Project No.: 40162418

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

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SAMPLE SUMMARY

Project: 34283.000 NPI

Pace Project No.: 40162418

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40162418001	EC-1	Water	12/13/17 10:00	12/14/17 09:50
40162418002	EW-5 H	Water	12/13/17 08:05	12/14/17 09:50
40162418003	EW-5 L	Water	12/13/17 08:10	12/14/17 09:50
40162418004	EW-6	Water	12/13/17 10:40	12/14/17 09:50
40162418005	EW-6 DUP	Water	12/13/17 10:40	12/14/17 09:50
40162418006	EC-1 DUP	Water	12/13/17 10:00	12/14/17 09:50
40162418007	MW-26 B	Water	12/13/17 14:35	12/14/17 09:50
40162418008	MW-38 B	Water	12/13/17 13:30	12/14/17 09:50
40162418009	MW-68 B	Water	12/13/17 11:35	12/14/17 09:50
40162418010	MW-74 A	Water	12/13/17 11:25	12/14/17 09:50
40162418011	MW-74 B	Water	12/13/17 11:30	12/14/17 09:50
40162418012	MW-76 A	Water	12/13/17 10:50	12/14/17 09:50
40162418013	MW-76 B	Water	12/13/17 08:45	12/14/17 09:50
40162418014	MW-77 A	Water	12/13/17 11:00	12/14/17 09:50
40162418015	MW-77 B	Water	12/13/17 11:05	12/14/17 09:50
40162418016	MW-77 C	Water	12/13/17 11:10	12/14/17 09:50
40162418017	RW-15	Water	12/13/17 13:45	12/14/17 09:50
40162418018	RW-15 DUP	Water	12/13/17 13:45	12/14/17 09:50
40162418019	MW-65 B	Water	12/13/17 12:15	12/14/17 09:50
40162418020	MW-65 C	Water	12/13/17 12:10	12/14/17 09:50

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: 34283.000 NPI
Pace Project No.: 40162418

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
40162418001	EC-1	EPA 8260	HNW	8	PASI-G
40162418002	EW-5 H	EPA 6010	JLD	1	PASI-G
		EPA 8260	HNW	8	PASI-G
40162418003	EW-5 L	EPA 6010	JLD	1	PASI-G
		EPA 8260	HNW	8	PASI-G
40162418004	EW-6	EPA 6010	JLD	1	PASI-G
		EPA 8260	HNW	8	PASI-G
40162418005	EW-6 DUP	EPA 8260	LAP	8	PASI-G
40162418006	EC-1 DUP	EPA 8260	LAP	8	PASI-G
40162418007	MW-26 B	EPA 8260	LAP	8	PASI-G
40162418008	MW-38 B	EPA 8260	LAP	8	PASI-G
40162418009	MW-68 B	EPA 6010	JLD	1	PASI-G
		EPA 8260	LAP	8	PASI-G
40162418010	MW-74 A	EPA 8260	LAP	8	PASI-G
40162418011	MW-74 B	EPA 8260	LAP	8	PASI-G
40162418012	MW-76 A	EPA 8260	HNW	8	PASI-G
40162418013	MW-76 B	EPA 8260	LAP	8	PASI-G
40162418014	MW-77 A	EPA 8260	LAP	8	PASI-G
40162418015	MW-77 B	EPA 8260	LAP	8	PASI-G
40162418016	MW-77 C	EPA 8260	LAP	8	PASI-G
40162418017	RW-15	EPA 8260	LAP	8	PASI-G
40162418018	RW-15 DUP	EPA 8260	LAP	8	PASI-G
40162418019	MW-65 B	EPA 8260	LAP	8	PASI-G
40162418020	MW-65 C	EPA 8260	LAP	8	PASI-G

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: 34283.000 NPI
Pace Project No.: 40162418

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
40162418001	EC-1					
EPA 8260	Trichloroethene	1.6	ug/L	1.0	12/15/17 18:16	
40162418002	EW-5 H					
EPA 8260	Trichloroethene	0.64J	ug/L	1.0	12/15/17 18:38	
40162418003	EW-5 L					
EPA 8260	Trichloroethene	0.36J	ug/L	1.0	12/15/17 19:00	
40162418004	EW-6					
EPA 8260	1,1,1-Trichloroethane	1.1	ug/L	1.0	12/15/17 19:22	
EPA 8260	Trichloroethene	0.65J	ug/L	1.0	12/15/17 19:22	
40162418005	EW-6 DUP					
EPA 8260	1,1,1-Trichloroethane	1.4	ug/L	1.0	12/18/17 22:40	
EPA 8260	Trichloroethene	0.76J	ug/L	1.0	12/18/17 22:40	
40162418006	EC-1 DUP					
EPA 8260	Trichloroethene	1.6	ug/L	1.0	12/18/17 23:02	
40162418007	MW-26 B					
EPA 8260	Trichloroethene	0.60J	ug/L	1.0	12/18/17 14:26	
40162418008	MW-38 B					
EPA 8260	1,1,1-Trichloroethane	0.54J	ug/L	1.0	12/18/17 09:39	
EPA 8260	Trichloroethene	3.0	ug/L	1.0	12/18/17 09:39	
40162418009	MW-68 B					
EPA 6010	Cadmium, Dissolved	2.5J	ug/L	5.0	12/15/17 18:38	
40162418015	MW-77 B					
EPA 8260	Trichloroethene	2.1	ug/L	1.0	12/18/17 21:56	
40162418016	MW-77 C					
EPA 8260	Trichloroethene	0.72J	ug/L	1.0	12/18/17 22:18	
40162418017	RW-15					
EPA 8260	1,1,1-Trichloroethane	0.61J	ug/L	1.0	12/18/17 12:13	
EPA 8260	Trichloroethene	3.6	ug/L	1.0	12/18/17 12:13	
40162418018	RW-15 DUP					
EPA 8260	1,1,1-Trichloroethane	0.58J	ug/L	1.0	12/18/17 23:24	
EPA 8260	Trichloroethene	3.8	ug/L	1.0	12/18/17 23:24	
40162418020	MW-65 C					
EPA 8260	Trichloroethene	0.73J	ug/L	1.0	12/18/17 12:57	

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: 34283.000 NPI
Pace Project No.: 40162418

Date: December 21, 2017

The trip blanks received in this cooler were listed on two COC's, but analyzed by Method 524.2 and reported on 40162410.

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: 34283.000 NPI

Pace Project No.: 40162418

Method: EPA 6010

Description: 6010 MET ICP, Dissolved

Client: Gannett Fleming Inc.

Date: December 21, 2017

General Information:

2 samples were analyzed for EPA 6010. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:

The samples were prepared in accordance with EPA 3010 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: 34283.000 NPI

Pace Project No.: 40162418

Method: EPA 6010

Description: 6010 MET ICP, Dissolved

Client: Gannett Fleming Inc.

Date: December 21, 2017

General Information:

2 samples were analyzed for EPA 6010. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: 34283.000 NPI
Pace Project No.: 40162418

Method: EPA 8260
Description: 8260 MSV
Client: Gannett Fleming Inc.
Date: December 21, 2017

General Information:

20 samples were analyzed for EPA 8260. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

Internal Standards:

All internal standards were within QC limits with any exceptions noted below.

Surrogates:

All surrogates were within QC limits with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 34283.000 NPI

Pace Project No.: 40162418

Sample: EC-1 **Lab ID: 40162418001** Collected: 12/13/17 10:00 Received: 12/14/17 09:50 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260							
1,1,1-Trichloroethane	<0.50	ug/L	1.0	0.50	1		12/15/17 18:16	71-55-6	
1,1-Dichloroethane	<0.24	ug/L	1.0	0.24	1		12/15/17 18:16	75-34-3	
1,1-Dichloroethene	<0.41	ug/L	1.0	0.41	1		12/15/17 18:16	75-35-4	
Tetrachloroethene	<0.50	ug/L	1.0	0.50	1		12/15/17 18:16	127-18-4	
Trichloroethene	1.6	ug/L	1.0	0.33	1		12/15/17 18:16	79-01-6	
Surrogates									
4-Bromofluorobenzene (S)	89	%	61-130		1		12/15/17 18:16	460-00-4	
Dibromofluoromethane (S)	105	%	67-130		1		12/15/17 18:16	1868-53-7	
Toluene-d8 (S)	100	%	70-130		1		12/15/17 18:16	2037-26-5	

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ANALYTICAL RESULTS

Project: 34283.000 NPI

Pace Project No.: 40162418

Sample: EW-5 H **Lab ID: 40162418002** Collected: 12/13/17 08:05 Received: 12/14/17 09:50 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, Dissolved		Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Cadmium, Dissolved	<1.3	ug/L	5.0	1.3	1	12/18/17 09:15	12/18/17 16:28	7440-43-9	
8260 MSV		Analytical Method: EPA 8260							
1,1,1-Trichloroethane	<0.50	ug/L	1.0	0.50	1		12/15/17 18:38	71-55-6	
1,1-Dichloroethane	<0.24	ug/L	1.0	0.24	1		12/15/17 18:38	75-34-3	
1,1-Dichloroethene	<0.41	ug/L	1.0	0.41	1		12/15/17 18:38	75-35-4	
Tetrachloroethene	<0.50	ug/L	1.0	0.50	1		12/15/17 18:38	127-18-4	
Trichloroethene	0.64J	ug/L	1.0	0.33	1		12/15/17 18:38	79-01-6	
Surrogates									
4-Bromofluorobenzene (S)	91	%	61-130		1		12/15/17 18:38	460-00-4	
Dibromofluoromethane (S)	104	%	67-130		1		12/15/17 18:38	1868-53-7	
Toluene-d8 (S)	102	%	70-130		1		12/15/17 18:38	2037-26-5	

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ANALYTICAL RESULTS

Project: 34283.000 NPI

Pace Project No.: 40162418

Sample: EW-5 L **Lab ID: 40162418003** Collected: 12/13/17 08:10 Received: 12/14/17 09:50 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, Dissolved		Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Cadmium, Dissolved	<1.3	ug/L	5.0	1.3	1	12/18/17 09:15	12/18/17 16:31	7440-43-9	
8260 MSV		Analytical Method: EPA 8260							
1,1,1-Trichloroethane	<0.50	ug/L	1.0	0.50	1		12/15/17 19:00	71-55-6	
1,1-Dichloroethane	<0.24	ug/L	1.0	0.24	1		12/15/17 19:00	75-34-3	
1,1-Dichloroethene	<0.41	ug/L	1.0	0.41	1		12/15/17 19:00	75-35-4	
Tetrachloroethene	<0.50	ug/L	1.0	0.50	1		12/15/17 19:00	127-18-4	
Trichloroethene	0.36J	ug/L	1.0	0.33	1		12/15/17 19:00	79-01-6	
Surrogates									
4-Bromofluorobenzene (S)	91	%	61-130		1		12/15/17 19:00	460-00-4	
Dibromofluoromethane (S)	104	%	67-130		1		12/15/17 19:00	1868-53-7	
Toluene-d8 (S)	100	%	70-130		1		12/15/17 19:00	2037-26-5	

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ANALYTICAL RESULTS

Project: 34283.000 NPI

Pace Project No.: 40162418

Sample: EW-6 **Lab ID: 40162418004** Collected: 12/13/17 10:40 Received: 12/14/17 09:50 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, Dissolved		Analytical Method: EPA 6010							
Cadmium, Dissolved	<1.3	ug/L	5.0	1.3	1		12/15/17 18:35	7440-43-9	
8260 MSV		Analytical Method: EPA 8260							
1,1,1-Trichloroethane	1.1	ug/L	1.0	0.50	1		12/15/17 19:22	71-55-6	
1,1-Dichloroethane	<0.24	ug/L	1.0	0.24	1		12/15/17 19:22	75-34-3	
1,1-Dichloroethene	<0.41	ug/L	1.0	0.41	1		12/15/17 19:22	75-35-4	
Tetrachloroethene	<0.50	ug/L	1.0	0.50	1		12/15/17 19:22	127-18-4	
Trichloroethene	0.65J	ug/L	1.0	0.33	1		12/15/17 19:22	79-01-6	
Surrogates									
4-Bromofluorobenzene (S)	93	%	61-130		1		12/15/17 19:22	460-00-4	
Dibromofluoromethane (S)	105	%	67-130		1		12/15/17 19:22	1868-53-7	
Toluene-d8 (S)	100	%	70-130		1		12/15/17 19:22	2037-26-5	

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ANALYTICAL RESULTS

Project: 34283.000 NPI

Pace Project No.: 40162418

Sample: EW-6 DUP **Lab ID: 40162418005** Collected: 12/13/17 10:40 Received: 12/14/17 09:50 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260							
1,1,1-Trichloroethane	1.4	ug/L	1.0	0.50	1		12/18/17 22:40	71-55-6	
1,1-Dichloroethane	<0.24	ug/L	1.0	0.24	1		12/18/17 22:40	75-34-3	
1,1-Dichloroethene	<0.41	ug/L	1.0	0.41	1		12/18/17 22:40	75-35-4	
Tetrachloroethene	<0.50	ug/L	1.0	0.50	1		12/18/17 22:40	127-18-4	
Trichloroethene	0.76J	ug/L	1.0	0.33	1		12/18/17 22:40	79-01-6	
Surrogates									
4-Bromofluorobenzene (S)	86	%	61-130		1		12/18/17 22:40	460-00-4	
Dibromofluoromethane (S)	112	%	67-130		1		12/18/17 22:40	1868-53-7	
Toluene-d8 (S)	103	%	70-130		1		12/18/17 22:40	2037-26-5	

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ANALYTICAL RESULTS

Project: 34283.000 NPI

Pace Project No.: 40162418

Sample: EC-1 DUP **Lab ID: 40162418006** Collected: 12/13/17 10:00 Received: 12/14/17 09:50 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260							
1,1,1-Trichloroethane	<0.50	ug/L	1.0	0.50	1		12/18/17 23:02	71-55-6	
1,1-Dichloroethane	<0.24	ug/L	1.0	0.24	1		12/18/17 23:02	75-34-3	
1,1-Dichloroethene	<0.41	ug/L	1.0	0.41	1		12/18/17 23:02	75-35-4	
Tetrachloroethene	<0.50	ug/L	1.0	0.50	1		12/18/17 23:02	127-18-4	
Trichloroethene	1.6	ug/L	1.0	0.33	1		12/18/17 23:02	79-01-6	
Surrogates									
4-Bromofluorobenzene (S)	82	%	61-130		1		12/18/17 23:02	460-00-4	
Dibromofluoromethane (S)	109	%	67-130		1		12/18/17 23:02	1868-53-7	
Toluene-d8 (S)	104	%	70-130		1		12/18/17 23:02	2037-26-5	

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ANALYTICAL RESULTS

Project: 34283.000 NPI

Pace Project No.: 40162418

Sample: MW-26 B **Lab ID: 40162418007** Collected: 12/13/17 14:35 Received: 12/14/17 09:50 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260							
1,1,1-Trichloroethane	<0.50	ug/L	1.0	0.50	1		12/18/17 14:26	71-55-6	
1,1-Dichloroethane	<0.24	ug/L	1.0	0.24	1		12/18/17 14:26	75-34-3	
1,1-Dichloroethene	<0.41	ug/L	1.0	0.41	1		12/18/17 14:26	75-35-4	
Tetrachloroethene	<0.50	ug/L	1.0	0.50	1		12/18/17 14:26	127-18-4	
Trichloroethene	0.60J	ug/L	1.0	0.33	1		12/18/17 14:26	79-01-6	
Surrogates									
4-Bromofluorobenzene (S)	84	%	61-130		1		12/18/17 14:26	460-00-4	
Dibromofluoromethane (S)	113	%	67-130		1		12/18/17 14:26	1868-53-7	
Toluene-d8 (S)	105	%	70-130		1		12/18/17 14:26	2037-26-5	

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ANALYTICAL RESULTS

Project: 34283.000 NPI

Pace Project No.: 40162418

Sample: MW-38 B **Lab ID: 40162418008** Collected: 12/13/17 13:30 Received: 12/14/17 09:50 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260							
1,1,1-Trichloroethane	0.54J	ug/L	1.0	0.50	1		12/18/17 09:39	71-55-6	
1,1-Dichloroethane	<0.24	ug/L	1.0	0.24	1		12/18/17 09:39	75-34-3	
1,1-Dichloroethene	<0.41	ug/L	1.0	0.41	1		12/18/17 09:39	75-35-4	
Tetrachloroethene	<0.50	ug/L	1.0	0.50	1		12/18/17 09:39	127-18-4	
Trichloroethene	3.0	ug/L	1.0	0.33	1		12/18/17 09:39	79-01-6	
Surrogates									
4-Bromofluorobenzene (S)	87	%	61-130		1		12/18/17 09:39	460-00-4	
Dibromofluoromethane (S)	106	%	67-130		1		12/18/17 09:39	1868-53-7	
Toluene-d8 (S)	105	%	70-130		1		12/18/17 09:39	2037-26-5	

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ANALYTICAL RESULTS

Project: 34283.000 NPI

Pace Project No.: 40162418

Sample: MW-68 B **Lab ID: 40162418009** Collected: 12/13/17 11:35 Received: 12/14/17 09:50 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, Dissolved		Analytical Method: EPA 6010							
Cadmium, Dissolved	2.5J	ug/L	5.0	1.3	1		12/15/17 18:38	7440-43-9	
8260 MSV		Analytical Method: EPA 8260							
1,1,1-Trichloroethane	<0.50	ug/L	1.0	0.50	1		12/18/17 13:19	71-55-6	
1,1-Dichloroethane	<0.24	ug/L	1.0	0.24	1		12/18/17 13:19	75-34-3	
1,1-Dichloroethene	<0.41	ug/L	1.0	0.41	1		12/18/17 13:19	75-35-4	
Tetrachloroethene	<0.50	ug/L	1.0	0.50	1		12/18/17 13:19	127-18-4	
Trichloroethene	<0.33	ug/L	1.0	0.33	1		12/18/17 13:19	79-01-6	
Surrogates									
4-Bromofluorobenzene (S)	84	%	61-130		1		12/18/17 13:19	460-00-4	
Dibromofluoromethane (S)	111	%	67-130		1		12/18/17 13:19	1868-53-7	
Toluene-d8 (S)	104	%	70-130		1		12/18/17 13:19	2037-26-5	

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ANALYTICAL RESULTS

Project: 34283.000 NPI

Pace Project No.: 40162418

Sample: MW-74 A **Lab ID: 40162418010** Collected: 12/13/17 11:25 Received: 12/14/17 09:50 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260							
1,1,1-Trichloroethane	<0.50	ug/L	1.0	0.50	1		12/18/17 13:42	71-55-6	
1,1-Dichloroethane	<0.24	ug/L	1.0	0.24	1		12/18/17 13:42	75-34-3	
1,1-Dichloroethene	<0.41	ug/L	1.0	0.41	1		12/18/17 13:42	75-35-4	
Tetrachloroethene	<0.50	ug/L	1.0	0.50	1		12/18/17 13:42	127-18-4	
Trichloroethene	<0.33	ug/L	1.0	0.33	1		12/18/17 13:42	79-01-6	
Surrogates									
4-Bromofluorobenzene (S)	84	%	61-130		1		12/18/17 13:42	460-00-4	
Dibromofluoromethane (S)	108	%	67-130		1		12/18/17 13:42	1868-53-7	
Toluene-d8 (S)	104	%	70-130		1		12/18/17 13:42	2037-26-5	

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ANALYTICAL RESULTS

Project: 34283.000 NPI

Pace Project No.: 40162418

Sample: MW-74 B **Lab ID: 40162418011** Collected: 12/13/17 11:30 Received: 12/14/17 09:50 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260							
1,1,1-Trichloroethane	<0.50	ug/L	1.0	0.50	1		12/18/17 14:04	71-55-6	
1,1-Dichloroethane	<0.24	ug/L	1.0	0.24	1		12/18/17 14:04	75-34-3	
1,1-Dichloroethene	<0.41	ug/L	1.0	0.41	1		12/18/17 14:04	75-35-4	
Tetrachloroethene	<0.50	ug/L	1.0	0.50	1		12/18/17 14:04	127-18-4	
Trichloroethene	<0.33	ug/L	1.0	0.33	1		12/18/17 14:04	79-01-6	
Surrogates									
4-Bromofluorobenzene (S)	84	%	61-130		1		12/18/17 14:04	460-00-4	
Dibromofluoromethane (S)	109	%	67-130		1		12/18/17 14:04	1868-53-7	
Toluene-d8 (S)	102	%	70-130		1		12/18/17 14:04	2037-26-5	

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ANALYTICAL RESULTS

Project: 34283.000 NPI

Pace Project No.: 40162418

Sample: MW-76 A **Lab ID: 40162418012** Collected: 12/13/17 10:50 Received: 12/14/17 09:50 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260							
1,1,1-Trichloroethane	<0.50	ug/L	1.0	0.50	1		12/19/17 10:35	71-55-6	
1,1-Dichloroethane	<0.24	ug/L	1.0	0.24	1		12/19/17 10:35	75-34-3	
1,1-Dichloroethene	<0.41	ug/L	1.0	0.41	1		12/19/17 10:35	75-35-4	
Tetrachloroethene	<0.50	ug/L	1.0	0.50	1		12/19/17 10:35	127-18-4	
Trichloroethene	<0.33	ug/L	1.0	0.33	1		12/19/17 10:35	79-01-6	
Surrogates									
4-Bromofluorobenzene (S)	92	%	61-130		1		12/19/17 10:35	460-00-4	
Dibromofluoromethane (S)	100	%	67-130		1		12/19/17 10:35	1868-53-7	
Toluene-d8 (S)	96	%	70-130		1		12/19/17 10:35	2037-26-5	

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ANALYTICAL RESULTS

Project: 34283.000 NPI

Pace Project No.: 40162418

Sample: MW-76 B **Lab ID: 40162418013** Collected: 12/13/17 08:45 Received: 12/14/17 09:50 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260							
1,1,1-Trichloroethane	<0.50	ug/L	1.0	0.50	1		12/18/17 10:01	71-55-6	
1,1-Dichloroethane	<0.24	ug/L	1.0	0.24	1		12/18/17 10:01	75-34-3	
1,1-Dichloroethene	<0.41	ug/L	1.0	0.41	1		12/18/17 10:01	75-35-4	
Tetrachloroethene	<0.50	ug/L	1.0	0.50	1		12/18/17 10:01	127-18-4	
Trichloroethene	<0.33	ug/L	1.0	0.33	1		12/18/17 10:01	79-01-6	
Surrogates									
4-Bromofluorobenzene (S)	90	%	61-130		1		12/18/17 10:01	460-00-4	
Dibromofluoromethane (S)	107	%	67-130		1		12/18/17 10:01	1868-53-7	
Toluene-d8 (S)	110	%	70-130		1		12/18/17 10:01	2037-26-5	

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ANALYTICAL RESULTS

Project: 34283.000 NPI

Pace Project No.: 40162418

Sample: MW-77 A **Lab ID: 40162418014** Collected: 12/13/17 11:00 Received: 12/14/17 09:50 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260							
1,1,1-Trichloroethane	<0.50	ug/L	1.0	0.50	1		12/18/17 10:23	71-55-6	
1,1-Dichloroethane	<0.24	ug/L	1.0	0.24	1		12/18/17 10:23	75-34-3	
1,1-Dichloroethene	<0.41	ug/L	1.0	0.41	1		12/18/17 10:23	75-35-4	
Tetrachloroethene	<0.50	ug/L	1.0	0.50	1		12/18/17 10:23	127-18-4	
Trichloroethene	<0.33	ug/L	1.0	0.33	1		12/18/17 10:23	79-01-6	
Surrogates									
4-Bromofluorobenzene (S)	85	%	61-130		1		12/18/17 10:23	460-00-4	
Dibromofluoromethane (S)	107	%	67-130		1		12/18/17 10:23	1868-53-7	
Toluene-d8 (S)	104	%	70-130		1		12/18/17 10:23	2037-26-5	

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ANALYTICAL RESULTS

Project: 34283.000 NPI

Pace Project No.: 40162418

Sample: MW-77 B **Lab ID: 40162418015** Collected: 12/13/17 11:05 Received: 12/14/17 09:50 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260							
1,1,1-Trichloroethane	<0.50	ug/L	1.0	0.50	1		12/18/17 21:56	71-55-6	
1,1-Dichloroethane	<0.24	ug/L	1.0	0.24	1		12/18/17 21:56	75-34-3	
1,1-Dichloroethene	<0.41	ug/L	1.0	0.41	1		12/18/17 21:56	75-35-4	
Tetrachloroethene	<0.50	ug/L	1.0	0.50	1		12/18/17 21:56	127-18-4	
Trichloroethene	2.1	ug/L	1.0	0.33	1		12/18/17 21:56	79-01-6	
Surrogates									
4-Bromofluorobenzene (S)	75	%	61-130		1		12/18/17 21:56	460-00-4	
Dibromofluoromethane (S)	115	%	67-130		1		12/18/17 21:56	1868-53-7	
Toluene-d8 (S)	102	%	70-130		1		12/18/17 21:56	2037-26-5	

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ANALYTICAL RESULTS

Project: 34283.000 NPI

Pace Project No.: 40162418

Sample: MW-77 C **Lab ID: 40162418016** Collected: 12/13/17 11:10 Received: 12/14/17 09:50 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260							
1,1,1-Trichloroethane	<0.50	ug/L	1.0	0.50	1		12/18/17 22:18	71-55-6	
1,1-Dichloroethane	<0.24	ug/L	1.0	0.24	1		12/18/17 22:18	75-34-3	
1,1-Dichloroethene	<0.41	ug/L	1.0	0.41	1		12/18/17 22:18	75-35-4	
Tetrachloroethene	<0.50	ug/L	1.0	0.50	1		12/18/17 22:18	127-18-4	
Trichloroethene	0.72J	ug/L	1.0	0.33	1		12/18/17 22:18	79-01-6	
Surrogates									
4-Bromofluorobenzene (S)	87	%	61-130		1		12/18/17 22:18	460-00-4	
Dibromofluoromethane (S)	109	%	67-130		1		12/18/17 22:18	1868-53-7	
Toluene-d8 (S)	107	%	70-130		1		12/18/17 22:18	2037-26-5	

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ANALYTICAL RESULTS

Project: 34283.000 NPI

Pace Project No.: 40162418

Sample: RW-15 **Lab ID: 40162418017** Collected: 12/13/17 13:45 Received: 12/14/17 09:50 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260							
1,1,1-Trichloroethane	0.61J	ug/L	1.0	0.50	1		12/18/17 12:13	71-55-6	
1,1-Dichloroethane	<0.24	ug/L	1.0	0.24	1		12/18/17 12:13	75-34-3	
1,1-Dichloroethene	<0.41	ug/L	1.0	0.41	1		12/18/17 12:13	75-35-4	
Tetrachloroethene	<0.50	ug/L	1.0	0.50	1		12/18/17 12:13	127-18-4	
Trichloroethene	3.6	ug/L	1.0	0.33	1		12/18/17 12:13	79-01-6	
Surrogates									
4-Bromofluorobenzene (S)	88	%	61-130		1		12/18/17 12:13	460-00-4	
Dibromofluoromethane (S)	109	%	67-130		1		12/18/17 12:13	1868-53-7	
Toluene-d8 (S)	108	%	70-130		1		12/18/17 12:13	2037-26-5	

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ANALYTICAL RESULTS

Project: 34283.000 NPI

Pace Project No.: 40162418

Sample: RW-15 DUP **Lab ID: 40162418018** Collected: 12/13/17 13:45 Received: 12/14/17 09:50 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260							
1,1,1-Trichloroethane	0.58J	ug/L	1.0	0.50	1		12/18/17 23:24	71-55-6	
1,1-Dichloroethane	<0.24	ug/L	1.0	0.24	1		12/18/17 23:24	75-34-3	
1,1-Dichloroethene	<0.41	ug/L	1.0	0.41	1		12/18/17 23:24	75-35-4	
Tetrachloroethene	<0.50	ug/L	1.0	0.50	1		12/18/17 23:24	127-18-4	
Trichloroethene	3.8	ug/L	1.0	0.33	1		12/18/17 23:24	79-01-6	
Surrogates									
4-Bromofluorobenzene (S)	85	%	61-130		1		12/18/17 23:24	460-00-4	
Dibromofluoromethane (S)	111	%	67-130		1		12/18/17 23:24	1868-53-7	
Toluene-d8 (S)	104	%	70-130		1		12/18/17 23:24	2037-26-5	

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ANALYTICAL RESULTS

Project: 34283.000 NPI

Pace Project No.: 40162418

Sample: MW-65 B **Lab ID: 40162418019** Collected: 12/13/17 12:15 Received: 12/14/17 09:50 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260							
1,1,1-Trichloroethane	<0.50	ug/L	1.0	0.50	1		12/18/17 12:36	71-55-6	
1,1-Dichloroethane	<0.24	ug/L	1.0	0.24	1		12/18/17 12:36	75-34-3	
1,1-Dichloroethene	<0.41	ug/L	1.0	0.41	1		12/18/17 12:36	75-35-4	
Tetrachloroethene	<0.50	ug/L	1.0	0.50	1		12/18/17 12:36	127-18-4	
Trichloroethene	<0.33	ug/L	1.0	0.33	1		12/18/17 12:36	79-01-6	
Surrogates									
4-Bromofluorobenzene (S)	85	%	61-130		1		12/18/17 12:36	460-00-4	
Dibromofluoromethane (S)	109	%	67-130		1		12/18/17 12:36	1868-53-7	
Toluene-d8 (S)	106	%	70-130		1		12/18/17 12:36	2037-26-5	

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ANALYTICAL RESULTS

Project: 34283.000 NPI

Pace Project No.: 40162418

Sample: MW-65 C **Lab ID: 40162418020** Collected: 12/13/17 12:10 Received: 12/14/17 09:50 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260							
1,1,1-Trichloroethane	<0.50	ug/L	1.0	0.50	1		12/18/17 12:57	71-55-6	
1,1-Dichloroethane	<0.24	ug/L	1.0	0.24	1		12/18/17 12:57	75-34-3	
1,1-Dichloroethene	<0.41	ug/L	1.0	0.41	1		12/18/17 12:57	75-35-4	
Tetrachloroethene	<0.50	ug/L	1.0	0.50	1		12/18/17 12:57	127-18-4	
Trichloroethene	0.73J	ug/L	1.0	0.33	1		12/18/17 12:57	79-01-6	
Surrogates									
4-Bromofluorobenzene (S)	82	%	61-130		1		12/18/17 12:57	460-00-4	
Dibromofluoromethane (S)	109	%	67-130		1		12/18/17 12:57	1868-53-7	
Toluene-d8 (S)	104	%	70-130		1		12/18/17 12:57	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 34283.000 NPI
Pace Project No.: 40162418

QC Batch: 277288 Analysis Method: EPA 6010
QC Batch Method: EPA 6010 Analysis Description: ICP Metals, Trace, Dissolved
Associated Lab Samples: 40162418004, 40162418009

METHOD BLANK: 1630164 Matrix: Water
Associated Lab Samples: 40162418004, 40162418009

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Cadmium, Dissolved	ug/L	<1.3	5.0	12/18/17 11:06	

LABORATORY CONTROL SAMPLE: 1630165

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Cadmium, Dissolved	ug/L	500	519	104	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1630166 1630167

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		40162380001 Result	Spike Conc.	Spike Conc.	Result						
Cadmium, Dissolved	ug/L	<1.3	500	500	521	531	104	106	75-125	2	20

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 34283.000 NPI

Pace Project No.: 40162418

QC Batch:	277358	Analysis Method:	EPA 6010
QC Batch Method:	EPA 3010	Analysis Description:	6010 MET Dissolved
Associated Lab Samples:	40162418002, 40162418003		

METHOD BLANK: 1630870 Matrix: Water
Associated Lab Samples: 40162418002, 40162418003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Cadmium, Dissolved	ug/L	<1.3	5.0	12/18/17 17:00	

LABORATORY CONTROL SAMPLE: 1630871

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Cadmium, Dissolved	ug/L	500	499	100	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1630872 1630873

Parameter	Units	40162286004 Result	MS	MSD	MS	MSD	MS	MSD	% Rec	Max RPD	Qual
			Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec	Limits		
Cadmium, Dissolved	ug/L	<1.3	500	500	514	512	103	102	75-125	0	20

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 34283.000 NPI
Pace Project No.: 40162418

QC Batch: 277220 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV
Associated Lab Samples: 40162418001, 40162418002, 40162418003, 40162418004

METHOD BLANK: 1629825 Matrix: Water
Associated Lab Samples: 40162418001, 40162418002, 40162418003, 40162418004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	<0.50	1.0	12/15/17 11:20	
1,1-Dichloroethane	ug/L	<0.24	1.0	12/15/17 11:20	
1,1-Dichloroethene	ug/L	<0.41	1.0	12/15/17 11:20	
Tetrachloroethene	ug/L	<0.50	1.0	12/15/17 11:20	
Trichloroethene	ug/L	<0.33	1.0	12/15/17 11:20	
4-Bromofluorobenzene (S)	%	91	61-130	12/15/17 11:20	
Dibromofluoromethane (S)	%	105	67-130	12/15/17 11:20	
Toluene-d8 (S)	%	99	70-130	12/15/17 11:20	

LABORATORY CONTROL SAMPLE: 1629826

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	50	51.1	102	70-130	
1,1-Dichloroethane	ug/L	50	51.4	103	71-132	
1,1-Dichloroethene	ug/L	50	48.9	98	75-130	
Tetrachloroethene	ug/L	50	51.9	104	70-130	
Trichloroethene	ug/L	50	53.5	107	70-130	
4-Bromofluorobenzene (S)	%			99	61-130	
Dibromofluoromethane (S)	%			102	67-130	
Toluene-d8 (S)	%			100	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1629827 1629828

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	Max RPD	Qual	
		40162407019 Result	Spike Conc.	Spike Conc.	MS Result						MSD Result
1,1,1-Trichloroethane	ug/L	<0.50	50	50	53.9	51.9	108	104	70-134	4	20
1,1-Dichloroethane	ug/L	<0.24	50	50	52.6	52.1	105	104	71-133	1	20
1,1-Dichloroethene	ug/L	<0.41	50	50	54.7	53.2	109	106	75-136	3	20
Tetrachloroethene	ug/L	<0.50	50	50	59.2	53.6	118	107	70-130	10	20
Trichloroethene	ug/L	<0.33	50	50	58.7	55.3	117	111	70-130	6	20
4-Bromofluorobenzene (S)	%						100	99	61-130		
Dibromofluoromethane (S)	%						100	102	67-130		
Toluene-d8 (S)	%						103	100	70-130		

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 34283.000 NPI
Pace Project No.: 40162418

QC Batch: 277221 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV
Associated Lab Samples: 40162418005, 40162418006, 40162418007, 40162418008, 40162418009, 40162418010, 40162418011, 40162418013, 40162418014, 40162418015, 40162418016, 40162418017, 40162418018, 40162418019, 40162418020

METHOD BLANK: 1629829 Matrix: Water
Associated Lab Samples: 40162418005, 40162418006, 40162418007, 40162418008, 40162418009, 40162418010, 40162418011, 40162418013, 40162418014, 40162418015, 40162418016, 40162418017, 40162418018, 40162418019, 40162418020

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	<0.50	1.0	12/18/17 07:49	
1,1-Dichloroethane	ug/L	<0.24	1.0	12/18/17 07:49	
1,1-Dichloroethene	ug/L	<0.41	1.0	12/18/17 07:49	
Tetrachloroethene	ug/L	<0.50	1.0	12/18/17 07:49	
Trichloroethene	ug/L	<0.33	1.0	12/18/17 07:49	
4-Bromofluorobenzene (S)	%	88	61-130	12/18/17 07:49	
Dibromofluoromethane (S)	%	105	67-130	12/18/17 07:49	
Toluene-d8 (S)	%	104	70-130	12/18/17 07:49	

LABORATORY CONTROL SAMPLE: 1629830

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	20	23.0	115	70-130	
1,1-Dichloroethane	ug/L	20	21.1	105	71-132	
1,1-Dichloroethene	ug/L	20	20.5	102	75-130	
Tetrachloroethene	ug/L	20	19.8	99	70-130	
Trichloroethene	ug/L	20	21.1	106	70-130	
4-Bromofluorobenzene (S)	%			94	61-130	
Dibromofluoromethane (S)	%			105	67-130	
Toluene-d8 (S)	%			104	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1629831 1629832

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		40162418008 Result	Spike Conc.	Spike Conc.	MS Result						
1,1,1-Trichloroethane	ug/L	0.54J	50	50	61.7	61.9	122	123	70-134	0	20
1,1-Dichloroethane	ug/L	<0.24	50	50	53.4	54.0	107	108	71-133	1	20
1,1-Dichloroethene	ug/L	<0.41	50	50	54.9	56.2	110	112	75-136	2	20
Tetrachloroethene	ug/L	<0.50	50	50	52.3	53.8	105	108	70-130	3	20
Trichloroethene	ug/L	3.0	50	50	59.2	61.0	112	116	70-130	3	20
4-Bromofluorobenzene (S)	%						103	101	61-130		
Dibromofluoromethane (S)	%						105	107	67-130		
Toluene-d8 (S)	%						105	105	70-130		

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 34283.000 NPI
Pace Project No.: 40162418

QC Batch: 277320 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV
Associated Lab Samples: 40162418012

METHOD BLANK: 1630769 Matrix: Water
Associated Lab Samples: 40162418012

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	<0.50	1.0	12/19/17 07:36	
1,1-Dichloroethane	ug/L	<0.24	1.0	12/19/17 07:36	
1,1-Dichloroethene	ug/L	<0.41	1.0	12/19/17 07:36	
Tetrachloroethene	ug/L	<0.50	1.0	12/19/17 07:36	
Trichloroethene	ug/L	<0.33	1.0	12/19/17 07:36	
4-Bromofluorobenzene (S)	%	91	61-130	12/19/17 07:36	
Dibromofluoromethane (S)	%	102	67-130	12/19/17 07:36	
Toluene-d8 (S)	%	96	70-130	12/19/17 07:36	

LABORATORY CONTROL SAMPLE: 1630770

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	50	51.4	103	70-130	
1,1-Dichloroethane	ug/L	50	49.1	98	71-132	
1,1-Dichloroethene	ug/L	50	48.6	97	75-130	
Tetrachloroethene	ug/L	50	52.0	104	70-130	
Trichloroethene	ug/L	50	52.9	106	70-130	
4-Bromofluorobenzene (S)	%			100	61-130	
Dibromofluoromethane (S)	%			98	67-130	
Toluene-d8 (S)	%			97	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1630771 1630772

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	Max RPD	Qual	
		40162418012 Result	Spike Conc.	Spike Conc.	MS Result						MSD Result
1,1,1-Trichloroethane	ug/L	<0.50	50	50	52.0	51.7	103	103	70-134	1	20
1,1-Dichloroethane	ug/L	<0.24	50	50	49.1	49.1	98	98	71-133	0	20
1,1-Dichloroethene	ug/L	<0.41	50	50	49.9	49.9	100	100	75-136	0	20
Tetrachloroethene	ug/L	<0.50	50	50	52.3	51.6	104	102	70-130	1	20
Trichloroethene	ug/L	<0.33	50	50	53.1	53.2	106	106	70-130	0	20
4-Bromofluorobenzene (S)	%						100	99	61-130		
Dibromofluoromethane (S)	%						101	100	67-130		
Toluene-d8 (S)	%						97	97	70-130		

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REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: 34283.000 NPI
Pace Project No.: 40162418

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.

LABORATORIES

PASI-G Pace Analytical Services - Green Bay

WORKORDER QUALIFIERS

WO: 40162418

[1] The trip blanks received in this cooler were listed on two COC's, but analyzed by Method 524.2 and reported on 40162410.

[2]

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 34283.000 NPI

Pace Project No.: 40162418

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40162418002	EW-5 H	EPA 3010	277358	EPA 6010	277445
40162418003	EW-5 L	EPA 3010	277358	EPA 6010	277445
40162418004	EW-6	EPA 6010	277288		
40162418009	MW-68 B	EPA 6010	277288		
40162418001	EC-1	EPA 8260	277220		
40162418002	EW-5 H	EPA 8260	277220		
40162418003	EW-5 L	EPA 8260	277220		
40162418004	EW-6	EPA 8260	277220		
40162418005	EW-6 DUP	EPA 8260	277221		
40162418006	EC-1 DUP	EPA 8260	277221		
40162418007	MW-26 B	EPA 8260	277221		
40162418008	MW-38 B	EPA 8260	277221		
40162418009	MW-68 B	EPA 8260	277221		
40162418010	MW-74 A	EPA 8260	277221		
40162418011	MW-74 B	EPA 8260	277221		
40162418012	MW-76 A	EPA 8260	277320		
40162418013	MW-76 B	EPA 8260	277221		
40162418014	MW-77 A	EPA 8260	277221		
40162418015	MW-77 B	EPA 8260	277221		
40162418016	MW-77 C	EPA 8260	277221		
40162418017	RW-15	EPA 8260	277221		
40162418018	RW-15 DUP	EPA 8260	277221		
40162418019	MW-65 B	EPA 8260	277221		
40162418020	MW-65 C	EPA 8260	277221		

REPORT OF LABORATORY ANALYSIS

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(Please Print Clearly)

Company Name: Gannett Fleming
 Branch/Location: Madison, WI
 Project Contact: Cliff Wright
 Phone: 608-836-1500
 Project Number: 34283.000
 Project Name: NPI
 Project State: WI
 Sampled By (Print): Chelsea Payne
 Sampled By (Sign): Chelsea Payne
 PO #: _____ Regulatory Program: _____



UPPER MIDWEST REGION
 MN: 612-607-1700 WI: 920-469-2436

Page 1 of 2
 40162418
 RMW

CHAIN OF CUSTODY

***Preservation Codes**
 A=None B=HCL C=H2SO4 D=HNO3 E=DI Water F=Methanol G=NaOH
 H=Sodium Bisulfate Solution I=Sodium Thiosulfate J=Other

FILTERED?
(YES/NO)
 PRESERVATION
(CODE)*

Y/N	Pick Letter	Analyses Requested																			
N	B	NPI																			
Y	D	Cadmium dissolved																			

Quote #: _____
 Mail To Contact: Cliff Wright
 Mail To Company: Gannett Fleming
 Mail To Address: 8025 Excelsior Dr, Madison, WI 53717
 Invoice To Contact: _____
 Invoice To Company: See mail to
 Invoice To Address: _____
 Invoice To Phone: 608-836-1500
 CLIENT COMMENTS: _____
 LAB COMMENTS (Lab Use Only): 3-40mL^B
 Profile #: _____

Data Package Options (billable)
 EPA Level III
 EPA Level IV

MS/MSD
 On your sample (billable)
 NOT needed on your sample

Matrix Codes
 A = Air W = Water
 B = Biota DW = Drinking Water
 C = Charcoal GW = Ground Water
 O = Oil SW = Surface Water
 S = Soil WW = Waste Water
 Sl = Sludge WP = Wipe

PACE LAB #	CLIENT FIELD ID	COLLECTION		MATRIX	Y/N	Pick Letter	Analyses Requested														
		DATE	TIME																		
001	EC-1	12/13/17	10:00	GW																	
002	EW-5 H		8:05				3	1													
003	EW-5 L		8:10				3	1													
004	EW-6		10:40				3	1													
005	EW-6 dup		"				3														
006	EC-1 dup		10:00				↓														
007	MW-26 B		14:35				↓														
008	MW-38 B		13:30				9														
009	MW-68 B		11:35				3	1													
010	MW-74 A		11:25				↓														
011	MW-74 B		11:30				↓														
012	MW-76 A		10:50				9														
013	MW-76 B	✓	8:45	✓			3														

Rush Turnaround Time Requested - Prelims (Rush TAT subject to approval/surcharge)
 Date Needed: _____

Transmit Prelim Rush Results by (complete what you want):

Relinquished By: <u>Chelsea Payne</u> Date/Time: <u>12/13/17 17:45</u>	Received By: _____ Date/Time: _____	PACE Project No. <u>40162418</u> Receipt Temp = <u>ROI</u> °C Sample Receipt pH <u>OK/Adjusted</u> Cooler Custody Seal <u>Present / Not Present</u> Intact / Not Intact <u>Intact</u>
Relinquished By: <u>Fel Ex</u> Date/Time: <u>12/14/17 09:50</u>	Received By: <u>Sam D'Alpa</u> Date/Time: <u>12/14/17 09:50</u>	
Relinquished By: _____ Date/Time: _____	Received By: _____ Date/Time: _____	
Relinquished By: _____ Date/Time: _____	Received By: _____ Date/Time: _____	

Samples on HOLD are subject to special pricing and release of liability

(Please Print Clearly)

Company Name: Gunneth Fleming
 Branch/Location:
 Project Contact:
 Phone:
 Project Number: 34283.000
 Project Name: NPI
 Project State: see pg 1
 Sampled By (Print):
 Sampled By (Sign):
 PO #:
 Regulatory Program:



UPPER MIDWEST REGION
 MN: 612-607-1700 WI: 920-469-2436

40162418

CHAIN OF CUSTODY

***Preservation Codes**
 A=None B=HCL C=H2SO4 D=HNO3 E=DI Water F=Methanol G=NaOH
 H=Sodium Bisulfate Solution I=Sodium Thiosulfate J=Other

FILTERED?
(YES/NO)
 PRESERVATION
(CODE)*

Y/N	Pick Letter	Analyses Requested																			
	B	NPI																			
		VOCs																			

Quote #:
 Mail To Contact:
 Mail To Company:
 Mail To Address: See pg 1
 Invoice To Contact:
 Invoice To Company:
 Invoice To Address:
 Invoice To Phone:

Data Package Options (billable)
 EPA Level III
 EPA Level IV

MS/MSD
 On your sample (billable)
 NOT needed on your sample

Matrix Codes
 A = Air W = Water
 B = Biota DW = Drinking Water
 C = Charcoal GW = Ground Water
 O = Oil SW = Surface Water
 S = Soil WW = Waste Water
 SI = Sludge WP = Wipe

PACE LAB #	CLIENT FIELD ID	COLLECTION		MATRIX
		DATE	TIME	
014	MW-77A	12/13/17	11:00	GW
015	MW-77B		11:05	
016	MW-77C		11:10	
017	RW-15		13:45	
018	RW-15 dup		"	
014	MW-65B		12:15	
020	MW-65C	12/13/17	12:10	
021 5517 12/14/17	Trip Blank	12/13/17		

CLIENT COMMENTS	LAB COMMENTS (Lab Use Only)	Profile #
	3-40mL ^B	

Rush Turnaround Time Requested - Prelims (Rush TAT subject to approval/surcharge) Date Needed:	Relinquished By: <u>Chk Rye</u> Date/Time: <u>12/13/17 17:45</u>	Received By: _____ Date/Time: _____	PACE Project No. <u>40162418</u>
	Transmit Prelim Rush Results by (complete what you want): FedEx	Date/Time: <u>12/14/17 09:50</u>	
Email #1:	Relinquished By: _____ Date/Time: _____	Received By: _____ Date/Time: _____	Receipt Temp = <u>RAT</u> °C
Email #2:	Relinquished By: _____ Date/Time: _____	Received By: _____ Date/Time: _____	Sample Receipt pH <u>OK</u> / Adjusted
Telephone:	Relinquished By: _____ Date/Time: _____	Received By: _____ Date/Time: _____	Cooler Custody Seal Present / Not Present
Fax:	Relinquished By: _____ Date/Time: _____	Received By: _____ Date/Time: _____	Intact / Not Intact

Sample Condition Upon Receipt

Pace Analytical Services, LLC. - Green Bay WI
1241 Bellevue Street, Suite 9
Green Bay, WI 54302



Project # **WO# : 40162418**

Client Name: Garnett Fleming

Courier: Fed Ex UPS Client Pace Other: _____
Tracking #: 9120 5484 6087



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: N/A /Corr: _____ Biological Tissue is Frozen: yes no
Temp Blank Present: yes no

Person examining contents:
Date: 12/14/17
Initials: SSM

Temp should be above freezing to 6°C.
Biota Samples may be received at ≤ 0°C.

Comments:

Chain of Custody Present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1.
Chain of Custody Filled Out:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	2.
Chain of Custody Relinquished:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	3.
Sampler Name & Signature on COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	4.
Samples Arrived within Hold Time:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	5.
- VOA Samples frozen upon receipt	<input type="checkbox"/> Yes <input type="checkbox"/> No	Date/Time:
Short Hold Time Analysis (<72hr):	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	6.
Rush Turn Around Time Requested:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	7.
Sufficient Volume:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	8. <u>no samples col.</u> <u>SSM 12/14/17</u>
Correct Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	9.
-Pace Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
-Pace IR Containers Used:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Containers Intact:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	10.
Filtered volume received for Dissolved tests	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	11.
Sample Labels match COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	12. <u>12/14/17</u>
-Includes date/time/ID/Analysis Matrix:		<u>Trip Blanks not received 12/14/17</u>
All containers needing preservation have been checked. (Non-Compliance noted in 13.)	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	13. <input type="checkbox"/> HNO3 <input type="checkbox"/> H2SO4 <input type="checkbox"/> NaOH <input type="checkbox"/> NaOH + ZnAct
All containers needing preservation are found to be in compliance with EPA recommendation. (HNO3, H2SO4 ≤2; NaOH+ZnAct ≥9, NaOH ≥12)	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
exceptions: VOA, coliform, TOC, TOX, TOH, O&G, WIDROW, Phenolics, OTHER:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Initial when completed
		Lab Std #/ID of preservative
		Date/Time:
Headspace in VOA Vials (>6mm):	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	14.
Trip Blank Present:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	15.
Trip Blank Custody Seals Present	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> 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: AP for DM Date: 12-14-17

December 19, 2017

Project #34283.000
NPI Q4 GW
Reviewed by CCW
12/22/17

Clifford Wright
Gannett Fleming
8025 Excelsior Drive
Madison, WI 53717

RE: Project: 34283.000 NPI
Pace Project No.: 40162490

Dear Clifford Wright:

Enclosed are the analytical results for sample(s) received by the laboratory on December 15, 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

cc: Mary C. Wehbe, MCW Scientific Solutions



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: 34283.000 NPI

Pace Project No.: 40162490

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: 34283.000 NPI

Pace Project No.: 40162490

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40162490001	RW-2A	Water	12/14/17 09:35	12/15/17 09:40
40162490002	RW-2B	Water	12/14/17 09:30	12/15/17 09:40
40162490003	RW-2C	Water	12/14/17 09:20	12/15/17 09:40
40162490004	RW-2C DUP	Water	12/14/17 09:20	12/15/17 09:40
40162490005	RW-3A	Water	12/14/17 07:45	12/15/17 09:40
40162490006	RW-3B	Water	12/14/17 07:55	12/15/17 09:40
40162490007	RW-3B DUP	Water	12/14/17 07:55	12/15/17 09:40
40162490008	RW-3C	Water	12/14/17 07:50	12/15/17 09:40
40162490009	MW-23A	Water	12/14/17 09:38	12/15/17 09:40
40162490010	MW-23B	Water	12/14/17 09:40	12/15/17 09:40
40162490011	MW-45B	Water	12/14/17 08:20	12/15/17 09:40
40162490012	MW-45C	Water	12/14/17 08:15	12/15/17 09:40
40162490013	TRIP BLANK	Water	12/14/17 00:00	12/15/17 09:40

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SAMPLE ANALYTE COUNT

Project: 34283.000 NPI

Pace Project No.: 40162490

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
40162490001	RW-2A	EPA 8260	LAP	8	PASI-G
40162490002	RW-2B	EPA 8260	LAP	8	PASI-G
40162490003	RW-2C	EPA 8260	LAP	8	PASI-G
40162490004	RW-2C DUP	EPA 8260	LAP	8	PASI-G
40162490005	RW-3A	EPA 8260	LAP	8	PASI-G
40162490006	RW-3B	EPA 8260	LAP	8	PASI-G
40162490007	RW-3B DUP	EPA 8260	LAP	8	PASI-G
40162490008	RW-3C	EPA 8260	LAP	8	PASI-G
40162490009	MW-23A	EPA 8260	LAP	8	PASI-G
40162490010	MW-23B	EPA 8260	LAP	8	PASI-G
40162490011	MW-45B	EPA 8260	LAP	8	PASI-G
40162490012	MW-45C	EPA 8260	LAP	8	PASI-G
40162490013	TRIP BLANK	EPA 8260	LAP	8	PASI-G

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SUMMARY OF DETECTION

Project: 34283.000 NPI

Pace Project No.: 40162490

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
40162490001	RW-2A					
EPA 8260	Trichloroethene	1.0	ug/L	1.0	12/18/17 14:43	
40162490002	RW-2B					
EPA 8260	Trichloroethene	2.0	ug/L	1.0	12/18/17 16:14	
40162490003	RW-2C					
EPA 8260	Trichloroethene	1.7	ug/L	1.0	12/18/17 16:42	
40162490004	RW-2C DUP					
EPA 8260	Trichloroethene	1.7	ug/L	1.0	12/18/17 17:04	
40162490005	RW-3A					
EPA 8260	Trichloroethene	1.7	ug/L	1.0	12/18/17 17:27	
40162490006	RW-3B					
EPA 8260	Trichloroethene	3.0	ug/L	1.0	12/18/17 17:49	
40162490007	RW-3B DUP					
EPA 8260	Trichloroethene	3.2	ug/L	1.0	12/18/17 18:12	
40162490008	RW-3C					
EPA 8260	Trichloroethene	4.1	ug/L	1.0	12/18/17 18:35	
40162490009	MW-23A					
EPA 8260	Trichloroethene	0.84J	ug/L	1.0	12/18/17 18:57	
40162490010	MW-23B					
EPA 8260	Trichloroethene	1.6	ug/L	1.0	12/18/17 19:20	
40162490011	MW-45B					
EPA 8260	Trichloroethene	2.4	ug/L	1.0	12/18/17 19:42	
40162490012	MW-45C					
EPA 8260	Trichloroethene	3.1	ug/L	1.0	12/18/17 20:05	

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PROJECT NARRATIVE

Project: 34283.000 NPI

Pace Project No.: 40162490

Method: EPA 8260

Description: 8260 MSV

Client: Gannett Fleming Inc.

Date: December 19, 2017

General Information:

13 samples were analyzed for EPA 8260. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

Internal Standards:

All internal standards were within QC limits with any exceptions noted below.

Surrogates:

All surrogates were within QC limits with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 34283.000 NPI

Pace Project No.: 40162490

Sample: RW-2A **Lab ID: 40162490001** Collected: 12/14/17 09:35 Received: 12/15/17 09:40 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260							
1,1,1-Trichloroethane	<0.50	ug/L	1.0	0.50	1		12/18/17 14:43	71-55-6	
1,1-Dichloroethane	<0.24	ug/L	1.0	0.24	1		12/18/17 14:43	75-34-3	
1,1-Dichloroethene	<0.41	ug/L	1.0	0.41	1		12/18/17 14:43	75-35-4	
Tetrachloroethene	<0.50	ug/L	1.0	0.50	1		12/18/17 14:43	127-18-4	
Trichloroethene	1.0	ug/L	1.0	0.33	1		12/18/17 14:43	79-01-6	
Surrogates									
4-Bromofluorobenzene (S)	98	%	61-130		1		12/18/17 14:43	460-00-4	
Dibromofluoromethane (S)	95	%	67-130		1		12/18/17 14:43	1868-53-7	
Toluene-d8 (S)	98	%	70-130		1		12/18/17 14:43	2037-26-5	

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ANALYTICAL RESULTS

Project: 34283.000 NPI

Pace Project No.: 40162490

Sample: RW-2B **Lab ID: 40162490002** Collected: 12/14/17 09:30 Received: 12/15/17 09:40 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260							
1,1,1-Trichloroethane	<0.50	ug/L	1.0	0.50	1		12/18/17 16:14	71-55-6	
1,1-Dichloroethane	<0.24	ug/L	1.0	0.24	1		12/18/17 16:14	75-34-3	
1,1-Dichloroethene	<0.41	ug/L	1.0	0.41	1		12/18/17 16:14	75-35-4	
Tetrachloroethene	<0.50	ug/L	1.0	0.50	1		12/18/17 16:14	127-18-4	
Trichloroethene	2.0	ug/L	1.0	0.33	1		12/18/17 16:14	79-01-6	
Surrogates									
4-Bromofluorobenzene (S)	100	%	61-130		1		12/18/17 16:14	460-00-4	
Dibromofluoromethane (S)	95	%	67-130		1		12/18/17 16:14	1868-53-7	
Toluene-d8 (S)	101	%	70-130		1		12/18/17 16:14	2037-26-5	

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ANALYTICAL RESULTS

Project: 34283.000 NPI

Pace Project No.: 40162490

Sample: RW-2C **Lab ID: 40162490003** Collected: 12/14/17 09:20 Received: 12/15/17 09:40 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260							
1,1,1-Trichloroethane	<0.50	ug/L	1.0	0.50	1		12/18/17 16:42	71-55-6	
1,1-Dichloroethane	<0.24	ug/L	1.0	0.24	1		12/18/17 16:42	75-34-3	
1,1-Dichloroethene	<0.41	ug/L	1.0	0.41	1		12/18/17 16:42	75-35-4	
Tetrachloroethene	<0.50	ug/L	1.0	0.50	1		12/18/17 16:42	127-18-4	
Trichloroethene	1.7	ug/L	1.0	0.33	1		12/18/17 16:42	79-01-6	
Surrogates									
4-Bromofluorobenzene (S)	102	%	61-130		1		12/18/17 16:42	460-00-4	
Dibromofluoromethane (S)	95	%	67-130		1		12/18/17 16:42	1868-53-7	
Toluene-d8 (S)	98	%	70-130		1		12/18/17 16:42	2037-26-5	

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ANALYTICAL RESULTS

Project: 34283.000 NPI

Pace Project No.: 40162490

Sample: RW-2C DUP **Lab ID: 40162490004** Collected: 12/14/17 09:20 Received: 12/15/17 09:40 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260							
1,1,1-Trichloroethane	<0.50	ug/L	1.0	0.50	1		12/18/17 17:04	71-55-6	
1,1-Dichloroethane	<0.24	ug/L	1.0	0.24	1		12/18/17 17:04	75-34-3	
1,1-Dichloroethene	<0.41	ug/L	1.0	0.41	1		12/18/17 17:04	75-35-4	
Tetrachloroethene	<0.50	ug/L	1.0	0.50	1		12/18/17 17:04	127-18-4	
Trichloroethene	1.7	ug/L	1.0	0.33	1		12/18/17 17:04	79-01-6	
Surrogates									
4-Bromofluorobenzene (S)	98	%	61-130		1		12/18/17 17:04	460-00-4	
Dibromofluoromethane (S)	94	%	67-130		1		12/18/17 17:04	1868-53-7	
Toluene-d8 (S)	97	%	70-130		1		12/18/17 17:04	2037-26-5	

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ANALYTICAL RESULTS

Project: 34283.000 NPI

Pace Project No.: 40162490

Sample: RW-3A **Lab ID: 40162490005** Collected: 12/14/17 07:45 Received: 12/15/17 09:40 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260							
1,1,1-Trichloroethane	<0.50	ug/L	1.0	0.50	1		12/18/17 17:27	71-55-6	
1,1-Dichloroethane	<0.24	ug/L	1.0	0.24	1		12/18/17 17:27	75-34-3	
1,1-Dichloroethene	<0.41	ug/L	1.0	0.41	1		12/18/17 17:27	75-35-4	
Tetrachloroethene	<0.50	ug/L	1.0	0.50	1		12/18/17 17:27	127-18-4	
Trichloroethene	1.7	ug/L	1.0	0.33	1		12/18/17 17:27	79-01-6	
Surrogates									
4-Bromofluorobenzene (S)	99	%	61-130		1		12/18/17 17:27	460-00-4	
Dibromofluoromethane (S)	100	%	67-130		1		12/18/17 17:27	1868-53-7	
Toluene-d8 (S)	97	%	70-130		1		12/18/17 17:27	2037-26-5	

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ANALYTICAL RESULTS

Project: 34283.000 NPI

Pace Project No.: 40162490

Sample: RW-3B **Lab ID: 40162490006** Collected: 12/14/17 07:55 Received: 12/15/17 09:40 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260							
1,1,1-Trichloroethane	<0.50	ug/L	1.0	0.50	1		12/18/17 17:49	71-55-6	
1,1-Dichloroethane	<0.24	ug/L	1.0	0.24	1		12/18/17 17:49	75-34-3	
1,1-Dichloroethene	<0.41	ug/L	1.0	0.41	1		12/18/17 17:49	75-35-4	
Tetrachloroethene	<0.50	ug/L	1.0	0.50	1		12/18/17 17:49	127-18-4	
Trichloroethene	3.0	ug/L	1.0	0.33	1		12/18/17 17:49	79-01-6	
Surrogates									
4-Bromofluorobenzene (S)	101	%	61-130		1		12/18/17 17:49	460-00-4	
Dibromofluoromethane (S)	93	%	67-130		1		12/18/17 17:49	1868-53-7	
Toluene-d8 (S)	98	%	70-130		1		12/18/17 17:49	2037-26-5	

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ANALYTICAL RESULTS

Project: 34283.000 NPI

Pace Project No.: 40162490

Sample: RW-3B DUP **Lab ID: 40162490007** Collected: 12/14/17 07:55 Received: 12/15/17 09:40 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260							
1,1,1-Trichloroethane	<0.50	ug/L	1.0	0.50	1		12/18/17 18:12	71-55-6	
1,1-Dichloroethane	<0.24	ug/L	1.0	0.24	1		12/18/17 18:12	75-34-3	
1,1-Dichloroethene	<0.41	ug/L	1.0	0.41	1		12/18/17 18:12	75-35-4	
Tetrachloroethene	<0.50	ug/L	1.0	0.50	1		12/18/17 18:12	127-18-4	
Trichloroethene	3.2	ug/L	1.0	0.33	1		12/18/17 18:12	79-01-6	
Surrogates									
4-Bromofluorobenzene (S)	100	%	61-130		1		12/18/17 18:12	460-00-4	
Dibromofluoromethane (S)	101	%	67-130		1		12/18/17 18:12	1868-53-7	
Toluene-d8 (S)	99	%	70-130		1		12/18/17 18:12	2037-26-5	

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ANALYTICAL RESULTS

Project: 34283.000 NPI

Pace Project No.: 40162490

Sample: RW-3C **Lab ID: 40162490008** Collected: 12/14/17 07:50 Received: 12/15/17 09:40 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260							
1,1,1-Trichloroethane	<0.50	ug/L	1.0	0.50	1		12/18/17 18:35	71-55-6	
1,1-Dichloroethane	<0.24	ug/L	1.0	0.24	1		12/18/17 18:35	75-34-3	
1,1-Dichloroethene	<0.41	ug/L	1.0	0.41	1		12/18/17 18:35	75-35-4	
Tetrachloroethene	<0.50	ug/L	1.0	0.50	1		12/18/17 18:35	127-18-4	
Trichloroethene	4.1	ug/L	1.0	0.33	1		12/18/17 18:35	79-01-6	
Surrogates									
4-Bromofluorobenzene (S)	100	%	61-130		1		12/18/17 18:35	460-00-4	
Dibromofluoromethane (S)	96	%	67-130		1		12/18/17 18:35	1868-53-7	
Toluene-d8 (S)	98	%	70-130		1		12/18/17 18:35	2037-26-5	

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ANALYTICAL RESULTS

Project: 34283.000 NPI

Pace Project No.: 40162490

Sample: MW-23A **Lab ID: 40162490009** Collected: 12/14/17 09:38 Received: 12/15/17 09:40 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260							
1,1,1-Trichloroethane	<0.50	ug/L	1.0	0.50	1		12/18/17 18:57	71-55-6	
1,1-Dichloroethane	<0.24	ug/L	1.0	0.24	1		12/18/17 18:57	75-34-3	
1,1-Dichloroethene	<0.41	ug/L	1.0	0.41	1		12/18/17 18:57	75-35-4	
Tetrachloroethene	<0.50	ug/L	1.0	0.50	1		12/18/17 18:57	127-18-4	
Trichloroethene	0.84J	ug/L	1.0	0.33	1		12/18/17 18:57	79-01-6	
Surrogates									
4-Bromofluorobenzene (S)	99	%	61-130		1		12/18/17 18:57	460-00-4	
Dibromofluoromethane (S)	103	%	67-130		1		12/18/17 18:57	1868-53-7	
Toluene-d8 (S)	98	%	70-130		1		12/18/17 18:57	2037-26-5	

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ANALYTICAL RESULTS

Project: 34283.000 NPI

Pace Project No.: 40162490

Sample: MW-23B **Lab ID: 40162490010** Collected: 12/14/17 09:40 Received: 12/15/17 09:40 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260							
1,1,1-Trichloroethane	<0.50	ug/L	1.0	0.50	1		12/18/17 19:20	71-55-6	
1,1-Dichloroethane	<0.24	ug/L	1.0	0.24	1		12/18/17 19:20	75-34-3	
1,1-Dichloroethene	<0.41	ug/L	1.0	0.41	1		12/18/17 19:20	75-35-4	
Tetrachloroethene	<0.50	ug/L	1.0	0.50	1		12/18/17 19:20	127-18-4	
Trichloroethene	1.6	ug/L	1.0	0.33	1		12/18/17 19:20	79-01-6	
Surrogates									
4-Bromofluorobenzene (S)	100	%	61-130		1		12/18/17 19:20	460-00-4	
Dibromofluoromethane (S)	94	%	67-130		1		12/18/17 19:20	1868-53-7	
Toluene-d8 (S)	98	%	70-130		1		12/18/17 19:20	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 34283.000 NPI

Pace Project No.: 40162490

Sample: MW-45B **Lab ID: 40162490011** Collected: 12/14/17 08:20 Received: 12/15/17 09:40 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260							
1,1,1-Trichloroethane	<0.50	ug/L	1.0	0.50	1		12/18/17 19:42	71-55-6	
1,1-Dichloroethane	<0.24	ug/L	1.0	0.24	1		12/18/17 19:42	75-34-3	
1,1-Dichloroethene	<0.41	ug/L	1.0	0.41	1		12/18/17 19:42	75-35-4	
Tetrachloroethene	<0.50	ug/L	1.0	0.50	1		12/18/17 19:42	127-18-4	
Trichloroethene	2.4	ug/L	1.0	0.33	1		12/18/17 19:42	79-01-6	
Surrogates									
4-Bromofluorobenzene (S)	101	%	61-130		1		12/18/17 19:42	460-00-4	
Dibromofluoromethane (S)	98	%	67-130		1		12/18/17 19:42	1868-53-7	
Toluene-d8 (S)	99	%	70-130		1		12/18/17 19:42	2037-26-5	

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ANALYTICAL RESULTS

Project: 34283.000 NPI

Pace Project No.: 40162490

Sample: MW-45C **Lab ID: 40162490012** Collected: 12/14/17 08:15 Received: 12/15/17 09:40 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260							
1,1,1-Trichloroethane	<0.50	ug/L	1.0	0.50	1		12/18/17 20:05	71-55-6	
1,1-Dichloroethane	<0.24	ug/L	1.0	0.24	1		12/18/17 20:05	75-34-3	
1,1-Dichloroethene	<0.41	ug/L	1.0	0.41	1		12/18/17 20:05	75-35-4	
Tetrachloroethene	<0.50	ug/L	1.0	0.50	1		12/18/17 20:05	127-18-4	
Trichloroethene	3.1	ug/L	1.0	0.33	1		12/18/17 20:05	79-01-6	
Surrogates									
4-Bromofluorobenzene (S)	97	%	61-130		1		12/18/17 20:05	460-00-4	
Dibromofluoromethane (S)	103	%	67-130		1		12/18/17 20:05	1868-53-7	
Toluene-d8 (S)	97	%	70-130		1		12/18/17 20:05	2037-26-5	

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ANALYTICAL RESULTS

Project: 34283.000 NPI

Pace Project No.: 40162490

Sample: TRIP BLANK **Lab ID: 40162490013** Collected: 12/14/17 00:00 Received: 12/15/17 09:40 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260							
1,1,1-Trichloroethane	<0.50	ug/L	1.0	0.50	1		12/18/17 15:51	71-55-6	
1,1-Dichloroethane	<0.24	ug/L	1.0	0.24	1		12/18/17 15:51	75-34-3	
1,1-Dichloroethene	<0.41	ug/L	1.0	0.41	1		12/18/17 15:51	75-35-4	
Tetrachloroethene	<0.50	ug/L	1.0	0.50	1		12/18/17 15:51	127-18-4	
Trichloroethene	<0.33	ug/L	1.0	0.33	1		12/18/17 15:51	79-01-6	
Surrogates									
4-Bromofluorobenzene (S)	99	%	61-130		1		12/18/17 15:51	460-00-4	
Dibromofluoromethane (S)	94	%	67-130		1		12/18/17 15:51	1868-53-7	
Toluene-d8 (S)	97	%	70-130		1		12/18/17 15:51	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 34283.000 NPI
Pace Project No.: 40162490

QC Batch: 277322 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV
Associated Lab Samples: 40162490001, 40162490002, 40162490003, 40162490004, 40162490005, 40162490006, 40162490007, 40162490008, 40162490009, 40162490010, 40162490011, 40162490012, 40162490013

METHOD BLANK: 1630775 Matrix: Water
Associated Lab Samples: 40162490001, 40162490002, 40162490003, 40162490004, 40162490005, 40162490006, 40162490007, 40162490008, 40162490009, 40162490010, 40162490011, 40162490012, 40162490013

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	<0.50	1.0	12/18/17 12:50	
1,1-Dichloroethane	ug/L	<0.24	1.0	12/18/17 12:50	
1,1-Dichloroethene	ug/L	<0.41	1.0	12/18/17 12:50	
Tetrachloroethene	ug/L	<0.50	1.0	12/18/17 12:50	
Trichloroethene	ug/L	<0.33	1.0	12/18/17 12:50	
4-Bromofluorobenzene (S)	%	96	61-130	12/18/17 12:50	
Dibromofluoromethane (S)	%	94	67-130	12/18/17 12:50	
Toluene-d8 (S)	%	96	70-130	12/18/17 12:50	

LABORATORY CONTROL SAMPLE: 1630776

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	50	53.2	106	70-130	
1,1-Dichloroethane	ug/L	50	49.9	100	71-132	
1,1-Dichloroethene	ug/L	50	48.4	97	75-130	
Tetrachloroethene	ug/L	50	54.9	110	70-130	
Trichloroethene	ug/L	50	55.1	110	70-130	
4-Bromofluorobenzene (S)	%			106	61-130	
Dibromofluoromethane (S)	%			97	67-130	
Toluene-d8 (S)	%			100	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1630927 1630928

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		40162490001 Result	Spike Conc.	Spike Conc.	MS Result						
1,1,1-Trichloroethane	ug/L	<0.50	50	50	52.4	54.0	105	108	70-134	3	20
1,1-Dichloroethane	ug/L	<0.24	50	50	51.4	53.6	103	107	71-133	4	20
1,1-Dichloroethene	ug/L	<0.41	50	50	47.1	48.5	94	97	75-136	3	20
Tetrachloroethene	ug/L	<0.50	50	50	55.1	56.0	110	112	70-130	2	20
Trichloroethene	ug/L	1.0	50	50	57.7	59.4	113	117	70-130	3	20
4-Bromofluorobenzene (S)	%						103	104	61-130		
Dibromofluoromethane (S)	%						95	100	67-130		
Toluene-d8 (S)	%						101	99	70-130		

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: 34283.000 NPI

Pace Project No.: 40162490

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.

LABORATORIES

PASI-G Pace Analytical Services - Green Bay

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 34283.000 NPI

Pace Project No.: 40162490

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40162490001	RW-2A	EPA 8260	277322		
40162490002	RW-2B	EPA 8260	277322		
40162490003	RW-2C	EPA 8260	277322		
40162490004	RW-2C DUP	EPA 8260	277322		
40162490005	RW-3A	EPA 8260	277322		
40162490006	RW-3B	EPA 8260	277322		
40162490007	RW-3B DUP	EPA 8260	277322		
40162490008	RW-3C	EPA 8260	277322		
40162490009	MW-23A	EPA 8260	277322		
40162490010	MW-23B	EPA 8260	277322		
40162490011	MW-45B	EPA 8260	277322		
40162490012	MW-45C	EPA 8260	277322		
40162490013	TRIP BLANK	EPA 8260	277322		

REPORT OF LABORATORY ANALYSIS

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(Please Print Clearly)

Company Name: Gannett Fleming
 Branch/Location: Madison, WI
 Project Contact: Cliff Wright
 Phone: 608-836-1500
 Project Number: 34283.000
 Project Name: NPI
 Project State: WI
 Sampled By (Print): Chelsea Payne
 Sampled By (Sign): [Signature]
 PO #: _____ Regulatory Program: _____



UPPER MIDWEST REGION
 MN: 612-607-1700 WI: 920-469-2436

40162490

Page 23 of 24

CHAIN OF CUSTODY

***Preservation Codes**
 A=None B=HCL C=H2SO4 D=HNO3 E=DI Water F=Methanol G=NaOH
 H=Sodium Bisulfate Solution I=Sodium Thiosulfate J=Other

FILTERED?
(YES/NO)
 PRESERVATION
(CODE)*

Y/N	Pick Letter	Analyses Requested									
N	B	NPI VOCs Short List									

Data Package Options (billable)
 EPA Level III
 EPA Level IV

MS/MSD
 On your sample (billable)
 NOT needed on your sample

Matrix Codes
 A = Air W = Water
 B = Biota DW = Drinking Water
 C = Charcoal GW = Ground Water
 O = Oil SW = Surface Water
 S = Soil WW = Waste Water
 Sl = Sludge WP = Wipe

PACE LAB #	CLIENT FIELD ID	COLLECTION		MATRIX
		DATE	TIME	
001	RW-2A	12/14/17	9:35	GW
002	RW-2B		9:30	
003	RW-2C		9:20	
004	RW-2C dup		"	
005	RW-3A		7:45	
006	RW-3B		7:55	
007	RW-3B dup		"	
008	RW-3C		7:50	
009	MW-23A		9:38	
010	MW-23B		9:40	
011	MW-45B		8:20	
012	MW-45C		8:15	
013	Top Blank			

Quote #: _____

Mail To Contact: Cliff Wright

Mail To Company: Gannett Fleming

Mail To Address: 5025 Excelsior Dr, Madison, WI 53717

Invoice To Contact: _____

Invoice To Company: See mail to

Invoice To Address: _____

Invoice To Phone: 608-836-1500

CLIENT COMMENTS	LAB COMMENTS (Lab Use Only)	Profile #
Send copy of data pkg to Mary Weber	3-40mlvB	
	2-40mlvB	
	2-40mlvB	

Rush Turnaround Time Requested - Prelims (Rush TAT subject to approval/surcharge) Date Needed: _____ Transmit Prelim Rush Results by (complete what you want): Email #1: _____ Email #2: _____ Telephone: _____ Fax: _____ Samples on HOLD are subject to special pricing and release of liability	Relinquished By: <u>Chelsea Payne</u> Date/Time: <u>12/14/17 13:00</u>	Received By: _____ Date/Time: _____	PACE Project No. <u>40162490</u> Receipt Temp = <u>20.1</u> °C Sample Receipt pH <u>OK / Adjusted</u> Cooler Custody Seal Present / Not Present <u>Intact / Not Intact</u>
	Relinquished By: <u>FedEx</u> Date/Time: <u>12/15/17 0940</u>	Received By: <u>Ruth Johnson-Pace</u> Date/Time: <u>0940 12/15/17</u>	
	Relinquished By: _____ Date/Time: _____	Received By: _____ Date/Time: _____	
	Relinquished By: _____ Date/Time: _____	Received By: _____ Date/Time: _____	



Sample Condition Upon Receipt

Pace Analytical Services, LLC. - Green Bay WI
1241 Bellevue Street, Suite 9
Green Bay, WI 54302

Client Name: Giannett Fleming

Project # **WO# : 40162490**

Courier: Fed Ex UPS Client Pace Other: _____
Tracking #: 788941394380



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 NA Type of Ice: Wet Blue Dry None Samples on ice, cooling process has begun

Cooler Temperature Uncorr: _____ /Corr: ROI Biological Tissue is Frozen: yes no

Temp Blank Present: yes no

Person examining contents:
Date: 12/15/17
Initials: KS

Temp should be above freezing to 6°C.
Biota Samples may be received at ≤ 0°C.

Comments:

Chain of Custody Present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1.
Chain of Custody Filled Out:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	2.
Chain of Custody Relinquished:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	3.
Sampler Name & Signature on COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	4.
Samples Arrived within Hold Time:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	5.
- VOA Samples frozen upon receipt	<input type="checkbox"/> Yes <input type="checkbox"/> No	Date/Time:
Short Hold Time Analysis (<72hr):	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	6.
Rush Turn Around Time Requested:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	7.
Sufficient Volume:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	8.
Correct Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	9.
-Pace Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
-Pace IR Containers Used:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Containers Intact:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	10.
Filtered volume received for Dissolved tests	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	11.
Sample Labels match COC:	<input checked="" type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	12. 001 + 004 1 vial no label, placed by other vials packaged with
-Includes date/time/ID/Analysis Matrix: <u>12/15/17</u>		<u>KS</u> <u>12/15/17</u>
All containers needing preservation have been checked. (Non-Compliance noted in 13.)	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	13. <input type="checkbox"/> HNO3 <input type="checkbox"/> H2SO4 <input type="checkbox"/> NaOH <input type="checkbox"/> NaOH + ZnAct
All containers needing preservation are found to be in compliance with EPA recommendation. (HNO3, H2SO4 ≤2; NaOH+ZnAct ≥9, NaOH ≥12)	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
exceptions: VOA, zoliform, TOC, TOX, TOH, O&G, WIDROW, Phenolics, OTHER:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Initial when completed
		Lab Std #ID of preservative
		Date/Time:
Headspace in VOA Vials (>6mm):	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	14.
Trip Blank Present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	15.
Trip Blank Custody Seals Present	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Pace Trip Blank Lot # (if purchased): <u>388</u>		

Client Notification/ Resolution: _____ If checked, see attached form for additional comments
Person Contacted: _____ Date/Time: _____
Comments/ Resolution: _____

Project Manager Review: As for DM Date: 12-15-17

January 03, 2018

Project #34283.000
NPI Q4 GW
Reviewed by CCW
1/3/18

Clifford Wright
Gannett Fleming
8025 Excelsior Drive
Madison, WI 53717

RE: Project: 34283.000 NATIONAL PRESTO IND.
Pace Project No.: 40162680

Dear Clifford Wright:

Enclosed are the analytical results for sample(s) received by the laboratory on December 20, 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

cc: Mary C. Wehbe, MCW Scientific Solutions



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: 34283.000 NATIONAL PRESTO IND.

Pace Project No.: 40162680

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

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SAMPLE SUMMARY

Project: 34283.000 NATIONAL PRESTO IND.

Pace Project No.: 40162680

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40162680001	MH-18	Water	12/19/17 12:45	12/20/17 11:05

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SAMPLE ANALYTE COUNT

Project: 34283.000 NATIONAL PRESTO IND.

Pace Project No.: 40162680

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
40162680001	MH-18	EPA 6010	JLD	6	PASI-G
		EPA 8270	RJN	7	PASI-G
		EPA 8270 by HVI	TPO	20	PASI-G
		SM 3500-Cr B (Online)	DEY	1	PASI-G

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SUMMARY OF DETECTION

Project: 34283.000 NATIONAL PRESTO IND.

Pace Project No.: 40162680

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
40162680001	MH-18					
EPA 6010	Copper	8.0J	ug/L	20.0	01/02/18 11:09	
EPA 6010	Lead	6.8J	ug/L	13.0	01/02/18 11:09	
EPA 6010	Nickel	4.7J	ug/L	10.0	01/02/18 11:09	
EPA 6010	Total Hardness by 2340B	51900	ug/L	2000	01/02/18 11:09	
EPA 6010	Zinc	55.5	ug/L	40.0	01/02/18 11:09	
EPA 8270 by HVI	Acenaphthene	0.050	ug/L	0.027	12/26/17 17:46	
EPA 8270 by HVI	Acenaphthylene	0.0047J	ug/L	0.022	12/26/17 17:46	
EPA 8270 by HVI	Anthracene	0.013J	ug/L	0.047	12/26/17 17:46	
EPA 8270 by HVI	Fluorene	0.022J	ug/L	0.036	12/26/17 17:46	
EPA 8270 by HVI	1-Methylnaphthalene	0.096	ug/L	0.027	12/26/17 17:46	
EPA 8270 by HVI	2-Methylnaphthalene	0.027	ug/L	0.022	12/26/17 17:46	
EPA 8270 by HVI	Naphthalene	0.072J	ug/L	0.083	12/26/17 17:46	
EPA 8270 by HVI	Phenanthrene	0.023J	ug/L	0.062	12/26/17 17:46	

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: 34283.000 NATIONAL PRESTO IND.

Pace Project No.: 40162680

Method: EPA 6010

Description: 6010 MET ICP

Client: Gannett Fleming Inc.

Date: January 03, 2018

General Information:

1 sample was analyzed for EPA 6010. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:

The samples were prepared in accordance with EPA 3010 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: 34283.000 NATIONAL PRESTO IND.
Pace Project No.: 40162680

Method: EPA 8270
Description: 8270 MSSV Semivolatile Organic
Client: Gannett Fleming Inc.
Date: January 03, 2018

General Information:

1 sample was analyzed for EPA 8270. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:

The samples were prepared in accordance with EPA 3510 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

Internal Standards:

All internal standards were within QC limits with any exceptions noted below.

Surrogates:

All surrogates were within QC limits with any exceptions noted below.

QC Batch: 277731

S0: Surrogate recovery outside laboratory control limits.

- LCS (Lab ID: 1632641)
 - Terphenyl-d14 (S)
- LCSD (Lab ID: 1632642)
 - Terphenyl-d14 (S)

S3: Surrogate recovery exceeded laboratory control limits. Analyte presence below reporting limits in associated sample.

- BLANK (Lab ID: 1632640)
 - Terphenyl-d14 (S)
- MH-18 (Lab ID: 40162680001)
 - Terphenyl-d14 (S)

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: 34283.000 NATIONAL PRESTO IND.

Pace Project No.: 40162680

Method: EPA 8270

Description: 8270 MSSV Semivolatile Organic

Client: Gannett Fleming Inc.

Date: January 03, 2018

QC Batch: 277731

A matrix spike/matrix spike duplicate was not performed due to insufficient sample volume.

Additional Comments:

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: 34283.000 NATIONAL PRESTO IND.

Pace Project No.: 40162680

Method: EPA 8270 by HVI

Description: 8270 MSSV PAH by HVI

Client: Gannett Fleming Inc.

Date: January 03, 2018

General Information:

1 sample was analyzed for EPA 8270 by HVI. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:

The samples were prepared in accordance with EPA 3510 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

Internal Standards:

All internal standards were within QC limits with any exceptions noted below.

Surrogates:

All surrogates were within QC limits with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: 277850

A matrix spike/matrix spike duplicate was not performed due to insufficient sample volume.

Additional Comments:

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: 34283.000 NATIONAL PRESTO IND.

Pace Project No.: 40162680

Method: SM 3500-Cr B (Online)

Description: Chromium, Hexavalent

Client: Gannett Fleming Inc.

Date: January 03, 2018

General Information:

1 sample was analyzed for SM 3500-Cr B (Online). All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 34283.000 NATIONAL PRESTO IND.
Pace Project No.: 40162680

Sample: MH-18 **Lab ID: 40162680001** Collected: 12/19/17 12:45 Received: 12/20/17 11:05 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP		Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Chromium	<2.5	ug/L	10.0	2.5	1	12/29/17 09:42	01/02/18 11:09	7440-47-3	
Copper	8.0J	ug/L	20.0	6.3	1	12/29/17 09:42	01/02/18 11:09	7440-50-8	
Lead	6.8J	ug/L	13.0	4.3	1	12/29/17 09:42	01/02/18 11:09	7439-92-1	
Nickel	4.7J	ug/L	10.0	2.6	1	12/29/17 09:42	01/02/18 11:09	7440-02-0	
Total Hardness by 2340B	51900	ug/L	2000	150	1	12/29/17 09:42	01/02/18 11:09		
Zinc	55.5	ug/L	40.0	9.3	1	12/29/17 09:42	01/02/18 11:09	7440-66-6	
8270 MSSV Semivolatile Organic		Analytical Method: EPA 8270 Preparation Method: EPA 3510							
Pentachlorophenol	<1.4	ug/L	4.5	1.4	1	12/21/17 08:00	12/21/17 15:34	87-86-5	
Surrogates									
Nitrobenzene-d5 (S)	86	%	53-100		1	12/21/17 08:00	12/21/17 15:34	4165-60-0	
2-Fluorobiphenyl (S)	91	%	59-109		1	12/21/17 08:00	12/21/17 15:34	321-60-8	
Terphenyl-d14 (S)	112	%	59-108		1	12/21/17 08:00	12/21/17 15:34	1718-51-0	S3
Phenol-d6 (S)	30	%	18-120		1	12/21/17 08:00	12/21/17 15:34	13127-88-3	
2-Fluorophenol (S)	49	%	27-67		1	12/21/17 08:00	12/21/17 15:34	367-12-4	
2,4,6-Tribromophenol (S)	94	%	65-140		1	12/21/17 08:00	12/21/17 15:34	118-79-6	
8270 MSSV PAH by HVI		Analytical Method: EPA 8270 by HVI Preparation Method: EPA 3510							
Acenaphthene	0.050	ug/L	0.027	0.0055	1	12/22/17 07:15	12/26/17 17:46	83-32-9	
Acenaphthylene	0.0047J	ug/L	0.022	0.0045	1	12/22/17 07:15	12/26/17 17:46	208-96-8	
Anthracene	0.013J	ug/L	0.047	0.0094	1	12/22/17 07:15	12/26/17 17:46	120-12-7	
Benzo(a)anthracene	<0.0068	ug/L	0.034	0.0068	1	12/22/17 07:15	12/26/17 17:46	56-55-3	
Benzo(a)pyrene	<0.0095	ug/L	0.047	0.0095	1	12/22/17 07:15	12/26/17 17:46	50-32-8	
Benzo(b)fluoranthene	<0.0052	ug/L	0.026	0.0052	1	12/22/17 07:15	12/26/17 17:46	205-99-2	
Benzo(g,h,i)perylene	<0.0061	ug/L	0.031	0.0061	1	12/22/17 07:15	12/26/17 17:46	191-24-2	
Benzo(k)fluoranthene	<0.0068	ug/L	0.034	0.0068	1	12/22/17 07:15	12/26/17 17:46	207-08-9	
Chrysene	<0.012	ug/L	0.059	0.012	1	12/22/17 07:15	12/26/17 17:46	218-01-9	
Dibenz(a,h)anthracene	<0.0090	ug/L	0.045	0.0090	1	12/22/17 07:15	12/26/17 17:46	53-70-3	
Fluoranthene	<0.0096	ug/L	0.048	0.0096	1	12/22/17 07:15	12/26/17 17:46	206-44-0	
Fluorene	0.022J	ug/L	0.036	0.0072	1	12/22/17 07:15	12/26/17 17:46	86-73-7	
Indeno(1,2,3-cd)pyrene	<0.016	ug/L	0.079	0.016	1	12/22/17 07:15	12/26/17 17:46	193-39-5	
1-Methylnaphthalene	0.096	ug/L	0.027	0.0053	1	12/22/17 07:15	12/26/17 17:46	90-12-0	
2-Methylnaphthalene	0.027	ug/L	0.022	0.0044	1	12/22/17 07:15	12/26/17 17:46	91-57-6	
Naphthalene	0.072J	ug/L	0.083	0.017	1	12/22/17 07:15	12/26/17 17:46	91-20-3	
Phenanthrene	0.023J	ug/L	0.062	0.012	1	12/22/17 07:15	12/26/17 17:46	85-01-8	
Pyrene	<0.0069	ug/L	0.034	0.0069	1	12/22/17 07:15	12/26/17 17:46	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	37	%	35-84		1	12/22/17 07:15	12/26/17 17:46	321-60-8	
Terphenyl-d14 (S)	55	%	10-129		1	12/22/17 07:15	12/26/17 17:46	1718-51-0	
Chromium, Hexavalent		Analytical Method: SM 3500-Cr B (Online)							
Chromium, Hexavalent	<0.0051	mg/L	0.017	0.0051	1		12/20/17 12:30		

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 34283.000 NATIONAL PRESTO IND.
Pace Project No.: 40162680

QC Batch: 278206 Analysis Method: EPA 6010
QC Batch Method: EPA 3010 Analysis Description: 6010 MET
Associated Lab Samples: 40162680001

METHOD BLANK: 1634826 Matrix: Water
Associated Lab Samples: 40162680001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chromium	ug/L	<2.5	10.0	01/02/18 10:54	
Copper	ug/L	<6.3	20.0	01/02/18 10:54	
Lead	ug/L	<4.3	13.0	01/02/18 10:54	
Nickel	ug/L	<2.6	10.0	01/02/18 10:54	
Total Hardness by 2340B	ug/L	<150	2000	01/02/18 10:54	
Zinc	ug/L	<9.3	40.0	01/02/18 10:54	

LABORATORY CONTROL SAMPLE: 1634827

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chromium	ug/L	500	524	105	80-120	
Copper	ug/L	500	532	106	80-120	
Lead	ug/L	500	502	100	80-120	
Nickel	ug/L	500	507	101	80-120	
Total Hardness by 2340B	ug/L		33200			
Zinc	ug/L	500	537	107	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1634828 1634829

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		40162680001 Result	Spike Conc.	Spike Conc.	Result						
Chromium	ug/L	<2.5	500	500	514	511	103	102	75-125	1	20
Copper	ug/L	8.0J	500	500	527	519	104	102	75-125	1	20
Lead	ug/L	6.8J	500	500	490	490	97	97	75-125	0	20
Nickel	ug/L	4.7J	500	500	495	495	98	98	75-125	0	20
Total Hardness by 2340B	ug/L	51900			84100	83600				1	20
Zinc	ug/L	55.5	500	500	570	575	103	104	75-125	1	20

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QUALITY CONTROL DATA

Project: 34283.000 NATIONAL PRESTO IND.

Pace Project No.: 40162680

QC Batch: 277731	Analysis Method: EPA 8270
QC Batch Method: EPA 3510	Analysis Description: 8270 Water MSSV
Associated Lab Samples: 40162680001	

METHOD BLANK: 1632640 Matrix: Water
Associated Lab Samples: 40162680001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Pentachlorophenol	ug/L	<1.4	4.8	12/21/17 12:20	
2,4,6-Tribromophenol (S)	%	103	65-140	12/21/17 12:20	
2-Fluorobiphenyl (S)	%	79	59-109	12/21/17 12:20	
2-Fluorophenol (S)	%	58	27-67	12/21/17 12:20	
Nitrobenzene-d5 (S)	%	85	53-100	12/21/17 12:20	
Phenol-d6 (S)	%	36	18-120	12/21/17 12:20	
Terphenyl-d14 (S)	%	116	59-108	12/21/17 12:20	S3

LABORATORY CONTROL SAMPLE & LCSD: 1632641

Parameter	Units	1632642							RPD	Max RPD	Qualifiers
		Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits				
Pentachlorophenol	ug/L	50	41.0	42.0	82	84	57-121	2	26		
2,4,6-Tribromophenol (S)	%				93	96	65-140				
2-Fluorobiphenyl (S)	%				99	91	59-109				
2-Fluorophenol (S)	%				63	57	27-67				
Nitrobenzene-d5 (S)	%				95	85	53-100				
Phenol-d6 (S)	%				38	36	18-120				
Terphenyl-d14 (S)	%				117	116	59-108			S0	

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QUALITY CONTROL DATA

Project: 34283.000 NATIONAL PRESTO IND.
Pace Project No.: 40162680

QC Batch: 277850 Analysis Method: EPA 8270 by HVI
QC Batch Method: EPA 3510 Analysis Description: 8270 Water PAH by HVI
Associated Lab Samples: 40162680001

METHOD BLANK: 1633273 Matrix: Water
Associated Lab Samples: 40162680001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1-Methylnaphthalene	ug/L	<0.0059	0.030	12/26/17 10:07	
2-Methylnaphthalene	ug/L	<0.0049	0.024	12/26/17 10:07	
Acenaphthene	ug/L	<0.0061	0.030	12/26/17 10:07	
Acenaphthylene	ug/L	<0.0050	0.025	12/26/17 10:07	
Anthracene	ug/L	<0.010	0.052	12/26/17 10:07	
Benzo(a)anthracene	ug/L	<0.0076	0.038	12/26/17 10:07	
Benzo(a)pyrene	ug/L	<0.011	0.053	12/26/17 10:07	
Benzo(b)fluoranthene	ug/L	<0.0057	0.029	12/26/17 10:07	
Benzo(g,h,i)perylene	ug/L	<0.0068	0.034	12/26/17 10:07	
Benzo(k)fluoranthene	ug/L	<0.0076	0.038	12/26/17 10:07	
Chrysene	ug/L	<0.013	0.065	12/26/17 10:07	
Dibenz(a,h)anthracene	ug/L	<0.010	0.050	12/26/17 10:07	
Fluoranthene	ug/L	<0.011	0.053	12/26/17 10:07	
Fluorene	ug/L	<0.0080	0.040	12/26/17 10:07	
Indeno(1,2,3-cd)pyrene	ug/L	<0.018	0.088	12/26/17 10:07	
Naphthalene	ug/L	<0.018	0.092	12/26/17 10:07	
Phenanthrene	ug/L	<0.014	0.069	12/26/17 10:07	
Pyrene	ug/L	<0.0076	0.038	12/26/17 10:07	
2-Fluorobiphenyl (S)	%	54	35-84	12/26/17 10:07	
Terphenyl-d14 (S)	%	75	10-129	12/26/17 10:07	

LABORATORY CONTROL SAMPLE & LCSD: 1633274 1633275

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
1-Methylnaphthalene	ug/L	2	1.3	1.4	65	71	39-83	8	29	
2-Methylnaphthalene	ug/L	2	1.2	1.3	59	64	38-86	8	32	
Acenaphthene	ug/L	2	1.3	1.4	63	70	35-85	10	27	
Acenaphthylene	ug/L	2	1.3	1.4	63	70	31-88	10	29	
Anthracene	ug/L	2	1.7	1.7	83	84	47-104	1	25	
Benzo(a)anthracene	ug/L	2	1.1	1.2	54	62	36-105	12	20	
Benzo(a)pyrene	ug/L	2	1.5	1.7	74	86	69-117	15	20	
Benzo(b)fluoranthene	ug/L	2	1.3	1.5	66	74	54-107	11	22	
Benzo(g,h,i)perylene	ug/L	2	0.87	1.1	44	53	13-86	19	33	
Benzo(k)fluoranthene	ug/L	2	1.4	1.7	72	86	63-128	18	20	
Chrysene	ug/L	2	2.0	2.2	101	112	69-150	11	20	
Dibenz(a,h)anthracene	ug/L	2	0.70	0.87	35	44	10-87	21	37	
Fluoranthene	ug/L	2	1.6	1.8	80	89	57-103	11	20	
Fluorene	ug/L	2	1.3	1.5	67	73	38-85	9	28	
Indeno(1,2,3-cd)pyrene	ug/L	2	1.4	1.5	68	75	40-111	11	22	
Naphthalene	ug/L	2	1.1	1.2	56	60	39-82	7	28	

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QUALITY CONTROL DATA

Project: 34283.000 NATIONAL PRESTO IND.

Pace Project No.: 40162680

Parameter	Units	LABORATORY CONTROL SAMPLE & LCSD: 1633274		1633275			% Rec Limits	RPD	Max RPD	Qualifiers
		Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec				
Phenanthrene	ug/L	2	1.2	1.3	60	65	46-96	8	25	
Pyrene	ug/L	2	1.7	1.8	83	90	57-110	8	20	
2-Fluorobiphenyl (S)	%				55	61	35-84			
Terphenyl-d14 (S)	%				76	86	10-129			

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QUALITY CONTROL DATA

Project: 34283.000 NATIONAL PRESTO IND.

Pace Project No.: 40162680

QC Batch: 277678	Analysis Method: SM 3500-Cr B (Online)
QC Batch Method: SM 3500-Cr B (Online)	Analysis Description: Chromium, Hexavalent by 3500
Associated Lab Samples: 40162680001	

METHOD BLANK: 1632266 Matrix: Water
Associated Lab Samples: 40162680001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chromium, Hexavalent	mg/L	<0.0051	0.017	12/20/17 12:30	

LABORATORY CONTROL SAMPLE: 1632267

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chromium, Hexavalent	mg/L	.3	0.32	107	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1632268 1632269

Parameter	Units	1632268		1632269		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		40162680001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result						
Chromium, Hexavalent	mg/L	<0.0051	.3	.3	0.31	0.32	104	106	90-110	2	20

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REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: 34283.000 NATIONAL PRESTO IND.
Pace Project No.: 40162680

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.

LABORATORIES

PASI-G Pace Analytical Services - Green Bay

BATCH QUALIFIERS

Batch: 277805

[M5] A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

Batch: 277909

[M5] A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

ANALYTE QUALIFIERS

S0 Surrogate recovery outside laboratory control limits.

S3 Surrogate recovery exceeded laboratory control limits. Analyte presence below reporting limits in associated sample.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 34283.000 NATIONAL PRESTO IND.

Pace Project No.: 40162680

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40162680001	MH-18	EPA 3010	278206	EPA 6010	278234
40162680001	MH-18	EPA 3510	277731	EPA 8270	277805
40162680001	MH-18	EPA 3510	277850	EPA 8270 by HVI	277909
40162680001	MH-18	SM 3500-Cr B (Online)	277678		

REPORT OF LABORATORY ANALYSIS

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(Please Print Clearly)

Company Name: Gannett Fleming, Inc.
 Branch/Location: Madison, WI
 Project Contact: Cliff Wright
 Phone: 608/836-1500 x6722
 Project Number: 34283.000
 Project Name: National Presto Industries (NPI)
 Project State: WI
 Sampled By (Print): Brett Seidlitz
 Sampled By (Sign): *Brett Seidlitz*
 PO #: Regulatory Program:



UPPER MIDWEST REGION
 MN: 612-607-1700 WI: 920-469-2436

COC No. 40162680

CHAIN OF CUSTODY

***Preservation Codes**
 A=None B=HCL C=H2SO4 D=HNO3 E=DI Water F=Methanol G=NaOH
 H=Sodium Bisulfate Solution I=Sodium Thiosulfate J=Other

Quote #: Pace 2017
 Mail To Contact: Cliff Wright
 Mail To Company: Gannett Fleming
 Mail To Address: 8025 Excelsior Dr. Madison, WI 53717

FILTERED?
(YES/NO)
 PRESERVATION
(CODE)*

Y/N	N	N	N							
Pick Letter	D	A	A							
Analyses Requested	Hardness & total metals	Hexavalent chromium	PAHs-8270/pentachlorophenol							

Invoice To Contact: See "Mail to Contact"
 Invoice To Company: "
 Invoice To Address: "
 Invoice To Phone: 608/836-1500 x6722

Data Package Options (billable)
 EPA Level III
 EPA Level IV

MS/MSD
 On your sample (billable)
 NOT needed on your sample

Matrix Codes
 A = Air W = Water
 B = Biota DW = Drinking Water
 C = Charcoal GW = Ground Water
 O = Oil SW = Surface Water
 S = Soil WW = Waste Water
 SI = Sludge WP = Wipe

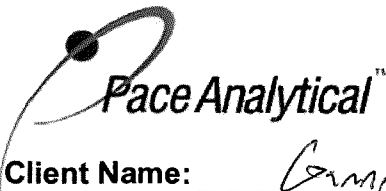
PACE LAB #	CLIENT FIELD ID	COLLECTION		MATRIX	Analyses Requested	Hardness & total metals	Hexavalent chromium	PAHs-8270/pentachlorophenol										
		DATE	TIME															
001	MH-18	12/19	12:45	GW		1	1	4										

CLIENT COMMENTS
Metals = Cr, Cu, Pb, Ni, Zn

LAB COMMENTS (Lab Use Only)
1-16g A, 2-250g Lp AD, 2-100g Lcg A

Profile #

Rush Turnaround Time Requested - Prelims (Rush TAT subject to approval/surcharge) Date Needed:	Relinquished By: <i>Brett Seidlitz</i> Date/Time: 12/19 13:00 hrs.	Received By: _____ Date/Time: _____	PACE Project No. 40162680
Transmit Prelim Rush Results by (complete what you want):	Relinquished By: Fed Ex Date/Time: 12/17 11:05	Received By: <i>[Signature]</i> Date/Time: 12/17 11:05	Receipt Temp = Rot °C
Email #1: cwright@gfnet.com	Relinquished By: _____ Date/Time: _____	Received By: _____ Date/Time: _____	Sample Receipt pH <i>OK</i> Adjusted
Email #2: _____	Relinquished By: _____ Date/Time: _____	Received By: _____ Date/Time: _____	Cooler Custody Seal Present / Not Present Intact / Not Intact
Telephone: _____	Relinquished By: _____ Date/Time: _____	Received By: _____ Date/Time: _____	
Fax: _____	Relinquished By: _____ Date/Time: _____	Received By: _____ Date/Time: _____	
Samples on HOLD are subject to special pricing and release of liability	Relinquished By: _____ Date/Time: _____	Received By: _____ Date/Time: _____	



Sample Condition Upon Receipt

Pace Analytical Services, LLC. - Green Bay WI
1241 Bellevue Street, Suite 9
Green Bay, WI 54302

Project #: _____
WO# : 40162680

Client Name: Gerritt Fleming

Courier: Fed Ex UPS Client Pace Other: _____
Tracking #: 8120 5814 3630



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: 40.2 1Corr: Biological Tissue is Frozen: yes no

Temp Blank Present: yes no

Person examining contents:
Date: 12/20/17
Initials: SSM

Temp should be above freezing to 6°C.
Biota Samples may be received at ≤ 0°C.

Comments:

Chain of Custody Present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1.
Chain of Custody Filled Out:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	2.
Chain of Custody Relinquished:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	3.
Sampler Name & Signature on COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	4.
Samples Arrived within Hold Time:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	5.
- VOA Samples frozen upon receipt	<input type="checkbox"/> Yes <input type="checkbox"/> No	Date/Time:
Short Hold Time Analysis (<72hr):	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	6.
Rush Turn Around Time Requested:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	7.
Sufficient Volume:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	8. <u>No rs / mgd vol.</u> <u>sm 12/20/17</u>
Correct Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	9.
-Pace Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
-Pace IR Containers Used:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Containers Intact:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	10. <u>1-1kg A - broken upon receipt</u> <u>sm 12/20/17</u>
Filtered volume received for Dissolved tests	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	11.
Sample Labels match COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	12.
-Includes date/time/ID/Analysis Matrix: <u>W</u>		
All containers needing preservation have been checked. (Non-Compliance noted in 13.)	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	13. <input checked="" type="checkbox"/> HNO3 <input type="checkbox"/> H2SO4 <input type="checkbox"/> NaOH <input type="checkbox"/> NaOH + ZnAct
All containers needing preservation are found to be in compliance with EPA recommendation. (HNO3, H2SO4 ≤2; NaOH+ZnAct ≥9, NaOH ≥12)	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
exceptions: VOA, coliform, TOC, TOX, TOH, O&G, WIDROW, Phenolics, OTHER:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Initial when completed: <u>SSM</u> Lab Std #ID of preservative: _____ Date/Time: _____
Headspace in VOA Vials (>6mm):	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	14.
Trip Blank Present:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	15.
Trip Blank Custody Seals Present	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> 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: 12/20/17

2017 DATA VALIDATION REPORTS

Presto Site Data Validation Technical Memorandum

March 2017 Sampling Event



Technical memorandum

DATE: January 13, 2018

TO: Derrick Paul

National Presto Industries, Inc.

FROM: Mary C Gannon

Owner MCW Scientific Solutions LLC

SUBJECT: Data Validation for National Presto Industries, Inc.

Interim Remedial Action Project

March 2017 Quarterly Groundwater Sampling Event

Project#: 34283

1.0 OVERVIEW

Analytical results (8260/524.2 volatiles, dissolved cadmium) for the samples listed in Table 1, collected by Gannett Fleming, Inc. from the interim remedial action at National Presto Industries, Inc. from March 20-22, 2017 have been evaluated using the EPA guidance documents the "National Functional Guidelines for Inorganic Superfund Methods Data Review", dated September 2016 and January 2017, and the "National Functional Guidelines for Superfund Organic Methods Data Review", dated September 2016 and January 2017. The project data quality objective was assumed to be that data were to be usable for the purposes of assessing the interim remedial action for the site groundwater. The review was based on data packages supplied by the analytical laboratory, Pace Analytical, located in Green Bay, Wisconsin and Minneapolis, Minnesota.

DQO Attainment

All volatile organic data was usable as reported without qualification.

All dissolved Cadmium data was usable as reported without qualification.

Presto Site Data Validation Technical Memorandum

March 2017 Sampling Event

Values qualified with a J code by the laboratory are those that are above the LOD, but less than the LOQ. The validated data sheets are attached.

2.0 DISSOLVED CADMIUM DATA

Pace utilized EPA method 6010 for dissolved metals analysis. No significant deviations from this method that affected data quality were evident from the documentation supplied. No action was needed to qualify sample data.

2.1 Completeness Assessment

The metals analyses included a summary of the lab blank, calibration check standards, initial calibration curve coefficient and MS/MSD results. The required method 6010 frequency for internal laboratory QC samples and calibration checks were met. All samples collected and indicated on the chain-of-custody form were analyzed. No action was needed to qualify sample data.

No custody seals were present on the sample coolers and the chain-of-custody documentation was therefore not complete. However as no indication of cooler opening during transit was apparent, no action was taken to qualify sample data.

2.2 Compliance Assessment

2.2.1 Holding Time/Preservation

All samples were analyzed within the 6 month holding time for metals. Verification of sample pH upon receipt/analysis indicated that all samples were adequately preserved to pH < 2. Sample temperature upon receipt by the lab was acceptable. No action was needed to qualify cadmium sample data.

2.2.2 Calibration

The initial calibration curve coefficients were acceptable (> 0.995). Initial, continuing and final check standard recoveries were within the 90-110 % limits. No action was needed to qualify sample data.

2.2.3 Laboratory Blanks

No cadmium was reported in the method blank, initial or continuing calibration blanks analyzed with the project samples. No action was needed to qualify sample data.

March 2017 Sampling Event

2.2.4 MS/MSD Sample Recovery and RPD

Recoveries and the RPD values for metals in the sample analyzed as the MS/MSD (MW- 10A) were within data validation and Pace limits. No action was needed to qualify sample data.

2.2.5 Serial Dilution

Serial dilution percent difference was less than the 10 % limit for the serial dilution samples analyzed. No action was needed to qualify sample data.

2.3 Field QC Results

No field blanks or field duplicates were collected and analyzed for dissolved cadmium with the project samples. No action was needed to qualify sample data.

2.4 Data Usability

All dissolved cadmium data as reported by Pace was acceptable for use in the investigation.

3.0 VOLATILE ORGANICS DATA BY METHODS 8260B/524.2

Pace utilized EPA methods 8260B and 524.2 for project sample analysis as indicated in Table 1. No significant deviations from these reference methods affecting data quality were evident from the documentation received and reviewed. No action was needed to qualify sample data.

3.1 Completeness Assessment

The required method 8260 and 524.2 frequency for internal laboratory QC samples and calibration checks were met. All samples collected and indicated on the chain-of-custody form were analyzed.

No custody seals were present on the sample coolers for 8260 analysis and the chain-of-custody documentation was therefore not complete. However as no indication of cooler opening during transit was apparent, no action was taken to qualify sample data.

Several sample labeling gaps and errors were noted:

EW-1R U had no U on the label ID

Only the first page of the chain of custody for SDG40107069 had the samplers name and signature

Site Data Validation Technical Memorandum

h 2017 Sampling Event

DG 40147097 listed two vials for the trip blank but only one was received

None of these discrepancies required sample data validation, but the data user should be aware of these sample collection documentation errors.

3.2 Compliance Assessment

3.2.1 Holding Times/Preservation

All samples were analyzed within the 14 day holding time. Verification of sample pH upon analysis indicated that all samples were adequately preserved at a pH of < 2. No action was needed to qualify sample data.

Sample temperature upon receipt by the lab was acceptable as all were received at 2-6°C or "on ice". No action was needed to qualify sample data.

3.2.2 Initial Calibration and Tuning

BFB tuning results met method 8260 and 524.2 criteria as appropriate. No action was needed to qualify sample data.

Seven point initial calibration curves were analyzed on 2/17/17, 3/22/17 and 3/15/17 for method 8260. The 15 percent RSD limit required by method 8260 was met for all reported compounds. No action was needed to qualify sample data.

A nine point initial calibration for method 524.2 was analyzed on 3/23/17. Most RSD values for the reported volatile organics were less than the 20 % limit required for method 524.2. Tetrachloroethene and 1,1,1-trichloroethane were run by a quadratic fit and trichloroethene was run on a linear fit curve. No action was needed to qualify sample data.

3.2.3 Continuing Calibration

A 20 ug/L continuing calibration standard (CCAL) was analyzed according to methods 8260B and 524.2 every 12 hours. All Calibration Check Compounds met the method 8260B limits of < 20 % difference and the 524.2 limits of < 30 % difference. All response factors of reported compounds met data validation criteria. No action was needed to qualify sample data.

3.2.4 Laboratory Blanks

No detectable volatile organics above the LOD were present in the lab blanks analyzed with the project samples. No action was needed to qualify sample data.

Presto Site Data Validation Technical Memorandum

March 2017 Sampling Event

3.2.5 Surrogate Recoveries

All surrogate recoveries were within Pace limits of 70-130 % for SW-846 8260B and 75-125% for 524.2. No action was needed to qualify sample data.

3.2.6 Matrix Spike (MS)/Matrix Spike Duplicates (MSD)

Project samples used for method 8260 analyses MS/MSD were MW-76A, and EC-1. All recoveries and Relative Percent Difference limits established by Pace and found on QAPP worksheet #15 were met for all reported compounds. No action was needed to qualify sample data.

Project sample used for method 524.2 analyses MS/MSD was CW-11. All recoveries and Relative Percent Difference limits established by Pace and found on QAPP worksheet #15 were met for all reported compounds. No action was needed to qualify sample data.

3.2.7 Laboratory Control Standard

LCS samples at 20 or 50 ug/L were analyzed with every batch of 20 or less project samples. All recoveries and Relative Percent Difference limits established by Pace and found on QAPP worksheet #15 were met for all reported compounds. No action was needed to qualify sample data.

3.2.8 Internal Standards

Internal standard areas for quantitation ions in project samples were within the method 8260 and 524.2 limits of- 50 % to + 100 %. No action was needed to qualify sample data.

3.3 Field QC Results

Trip blanks collected with the project samples did not contain any target detectable volatile organics above the LOD. No action was needed to qualify sample data.

Field duplicates were collected for MW-23A, MW-45C, EW-6 and MW-70A. The calculated Relative Percent Difference (RPD) for the detected volatile organics between the sample and its field duplicate were as follows:

Presto Site Data Validation Technical Memorandum

March 2017 Sampling Event

Sample ID	MW-32A	MW-32A DUP	RPD	MW-70A	MW-70A DUP	RPD
Trichloroethene	1.3 ug/L	1.4 ug/L	7%	0.61 J ug/L	0.56 J ug/L	9%
1,1-Dichloroethane				0.37J ug/L	0.36 J ug/L	3%

The RPD values were within 50% as specified on QAPP Worksheet #12. No action taken was needed to qualify sample data.

3.4 Data Usability

All volatile organic data was useable as reported without additional qualification.

If you have any questions regarding the qualification of data or the data validation process/criteria used, please contact me at (512)970-4608.

Attachments:

Table 1
Validated Analytical Reports (hard copy)

cc: Gannett Fleming, Inc.

Table 1 Sample Results Validated March 2017

	Volatiles	Dissolved		Volatiles	Dissolved	Volatiles
	SW846	Cadmium		SW846	Cadmium	
SAMPLE ID	8260B	6010	SAMPLE ID	8260B	6010	524.2
EW-1R U	✓		MW-23A	✓		
EW-1R M	✓		MW-23A DUP	✓		
EW-1R L	✓		MW-23B	✓		
EW-2 U	✓		MW-76A	✓		
EW-2 L	✓		MW-76B	✓		
EW-5 U	✓		TRIP BLANK	✓		
EW-5 L	✓		EC-1	✓		
EW-6	✓					
EW-6 DUP	✓					
MW-10A		✓	CW-11			✓
MW-10B		✓	CW-15			✓
MW-34A	✓		CW-16			✓
MW-34B	✓		CW-17			✓
MW-34C	✓		CW-19			✓
MW-68B		✓	RAW			✓
MW-70A	✓		TOWER A			✓
MW-70A DUP	✓		TOWER B			✓
MW-70B	✓	✓	FINISHED PRODUCT			✓
MW-75		✓	TRIP BLANK			✓
MW-77A	✓					
MW-77B	✓					
MW-77C	✓					
MW-4A	✓					
MW-4B	✓					
TRIP BLANK	✓					

Presto Site Data Validation Technical Memorandum
June 2017 Sampling Event



Technical memorandum

DATE: January 14, 2018

TO: Derrick Paul
National Presto Industries, Inc.

FROM: Mary C Gannon
Owner MCW Scientific Solutions LLC

SUBJECT: Data Validation for National Presto Industries, Inc.
Interim Remedial Action Project
June 2017 Quarterly Groundwater Sampling Event
Project#: 34283

1.0 OVERVIEW

Analytical results (8260/524.2 volatiles, dissolved cadmium) for the samples listed in Table 1, collected by Gannett Fleming, Inc. from the interim remedial action at National Presto Industries, Inc. from June 12-14, 2017 have been evaluated using the EPA guidance documents the "National Functional Guidelines for Inorganic Superfund Methods Data Review", dated September 2016 and January 2017, and the "National Functional Guidelines for Superfund Organic Methods Data Review", dated September 2016 and January 2017. The project data quality objective was assumed to be that data were to be usable for the purposes of assessing the interim remedial action for the site groundwater. The review was based on data packages supplied by the analytical laboratory, Pace Analytical, located in Green Bay, Wisconsin and Minneapolis, Minnesota.

DQO Attainment

Volatile organic data will have one additional qualification. MW-4A. will be qualified as UJ (estimated non-detect) for 1,1,1- Trichloroethane.

June 2017 Sampling Event

All dissolved Cadmium data was usable as reported without qualification.

Values qualified with a J code by the laboratory are those that are above the LOD, but less than the LOQ. The validated data sheets are attached.

2.0 DISSOLVED CADMIUM DATA

Pace utilized EPA method 6010 for dissolved metals analysis. No significant deviations from this method that affected data quality were evident from the documentation supplied. No action was needed to qualify sample data.

2.1 Completeness Assessment

The metals analyses included a summary of the lab blank, calibration check standards, initial calibration curve coefficient and MS/MSD results. The required method 6010 frequency for internal laboratory QC samples and calibration checks were met. All samples collected and indicated on the chain-of-custody form were analyzed. No action was needed to qualify sample data.

No custody seals were present on the sample coolers and the chain-of-custody documentation was therefore not complete. However as no indication of cooler opening during transit was apparent, no action was taken to qualify sample data.

2.2 Compliance Assessment

2.2.1 Holding Time/Preservation

All samples were analyzed within the 6 month holding time for metals. Verification of sample pH upon receipt/analysis indicated that all samples were adequately preserved to pH < 2. Sample temperature upon receipt by the lab was acceptable. No action was needed to qualify cadmium sample data.

2.2.2 Calibration

The initial calibration curve coefficients were acceptable (> 0.995). Initial, continuing and final check standard recoveries were within the 90-110 % limits. No action was needed to qualify sample data.

2.2.3 Laboratory Blanks

No cadmium was reported in the method blank, initial or continuing calibration blanks analyzed with the project samples. No action was needed to qualify sample data.

Presto Site Data Validation Technical Memorandum

June 2017 Sampling Event

2.2.4 MS/MSD Sample Recovery and RPD

Recoveries and the RPD values for metals in the sample analyzed as the MS/MSD (MW- 10A) were within data validation and Pace limits. No action was needed to qualify sample data.

2.2.5 Serial Dilution

The sample tested for serial dilution (MW-10B) was less than 50X the MDL. Based on National Functional Guidelines, the sample is not sufficiently high to determine accuracy of a serial dilution. No action was needed to qualify sample data.

2.3 Field QC Results

No field blanks or field duplicates were collected and analyzed for dissolved cadmium with the project samples. No action was needed to qualify sample data.

2.4 Data Usability

All dissolved cadmium data as reported by Pace was acceptable for use in the investigation.

3.0 VOLATILE ORGANICS DATA BY METHODS 8260B/524.2

Pace utilized EPA methods 8260B and 524.2 for project sample analysis as indicated in Table 1. No significant deviations from these reference methods affecting data quality were evident from the documentation received and reviewed. No action was needed to qualify sample data.

3.1 Completeness Assessment

The required method 8260 and 524.2 frequency for internal laboratory QC samples and calibration checks were met. All samples collected and indicated on the chain-of-custody form were analyzed.

No custody seals were present on the sample coolers for 8260 analysis and the chain-of-custody documentation was therefore not complete. However as no indication of cooler opening during transit was apparent, no action was taken to qualify sample data.

Several sample labeling gaps and errors were noted:

Presto Site Data Validation Technical Memorandum

June 2017 Sampling Event

Sample 40151504-005 was labeled with EW-2' sample ID was determined by sample time.

MW-74B had no sample time on the label.

The chain of custody had an error on 40151610-035 (RW-16).

Sample MW-22B in SDG 40151610 was received with no sample volume.

The following samples had no date or time on the labels; EC-1, EC-2, EC-5, EC-6, RW-2B, RW-3A, RW-3B, RW-3C.

Only one set of trips blanks was submitted with SDG 40151728.

Sample EW-5 88' chain of custody time is 8:05 but was labeled as 8:10 and sample name on label was EW-88". Sample name was changed at the request of Cliff Wright.

Only the first page of the chain of custody for all SDGs had the samplers name and signature

None of these discrepancies required sample data validation, but the data user should be aware of these sample collection documentation errors.

3.2 Compliance Assessment

3.2.1 Holding Times/Preservation

All samples were analyzed within the 14 day holding time. Verification of sample pH upon analysis indicated that all samples were adequately preserved at a pH of < 2. No action was needed to qualify sample data.

Sample temperature upon receipt by the lab was acceptable as all were received at 2-6°C or "on ice". No action was needed to qualify sample data.

3.2.2 Initial Calibration and Tuning

BFB tuning results met method 8260 and 524.2 criteria as appropriate. No action was needed to qualify sample data.

Seven point initial calibration curves were analyzed on 5/31/17, 6/1/17, 6/9/17 and 6/14/17 for method 8260. The 15 percent RSD limit required by method 8260 was met for all reported compounds. No action was needed to qualify sample data.

A nine point initial calibration for method 524.2 was analyzed on 6/19/17. All RSD values for the reported volatile organics were less than the 20 % limit required for method 524.2. No action was needed to qualify sample data.

Presto Site Data Validation Technical Memorandum

June 2017 Sampling Event

3.2.3 Continuing Calibration

A 20 ug/L continuing calibration standard (CCAL) was analyzed according to methods 8260B and 524.2 every 12 hours. Most Calibration Check Compounds met the method 8260B limits of < 20 % difference and the 524.2 limits of < 30 % difference. On 6/20/17 1,1,1-Trichloroethane was above the 20% limit. The only sample reported with this CCV is MW-4A. All analytes were non-detects for this sample. Based on National Functional Guidelines The sample will be qualified as UJ (estimated non-detect) for 1,1,1-Trichloroethane

3.2.4 Laboratory Blanks

No detectable volatile organics above the LOD were present in the lab blanks analyzed with the project samples. No action was needed to qualify sample data.

3.2.5 Surrogate Recoveries

All surrogate recoveries were within Pace limits for SW-846 8260B and 524.2. No action was needed to qualify sample data.

3.2.6 Matrix Spike (MS)/Matrix Spike Duplicates (MSD)

Project samples used for method 8260 analyses MS/MSD were MW62-AR, MW-70B MW-76A, MW-52A, MW-38B, and RW-3A. All recoveries and Relative Percent Difference limits established by Pace and found on QAPP worksheet #15 were met for all reported compounds. No action was needed to qualify sample data.

Project sample used for method 524.2 analyses MS/MSD was CW-11. All recoveries and Relative Percent Difference limits established by Pace and found on QAPP worksheet #15 were met for all reported compounds. No action was needed to qualify sample data.

3.2.7 Laboratory Control Standard

LCS samples at 20 or 50 ug/L were analyzed with every batch of 20 or less project samples. All recoveries and Relative Percent Difference limits established by Pace and found on QAPP worksheet #15 were met for all reported compounds. No action was needed to qualify sample data.

3.2.8 Internal Standards

Internal standard areas for quantitation ions in project samples were within the method 8260 and 524.2 limits of - 50 % to + 100 %. No action was needed to qualify sample data.

Presto Site Data Validation Technical Memorandum

June 2017 Sampling Event

3.3 Field QC Results

Trip blanks collected with the project samples did not contain any target detectable volatile organics above the LOD. No action was needed to qualify sample data.

Field duplicates were collected for MW-74B, MW-77A, MW-51B, MW-54C, MW-41B, MW-35A, MW-61A, MW-61B and RW-2A. The calculated Relative Percent Difference (RPD) for the detected volatile organics between the sample and its field duplicate were as follows:

Sample ID	MW-51B	MW-51B Dup	RPD	MW-54C	MW-54C Dup	RPD	RW-2A	RW-2A Dup	RPD
Trichloroethene	4.2 ug/L	4.2 ug/L	0%	4.4 ug/L	4.5 ug/L	2.2%	1.1 ug/L	1.1 ug/L	0%

Sample ID	MW-41B	MW-41B Dup	RPD	MW-35A	MW-35A Dup	RPD	MW-61B	MW-61B Dup	RPD
Trichloroethene	2.2 ug/L	2.5 ug/L	12%	2.0 ug/L	1.7 ug/L	16%	0.35J ug/L	0.52J ug/L	39%
1,1,1-trichloroethane				0.68J ug/L	0.62J ug/L	9.2%			

The RPD values were within 50% as specified on QAPP Worksheet #12. No action taken was needed to qualify sample data.

3.4 Data Usability

Volatile organic data will have one additional qualification. MW-4A. will be qualified as UJ (estimated non-detect) for 1,1,1- Trichloroethane.

If you have any questions regarding the qualification of data or the data validation process/criteria used, please contact me at (512)970-4608.

Attachments:

Table 1
Validated Analytical Reports (hard copy)

cc: Gannett Fleming, Inc.

Meg Dew
11/14/17

Table 1 Sample Results Validated June 2017

SAMPLE ID	Volatiles	Dissolved	SAMPLE ID	Volatiles	Dissolved	SAMPLE ID	Volatiles	Dissolved	Volatiles
	SW846	Cadmium		SW846	Cadmium		SW846	Cadmium	
	8260B	6010		8260B	6010		8260B	6010	524.2
EW-1R U	✓		MW-55B	✓		RW-2ADUP	✓		
EW-1R M	✓		MW-55C	✓		MW-29B	✓		
EW-1R L	✓		MW-57A	✓		TRIP BLANK	✓		
EW-2 U	✓		MW-57B	✓					
EW-2 L	✓		MW-43A	✓		EW-5 78'		✓	
EW-5 U	✓		MW-43B	✓		EW-6		✓	
EW-5 L	✓		MW-45A	✓		MW-4A		✓	
EW1R-76'	✓		MW-45B	✓		MW-4B		✓	
EW1R-86'	✓		MW-45C	✓		MW-34A		✓	
EW1R-96'	✓		MW-47A	✓		MW-34B		✓	
EW-2-81'	✓		MW-47B	✓		MW-34C		✓	
EW-2-91'	✓		RW-16	✓		MW-68A		✓	
MW-5A	✓		RW-16B	✓		MW-68B		✓	
MW-5B	✓		RW-16C	✓		MW-70A		✓	
MW-6	✓		TRIP BLANK	✓		MW-70B		✓	
MW-62AR	✓		MW-51B DUP	✓		MW-75		✓	
MW-62B	✓		MH-18	✓		EW-5 88'		✓	
MW-62C	✓		MW-4A	✓					
MW-63A	✓		EC-1	✓					
MW-63B	✓		EC-2	✓					
MW-66A	✓		EC-5	✓		CW-11			✓
MW-66B	✓		EC-6	✓		CW-15			✓
MW-66C	✓		MW-22B	✓		CW-16			✓
MW-34A	✓		MW-23A	✓		CW-19			✓
MW-34B	✓		MW-23B	✓		CW-22			✓
MW-34C	✓		MW-38A	✓		CW-23			✓
MW-68A	✓		MW-38B	✓		RAW			✓
MW-68B	✓		MW-38C	✓		TOWER A			✓
MW-70A	✓		RW-2A	✓		TOWER B			✓
MW-70B	✓		RW-2B	✓		FINISHED PRODUCT			✓
MW-74A	✓		RW-2C	✓		CW-17			✓
MW-74B	✓		RW-15	✓		TRIP BLANK			✓
MW-74B DUP	✓		WW-15	✓					
TRIP BLANK	✓		MW-9A	✓					
EW-5- 78'	✓		MW-26A	✓					
EW-5- 88'	✓		MW-26B	✓					
EW-6	✓		MW-65A	✓					
MW-4B	✓		MW-65B	✓					
MW-76A	✓		MW-65C	✓					
MW-76B	✓		MW-41A	✓					
MW-77A	✓		MW-41B	✓					

Table 1 Sample Results Validated June 2017

SAMPLE ID	Volatiles	Dissolved	SAMPLE ID	Volatiles	Dissolved	SAMPLE ID	Volatiles	Dissolved	Volatiles
	SW846	Cadmium		SW846	Cadmium		SW846	Cadmium	
	8260B	6010		8260B	6010		8260B	6010	524.2
MW-77A DUP	✓		MW-41B DUP	✓					
MW-77B	✓		MW-35A	✓					
MW-77C	✓		MW-35A DUP	✓					
PW-3R	✓		MW-35B	✓					
MW-49A	✓		MW-37B	✓					
MW-49B	✓		MW-60A	✓					
MW-51A	✓		MW-60B	✓					
MW-51B	✓		MW-61A	✓					
MW-52A	✓		MW-61A DUP	✓					
MW-52B	✓		MW-61B	✓					
MW-53A	✓		MW-61B DUP	✓					
MW-53B	✓		RW-3A	✓					
MW-54A	✓		RW-3B	✓					
MW-54B	✓		RW-3C	✓					
MW-54C	✓		MW-10A		✓				
MW-54C DUP	✓		MW-10B		✓				

MCA
1/14/18

Presto Site Data Validation Technical Memorandum

August 2017 Sampling Event



Technical memorandum

DATE: January 14, 2018

TO: Derrick Paul

National Presto Industries, Inc.

FROM: Mary C Gannon

Owner MCW Scientific Solutions LLC

SUBJECT: Data Validation for National Presto Industries, Inc.

Interim Remedial Action Project

August 2017 Quarterly Groundwater Sampling Event

Project#: 34283

MCG 1/14/18

1.0 OVERVIEW

Analytical results (8260/524.2 volatiles, dissolved cadmium) for the samples listed in Table 1, collected by Gannett Fleming, Inc. from the interim remedial action at National Presto Industries, Inc. from August 28-29, 2017 have been evaluated using the EPA guidance documents the "National Functional Guidelines for Inorganic Superfund Methods Data Review", dated September 2016 and January 2017, and the "National Functional Guidelines for Superfund Organic Methods Data Review", dated September 2016 and January 2017. The project data quality objective was assumed to be that data were to be usable for the purposes of assessing the interim remedial action for the site groundwater. The review was based on data packages supplied by the analytical laboratory, Pace Analytical, located in Green Bay, Wisconsin and Minneapolis, Minnesota.

DQO Attainment

All volatile organic data was usable as reported without qualification.

All dissolved Cadmium data was usable as reported without qualification.

Values qualified with a J code by the laboratory are those that are above the LOD, but less than the LOQ. The validated data sheets are attached.

2.0 DISSOLVED CADMIUM DATA

Pace utilized EPA method 6010 for dissolved metals analysis. No significant deviations from this method that affected data quality were evident from the documentation supplied. No action was needed to qualify sample data.

2.1 Completeness Assessment

The metals analyses included a summary of the lab blank, calibration check standards, LCS and MS/MSD results. The required method 6010 frequency for internal laboratory QC samples and calibration checks were met. All samples collected and indicated on the chain-of-custody form were analyzed. No action was needed to qualify sample data.

No custody seals were present on the sample coolers and the chain-of-custody documentation was therefore not complete. However as no indication of cooler opening during transit was apparent, no action was taken to qualify sample data.

2.2 Compliance Assessment

2.2.1 Holding Time/Preservation

All samples were analyzed within the 6 month holding time for metals. Verification of sample pH upon receipt/analysis indicated that all samples were adequately preserved to pH < 2. Sample temperature upon receipt by the lab was acceptable. No action was needed to qualify cadmium sample data.

2.2.2 Calibration

Initial, continuing and final check standard recoveries were within the 90-110 % limits. No action was needed to qualify sample data.

2.2.3 Laboratory Blanks

No cadmium was reported in the method blank, initial or continuing calibration blanks analyzed with the project samples. No action was needed to qualify sample data.

2.2.4 Laboratory Control Standard

An LCS sample at 500 ug/L was analyzed with every batch of 20 or less project samples. All recoveries and Relative Percent Difference limits established by Pace and found on QAPP worksheet #15 were met for all reported compounds. No action was needed to qualify sample data.

Presto Site Data Validation Technical Memorandum

August 2017 Sampling Event

2.2.5 MS/MSD Sample Recovery and RPD

Recoveries and the RPD values for metals in the sample analyzed as the MS/MSD (MW- 10A) were within data validation and Pace limits. No action was needed to qualify sample data.

2.2.6 Serial Dilution

The sample tested for serial dilution (MW-10B) was less than 50X the MDL. Based on National Functional Guidelines, the sample is not sufficiently high to determine accuracy of a serial dilution. No action was needed to qualify sample data.

2.3 Field QC Results

No field blanks or field duplicates were collected and analyzed for dissolved cadmium with the project samples. No action was needed to qualify sample data.

2.4 Data Usability

All dissolved cadmium data as reported by Pace was acceptable for use in the investigation.

3.0 VOLATILE ORGANICS DATA BY METHODS 8260B/524.2

Pace utilized EPA methods 8260B and 524.2 for project sample analysis as indicated in Table 1. No significant deviations from these reference methods affecting data quality were evident from the documentation received and reviewed. No action was needed to qualify sample data.

3.1 Completeness Assessment

The required method 8260 and 524.2 frequency for internal laboratory QC samples and calibration checks were met. All samples collected and indicated on the chain-of-custody form were analyzed.

No custody seals were present on the sample coolers for 8260 analysis and the chain-of-custody documentation was therefore not complete. However as no indication of cooler opening during transit was apparent, no action was taken to qualify sample data.

Several sample labeling gaps and errors were noted:

Two of the three VOA vials for sample "RAW" had headspace, one slightly larger than 6mm and one slightly less. The report has no indication of which of the three vials was used in the analysis.

Presto Site Data Validation Technical Memorandum

August 2017 Sampling Event

Only the first page of the chain of custody for SDG40155891 had the samplers name and signature.

SDG 4055891 listed a trip blank, but none were received.

None of these discrepancies required sample data validation, but the data user should be aware of these sample collection documentation errors.

3.2 Compliance Assessment

3.2.1 Holding Times/Preservation

All samples were analyzed within the 14 day holding time. Verification of sample pH upon analysis indicated that all samples were adequately preserved at a pH of < 2. No action was needed to qualify sample data.

Sample temperature upon receipt by the lab was acceptable as all were received at 2-6°C or "on ice". No action was needed to qualify sample data.

3.2.2 Initial Calibration and Tuning

BFB tuning results met method 8260 and 524.2 criteria as appropriate. No action was needed to qualify sample data.

Seven point initial calibration curves were analyzed on 7/26/17, and 8/24/17 for method 8260. The 15 percent RSD limit required by method 8260 was met for all reported compounds. No action was needed to qualify sample data.

A nine point initial calibration for method 524.2 was analyzed on 9/5/17. All RSD values for the reported volatile organics were less than the 20 % limit required for method 524.2. No action was needed to qualify sample data.

3.2.3 Continuing Calibration

A 20 ug/L continuing calibration standard (CCAL) was analyzed according to methods 8260B and 524.2 every 12 hours. All Calibration Check Compounds met the method 8260B limits of < 20 % difference and the 524.2 limits of < 30 % difference. All response factors of reported compounds met data validation criteria. No action was needed to qualify sample data.

3.2.4 Laboratory Blanks

No detectable volatile organics above the LOD were present in the lab blanks analyzed with the project samples. No action was needed to qualify sample data.

Presto Site Data Validation Technical Memorandum

August 2017 Sampling Event

3.2.5 Surrogate Recoveries

All surrogate recoveries were within Pace limits for SW846 8260B and 524.2. No action was needed to qualify sample data.

3.2.6 Matrix Spike (MS)/Matrix Spike Duplicates (MSD)

Project samples used for method 8260 analyses MS/MSD were MW-76A, and EC-1. All recoveries and Relative Percent Difference limits established by Pace and found on QAPP worksheet #15 were met for all reported compounds. No action was needed to qualify sample data.

Project sample used for method 524.2 analyses MS CW-11 and a sample duplicate on CW-15. All recoveries and Relative Percent Difference limits established by Pace and found on QAPP worksheet #15 were met for all reported compounds. No action was needed to qualify sample data.

3.2.7 Laboratory Control Standard

LCS samples at 20 or 50 ug/L were analyzed with every batch of 20 or less project samples. All recoveries and Relative Percent Difference limits established by Pace and found on QAPP worksheet #15 were met for all reported compounds. No action was needed to qualify sample data.

3.2.8 Internal Standards

Internal standard areas for quantitation ions in project samples were within the method 8260 and 524.2 limits of- 50 % to + 100 %. No action was needed to qualify sample data.

3.3 Field QC Results

No trip blanks were received with this set of data. No action was needed to qualify sample data.

Field duplicates were collected for EW-6, MW-76B, EW-5L and MW-70A. The calculated Relative Percent Difference (RPD) for the detected volatile organics between the sample and its field duplicate were as follows:

Sample ID	EW-5 L	EW-5 L Dup	RPD	MW-70A	MW-70A Dup	RPD	EW-6	EW-6 Dup	RPD
Trichloroethene	0.42J ug/L	0.38J ug/L	10%	0.61Jug/L	0.69J ug/L	12%	0.91J ug/L	0.73J ug/L	22%
1,1,1-trichloroethane				0.33J ug/L	0.43J ug/L	26%	1.4 ug/L	1.2 ug/L	15%

The RPD values were within 50% as specified on QAPP Worksheet #12. No action taken was needed to qualify sample data.

Presto Site Data Validation Technical Memorandum

August 2017 Sampling Event

3.4 Data Usability

All volatile organic data was useable as reported without additional qualification.

If you have any questions regarding the qualification of data or the data validation process/criteria used, please contact me at (512)970-4608.

Attachments:

Table 1
Validated Analytical Reports (hard copy)

cc: Gannett Fleming, Inc.

mcg
1/19/18

Table 1 Sample Results Validated A

	Volatiles	Dissolved		Volatiles
	SW846	Cadmium		524.2
SAMPLE ID	8260B	6010	SA	
EW-1R H	✓		CW-11	✓
EW-1R M	✓		CW-15	✓
EW-1R L	✓		CW-16	✓
EW-2 H	✓		CW-17	✓
EW-2 L	✓		CW-19	✓
EW-5 H	✓		CW-22	✓
EW-5 L	✓		CW-23	✓
EW-5 L DUP	✓		RAW	✓
MW-4A	✓		TOWE	✓
MW-4B	✓		TOWE	✓
MW-34A	✓		FINISHRODUCT	✓
MW-34B	✓			
MW-34C	✓			
MW-70A	✓			
MW-70B	✓			
MW-76A	✓			
MW-76B	✓			
MW-77A	✓			
MW-77B	✓			
MW-77C	✓			
MW-10A		✓		
MW-10B		✓		
MW-68B		✓		
MW-70B		✓		
MW-75		✓		
EC-1	✓			
MH-18	✓			
MW-23A	✓			
MW-23B	✓			
EW-6	✓			
EW-6 DUP	✓			
MW-70 A DUP	✓			
MW-76 B DUP	✓			

meq 1/19/18

Presto Site Data Validation Technical Memorandum

December 2017 Sampling Event



Technical memorandum

DATE: January 29, 2018

TO: Derrick Paul

National Presto Industries, Inc.

FROM: Mary C Gannon

Owner MCW Scientific Solutions LLC

SUBJECT: Data Validation for National Presto Industries, Inc.

Interim Remedial Action Project

December 2017 Quarterly Groundwater Sampling Event

Project#: 34283

Mary C Gannon
1/29/18

1.0 OVERVIEW

Analytical results (8260/524.2 volatiles, dissolved cadmium, 6010 metals and hardness calculation, 8270 PAH, 8270 SIM pentachlorophenol, and hexavalent chromium) for the samples listed in Table 1, collected by Gannett Fleming, Inc. from the interim remedial action at National Presto Industries, Inc. from December 12-19, 2017 have been evaluated using the EPA guidance documents the "National Functional Guidelines for Inorganic Superfund Methods Data Review", dated September 2016 and January 2017, and the "National Functional Guidelines for Superfund Organic Methods Data Review", dated September 2016 and January 2017. The project data quality objective was assumed to be that data were to be usable for the purposes of assessing the interim remedial action for the site groundwater. The review was based on data packages supplied by the analytical laboratory, Pace Analytical, located in Green Bay, Wisconsin and Minneapolis, Minnesota.

DQO Attainment

- All volatile organic data was usable as reported without qualification.
- All dissolved Cadmium data was usable as reported without qualification.
- All 6010 Metals/ hardness data was usable as reported without qualification.

Presto Site Data Validation Technical Memorandum

December 2017 Sampling Event

All PAH data was usable as reported without qualification.
All pentachlorophenol data was usable as reported without qualification.
All hexavalent chromium data was usable as reported without qualification.

Values qualified with a J code by the laboratory are those that are above the LOD, but less than the LOQ. The validated data sheets are attached.

2.0 DISSOLVED Cd DATA/ 6010 Cr, Cu, Pb, Ni, Zn Hardness 2340B Calculation, and Hexavalent Chromium

Pace utilized EPA method 6010 for metals/hardness analysis and SM3500-Cr B for hexavalent chromium. No significant deviations from this method that affected data quality were evident from the documentation supplied. No action was needed to qualify sample data.

2.1 Completeness Assessment

The metals analyses included a summary of the lab blank, calibration check standards, LCS and MS/MSD results. The required method 6010 and SM 3500-Cr B frequency for internal laboratory QC samples and calibration checks were met. All samples collected and indicated on the chain-of-custody form were analyzed. No action was needed to qualify sample data.

No custody seals were present on the sample coolers and the chain-of-custody documentation was therefore not complete. However, as no indication of cooler opening during transit was apparent, no action was taken to qualify sample data.

2.2 Compliance Assessment

2.2.1 Holding Time/Preservation

All samples for 6010 were analyzed within the 6 month holding time for metals, and Cr VI by SM3500-Cr B within 24 hours. Verification of sample pH upon receipt/analysis indicated that all samples were adequately preserved to pH < 2. Sample temperature upon receipt by the lab was acceptable. No action was needed to qualify sample data.

2.2.2 Calibration

Initial, continuing and final check standard recoveries were within the 90-110 % limits. No action was needed to qualify sample data.

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Presto Site Data Validation Technical Memorandum

December 2017 Sampling Event

2.2.3 Laboratory Blanks

No detects were reported in the method blanks, initial or continuing calibration blanks analyzed with the project samples. Just as a note, the lab qualified a few of the continuing calibration blanks as estimate for being slightly more negative than the IDL. The criteria found in National Functional Guidelines does not suggest qualifying at the IDL but based on the MDL. No action was needed to qualify sample data.

2.2.4 Laboratory Control Standard

An LCS sample at 500 ug/L was analyzed for 6010 metals with every batch of 20 or less project samples. An LCS sample at 0.3 mg/L was analyzed for SM3500-Cr B Cr VI. All recoveries and Relative Percent Difference limits established by Pace and found on QAPP worksheet #15 were met for all reported compounds. No action was needed to qualify sample data.

2.2.5 MS/MSD Sample Recovery and RPD

Recoveries and the RPD values for metals by 6010 and hexavalent chromium by SM3500-Cr B in the samples analyzed as the MS/MSD (MW- 70B, MH-18) were within data validation and Pace limits. No action was needed to qualify sample data.

2.2.6 Serial Dilution

No serial dilutions were analyzed on client samples. One batch had a serial dilution on a non-client sample. The other batches provided no data of a serial dilution. No action was needed to qualify sample data.

2.3 Field QC Results

No field blanks or field duplicates were collected and analyzed for metals or hexavalent chromium with the project samples. No action was needed to qualify sample data.

2.4 Data Usability

All metals, hardness and hexavalent chromium data as reported by Pace was acceptable for use in the investigation.

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1/20/18*

Presto Site Data Validation Technical Memorandum

December 2017 Sampling Event

3.0 VOLATILE ORGANICS DATA BY METHODS 8260B/524.2

Pace utilized EPA methods 8260B and 524.2 for project sample analysis as indicated in Table 1. No significant deviations from these reference methods affecting data quality were evident from the documentation received and reviewed. No action was needed to qualify sample data.

3.1 Completeness Assessment

The required method 8260 and 524.2 frequency for internal laboratory QC samples and calibration checks were met. All samples collected and indicated on the chain-of-custody form were analyzed.

No custody seals were present on the sample coolers for 8260 analyses and the chain-of-custody documentation was therefore not complete. However, as no indication of cooler opening during transit was apparent, no action was taken to qualify sample data.

Several sample labeling gaps and errors were noted:

Only the first page of the chain of custody's for had the samplers name and signature.

SDG 40162418 listed two trip blanks, but none were received.

SDG 40162590, samples RW-2A and RW-2C dup each had one vial with no label. Vials were labeled based on the samples it was packaged with.

None of these discrepancies required sample data validation, but the data user should be aware of these sample collection documentation errors.

3.2 Compliance Assessment**3.2.1 Holding Times/Preservation**

All samples were analyzed within the 14 day holding time. Verification of sample pH upon analysis indicated that all samples were adequately preserved at a pH of < 2. No action was needed to qualify sample data.

Sample temperature upon receipt by the lab was acceptable as all were received at 2-6°C or "on ice". No action was needed to qualify sample data.

Meg
1/2/18

Presto Site Data Validation Technical Memorandum

December 2017 Sampling Event

3.2.2 Initial Calibration and Tuning

BFB tuning results met method 8260 and 524.2 criteria as appropriate. No action was needed to qualify sample data.

Seven point initial calibration curves were analyzed on 11/2/17, 11/27/17, 12/11/17 and 12/12/17 for method 8260. The 15 percent RSD limit required by method 8260 was met for all reported compounds. No action was needed to qualify sample data.

A nine point initial calibration for method 524.2 was analyzed on 12/8/17. Most RSD values for the reported volatile organics were less than the 20 % limit required for method 524.2. Tetrachloroethene did not meet this criteria and calibration was evaluated on a quadratic curve. No action was needed to qualify sample data.

3.2.3 Continuing Calibration

A 20 ug/L continuing calibration standard (CCAL) was analyzed according to methods 8260B and 524.2 every 12 hours. All Calibration Check Compounds met the method 8260B limits of < 20 % difference and the 524.2 limits of < 30 % difference. All response factors of reported compounds met data validation criteria. No action was needed to qualify sample data.

3.2.4 Laboratory Blanks

No detectable volatile organics above the LOD were present in the lab blanks analyzed with the project samples. No action was needed to qualify sample data.

3.2.5 Surrogate Recoveries

All surrogate recoveries were within Pace limits for SW846 8260B and 524.2. No action was needed to qualify sample data.

3.2.6 Matrix Spike (MS)/Matrix Spike Duplicates (MSD)

Project samples used for method 8260 analyses MS/MSD were MW-62 AR, MW-70 B, MW-38 B, MW-76 A and RW-2A. All recoveries and Relative Percent Difference limits established by Pace and found on QAPP worksheet #15 were met for all reported compounds. No action was needed to qualify sample data.

No project sample was specified or analyzed for method 524.2 MS/MSD. A batch MS/MSD was analyzed and met all criteria. No action was needed to qualify sample data.

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Presto Site Data Validation Technical Memorandum

December 2017 Sampling Event

3.2.7 Laboratory Control Standard

LCS samples at 20 or 50 ug/L were analyzed with every batch of 20 or less project samples. All recoveries and Relative Percent Difference limits established by Pace and found on QAPP worksheet #15 were met for all reported compounds. No action was needed to qualify sample data.

3.2.8 Internal Standards

Internal standard areas for quantitation ions in project samples were within the method 8260 and 524.2 limits of- 50 % to + 100 %. No action was needed to qualify sample data.

3.3 Field QC Results

Three blanks were received with this set of data. No analytes were detected. No action was needed to qualify sample data.

Field duplicates were collected for EW-6, EC-1, RW-15, RW-2C, RW-3B, EW1R-M MW-4A, and MW-70A. The calculated Relative Percent Difference (RPD) for the detected volatile organics between the sample and its field duplicate were as follows:

Sample ID	MW-70A	MW-70A Dup	RPD	EW-6	EW-6 Dup	RPD	RW-15	RW-15 Dup	RPD
Trichloroethene	0.51 J ug/L	0.47 J ug/L	8.2%	0.65 J ug/L	0.76 J ug/L	16%	3.6 ug/L	3.8 ug/L	5.40%
1,1,1-trichloroethane	0.27 J ug/L	0.35 J ug/L	26%	1.1 ug/L	1.4 ug/L	24%	0.61 J ug/L	0.58 J ug/L	5.00%

Sample ID	EC-1	EC-1 Dup	RPD	RW-2C	RW-2C Dup	RPD	RW-3B	RW-3B Dup	RPD
Trichloroethene	1.6 ug/L	1.6 ug/L	0%	1.7 ug/L	1.7 ug/L	0%	3.0 ug/L	3.2 ug/L	6.50%

The RPD values were within 50% as specified on QAPP Worksheet #12. No action taken was needed to qualify sample data.

3.4 Data Usability

All volatile organic data was useable as reported without additional qualification.

4.0 SEMIVOLATILE PAH and Pentachlorophenol DATA BY METHODS 8270/ 8270 HVI

Pace utilized EPA methods 8270 and 8270 HVI for project sample analysis as indicated in Table 1. No significant deviations from these reference methods affecting data quality were evident from the documentation received and reviewed. No action was needed to qualify sample data.

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1/2/18*

Presto Site Data Validation Technical Memorandum

December 2017 Sampling Event

4.1 Completeness Assessment

The required method 8270 and 8270 HVI frequency for internal laboratory QC samples and calibration checks were met. All samples collected and indicated on the chain-of-custody form were analyzed.

No custody seals were present on the sample coolers for 8270 and 8270 HVI analysis and the chain-of-custody documentation was therefore not complete. However, as no indication of cooler opening during transit was apparent, no action was taken to qualify sample data.

Several sample labeling gaps and errors were noted:

Sample MH-18, one of the 4 containers received for semi-volatile analysis was broken.

Only the first page of the chain of custodies had the samplers name and signature.

None of these discrepancies required sample data validation, but the data user should be aware of these sample collection documentation errors.

4.2 Compliance Assessment**4.2.1 Holding Times/Preservation**

All samples were analyzed within the 7 day holding time. No action was needed to qualify sample data.

Sample temperature upon receipt by the lab was acceptable as all were received at 2-6°C or "on ice". No action was needed to qualify sample data.

4.2.2 Initial Calibration and Tuning

DFTPP tuning results met method 8270 and 8270 SIM criteria as appropriate. No action was needed to qualify sample data.

A seven point initial calibration curve was analyzed on 11/29/17 for method 8270. The 15 percent RSD limit required by method 8270 was met for all reported compounds. No action was needed to qualify sample data.

An eight point initial calibration for method 8270 SIM was analyzed on 8/29/17. All RSD values were less than the 15 percent limit required for method 8270 SIM. No action was needed to qualify sample data.

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1/29/18*

Presto Site Data Validation Technical Memorandum

December 2017 Sampling Event

4.2.3 Continuing Calibration

A continuing calibration standard (CCAL) was analyzed according to methods 8270/SIM every 12 hours. All Calibration Check Compounds met the method 8270/SIM limits of < 20 % difference. All response factors of reported compounds met data validation criteria. No action was needed to qualify sample data.

4.2.4 Laboratory Blanks

No detectable volatile organics above the LOD were present in the lab blanks analyzed with the project samples. No action was needed to qualify sample data.

4.2.5 Surrogate Recoveries

All surrogate recoveries were within Pace limits for 8270/SIM with the exception of terphenyl-d14 which failed slightly above the criteria limits. Since the sample was non-detect, no action was needed to qualify sample data. The laboratory applied their own qualifiers of "S0" and "S3" to point out this failure.

4.2.6 Matrix Spike (MS)/Matrix Spike Duplicates (MSD)

No project MS/MSDs were analyzed with this sample.

4.2.7 Laboratory Control Standard

LCS samples at 2.0 or 50 ug/L were analyzed with every batch of 20 or less project samples. All recoveries and Relative Percent Difference limits established by Pace and found on QAPP worksheet #15 were met for all reported compounds. No action was needed to qualify sample data.

4.2.8 Internal Standards

Internal standard areas for quantitation ions in project samples were within the method 8260 and 524.2 limits of - 50 % to + 100 %. No action was needed to qualify sample data.

4.3 Field QC Results

No trip blanks or field duplicates were received with this set of data. No action was needed to qualify sample data.

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1/29/18

Presto Site Data Validation Technical Memorandum

December 2017 Sampling Event

4.4 Data Usability

All 8270 and 8270 SIM organic data were useable as reported without additional qualification.

If you have any questions regarding the qualification of data or the data validation process/criteria used, please contact me at (512)970-4608.

Attachments:

Table 1
Validated Analytical Reports (hard copy)

cc: Gannett Fleming, Inc.

*Meg
Gannett
Fleming*

Table 1 Sample Results Validated December 2017

	Volatiles	Dissolved		Volatiles	Metals	Semi Volatiles			Volatiles
	SW846	Cadmium		SW846	Cr, Cu, Pb, Ni, Zn	PAH	Pentachlorophenol	Cr VI	
SAMPLE ID	8260B	6010	SAMPLE ID	8260B	6010/2340B	8270 SIM	8270	SM 3500-Cr B	524.2
EW-1R-H	✓		RW-2A	✓					
EW-1R-M	✓		RW-2B	✓					
EW-1R-M DUP	✓		RW-2C	✓					
EW-1R-L	✓		RW-2C DUP	✓					
EW-2 H	✓		RW-3A	✓					
EW-2 L	✓		RW-3B	✓					
MW-5A	✓		RW-3B DUP	✓					
MW-5B	✓		RW-3C	✓					
MW-4A	✓		MW-23A	✓					
MW-4A DUP	✓		MW-23B	✓					
MW-4B	✓		MW-45B	✓					
MW-62 AR	✓		MW-45C	✓					
MW-62 B	✓		TRIP BLANK	✓					
MW-66 A	✓								
MW-66 B	✓								
MW-66 C	✓		MH-18		✓	✓	✓	✓	
MW-70 A	✓								
MW-70 A DUP	✓								
MW-70 B	✓	✓							
MW-75		✓							
MW-34 A	✓	✓	CW-11						✓
MW-34 B	✓	✓	CW-15						✓
MW-34 C	✓		CW-16						✓
MW-10 A		✓	CW-17						✓
MW-10 B		✓	CW-19						✓
MH-18	✓	✓	CW-22						✓
TRIP BLANK	✓		CW-23						✓
EC-1	✓		RAW						✓
EW-5 H	✓	✓	TOWER A						✓
EW-5 L	✓	✓	TOWER B						✓
EW-6	✓	✓	FINISHED PRODUCT						✓
EW-6 DUP	✓		TRIP BLANK						✓
EC-1 DUP	✓								
MW-26 B	✓								

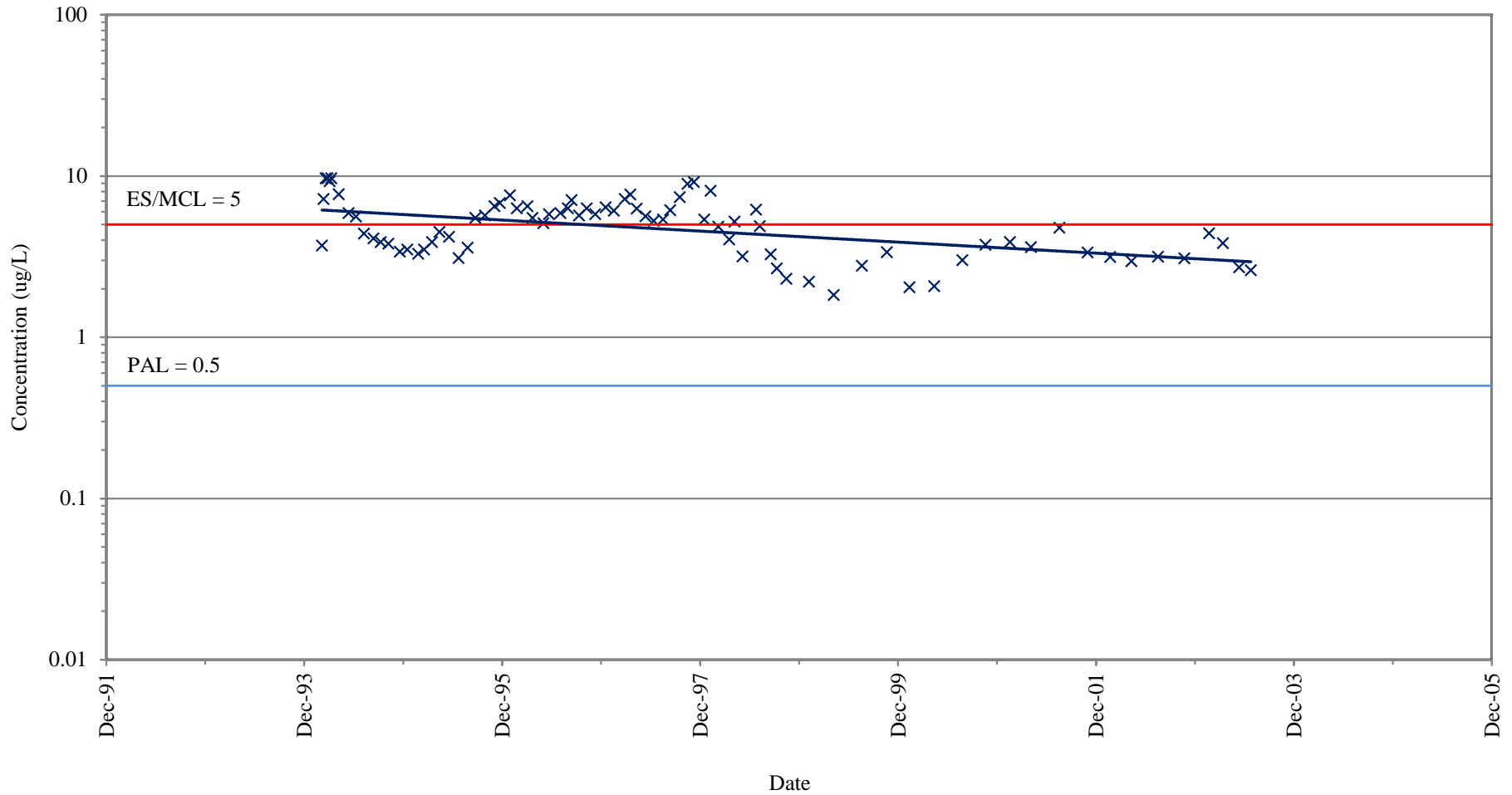
*MCG
1/26/18*

	Volatiles	Dissolved		Volatiles	Metals	Semi Volatiles			Volatiles
	SW846	Cadmium		SW846	Cr, Cu, Pb, Ni, Zn	PAH	Pentachlorophenol	Cr VI	
SAMPLE ID	8260B	6010	SAMPLE ID	8260B	6010/2340B	8270 SIM	8270	SM 3500-Cr B	524.2
MW-38 B	✓								
MW-68 B	✓	✓							
MW-74 A	✓								
MW-74 B	✓								
MW-76 A	✓								
MW-76 B	✓								
MW-77 A	✓								
MW-77 B	✓								
MW-77 C	✓								
RW-15	✓								
RW-15 DUP	✓								
MW-65 B	✓								
MW-65 C	✓								

*MCS
1/29/18*

APPENDIX B

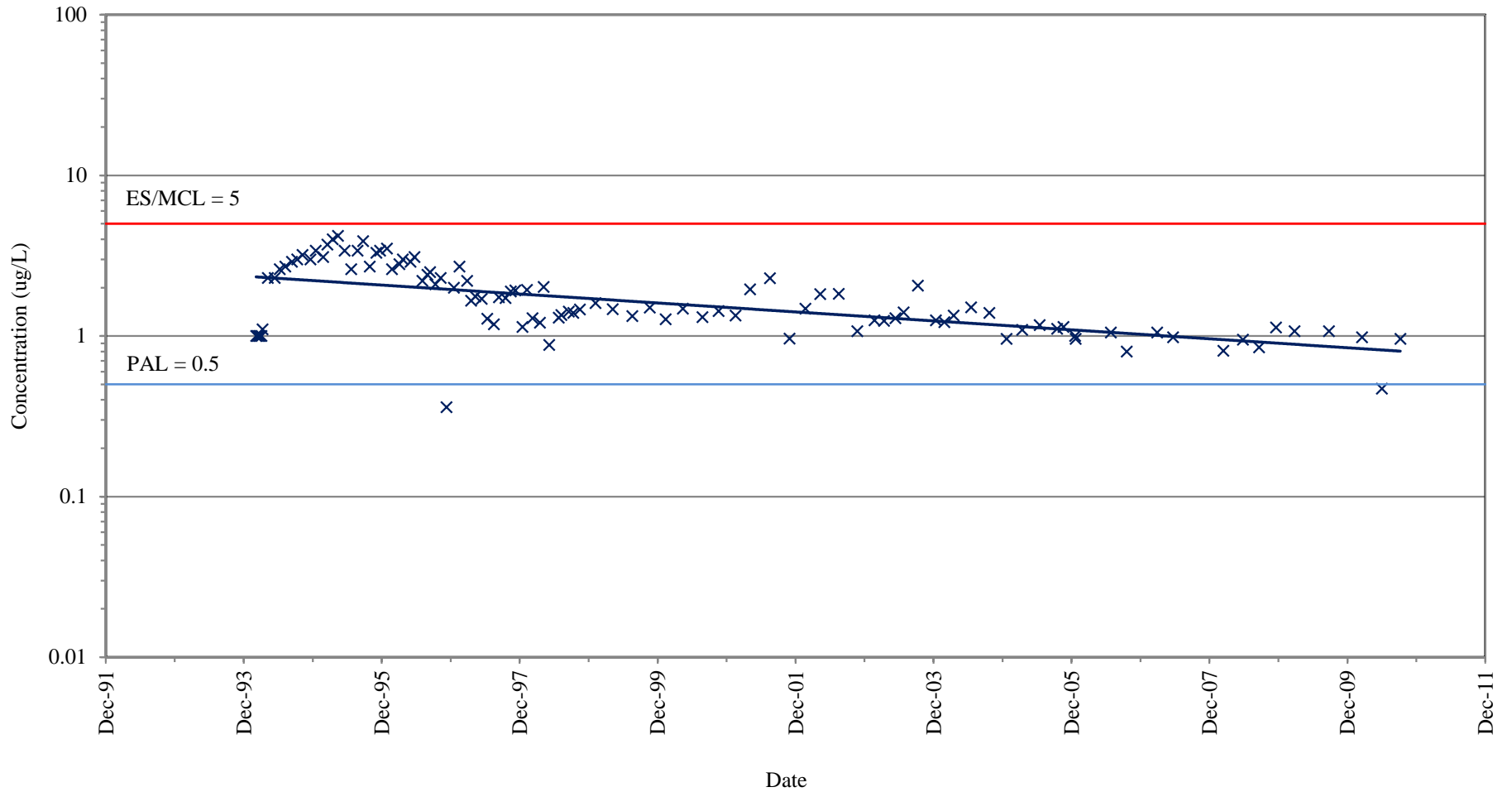
TCE CONCENTRATION VERSUS TIME GRAPHS
PLUME 1/2 (SOUTHWEST CORNER)



Note: Non-detect concentrations (if any) are plotted at the detection limit and best-fit exponential trend line generated using Excel.

PLUME 1/2 GROUNDWATER TCE CONCENTRATIONS
EW-3 (GRID COORDINATE K8)

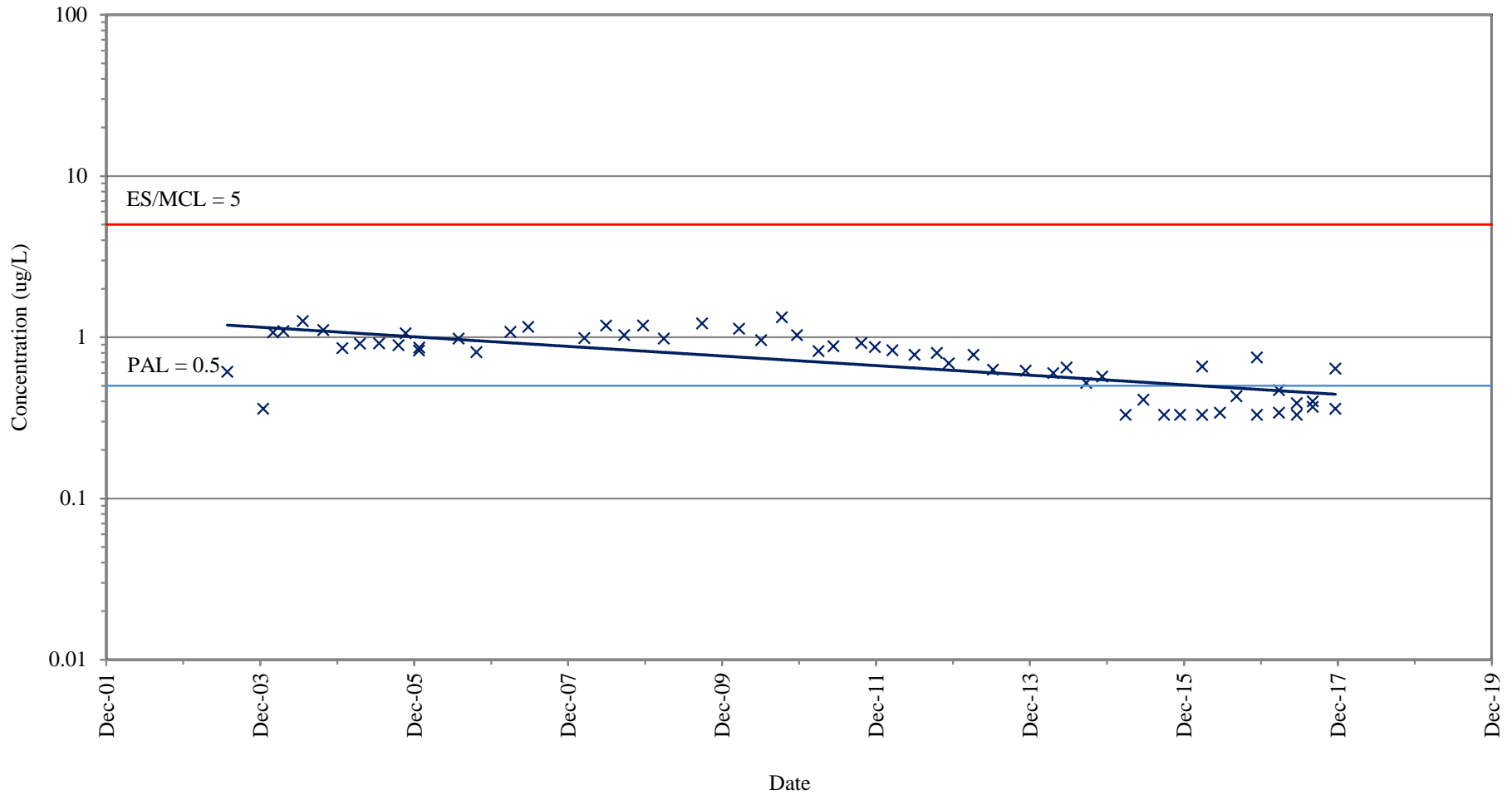
NATIONAL PRESTO INDUSTRIES, INC.
 EAU CLAIRE, WISCONSIN



Note: Non-detect concentrations (if any) are plotted at the detection limit and best-fit exponential trend line generated using Excel.

PLUME 1/2 GROUNDWATER TCE CONCENTRATIONS
EW-4 (GRID COORDINATE K7)

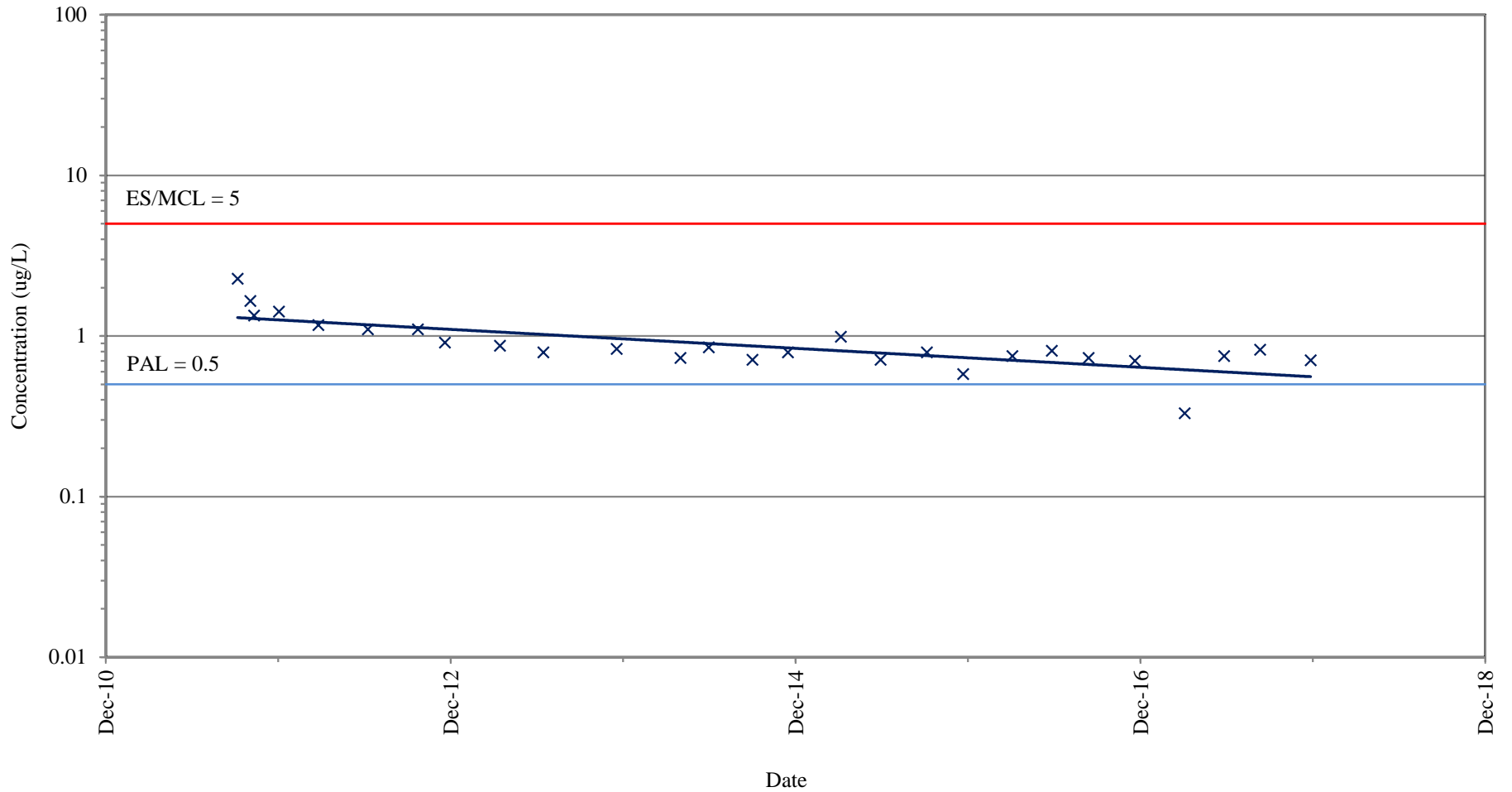
NATIONAL PRESTO INDUSTRIES, INC.
 EAU CLAIRE, WISCONSIN



Note: Non-detect concentrations (if any) are plotted at the detection limit and best-fit exponential trend line generated using Excel.

PLUME 1/2 GROUNDWATER TCE CONCENTRATIONS
EW-5 (GRID COORDINATE K7)

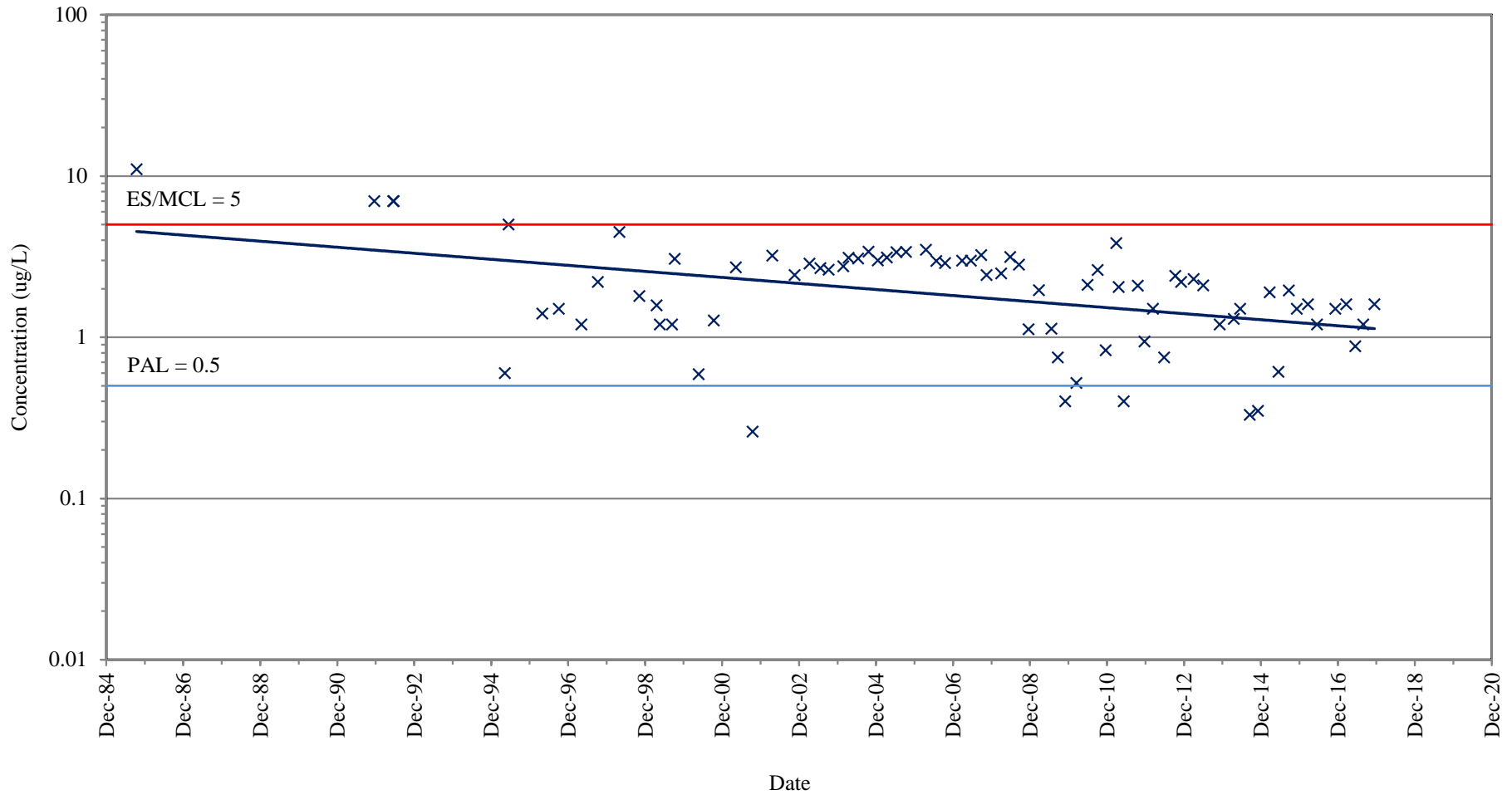
NATIONAL PRESTO INDUSTRIES, INC.
 EAU CLAIRE, WISCONSIN



Note: Non-detect concentrations (if any) are plotted at the detection limit and best-fit exponential trend line generated using Excel.

PLUME 1/2 GROUNDWATER TCE CONCENTRATIONS
EW-6 (GRID COORDINATE K7)

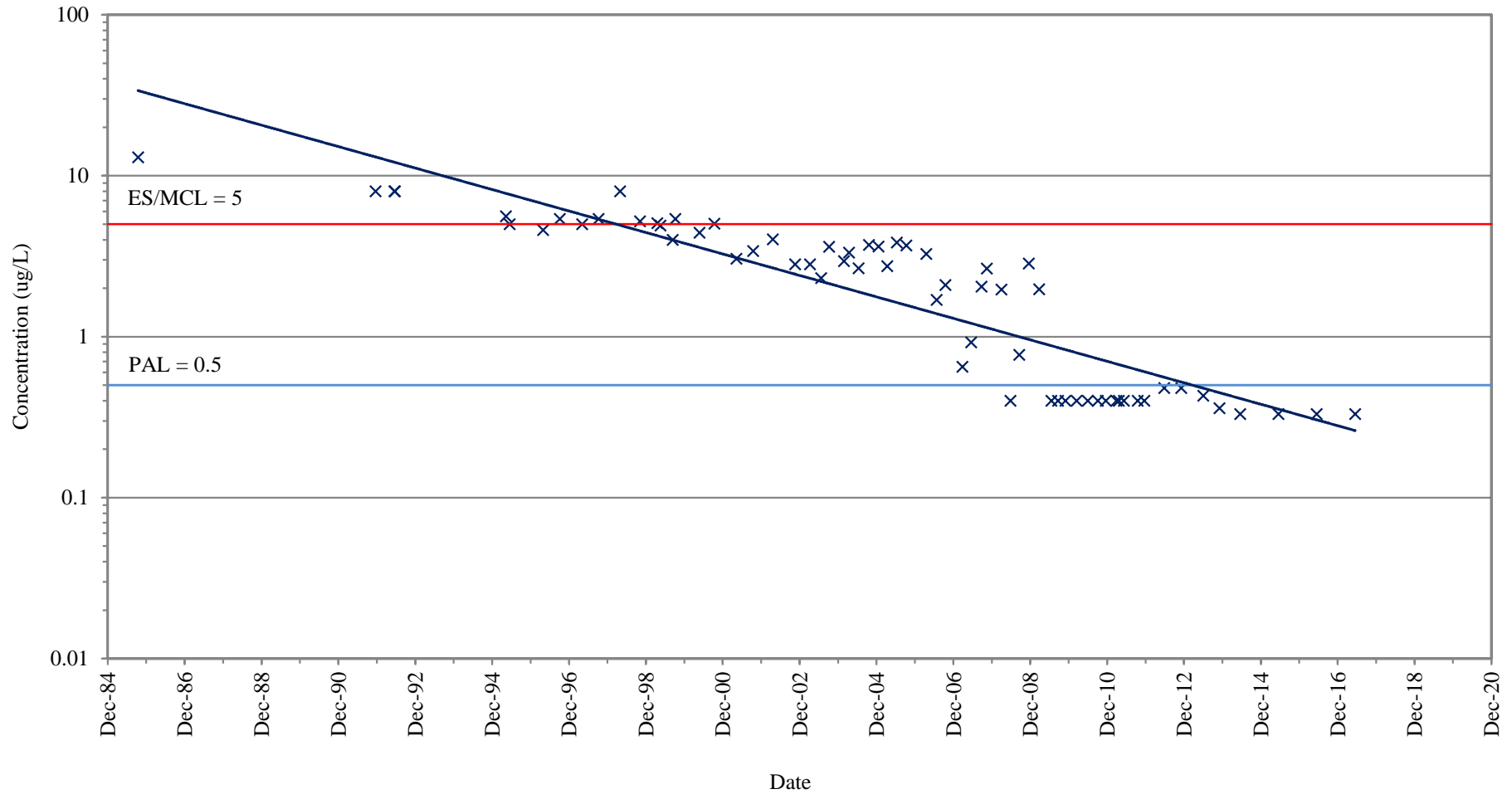
NATIONAL PRESTO INDUSTRIES, INC.
 EAU CLAIRE, WISCONSIN



Note: Non-detect concentrations (if any) are plotted at the detection limit and best-fit exponential trend line generated using Excel.

PLUME 1/2 GROUNDWATER TCE CONCENTRATIONS
EC-1 (GRID COORDINATE C7)

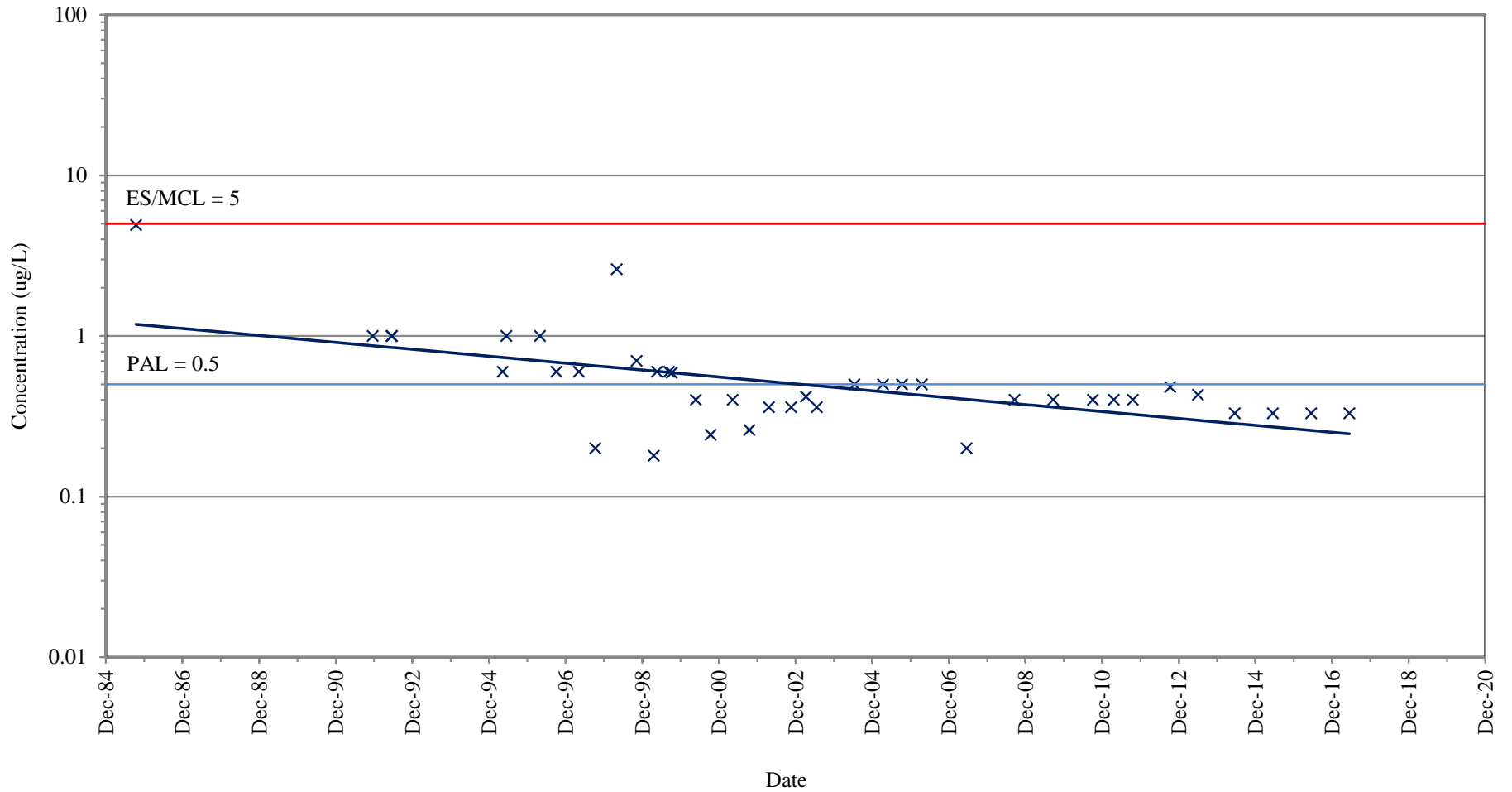
NATIONAL PRESTO INDUSTRIES, INC.
 EAU CLAIRE, WISCONSIN



Note: Non-detect concentrations (if any) are plotted at the detection limit and best-fit exponential trend line generated using Excel.

PLUME 1/2 GROUNDWATER TCE CONCENTRATIONS
EC-2 (GRID COORDINATE C7)

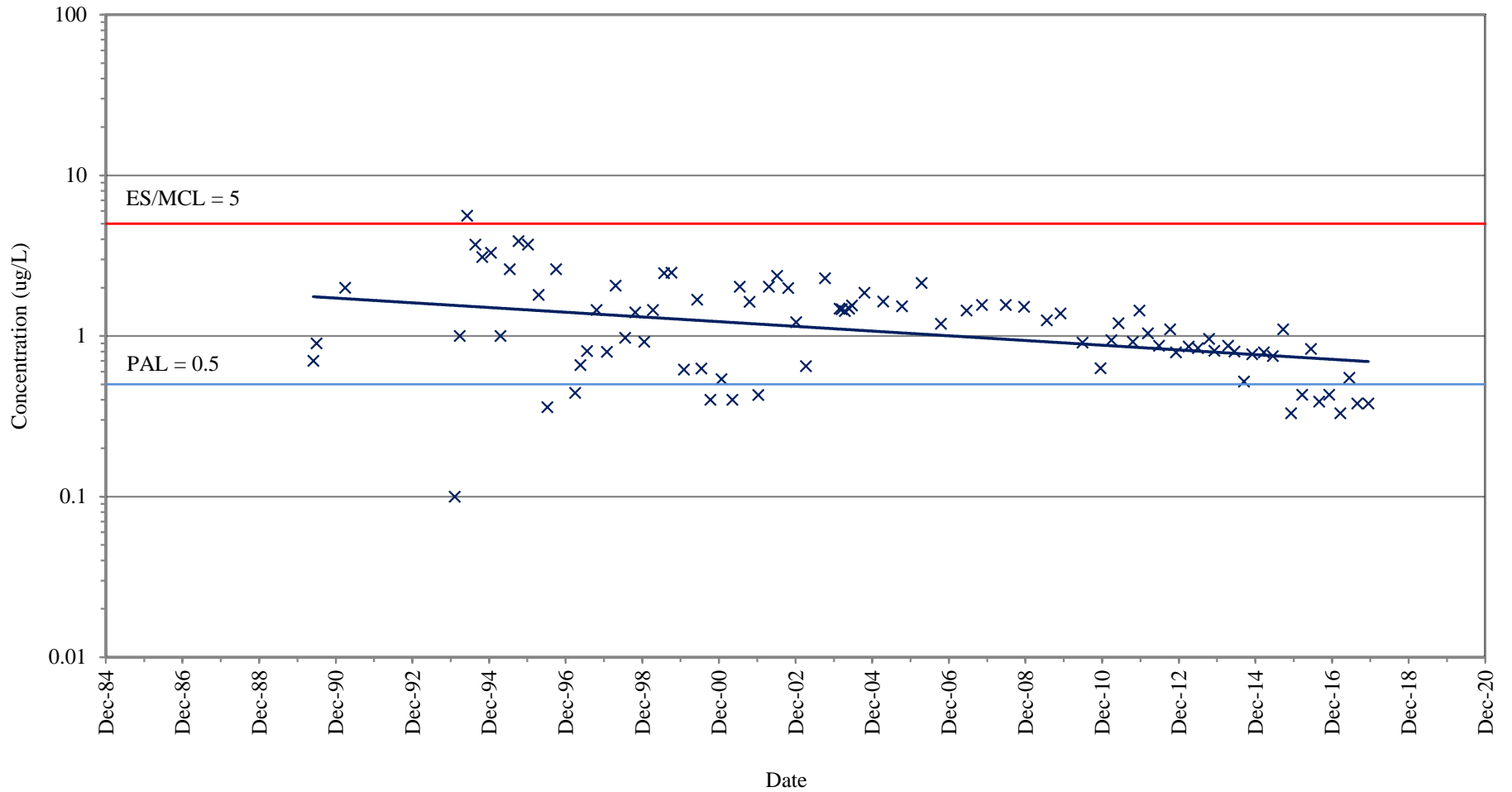
NATIONAL PRESTO INDUSTRIES, INC.
 EAU CLAIRE, WISCONSIN



Note: Non-detect concentrations (if any) are plotted at the detection limit and best-fit exponential trend line generated using Excel.

PLUME 1/2 GROUNDWATER TCE CONCENTRATIONS
EC-6 (GRID COORDINATE C7)

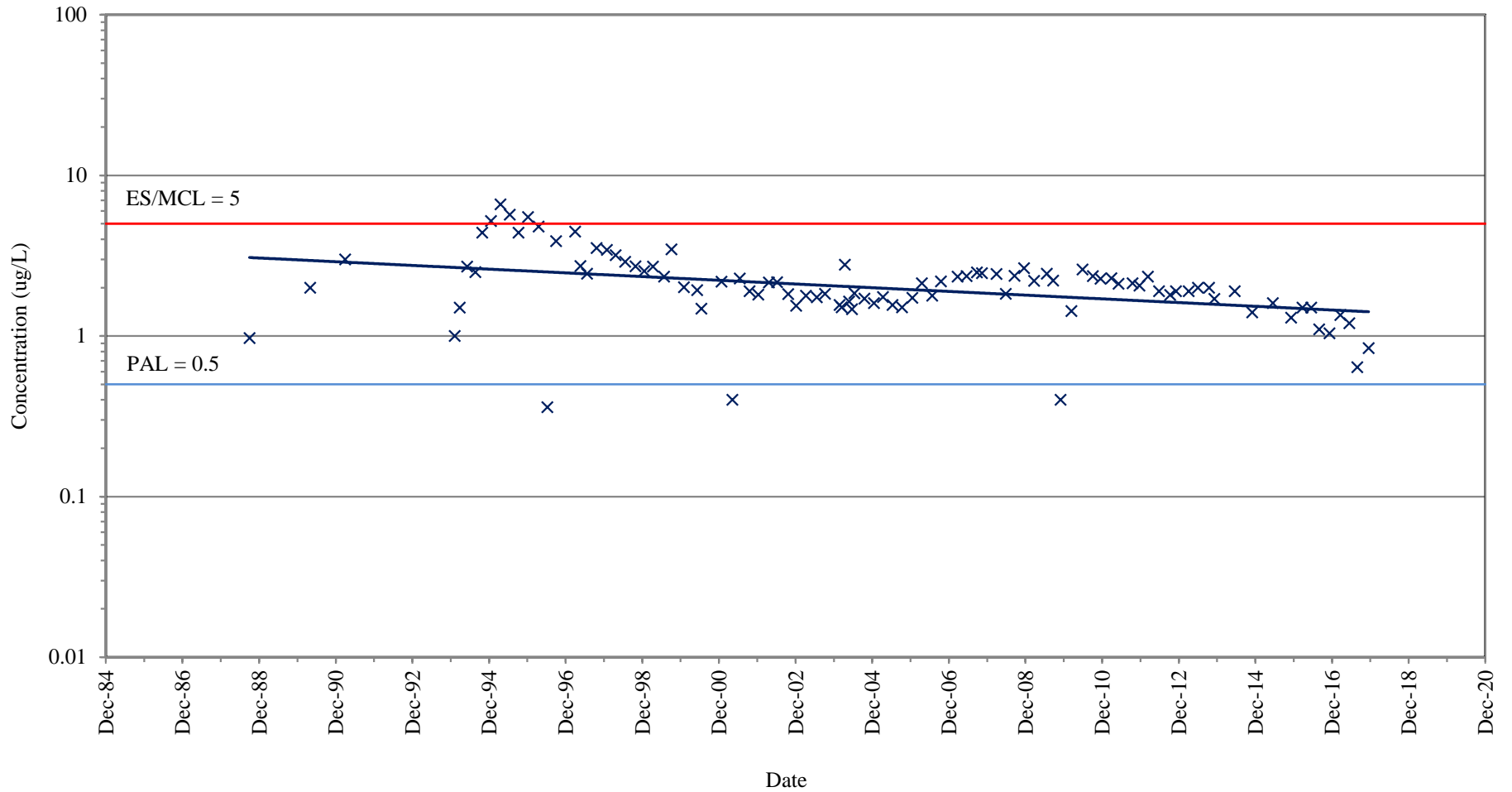
NATIONAL PRESTO INDUSTRIES, INC.
 EAU CLAIRE, WISCONSIN



Note: Non-detect concentrations (if any) are plotted at the detection limit and best-fit exponential trend line generated using Excel.

PLUME 1/2 GROUNDWATER TCE CONCENTRATIONS
MW-4B (GRID COORDINATE K7)

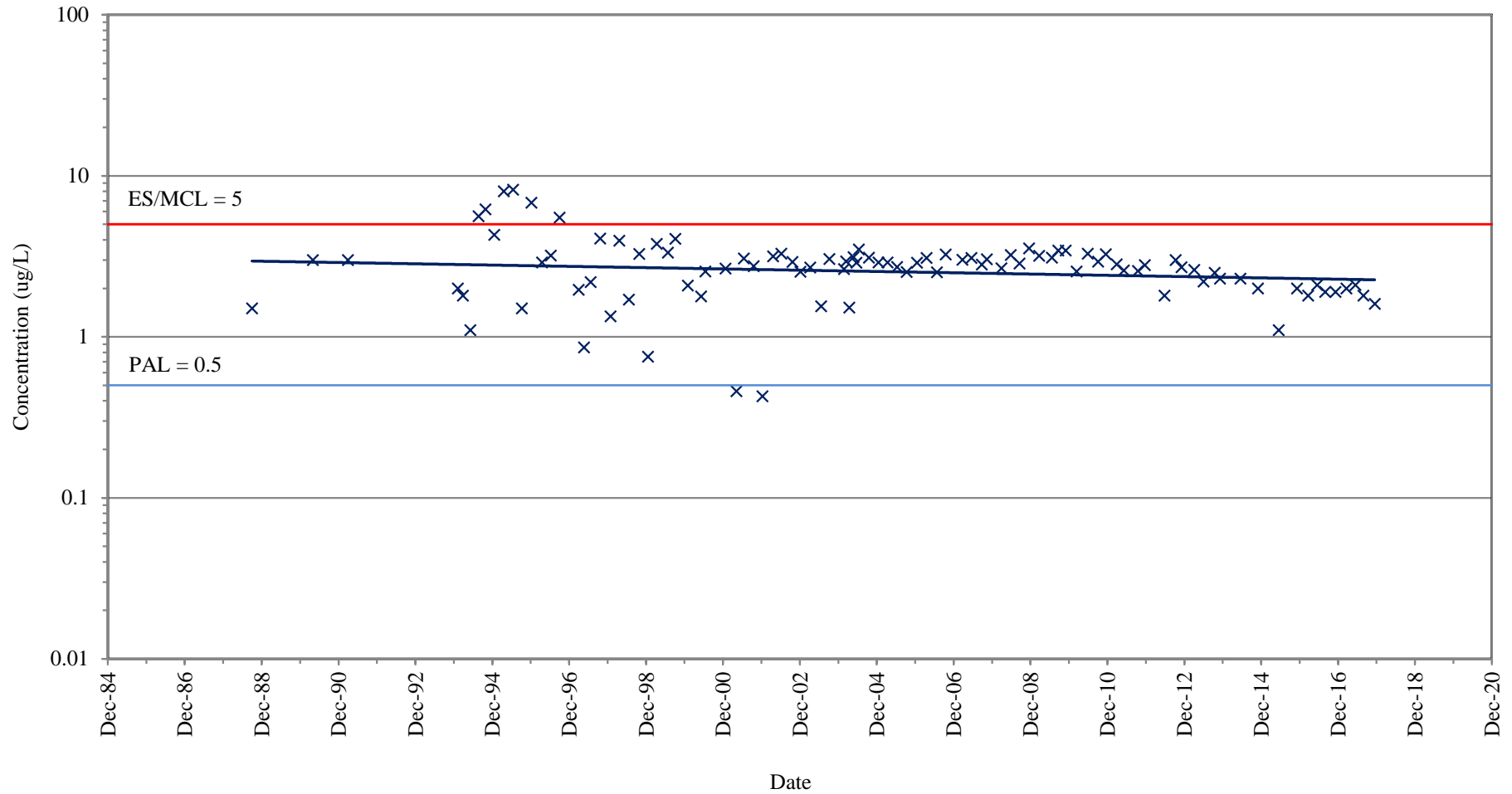
NATIONAL PRESTO INDUSTRIES, INC.
 EAU CLAIRE, WISCONSIN



Note: Non-detect concentrations (if any) are plotted at the detection limit and best-fit exponential trend line generated using Excel.

PLUME 1/2 GROUNDWATER TCE CONCENTRATIONS
MW-23A (GRID COORDINATE J7)

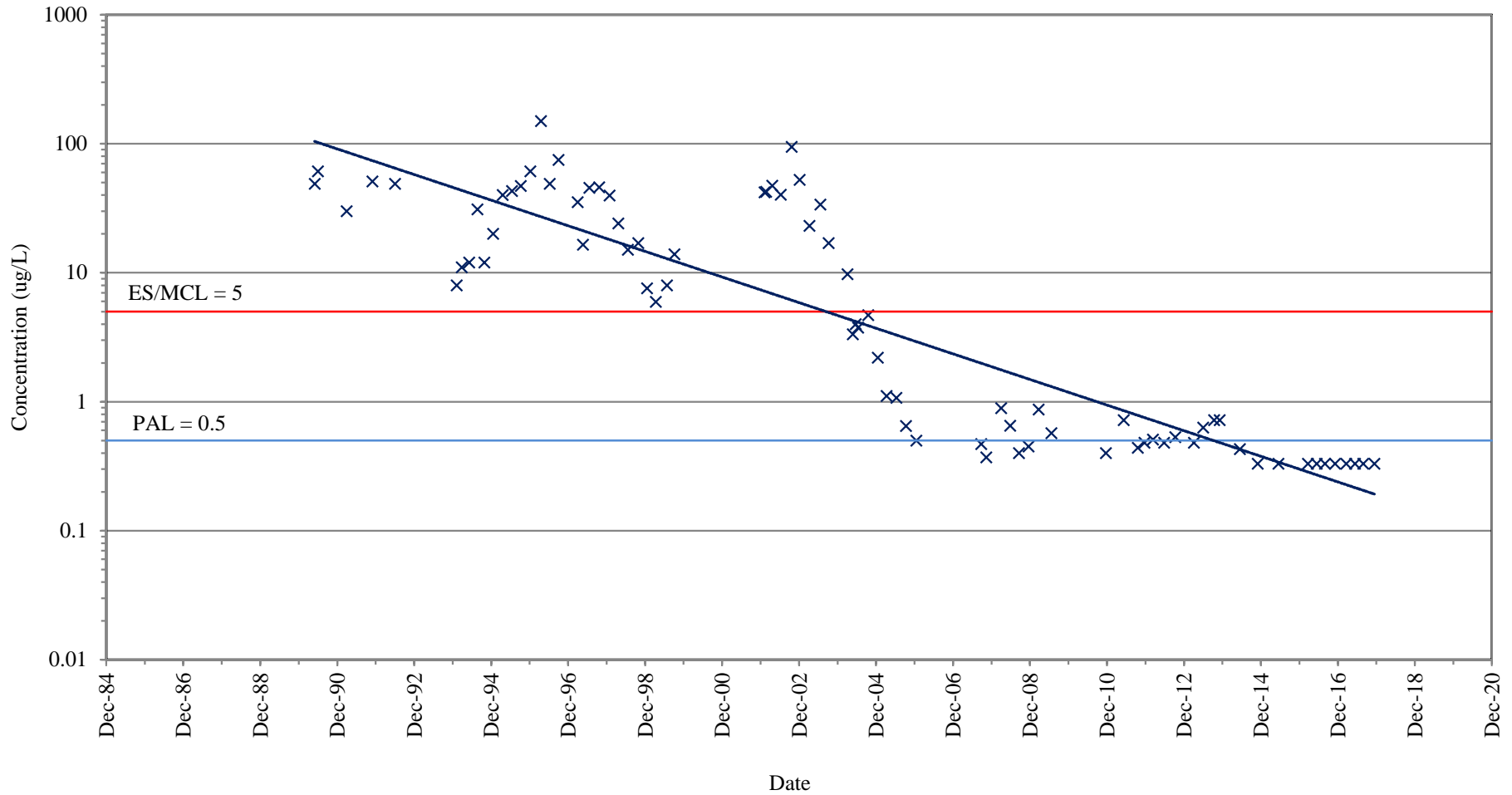
NATIONAL PRESTO INDUSTRIES, INC.
 EAU CLAIRE, WISCONSIN



Note: Non-detect concentrations (if any) are plotted at the detection limit and best-fit exponential trend line generated using Excel.

PLUME 1/2 GROUNDWATER TCE CONCENTRATIONS
MW-23B (GRID COORDINATE J7)

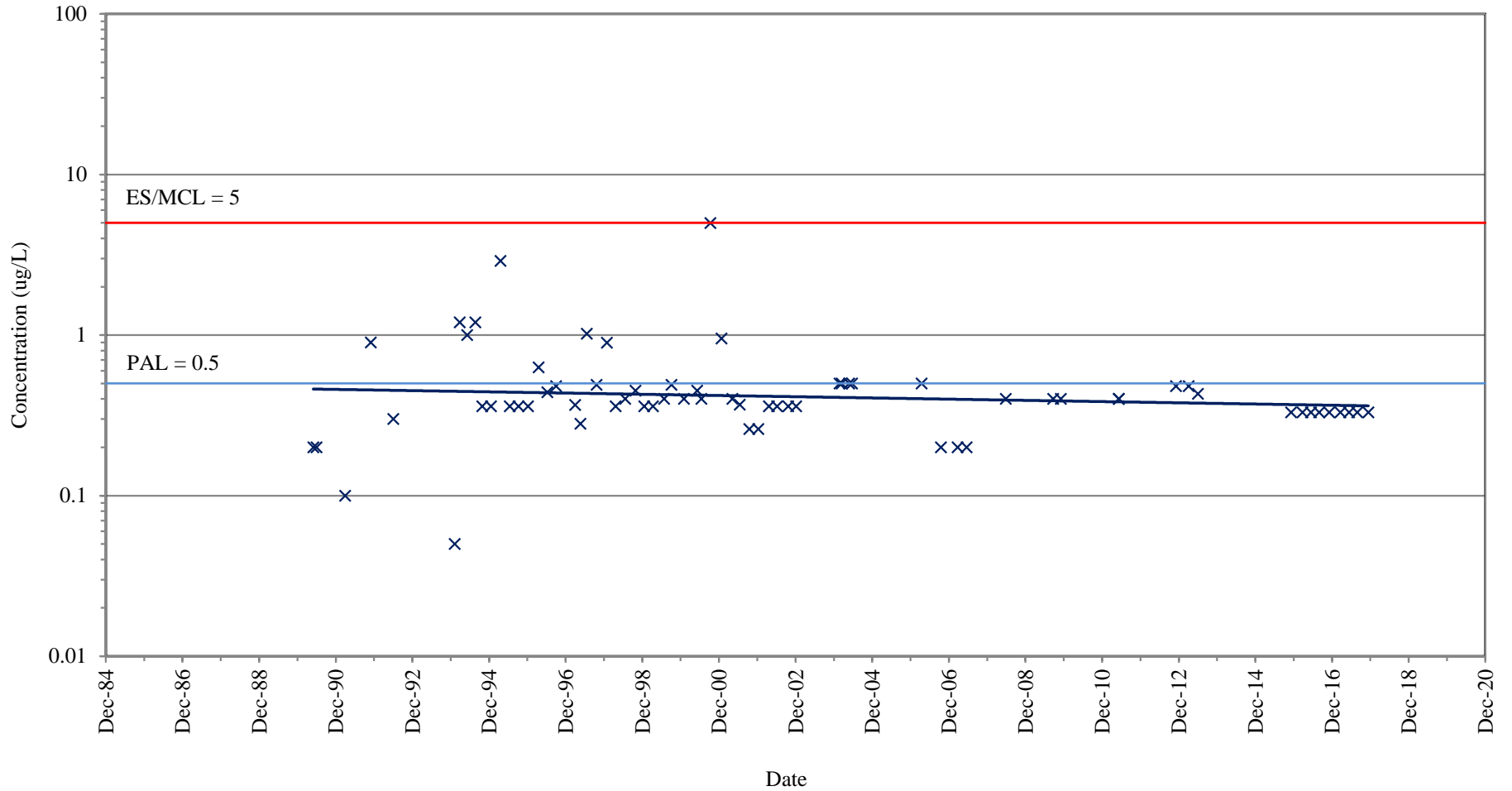
NATIONAL PRESTO INDUSTRIES, INC.
 EAU CLAIRE, WISCONSIN



Note: Non-detect concentrations (if any) are plotted at the detection limit and best-fit exponential trend line generated using Excel.

PLUME 1/2 GROUNDWATER TCE CONCENTRATIONS
MW-34A (GRID COORDINATE K8)

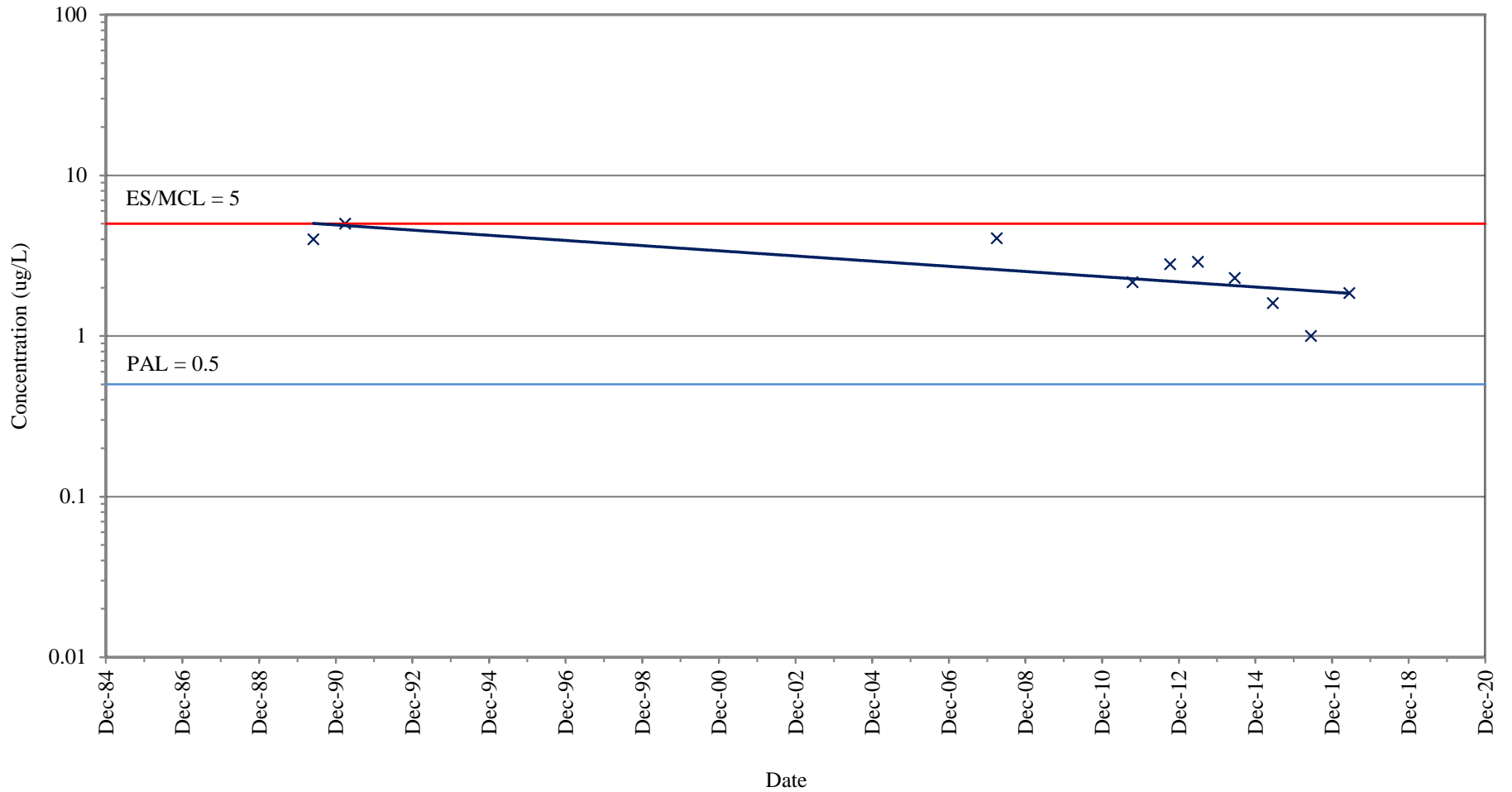
NATIONAL PRESTO INDUSTRIES, INC.
 EAU CLAIRE, WISCONSIN



Note: Non-detect concentrations (if any) are plotted at the detection limit and best-fit exponential trend line generated using Excel.

PLUME 1/2 GROUNDWATER TCE CONCENTRATIONS
MW-34B (GRID COORDINATE K8)

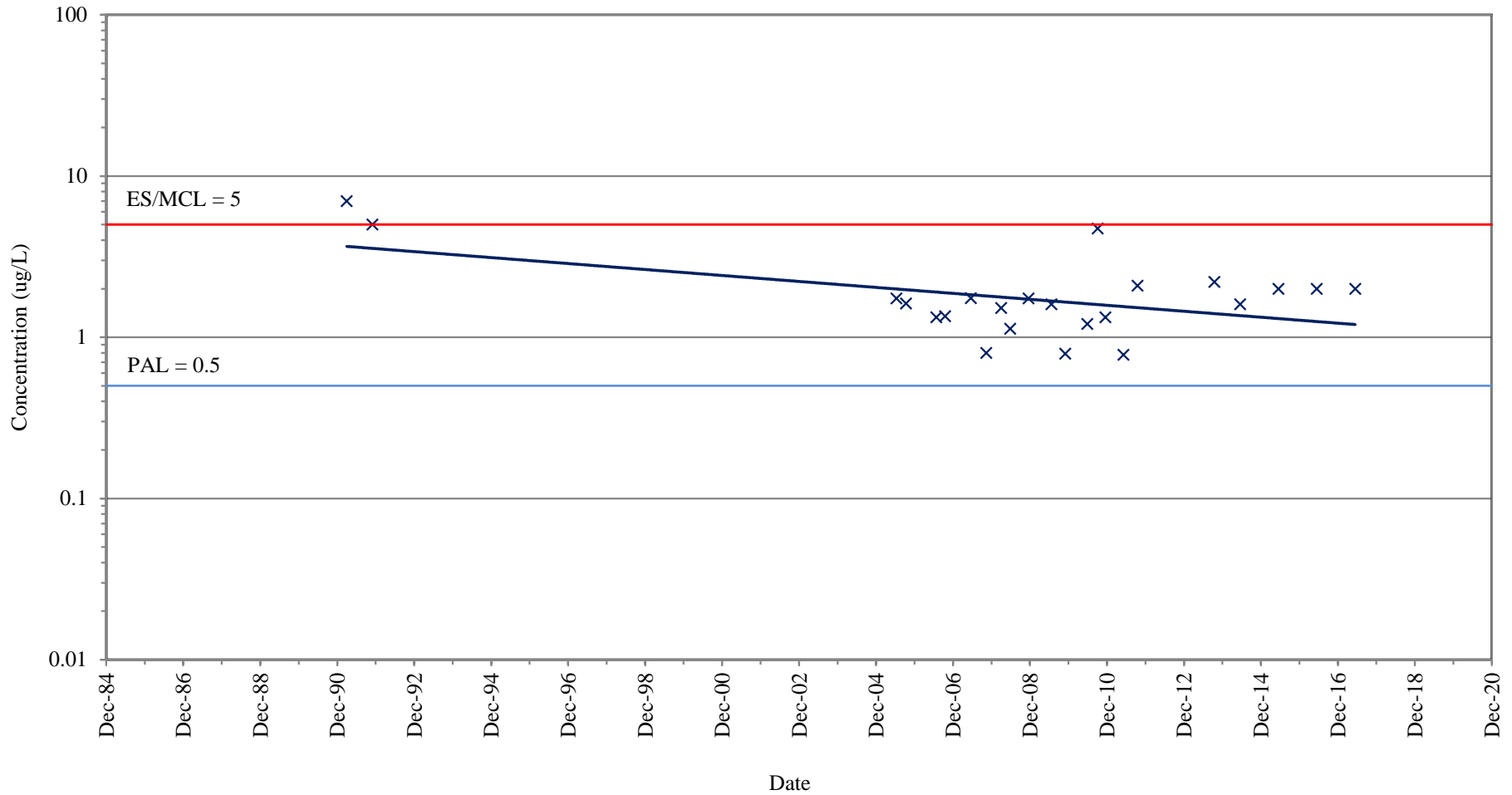
 NATIONAL PRESTO INDUSTRIES, INC.
 EAU CLAIRE, WISCONSIN



Note: Non-detect concentrations (if any) are plotted at the detection limit and best-fit exponential trend line generated using Excel.

PLUME 1/2 GROUNDWATER TCE CONCENTRATIONS
MW-35A (GRID COORDINATE K7)

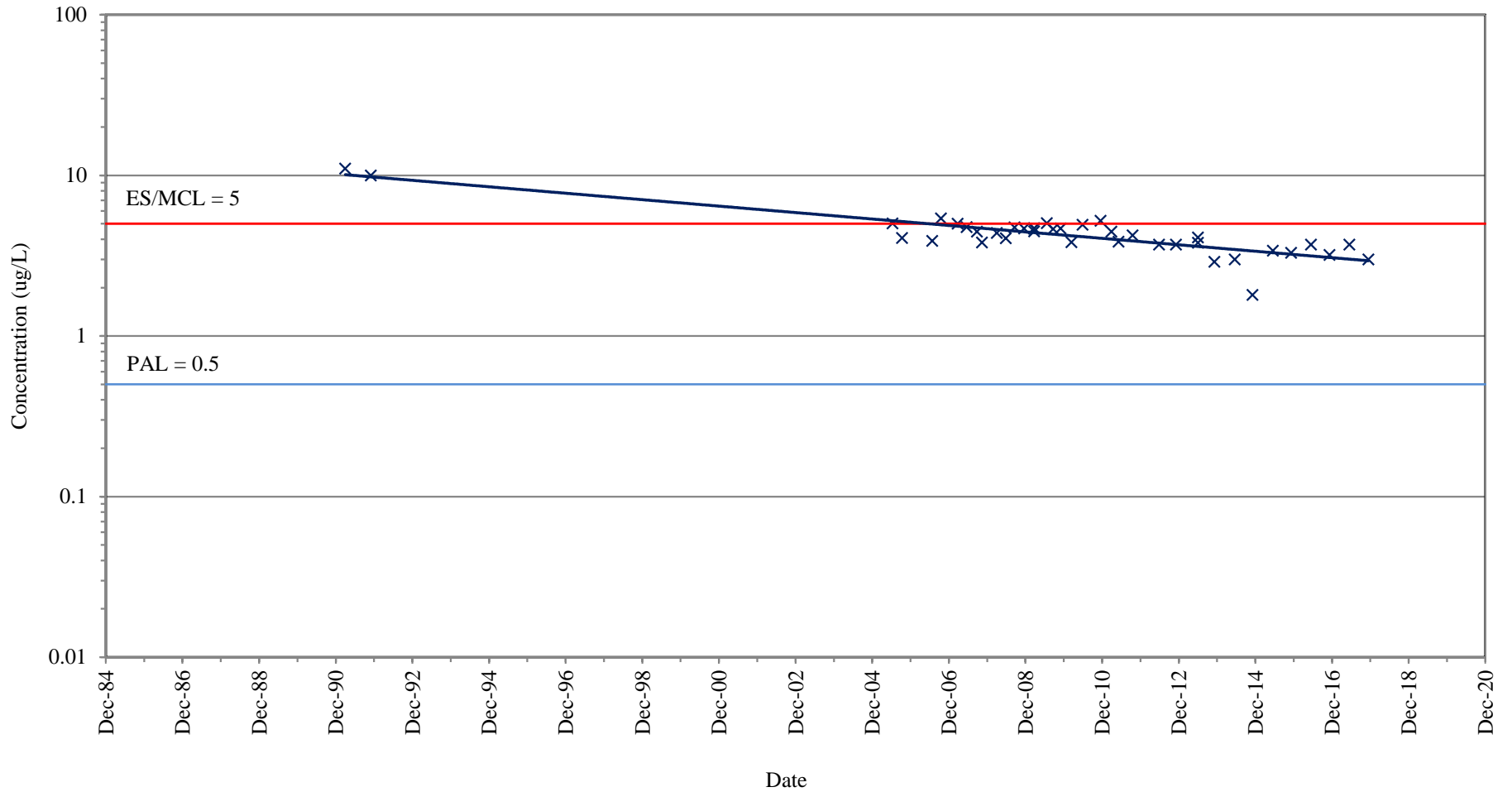
NATIONAL PRESTO INDUSTRIES, INC.
 EAU CLAIRE, WISCONSIN



Note: Non-detect concentrations (if any) are plotted at the detection limit and best-fit exponential trend line generated using Excel.

PLUME 1/2 GROUNDWATER TCE CONCENTRATIONS
MW-38A (GRID COORDINATE I8)

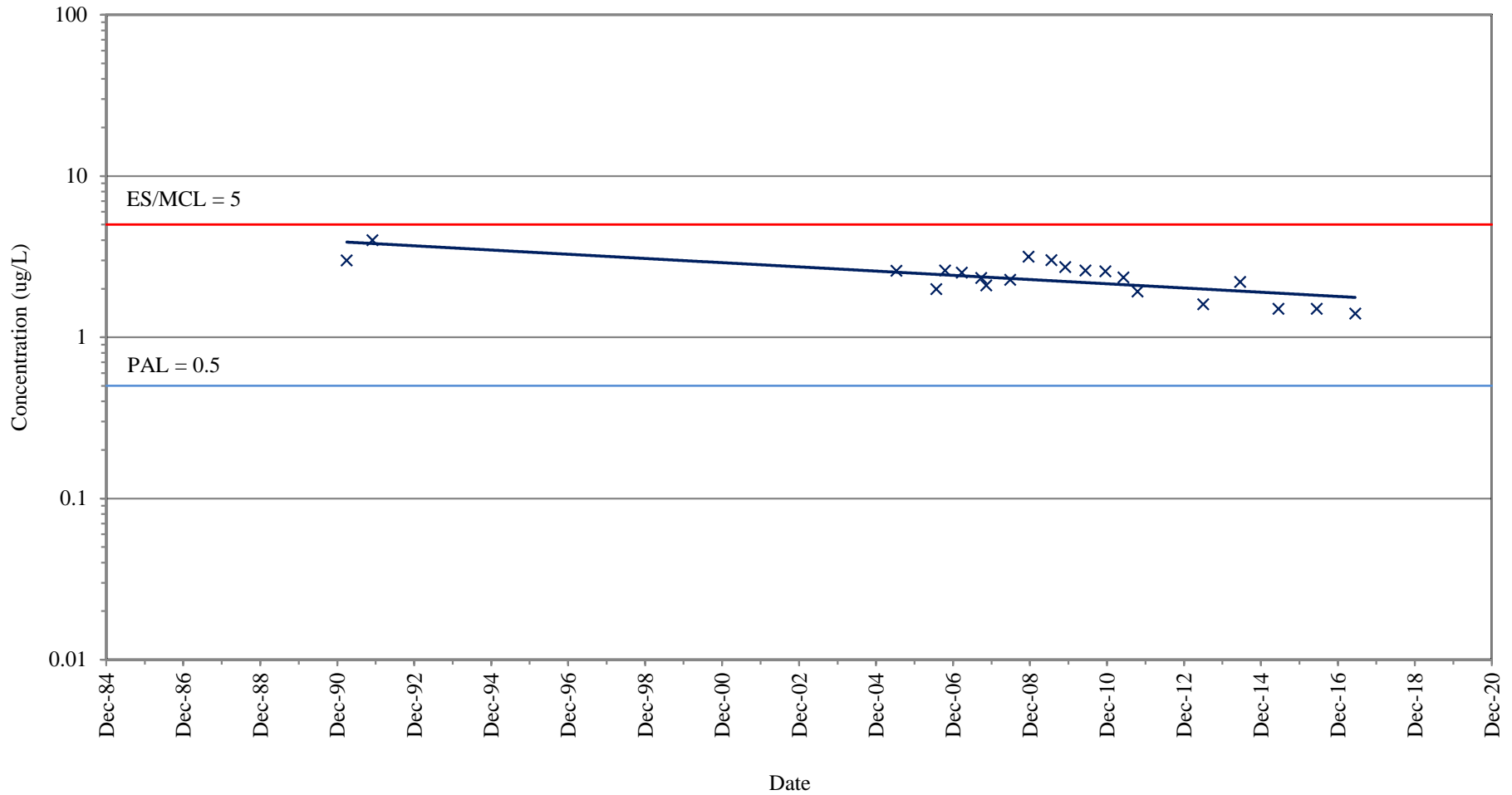
NATIONAL PRESTO INDUSTRIES, INC.
 EAU CLAIRE, WISCONSIN



Note: Non-detect concentrations (if any) are plotted at the detection limit and best-fit exponential trend line generated using Excel.

PLUME 1/2 GROUNDWATER TCE CONCENTRATIONS
MW-38B (GRID COORDINATE I8)

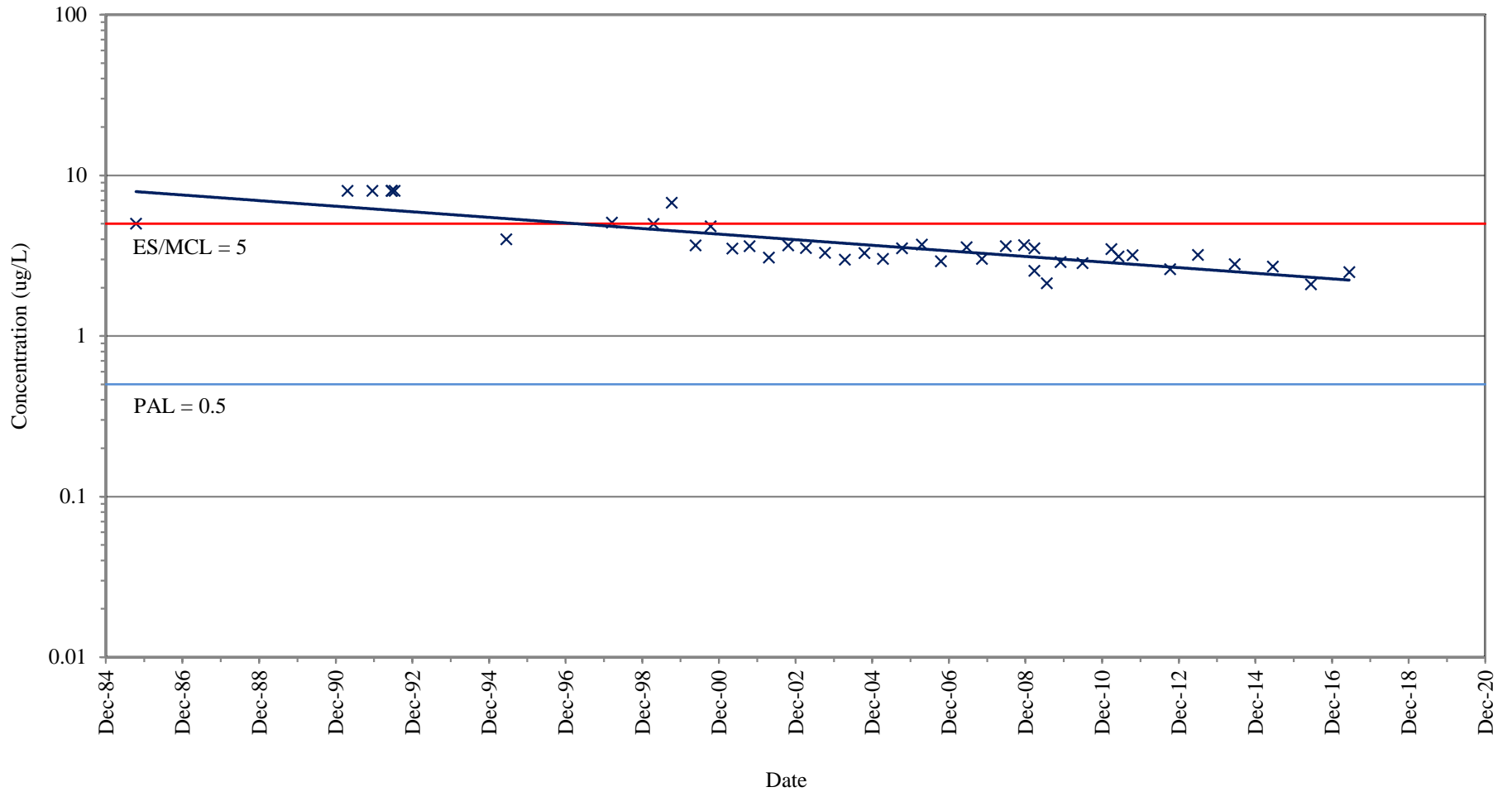
NATIONAL PRESTO INDUSTRIES, INC.
 EAU CLAIRE, WISCONSIN



Note: Non-detect concentrations (if any) are plotted at the detection limit and best-fit exponential trend line generated using Excel.

PLUME 1/2 GROUNDWATER TCE CONCENTRATIONS
MW-38C (GRID COORDINATE I8)

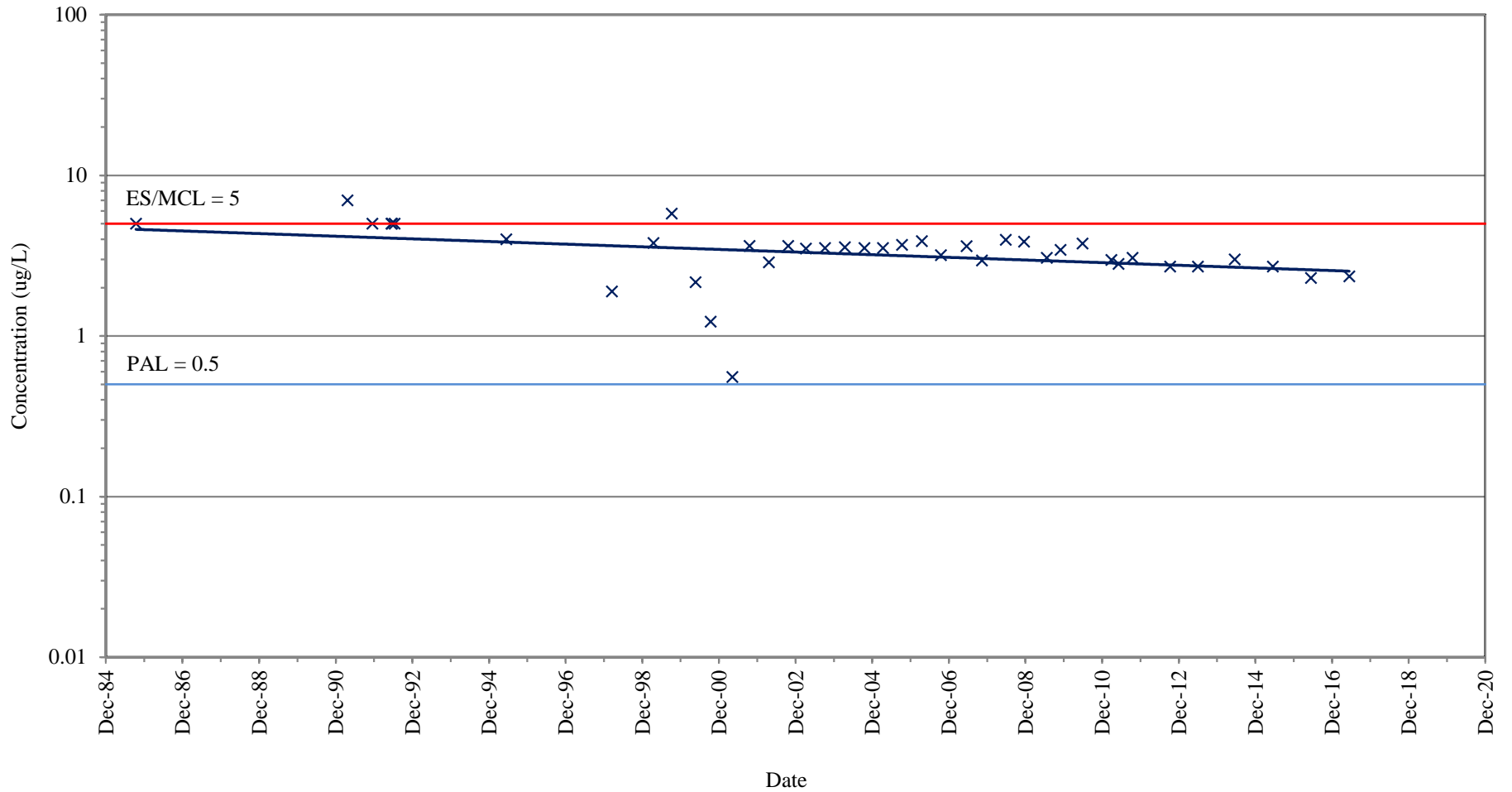
NATIONAL PRESTO INDUSTRIES, INC.
 EAU CLAIRE, WISCONSIN



Note: Non-detect concentrations (if any) are plotted at the detection limit and best-fit exponential trend line generated using Excel.

PLUME 1/2 GROUNDWATER TCE CONCENTRATIONS
MW-41A (GRID COORDINATE H8)

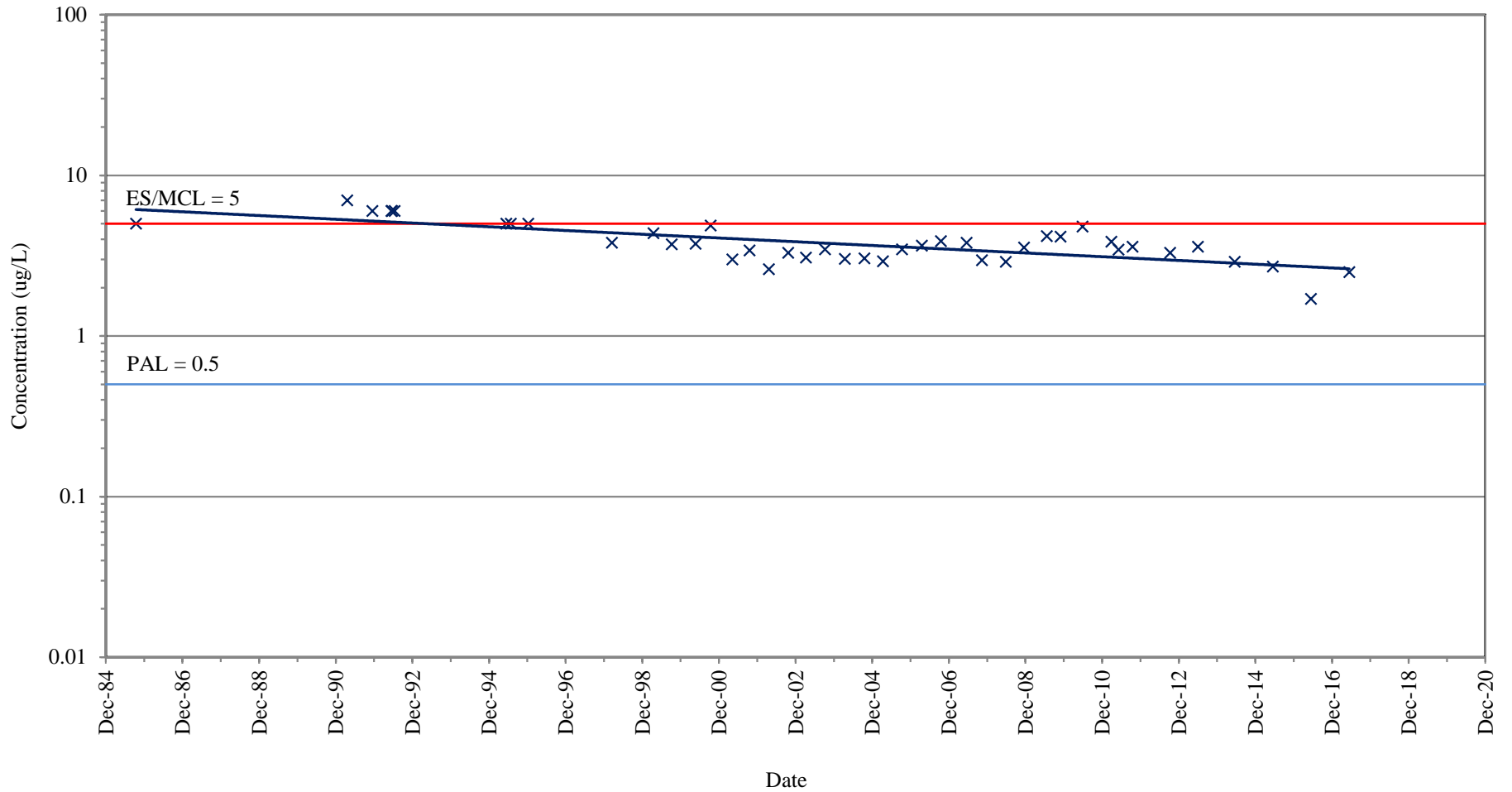
NATIONAL PRESTO INDUSTRIES, INC.
 EAU CLAIRE, WISCONSIN



Note: Non-detect concentrations (if any) are plotted at the detection limit and best-fit exponential trend line generated using Excel.

PLUME 1/2 GROUNDWATER TCE CONCENTRATIONS
MW-41B (GRID COORDINATE H8)

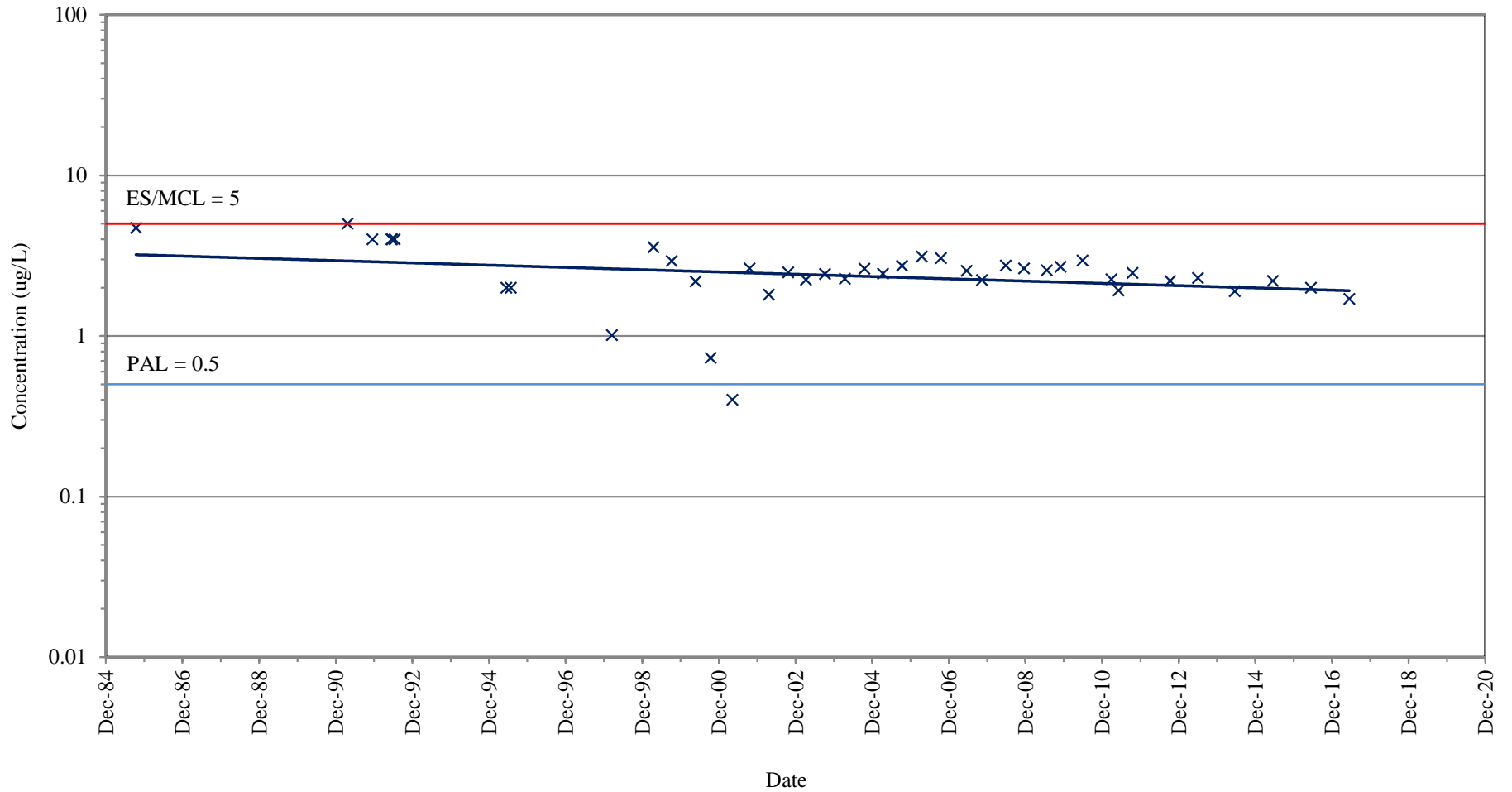
NATIONAL PRESTO INDUSTRIES, INC.
 EAU CLAIRE, WISCONSIN



Note: Non-detect concentrations (if any) are plotted at the detection limit and best-fit exponential trend line generated using Excel.

PLUME 1/2 GROUNDWATER TCE CONCENTRATIONS
MW-43A (GRID COORDINATE H7)

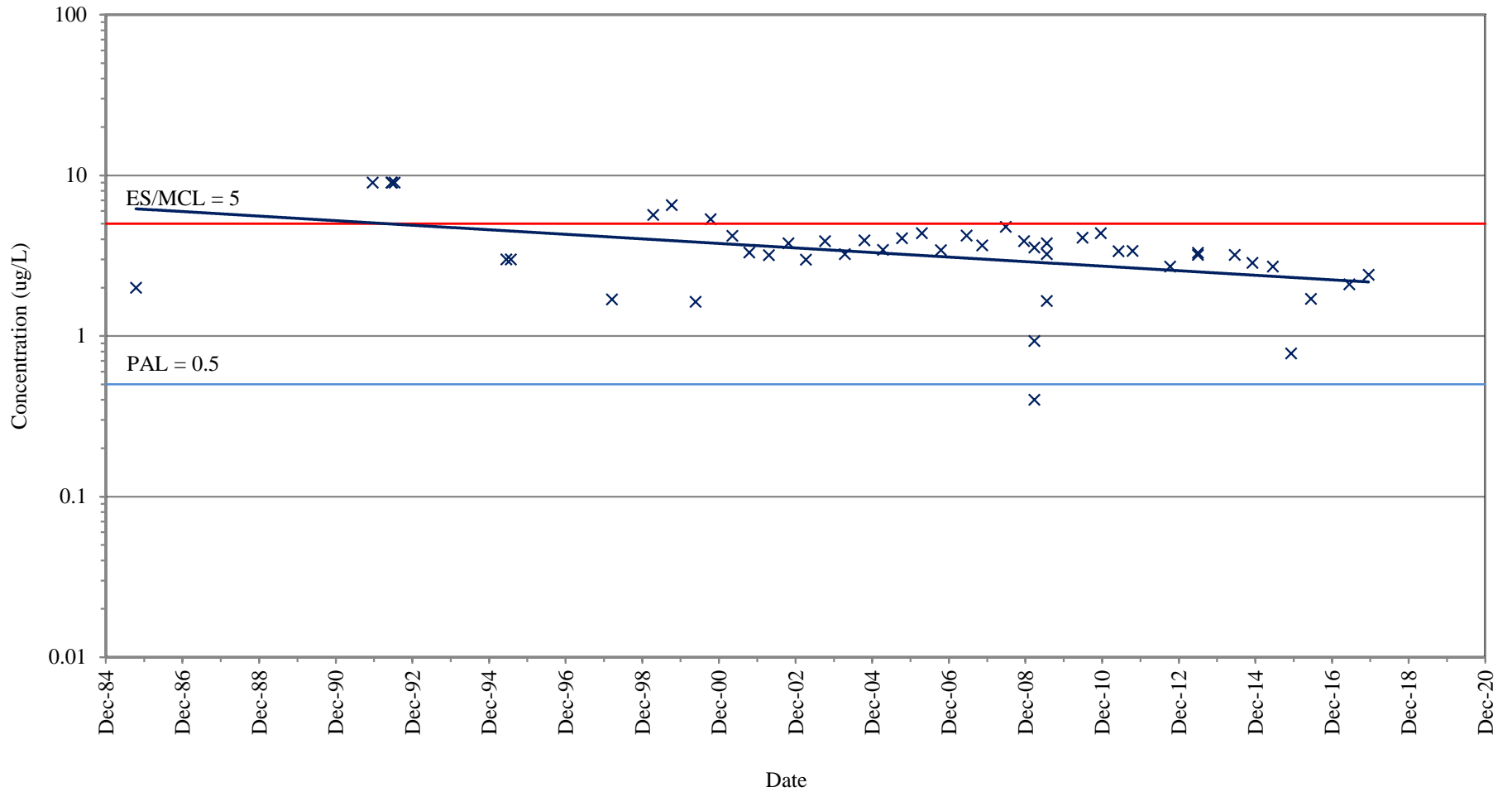
NATIONAL PRESTO INDUSTRIES, INC.
 EAU CLAIRE, WISCONSIN



Note: Non-detect concentrations (if any) are plotted at the detection limit and best-fit exponential trend line generated using Excel.

PLUME 1/2 GROUNDWATER TCE CONCENTRATIONS
MW-43B (GRID COORDINATE H7)

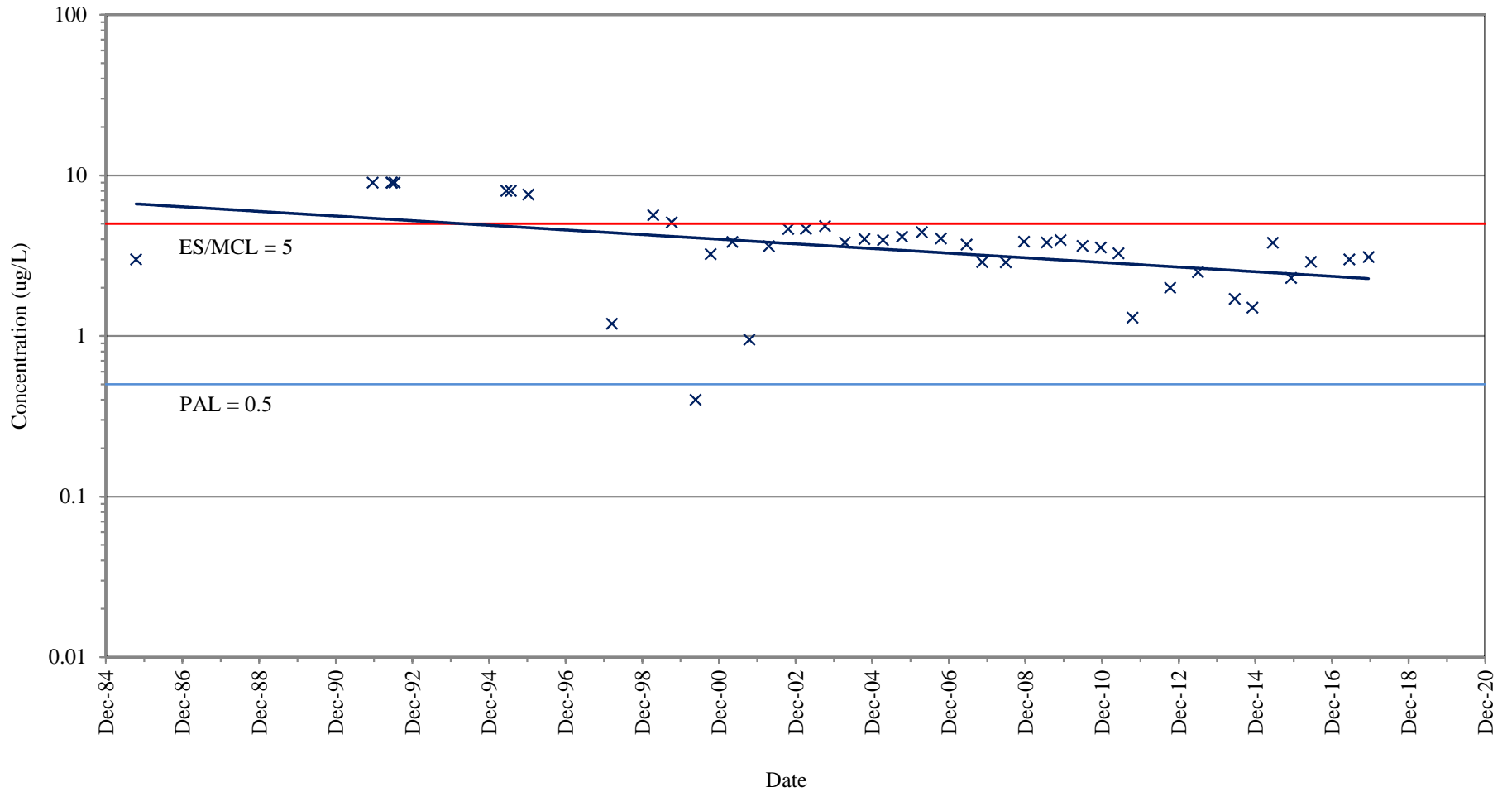
NATIONAL PRESTO INDUSTRIES, INC.
 EAU CLAIRE, WISCONSIN



Note: Non-detect concentrations (if any) are plotted at the detection limit and best-fit exponential trend line generated using Excel.

PLUME 1/2 GROUNDWATER TCE CONCENTRATIONS
MW-45B (GRID COORDINATE F6)

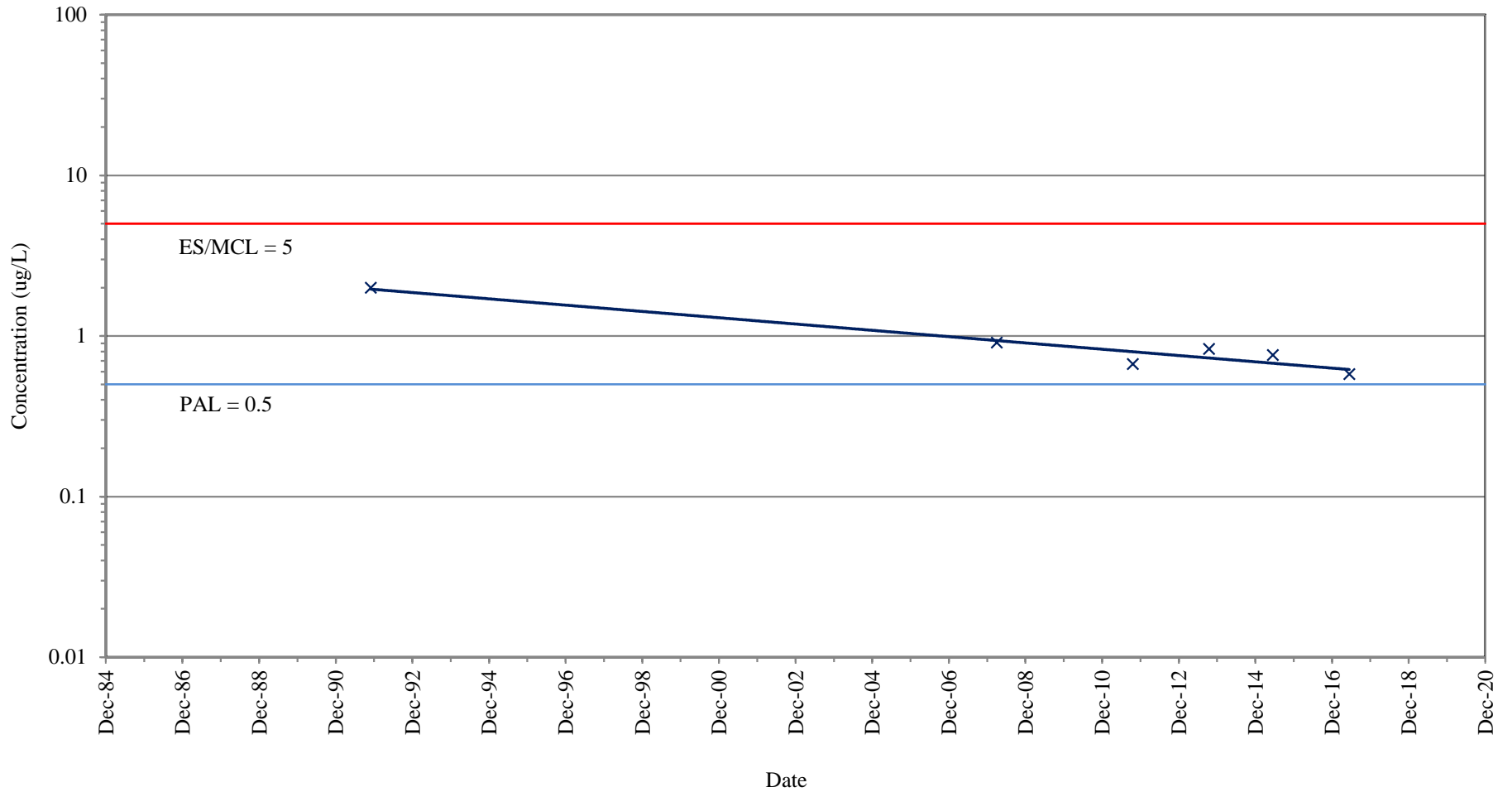
NATIONAL PRESTO INDUSTRIES, INC.
 EAU CLAIRE, WISCONSIN



Note: Non-detect concentrations (if any) are plotted at the detection limit and best-fit exponential trend line generated using Excel.

PLUME 1/2 GROUNDWATER TCE CONCENTRATIONS
MW-45C (GRID COORDINATE F6)

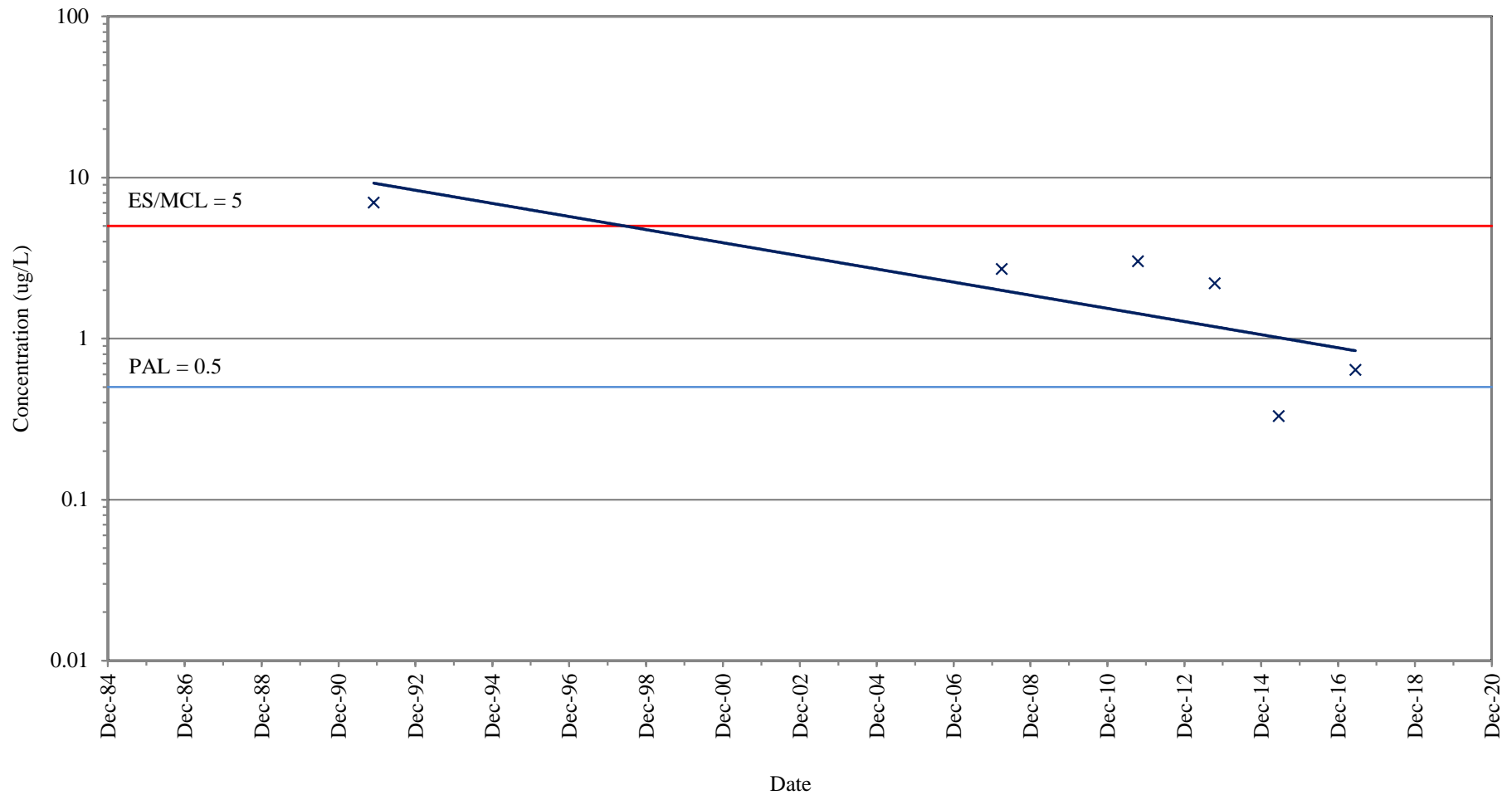
NATIONAL PRESTO INDUSTRIES, INC.
EAU CLAIRE, WISCONSIN



Note: Non-detect concentrations (if any) are plotted at the detection limit and best-fit exponential trend line generated using Excel.

PLUME 1/2 GROUNDWATER TCE CONCENTRATIONS
MW-47A (GRID COORDINATE G7)

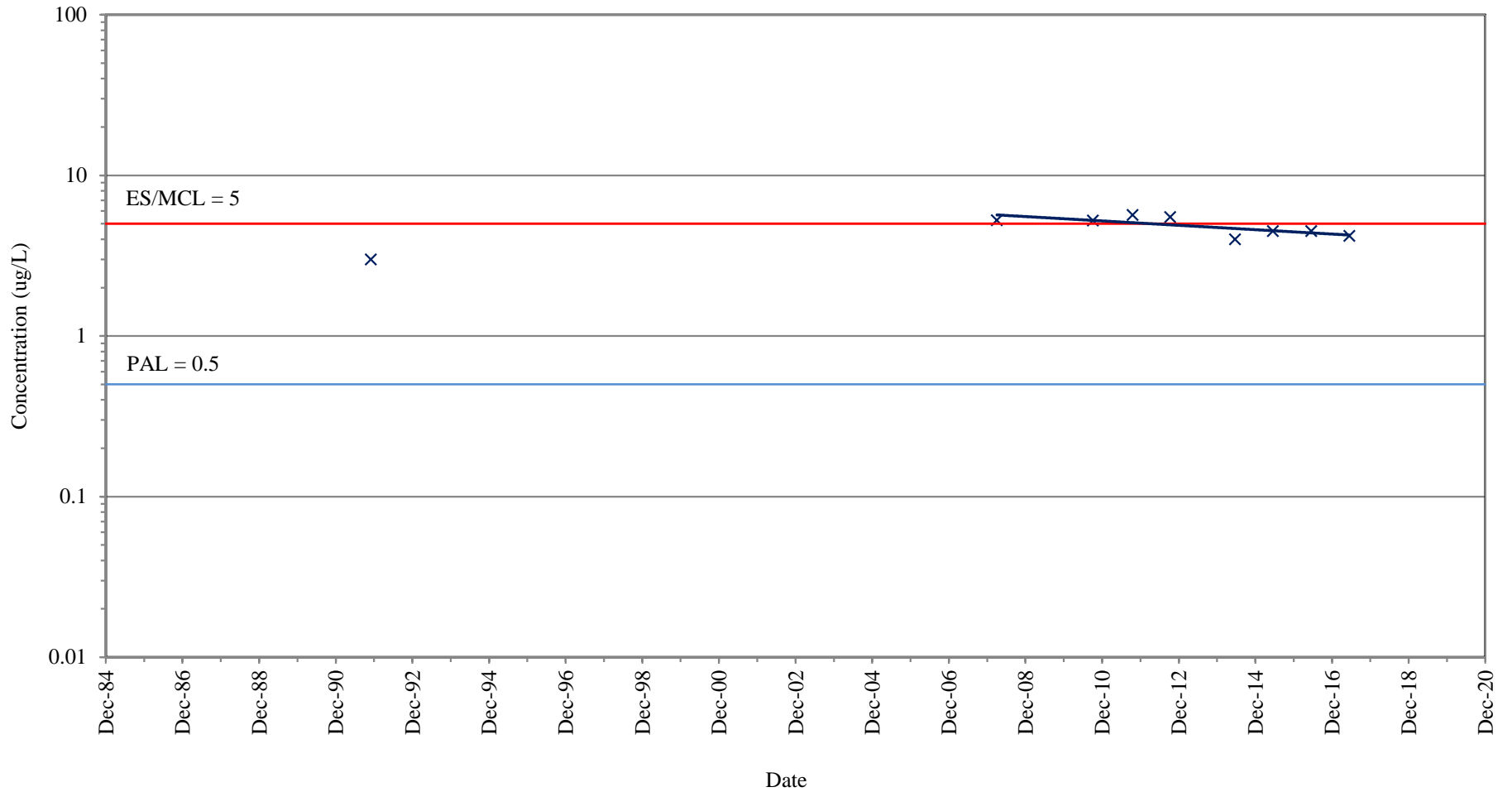
NATIONAL PRESTO INDUSTRIES, INC.
 EAU CLAIRE, WISCONSIN



Note: Non-detect concentrations (if any) are plotted at the detection limit and best-fit exponential trend line generated using Excel.

PLUME 1/2 GROUNDWATER TCE CONCENTRATIONS
MW-51A (GRID COORDINATE F6)

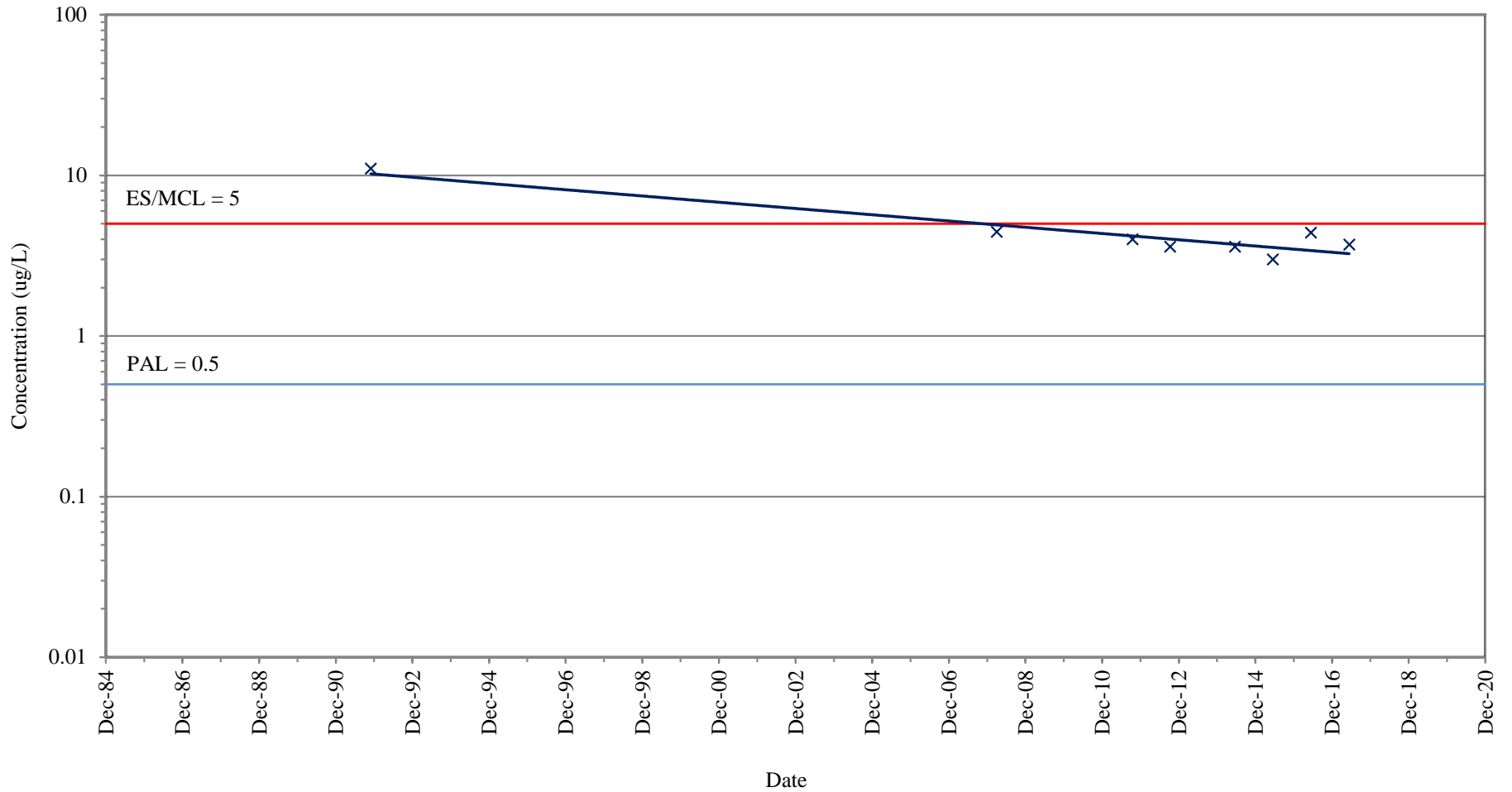
NATIONAL PRESTO INDUSTRIES, INC.
 EAU CLAIRE, WISCONSIN



Note: The best-fit exponential trend line generated using Excel evaluates a partial data set to focus on a "more representative" sample cluster.

PLUME 1/2 GROUNDWATER TCE CONCENTRATIONS
MW-51B (GRID COORDINATE F6)

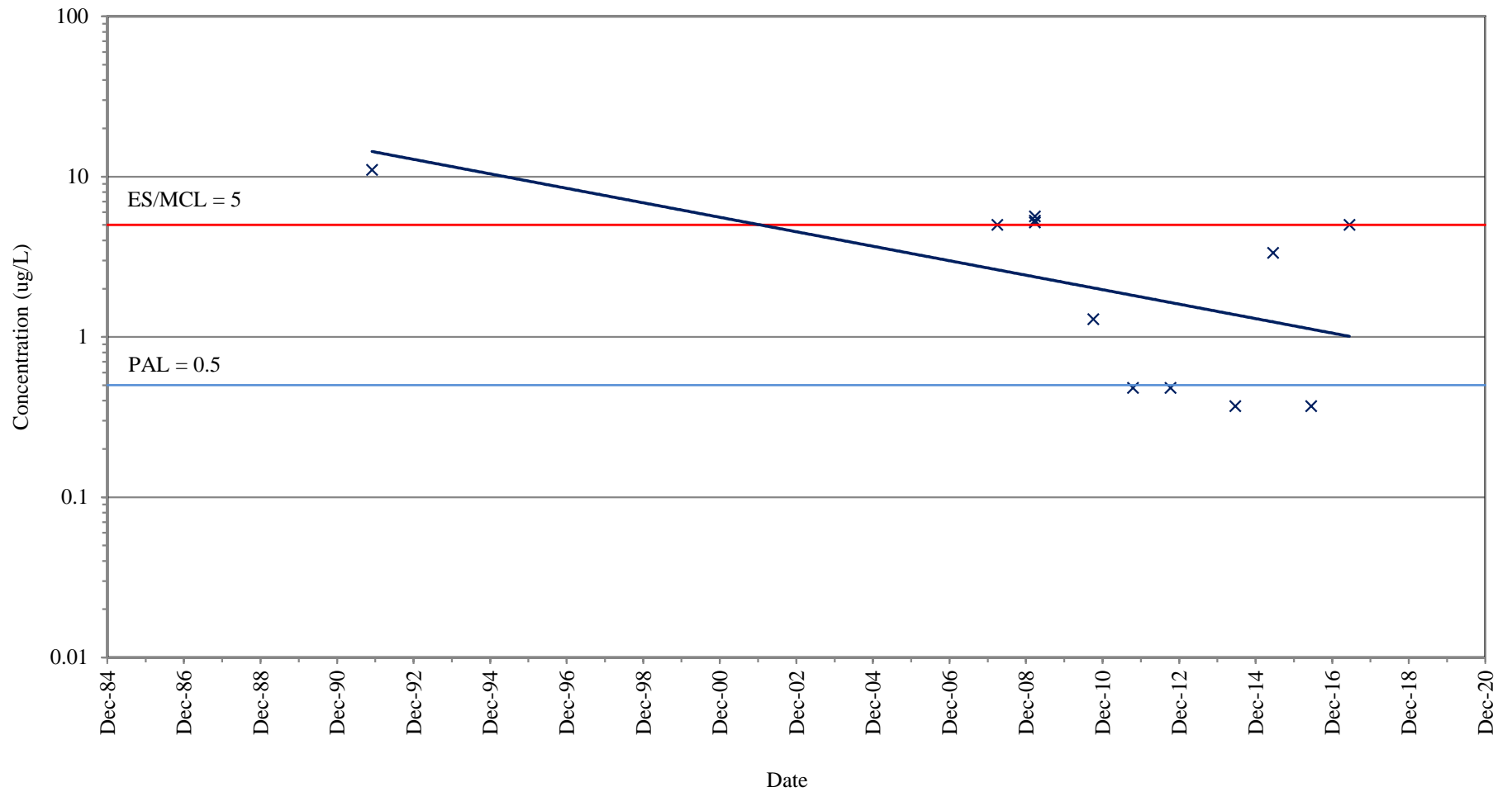
NATIONAL PRESTO INDUSTRIES, INC.
 EAU CLAIRE, WISCONSIN



Note: Non-detect concentrations (if any) are plotted at the detection limit and best-fit exponential trend line generated using Excel.

PLUME 1/2 GROUNDWATER TCE CONCENTRATIONS
MW-52A (GRID COORDINATE F6)

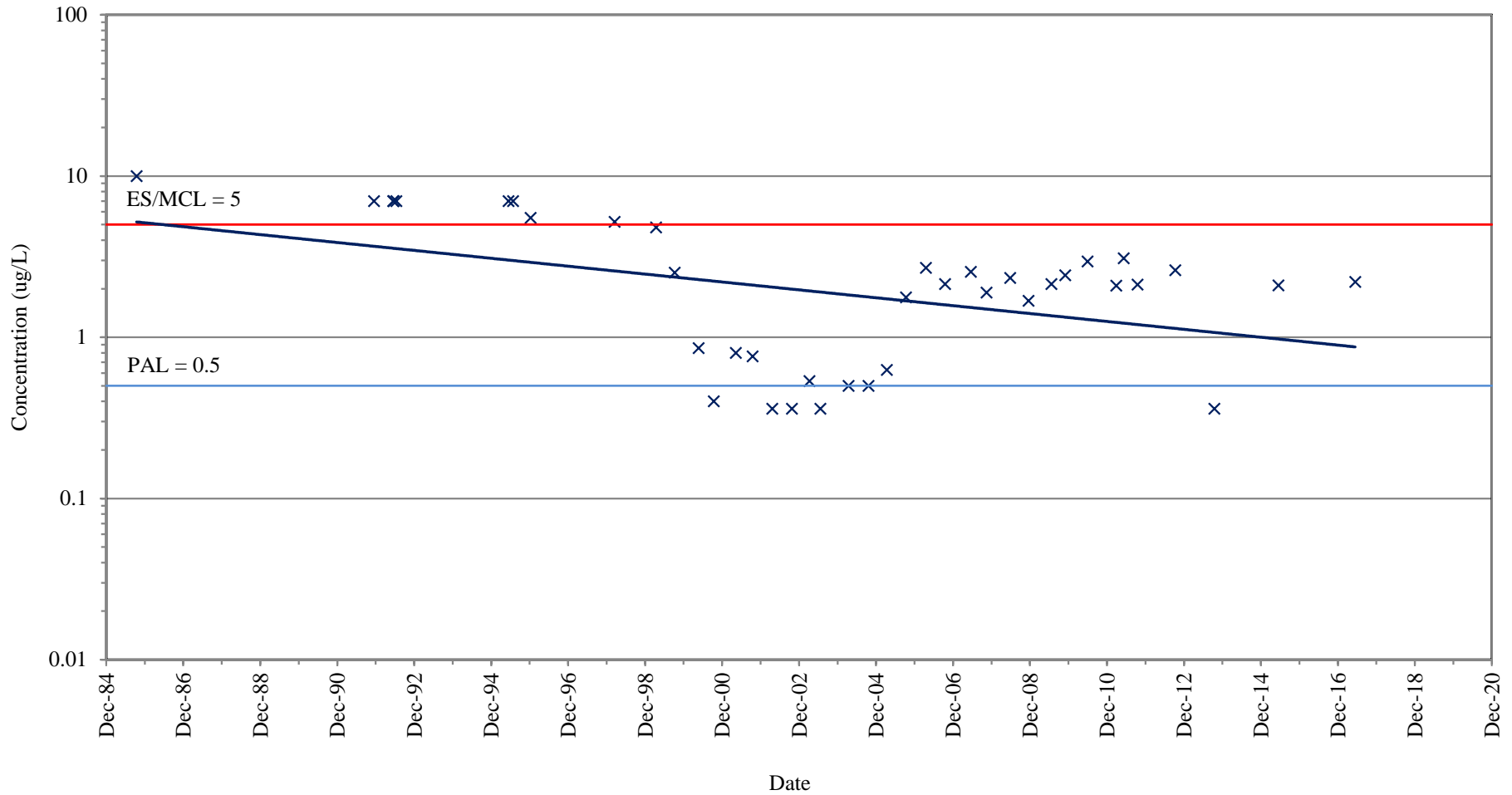
NATIONAL PRESTO INDUSTRIES, INC.
 EAU CLAIRE, WISCONSIN



Note: Non-detect concentrations (if any) are plotted at the detection limit and best-fit exponential trend line generated using Excel.

PLUME 1/2 GROUNDWATER TCE CONCENTRATIONS
MW-52B (GRID COORDINATE F6)

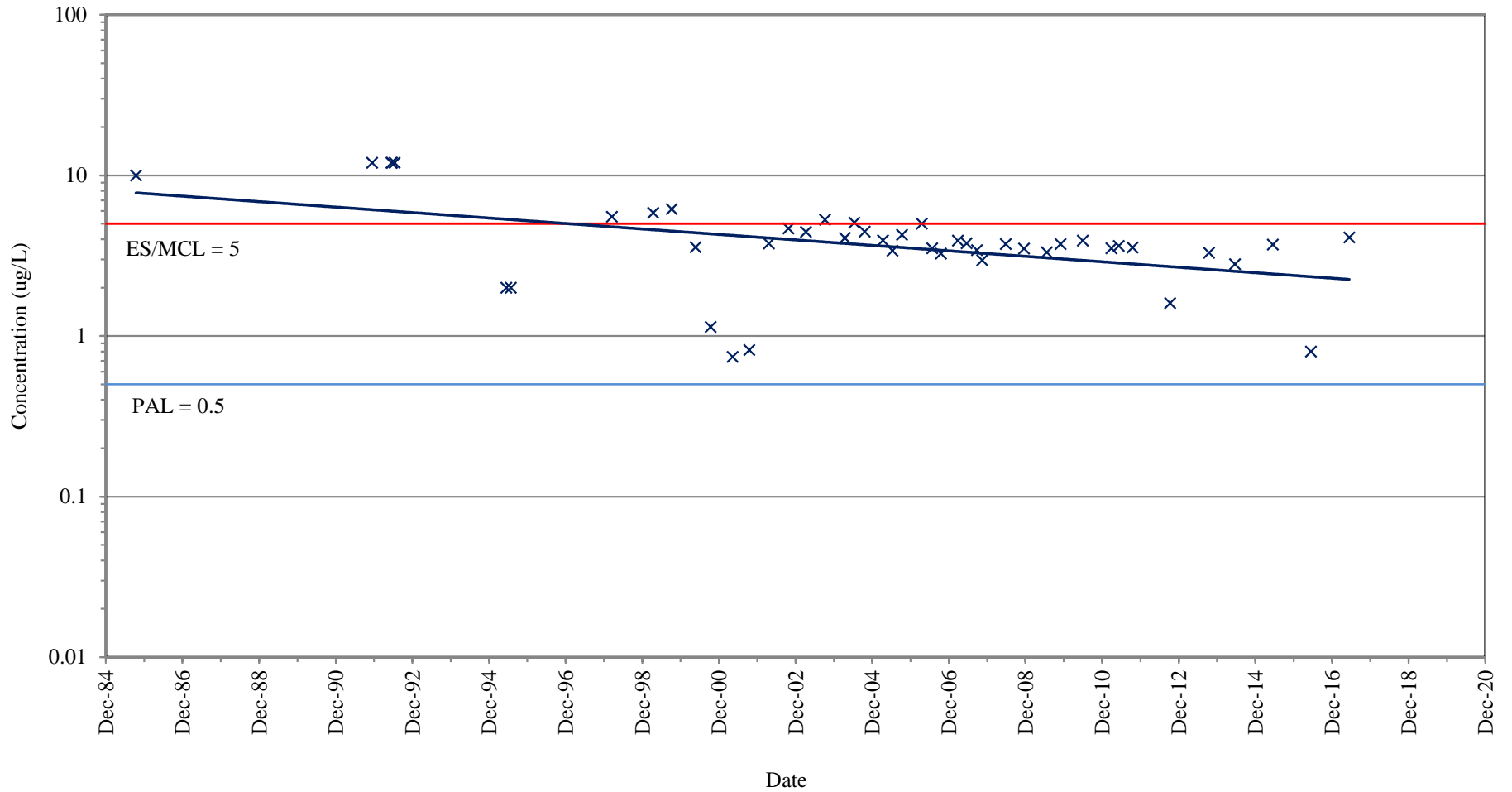
NATIONAL PRESTO INDUSTRIES, INC.
 EAU CLAIRE, WISCONSIN



Note: Non-detect concentrations (if any) are plotted at the detection limit and best-fit exponential trend line generated using Excel.

PLUME 1/2 GROUNDWATER TCE CONCENTRATIONS
MW-53A (GRID COORDINATE E6)

NATIONAL PRESTO INDUSTRIES, INC.
 EAU CLAIRE, WISCONSIN

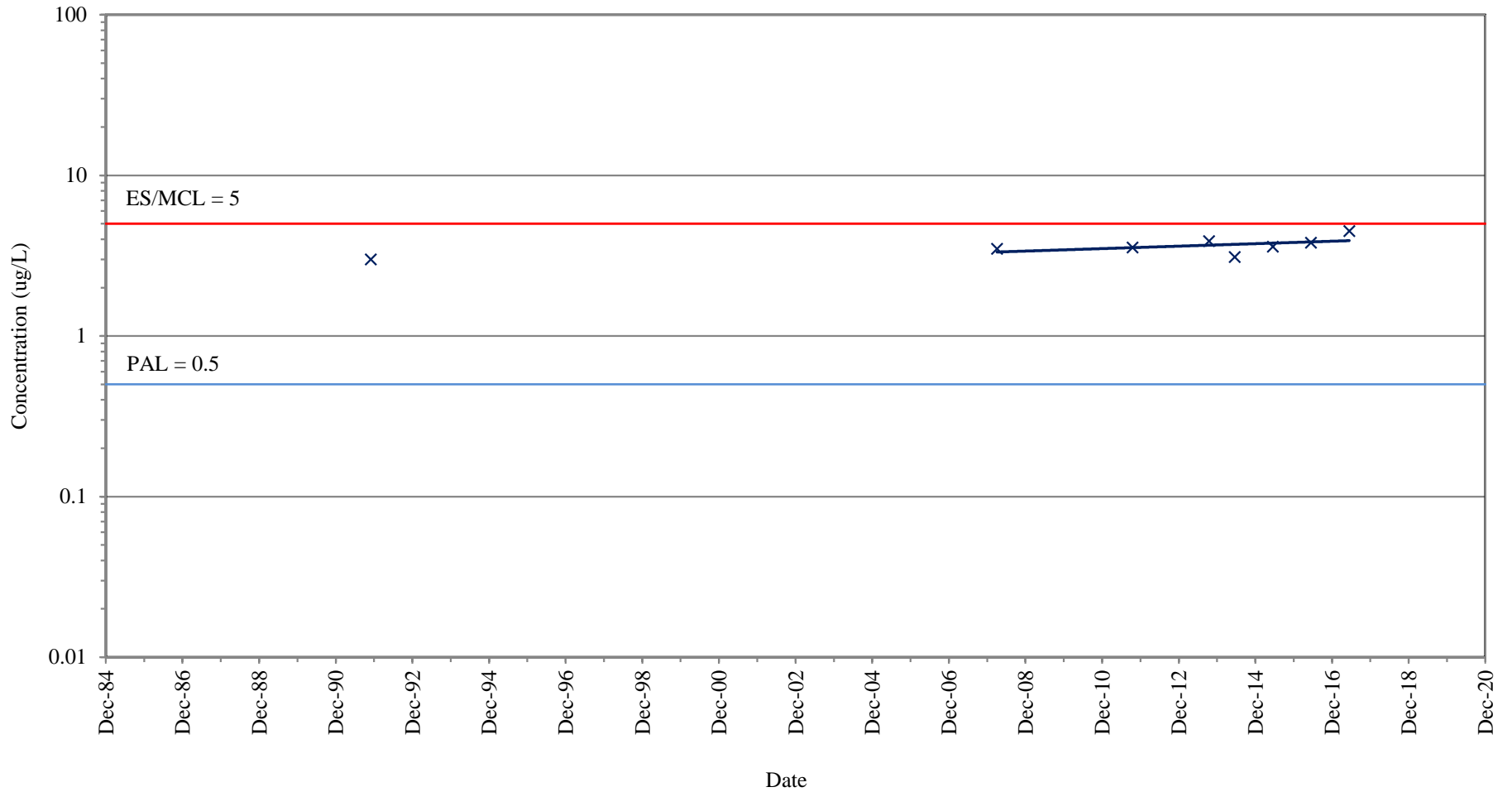


Note: Non-detect concentrations (if any) are plotted at the detection limit and best-fit exponential trend line generated using Excel.

PLUME 1/2 GROUNDWATER TCE CONCENTRATIONS

MW-53B (GRID COORDINATE E6)

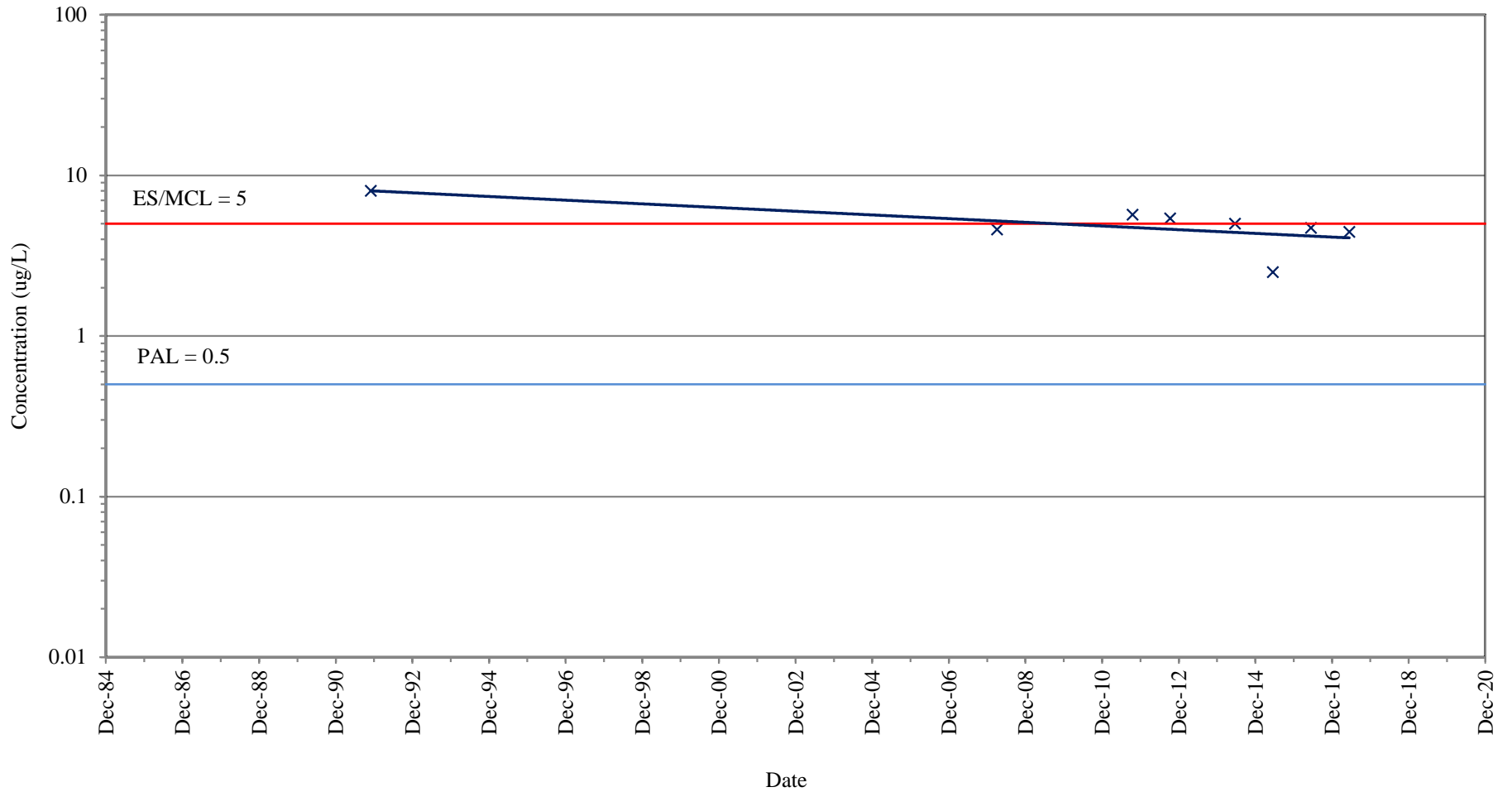
NATIONAL PRESTO INDUSTRIES, INC.
EAU CLAIRE, WISCONSIN



Note: The best-fit exponential trend line generated using Excel evaluates a partial data set to focus on a "more representative" sample cluster.

PLUME 1/2 GROUNDWATER TCE CONCENTRATIONS
MW-54B (GRID COORDINATE D6)

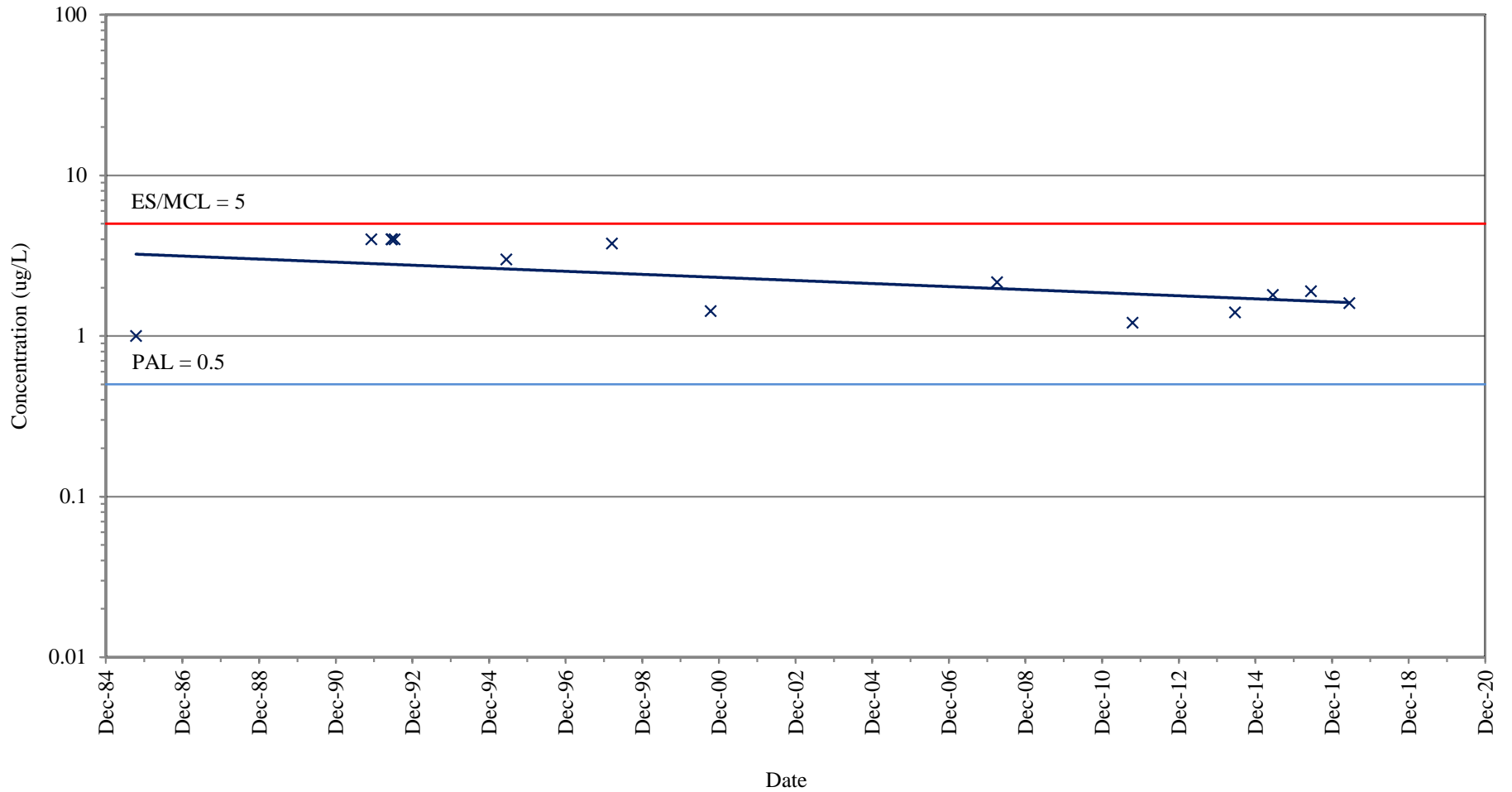
NATIONAL PRESTO INDUSTRIES, INC.
 EAU CLAIRE, WISCONSIN



Note: Non-detect concentrations (if any) are plotted at the detection limit and best-fit exponential trend line generated using Excel.

PLUME 1/2 GROUNDWATER TCE CONCENTRATIONS
MW-54C (GRID COORDINATE D6)

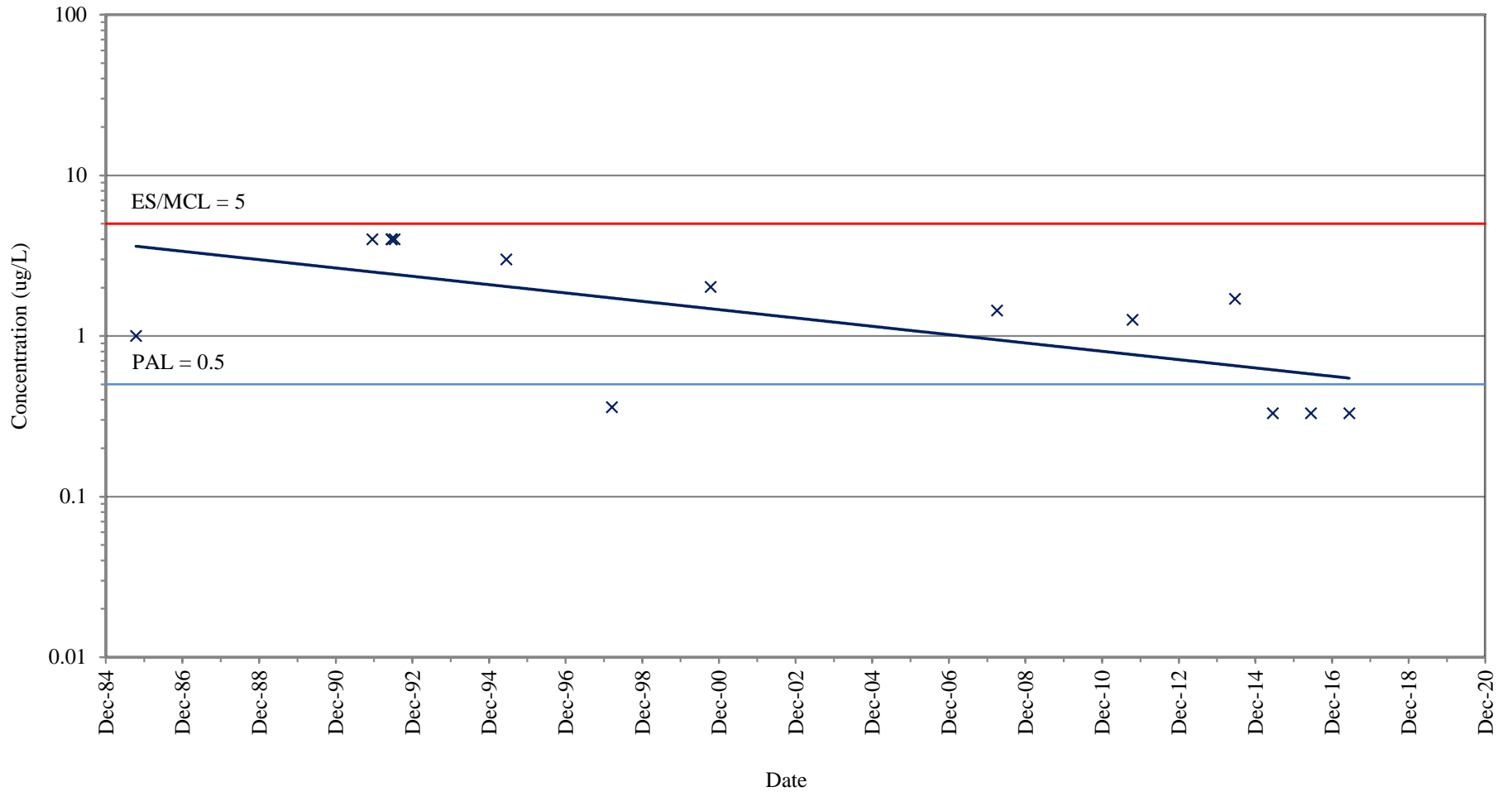
NATIONAL PRESTO INDUSTRIES, INC.
 EAU CLAIRE, WISCONSIN



Note: Non-detect concentrations (if any) are plotted at the detection limit and best-fit exponential trend line generated using Excel.

PLUME 1/2 GROUNDWATER TCE CONCENTRATIONS
MW-55B (GRID COORDINATE D6)

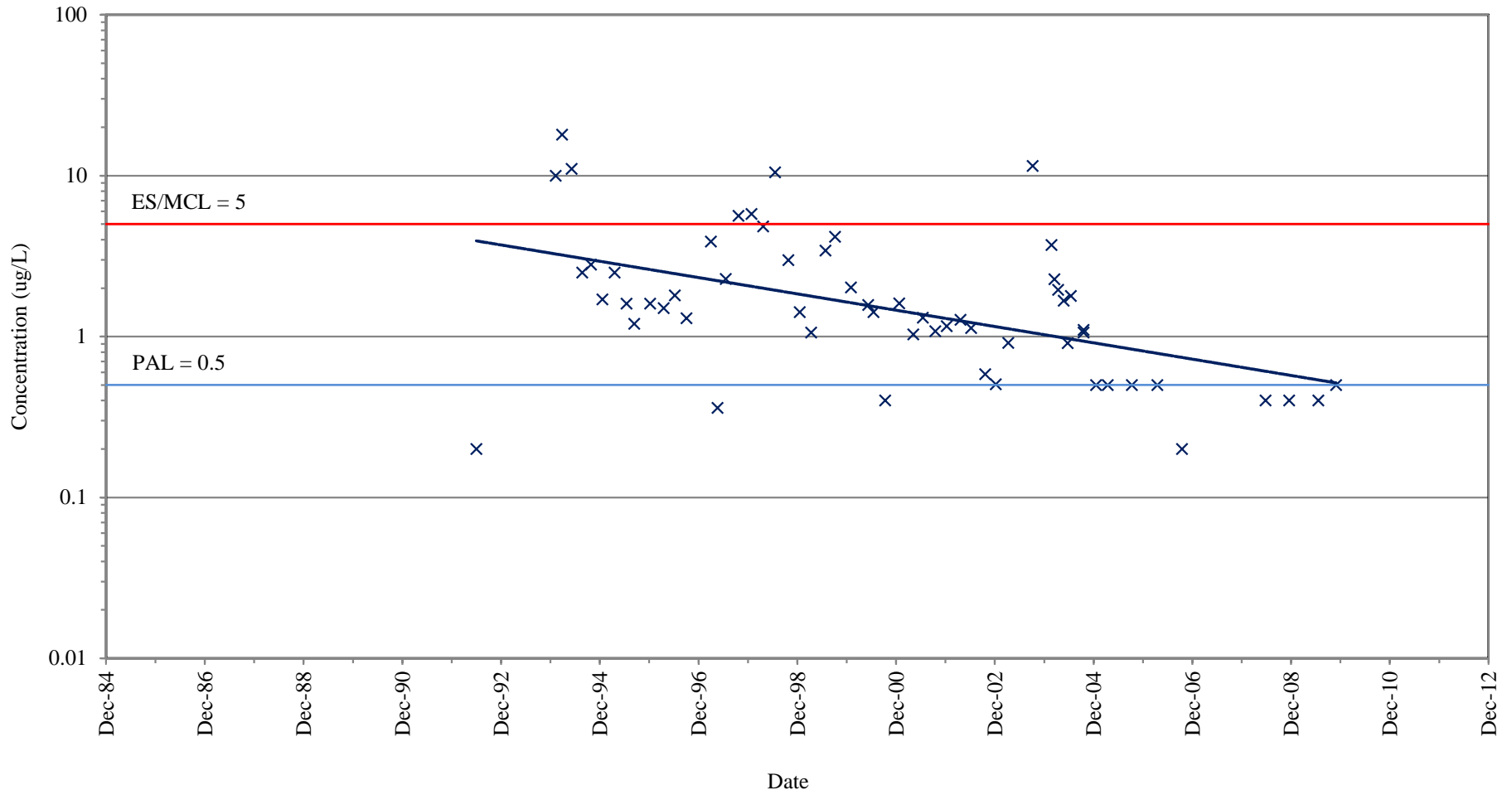
NATIONAL PRESTO INDUSTRIES, INC.
 EAU CLAIRE, WISCONSIN



Note: Non-detect concentrations (if any) are plotted at the detection limit and best-fit exponential trend line generated using Excel.

PLUME 1/2 GROUNDWATER TCE CONCENTRATIONS
MW-55C (GRID COORDINATE D6)

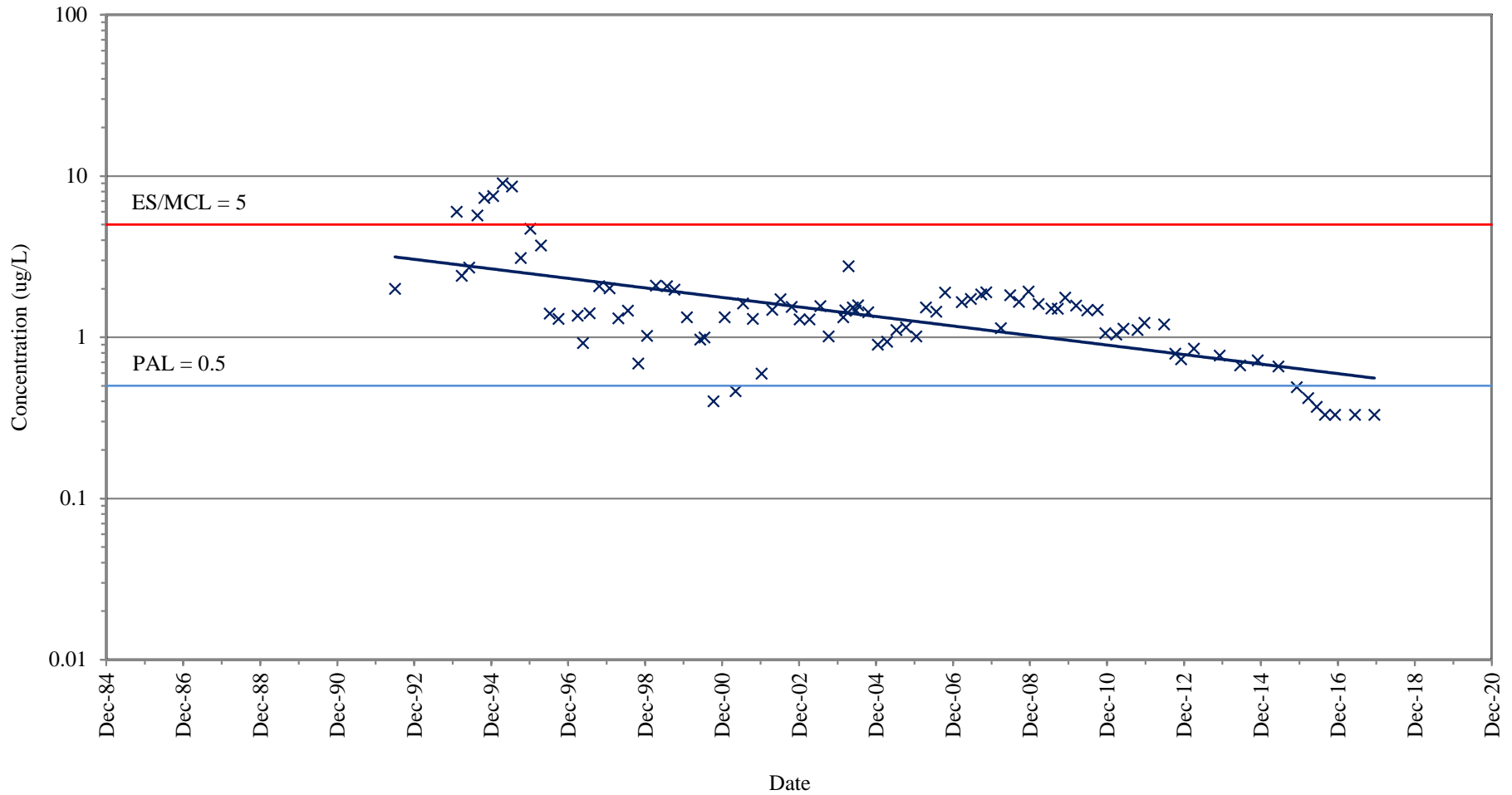
NATIONAL PRESTO INDUSTRIES, INC.
 EAU CLAIRE, WISCONSIN



Note: Non-detect concentrations (if any) are plotted at the detection limit and best-fit exponential trend line generated using Excel.

PLUME 1/2 GROUNDWATER TCE CONCENTRATIONS
MW-67A (GRID COORDINATE K7)

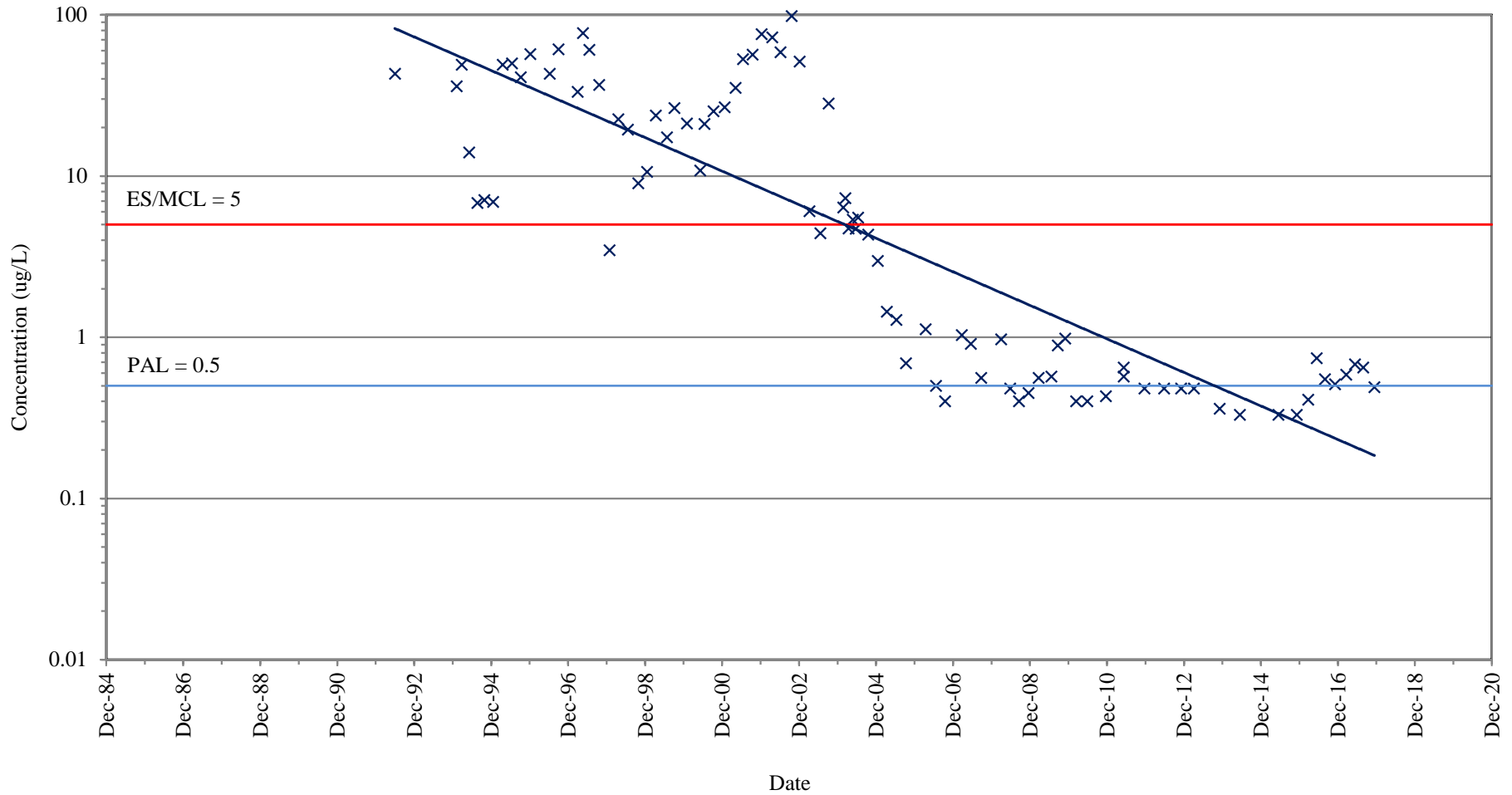
NATIONAL PRESTO INDUSTRIES, INC.
EAU CLAIRE, WISCONSIN



Note: Non-detect concentrations (if any) are plotted at the detection limit and best-fit exponential trend line generated using Excel.

PLUME 1/2 GROUNDWATER TCE CONCENTRATIONS
MW-68B (GRID COORDINATE J7)

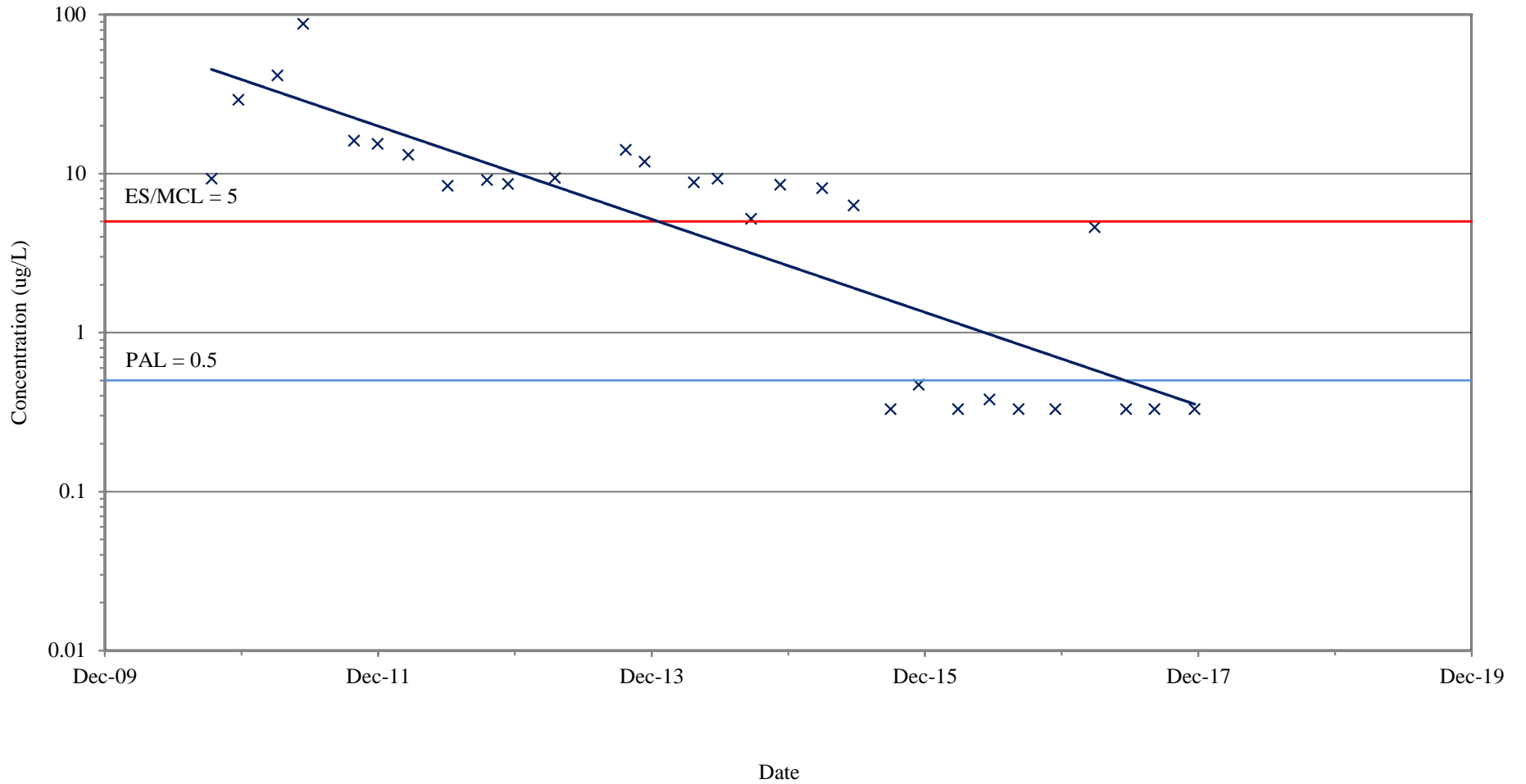
NATIONAL PRESTO INDUSTRIES, INC.
 EAU CLAIRE, WISCONSIN



Note: Non-detect concentrations (if any) are plotted at the detection limit and best-fit exponential trend line generated using Excel.

PLUME 1/2 GROUNDWATER TCE CONCENTRATIONS
MW-70A (GRID COORDINATE K8)

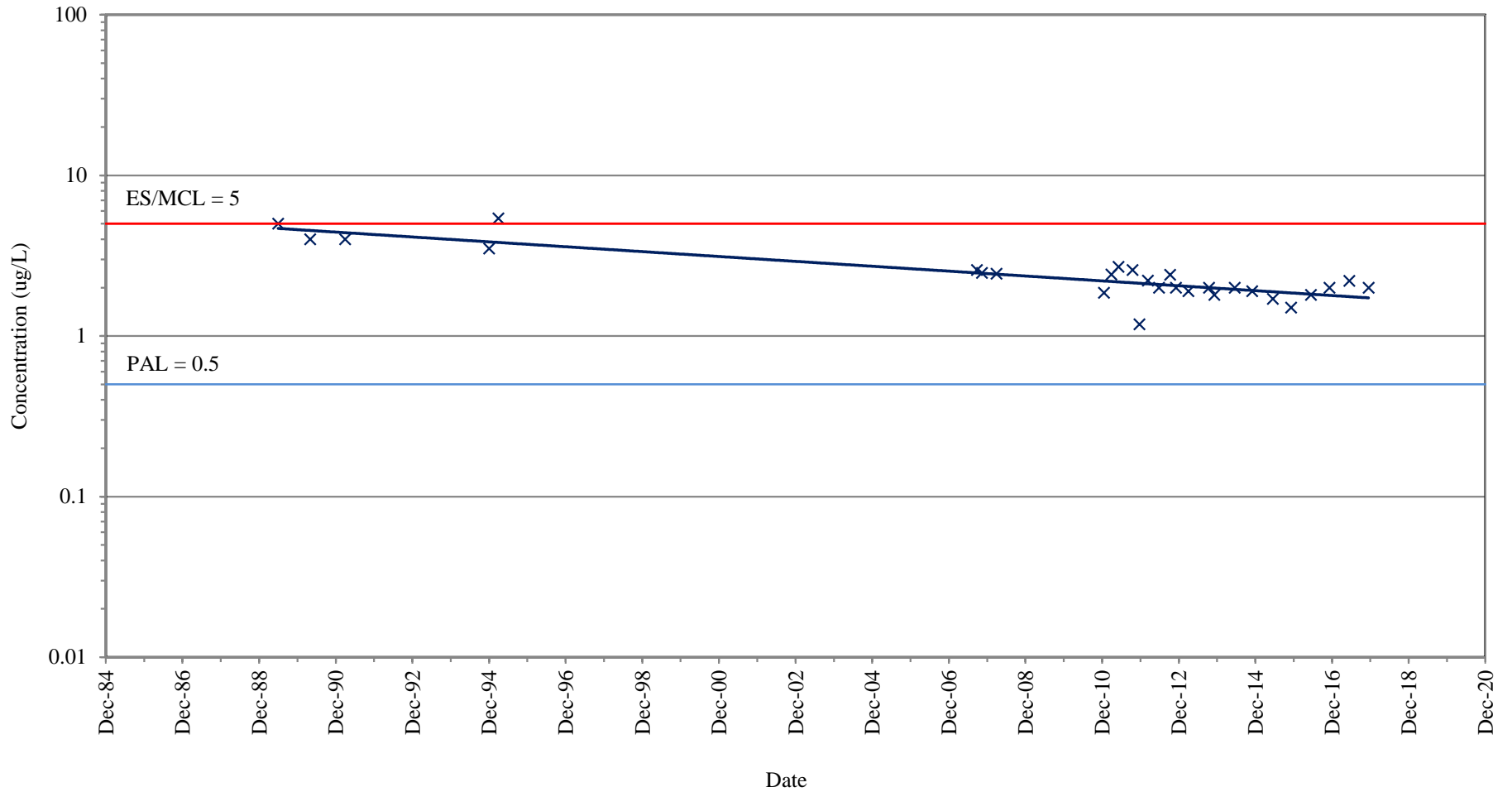
NATIONAL PRESTO INDUSTRIES, INC.
 EAU CLAIRE, WISCONSIN



Note: Non-detect concentrations (if any) are plotted at the detection limit and best-fit exponential trend line generated using Excel.

PLUME 1/2 GROUNDWATER TCE CONCENTRATIONS
MW-76A (GRID COORDINATE K7)

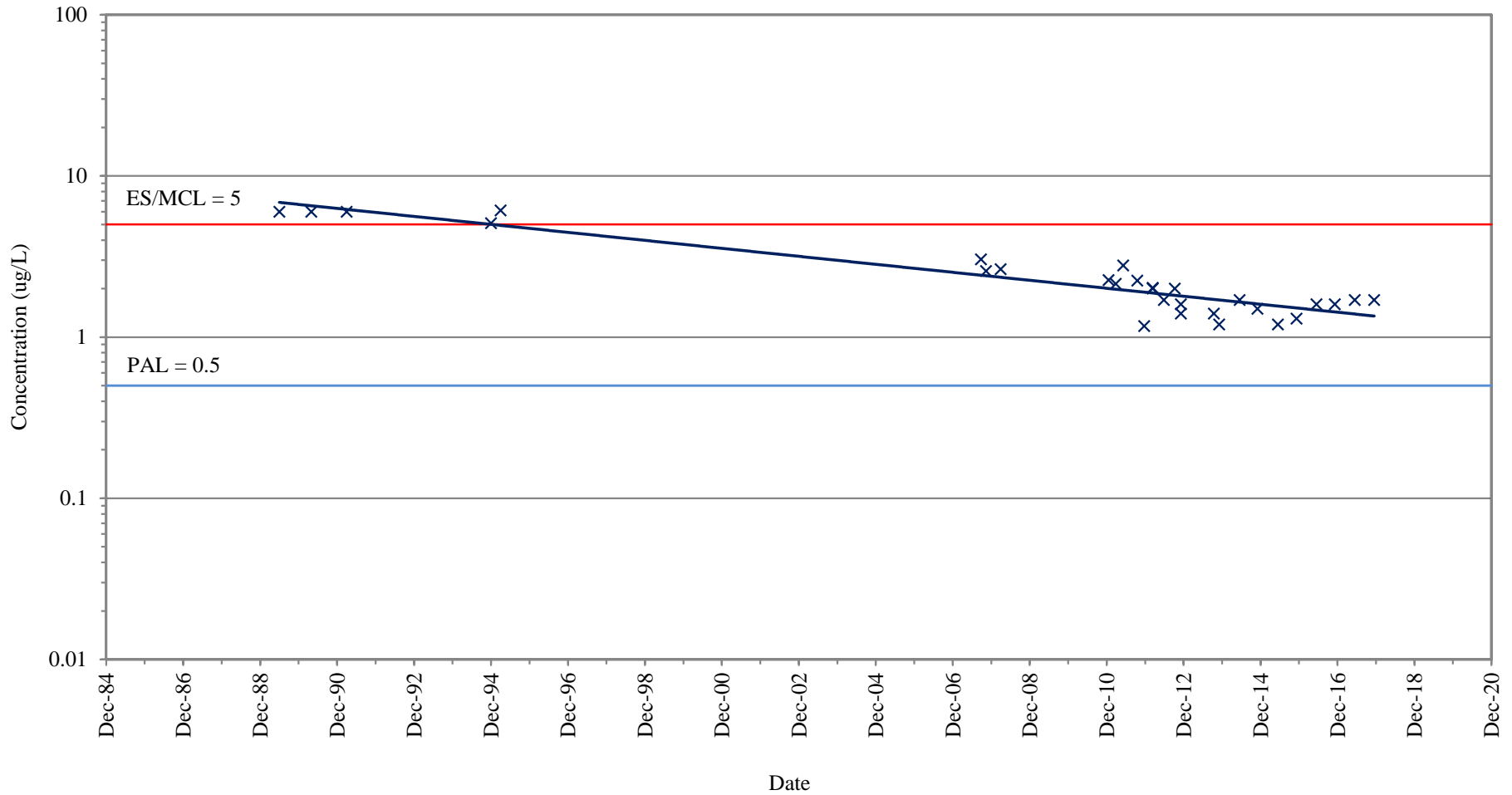
NATIONAL PRESTO INDUSTRIES, INC.
 EAU CLAIRE, WISCONSIN



Note: Non-detect concentrations (if any) are plotted at the detection limit and best-fit exponential trend line generated using Excel.

PLUME 1/2 GROUNDWATER TCE CONCENTRATIONS
RW-2B (GRID COORDINATE J7)

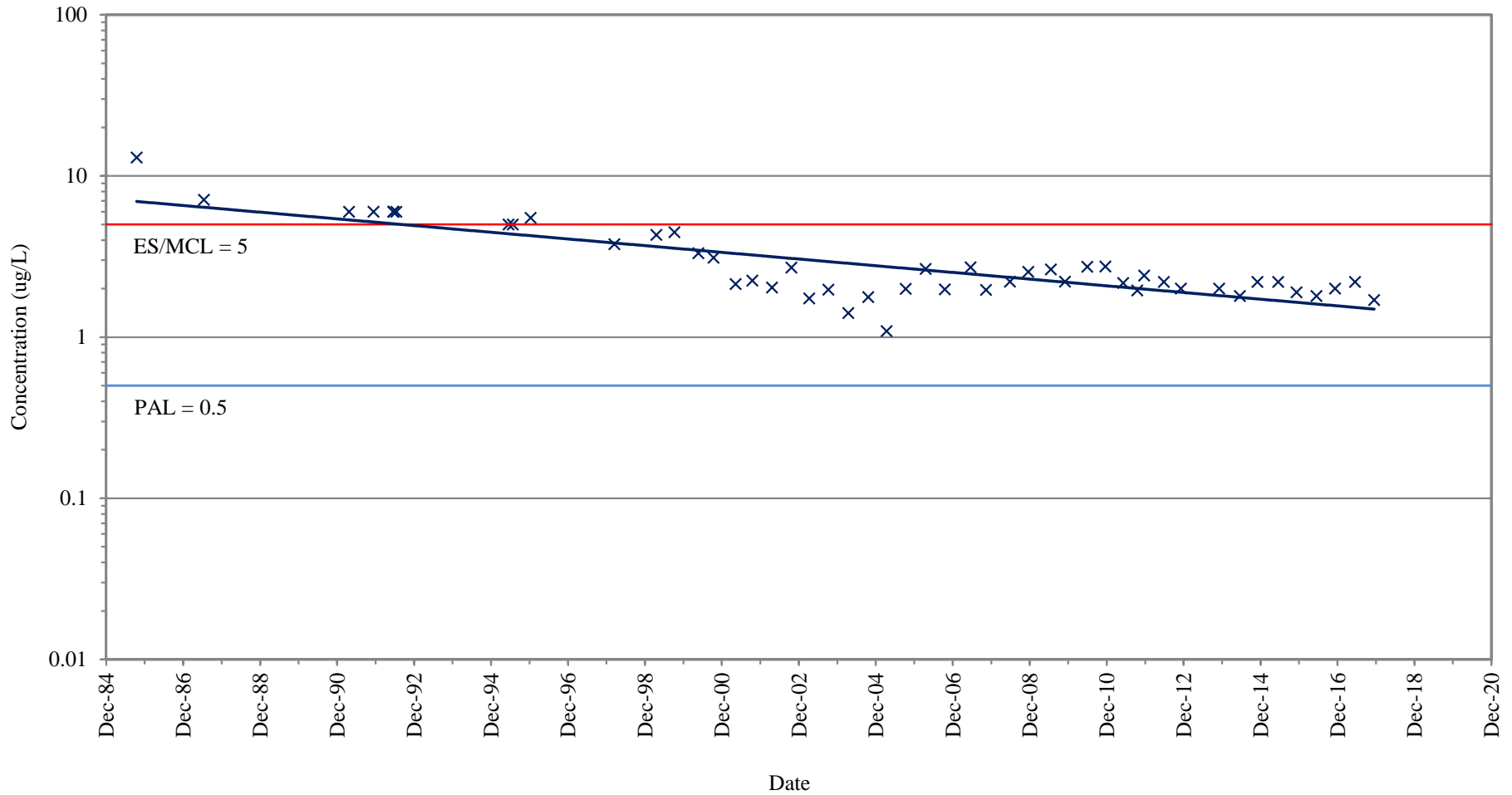
NATIONAL PRESTO INDUSTRIES, INC.
 EAU CLAIRE, WISCONSIN



Note: Non-detect concentrations (if any) are plotted at the detection limit and best-fit exponential trend line generated using Excel.

PLUME 1/2 GROUNDWATER TCE CONCENTRATIONS
RW-2C (GRID COORDINATE J7)

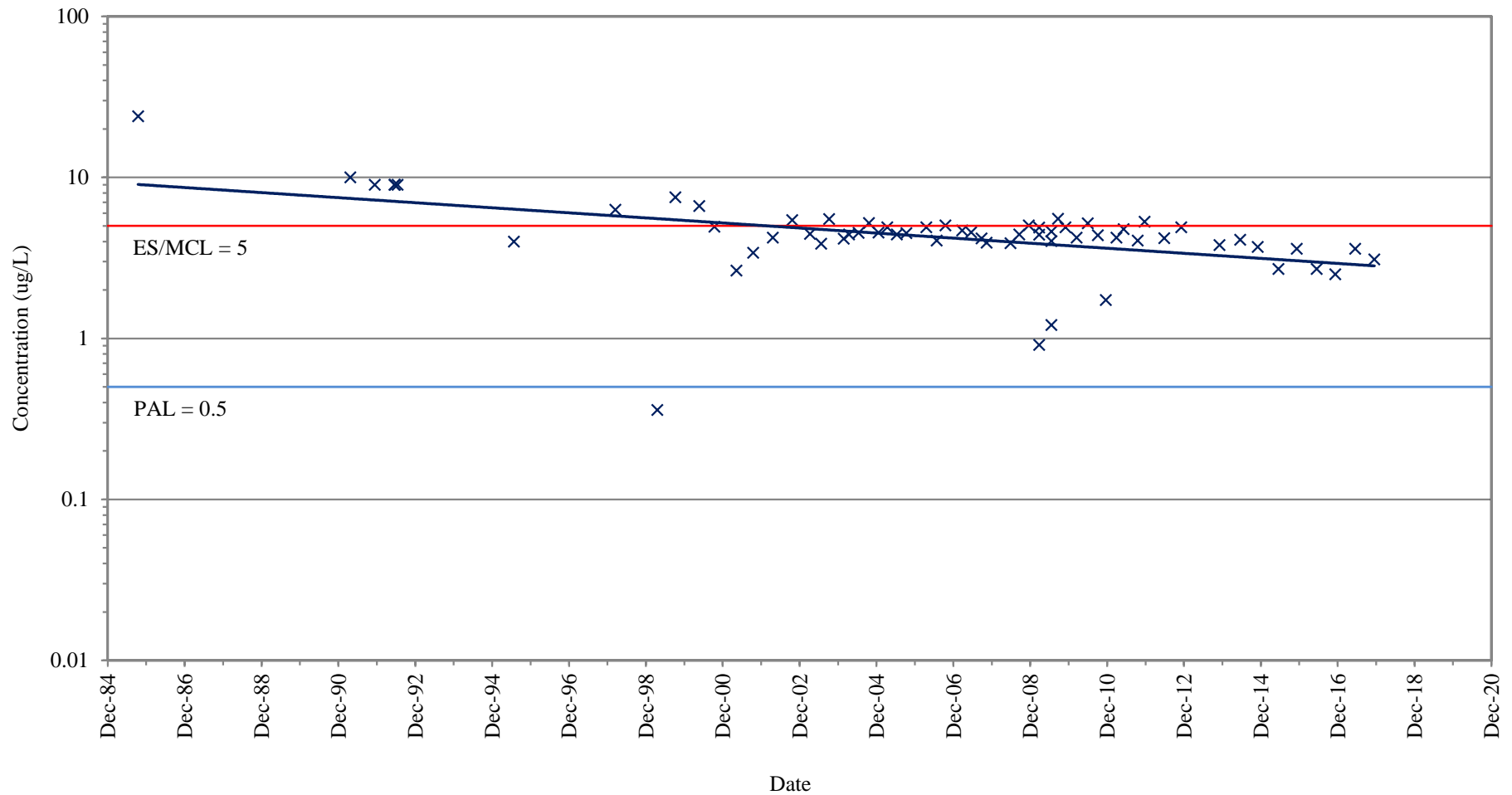
NATIONAL PRESTO INDUSTRIES, INC.
 EAU CLAIRE, WISCONSIN



Note: Non-detect concentrations (if any) are plotted at the detection limit and best-fit exponential trend line generated using Excel.

PLUME 1/2 GROUNDWATER TCE CONCENTRATIONS
RW-3A (GRID COORDINATE C6)

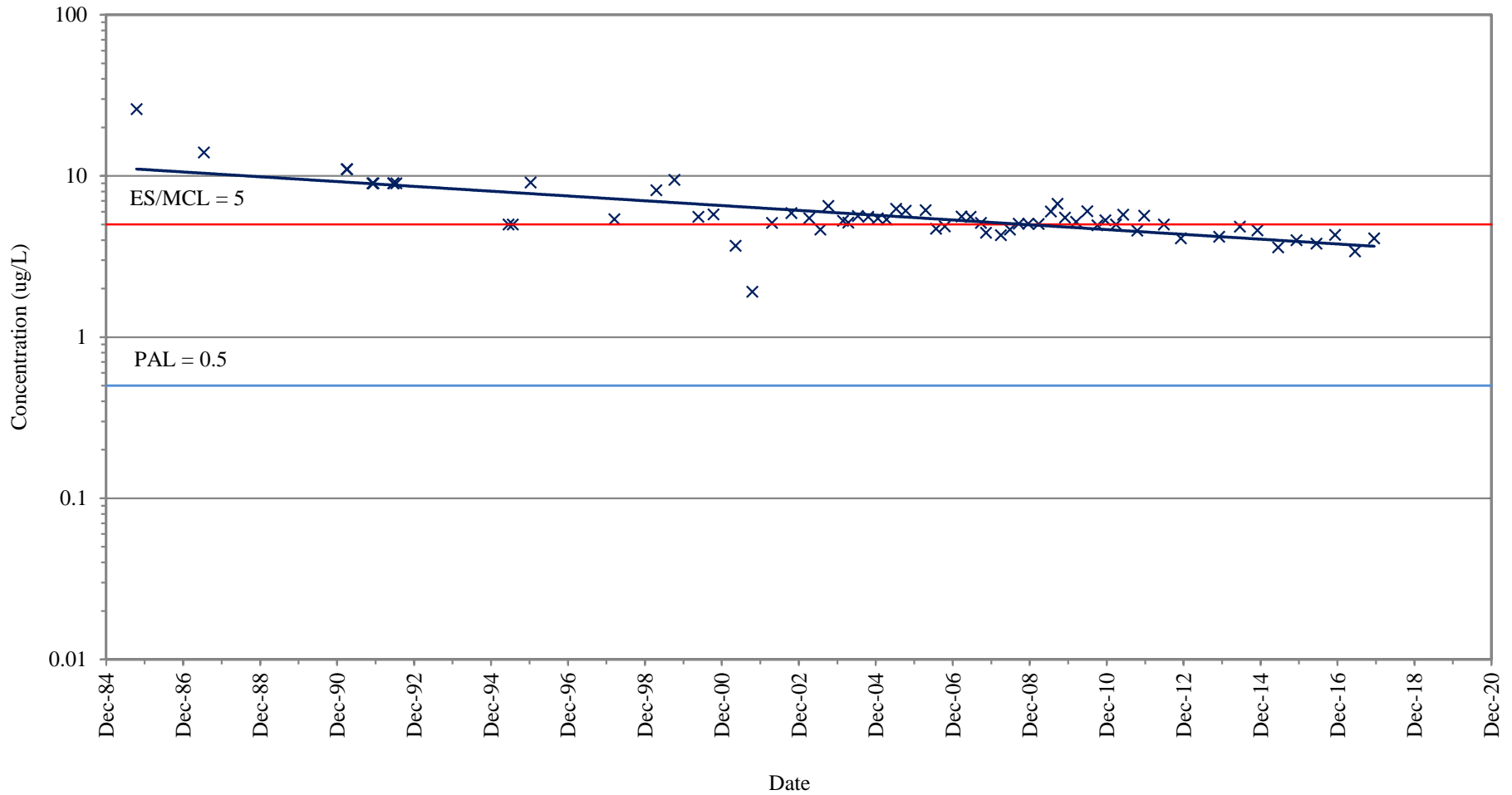
NATIONAL PRESTO INDUSTRIES, INC.
 EAU CLAIRE, WISCONSIN



Note: Non-detect concentrations (if any) are plotted at the detection limit and best-fit exponential trend line generated using Excel.

PLUME 1/2 GROUNDWATER TCE CONCENTRATIONS
RW-3B (GRID COORDINATE C6)

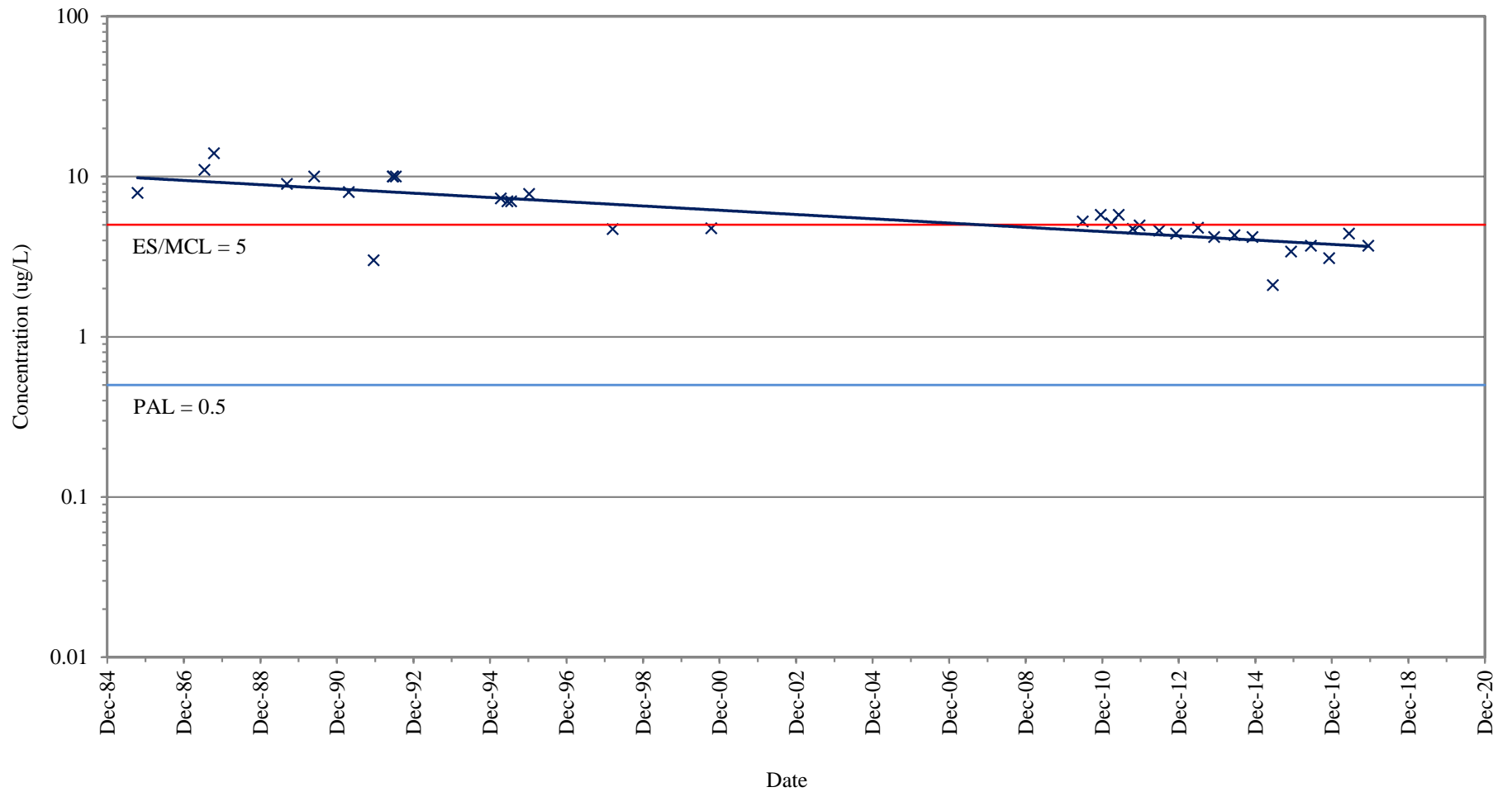
NATIONAL PRESTO INDUSTRIES, INC.
 EAU CLAIRE, WISCONSIN



Note: Non-detect concentrations (if any) are plotted at the detection limit and best-fit exponential trend line generated using Excel.

PLUME 1/2 GROUNDWATER TCE CONCENTRATIONS
RW-3C (GRID COORDINATE C6)

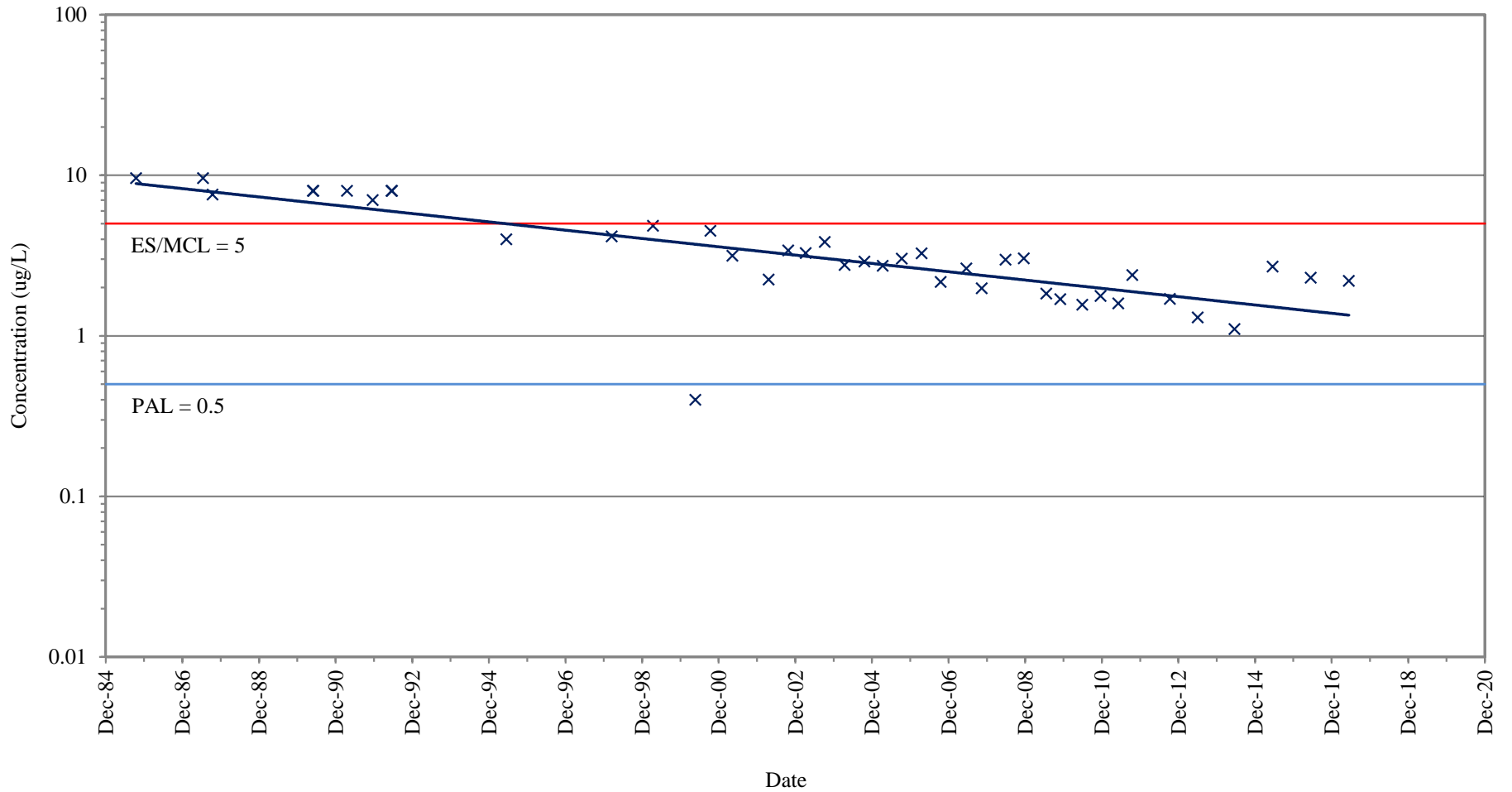
NATIONAL PRESTO INDUSTRIES, INC.
 EAU CLAIRE, WISCONSIN



Note: Non-detect concentrations (if any) are plotted at the detection limit and best-fit exponential trend line generated using Excel.

PLUME 1/2 GROUNDWATER TCE CONCENTRATIONS
RW-15 (GRID COORDINATE J7)

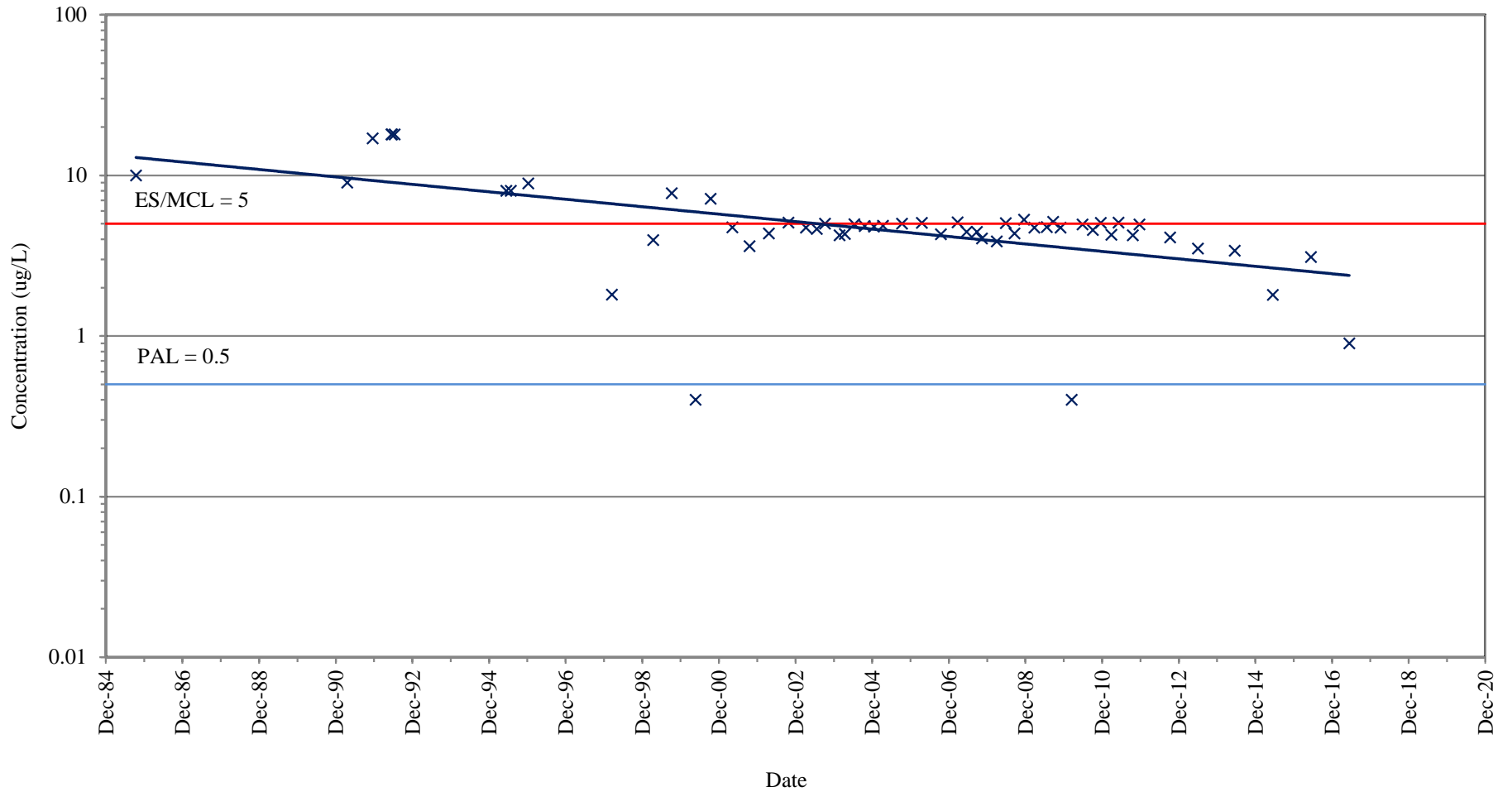
NATIONAL PRESTO INDUSTRIES, INC.
 EAU CLAIRE, WISCONSIN



Note: Non-detect concentrations (if any) are plotted at the detection limit and best-fit exponential trend line generated using Excel.

PLUME 1/2 GROUNDWATER TCE CONCENTRATIONS
RW-16 (GRID COORDINATE G7)

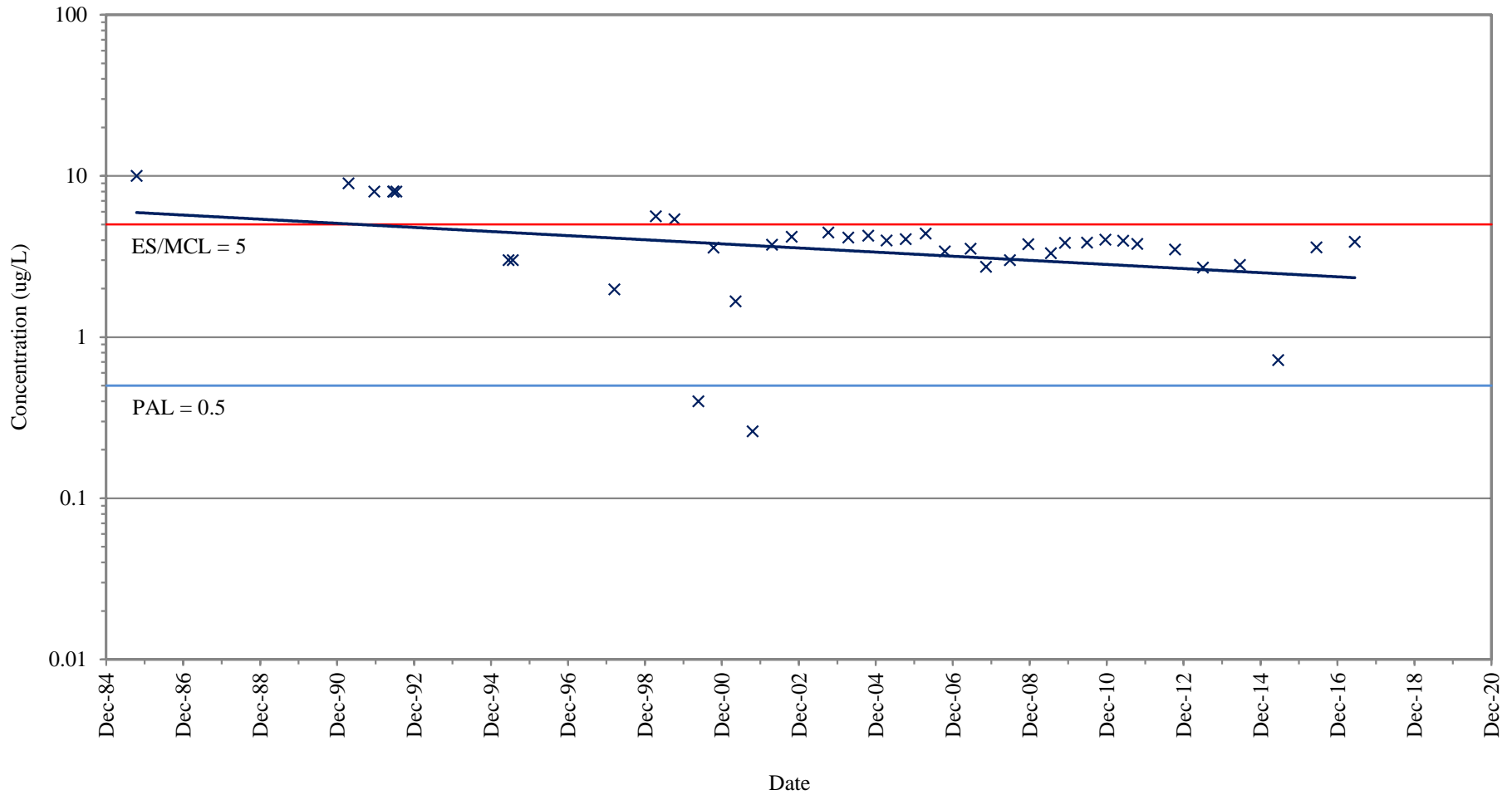
NATIONAL PRESTO INDUSTRIES, INC.
 EAU CLAIRE, WISCONSIN



Note: Non-detect concentrations (if any) are plotted at the detection limit and best-fit exponential trend line generated using Excel.

PLUME 1/2 GROUNDWATER TCE CONCENTRATIONS
RW-16B (GRID COORDINATE G7)

NATIONAL PRESTO INDUSTRIES, INC.
 EAU CLAIRE, WISCONSIN



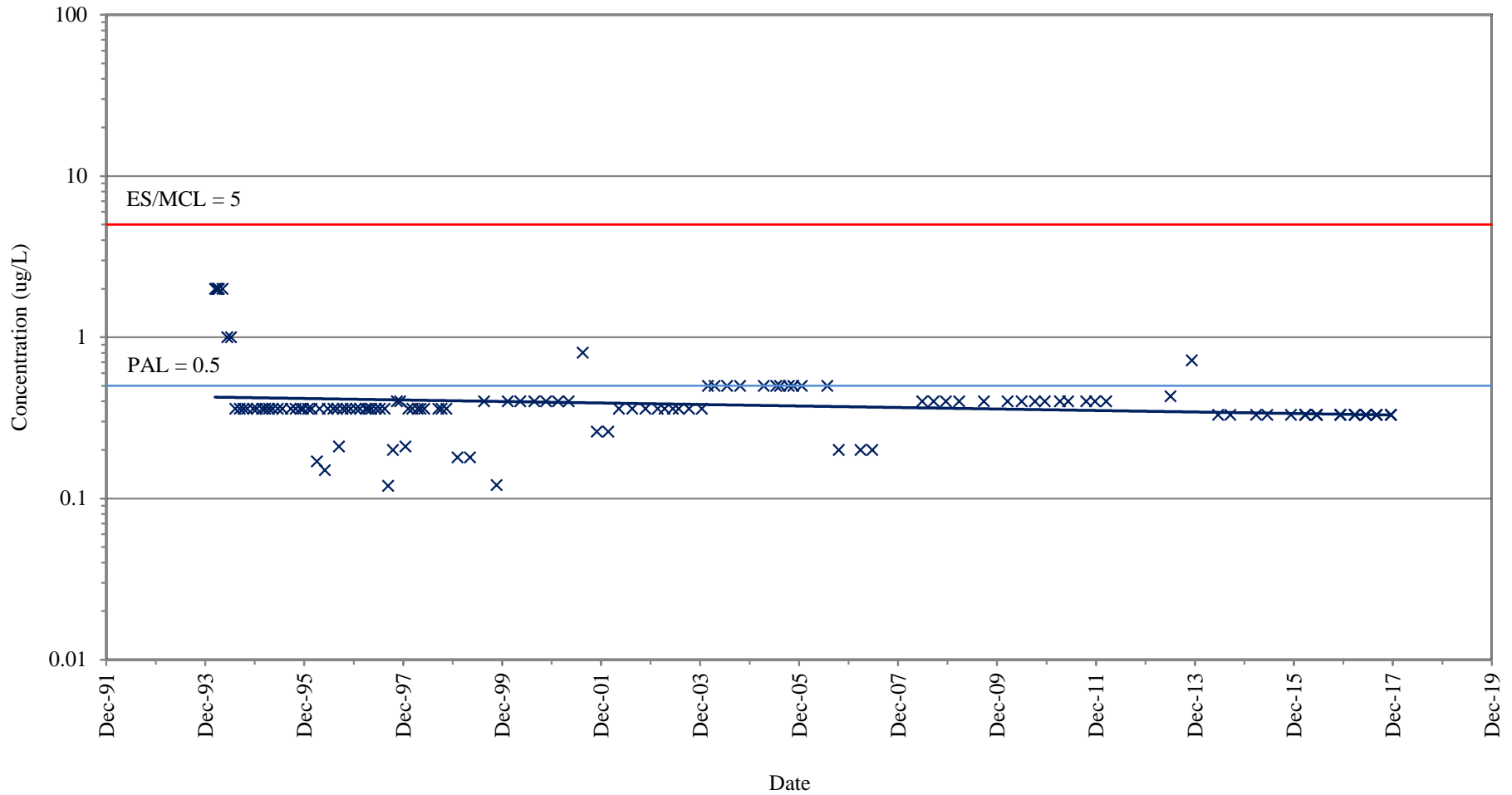
Note: Non-detect concentrations (if any) are plotted at the detection limit and best-fit exponential trend line generated using Excel.

PLUME 1/2 GROUNDWATER TCE CONCENTRATIONS
RW-16C (GRID COORDINATE G7)

NATIONAL PRESTO INDUSTRIES, INC.
 EAU CLAIRE, WISCONSIN

APPENDIX C

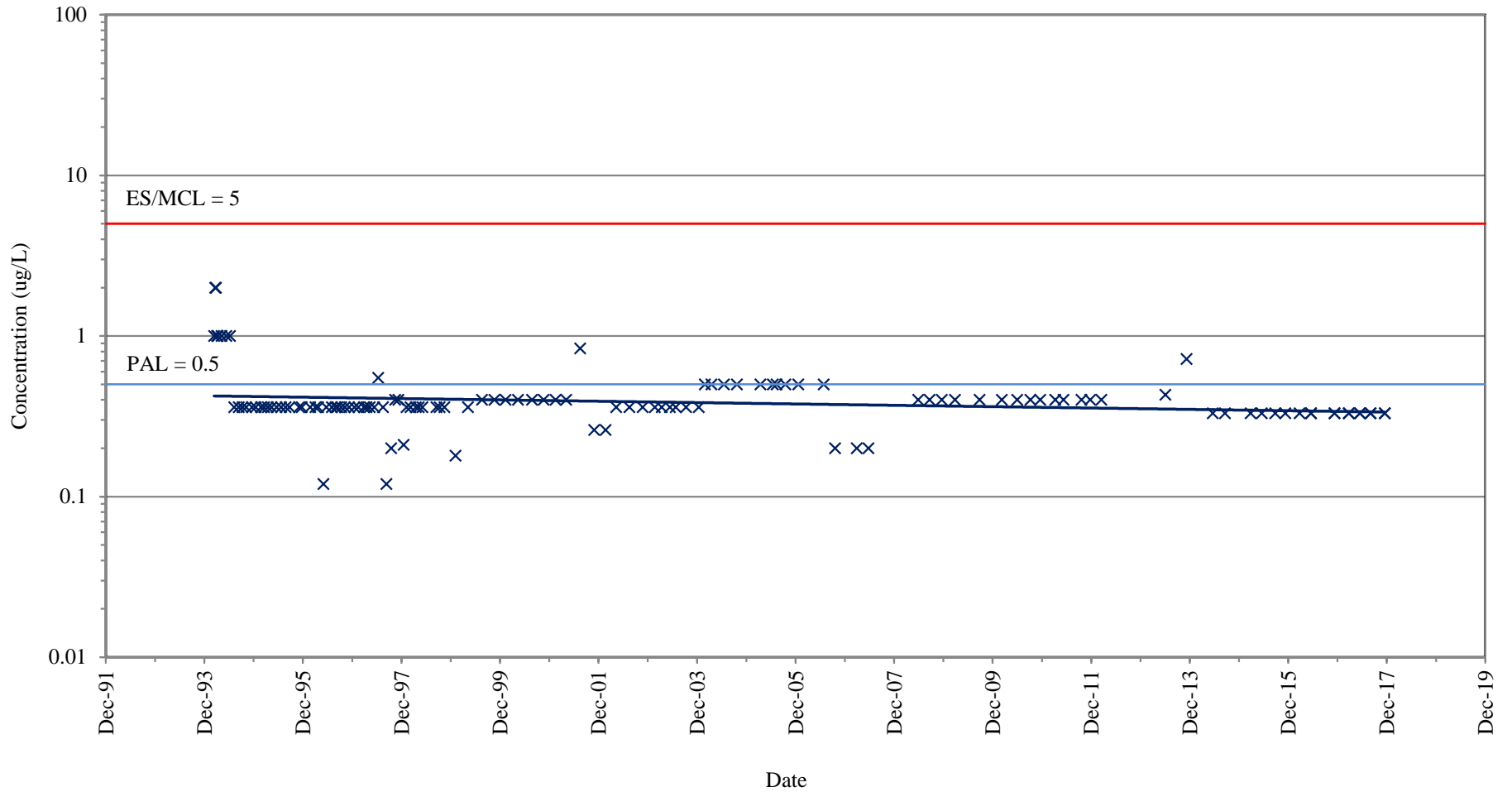
TCE CONCENTRATION VERSUS TIME GRAPHS
FORMER PLUME 3/4 (MELBY ROAD DISPOSAL SITE)



Note: Non-detect concentrations (if any) are plotted at the detection limit and best-fit exponential trend line generated using Excel.

PLUME 3/4 GROUNDWATER TCE CONCENTRATIONS
EW-1/1R (GRID COORDINATE L6)

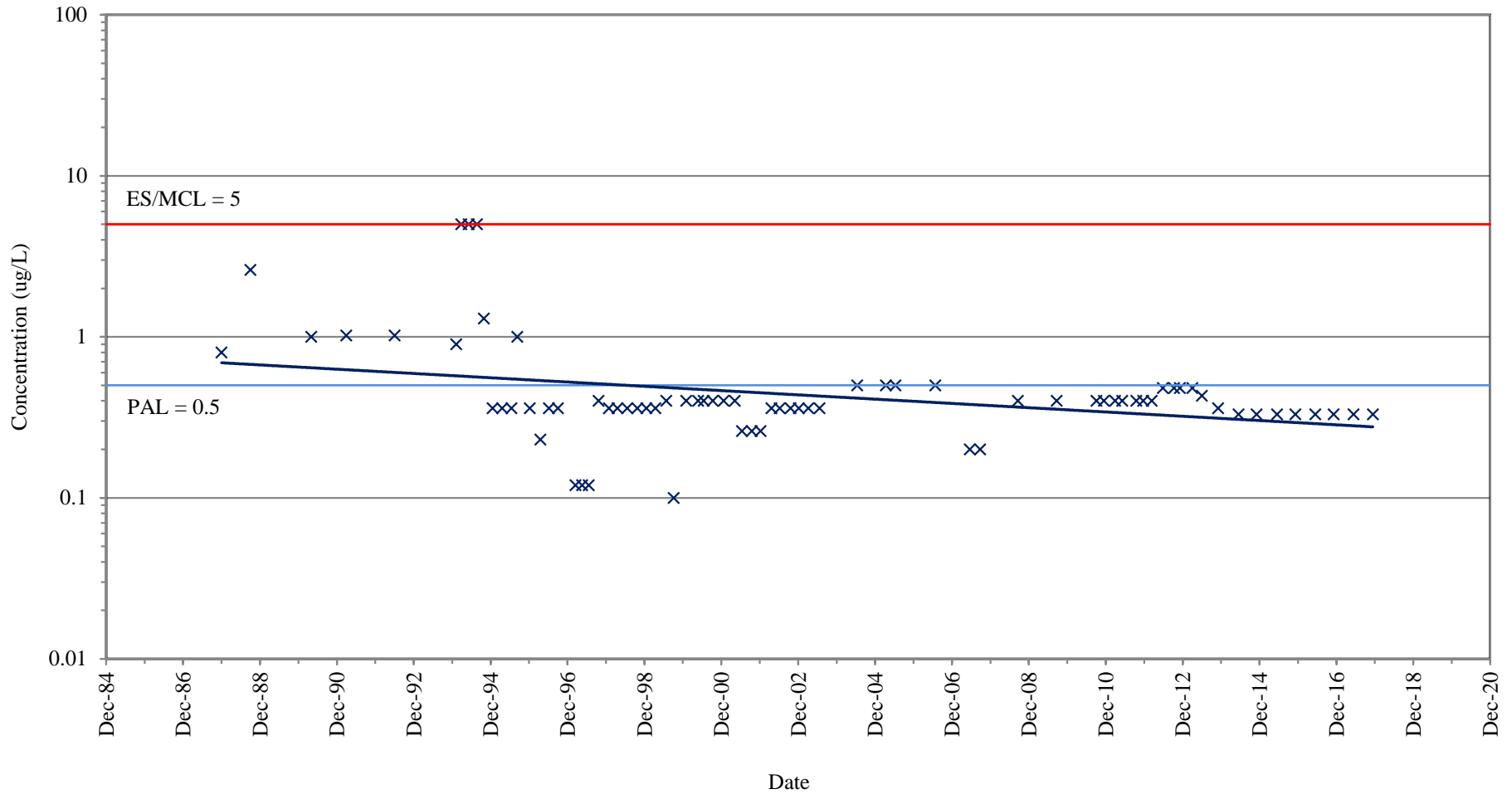
NATIONAL PRESTO INDUSTRIES, INC.
 EAU CLAIRE, WISCONSIN



Note: Non-detect concentrations (if any) are plotted at the detection limit and best-fit exponential trend line generated using Excel.

PLUME 3/4 GROUNDWATER TCE CONCENTRATIONS
EW-2 (GRID COORDINATE L6)

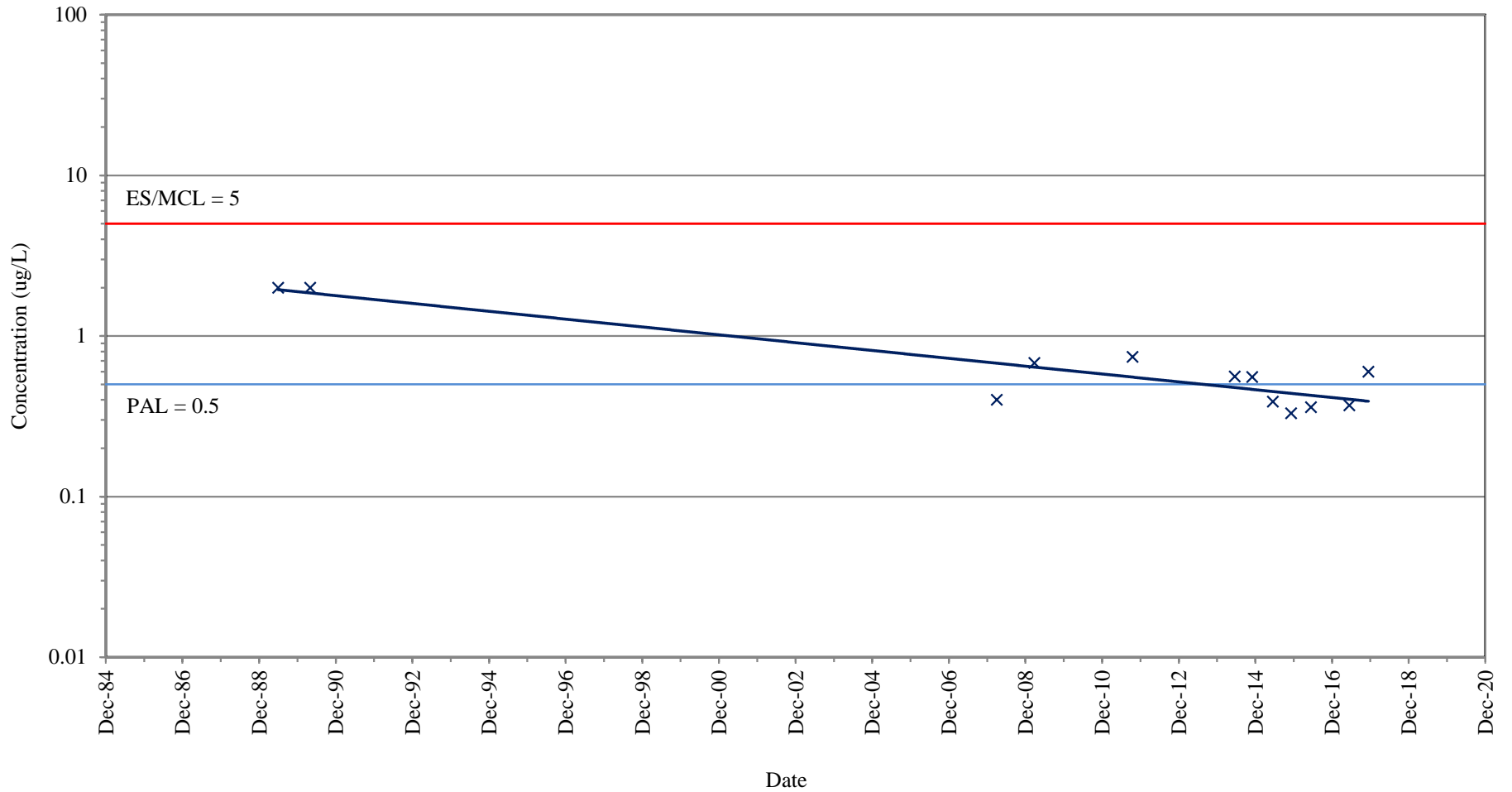
NATIONAL PRESTO INDUSTRIES, INC.
 EAU CLAIRE, WISCONSIN



Note: Non-detect concentrations (if any) are plotted at the detection limit and best-fit exponential trend line generated using Excel.

PLUME 3/4 GROUNDWATER TCE CONCENTRATIONS
MW-5A (GRID COORDINATE L6)

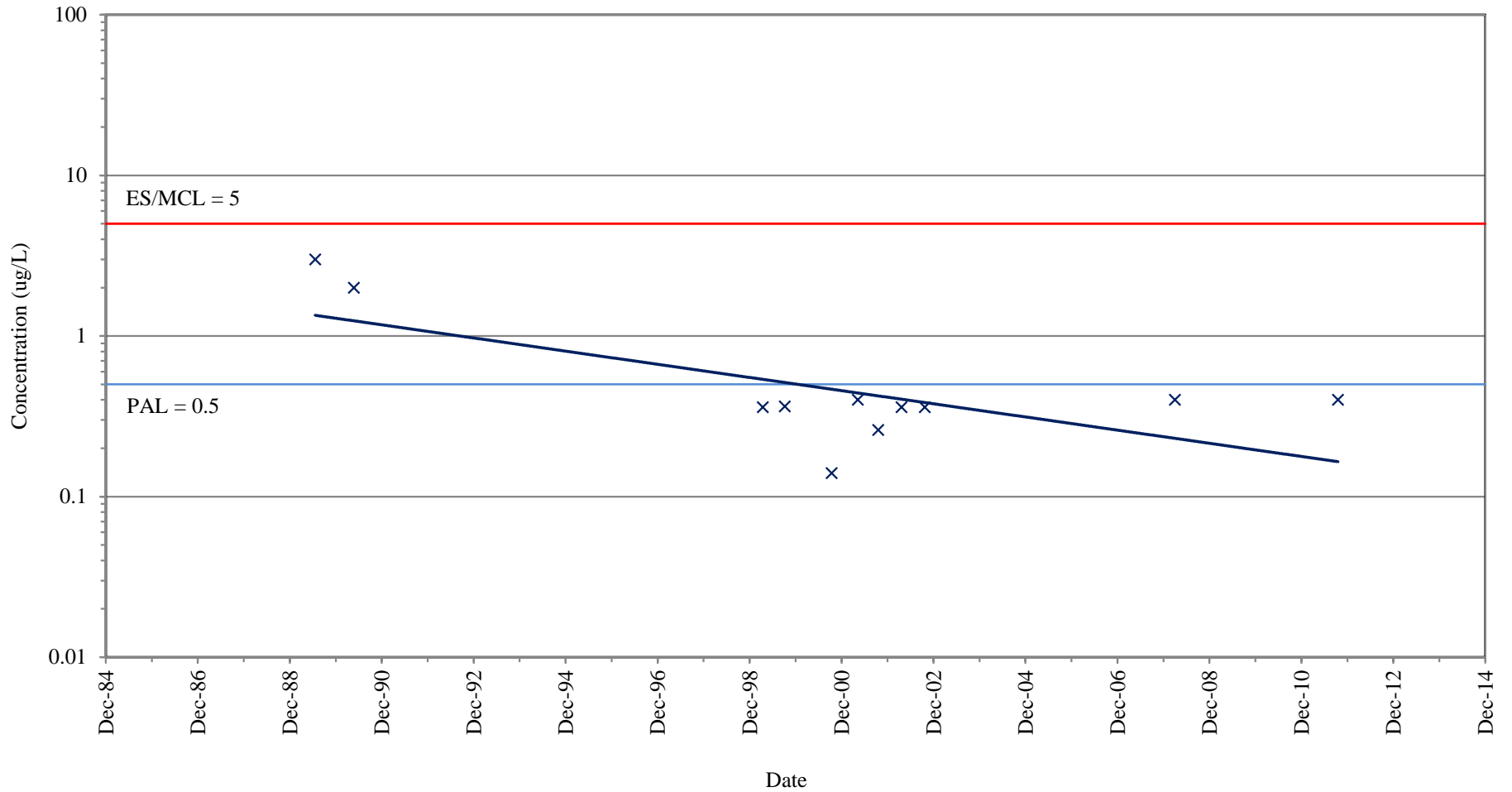
NATIONAL PRESTO INDUSTRIES, INC.
 EAU CLAIRE, WISCONSIN



Note: Non-detect concentrations (if any) are plotted at the detection limit and best-fit exponential trend line generated using Excel.

PLUME 3/4 GROUNDWATER TCE CONCENTRATIONS
MW-26B (GRID COORDINATE L5)

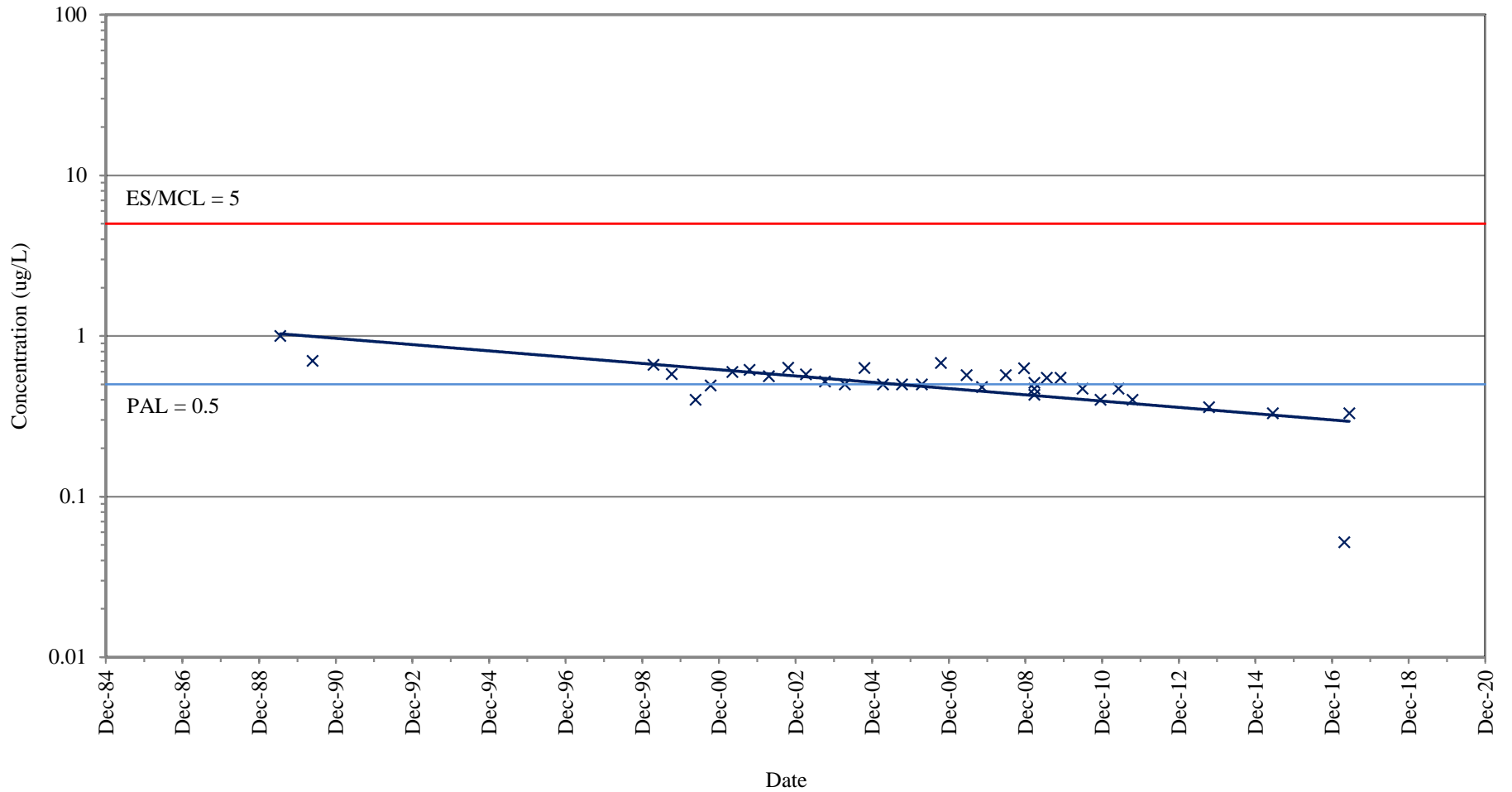
NATIONAL PRESTO INDUSTRIES, INC.
 EAU CLAIRE, WISCONSIN



Note: Non-detect concentrations (if any) are plotted at the detection limit and best-fit exponential trend line generated using Excel.

PLUME 3/4 GROUNDWATER TCE CONCENTRATIONS
MW-27B (GRID COORDINATE L5)

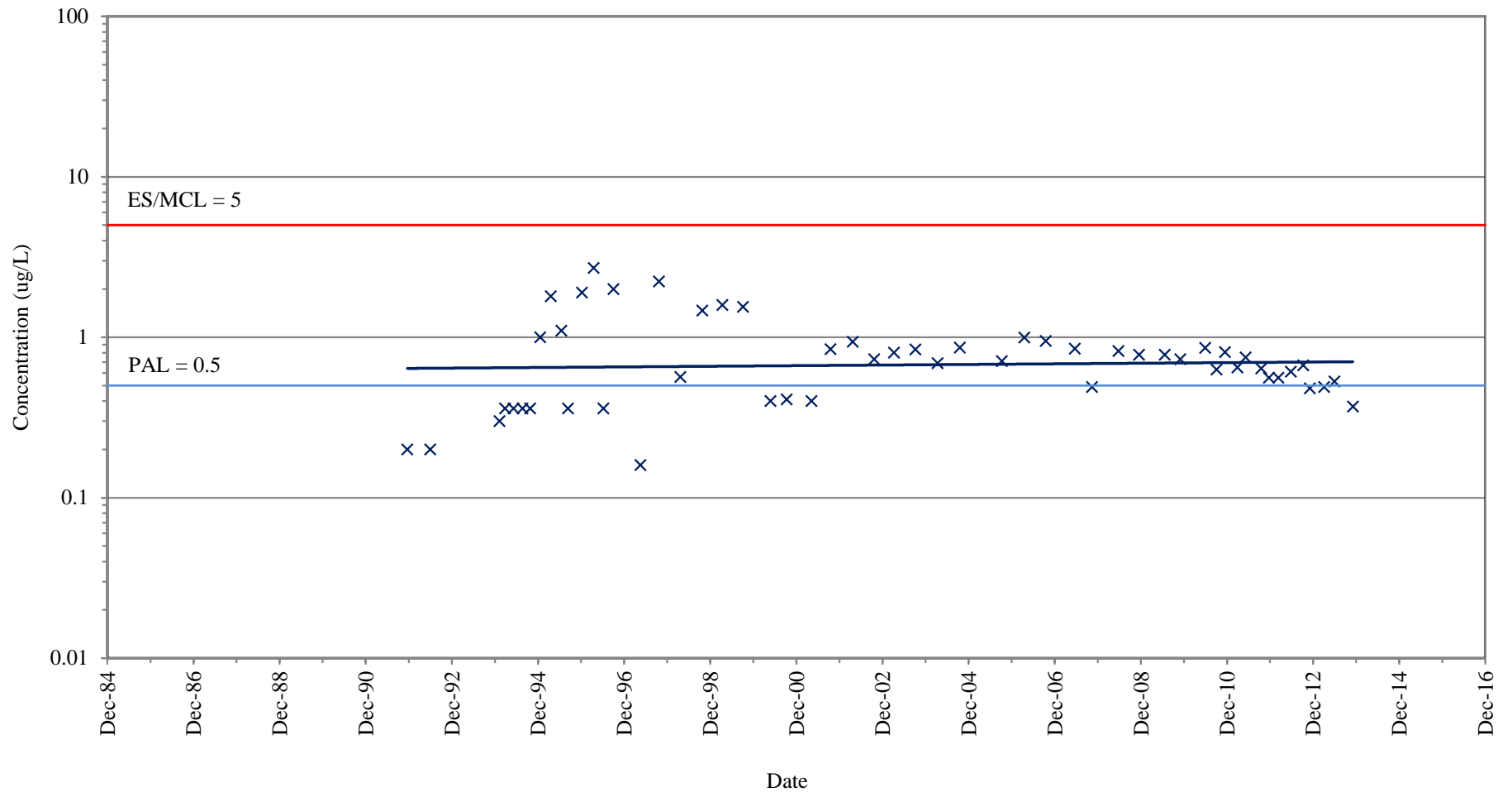
NATIONAL PRESTO INDUSTRIES, INC.
 EAU CLAIRE, WISCONSIN



Note: Non-detect concentrations (if any) are plotted at the detection limit and best-fit exponential trend line generated using Excel.

PLUME 3/4 GROUNDWATER TCE CONCENTRATIONS
MW-29B (GRID COORDINATE L3)

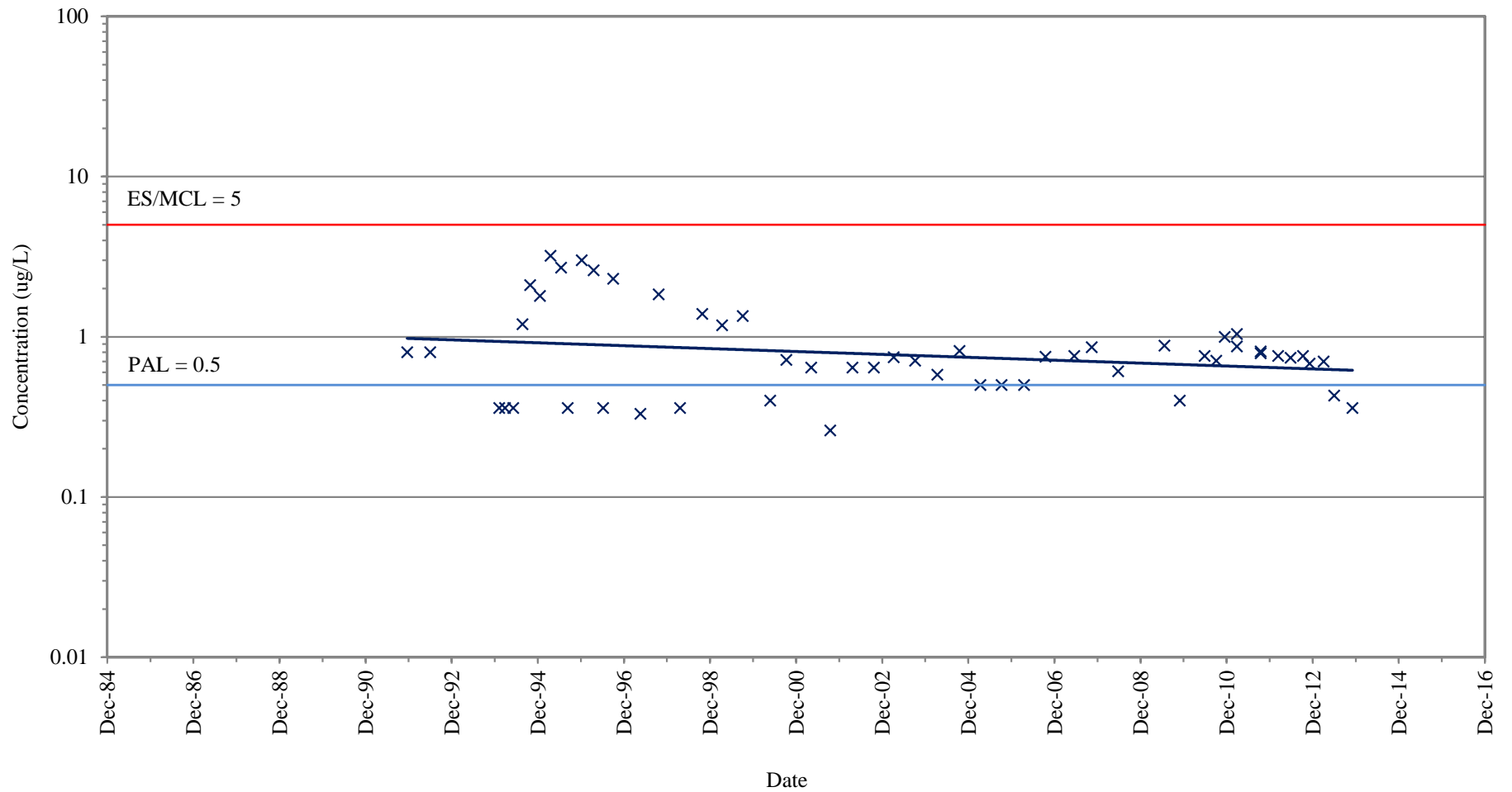
NATIONAL PRESTO INDUSTRIES, INC.
 EAU CLAIRE, WISCONSIN



Note: Non-detect concentrations (if any) are plotted at the detection limit and best-fit exponential trend line generated using Excel.

PLUME 3/4 GROUNDWATER TCE CONCENTRATIONS
MW-64B (GRID COORDINATE L6)

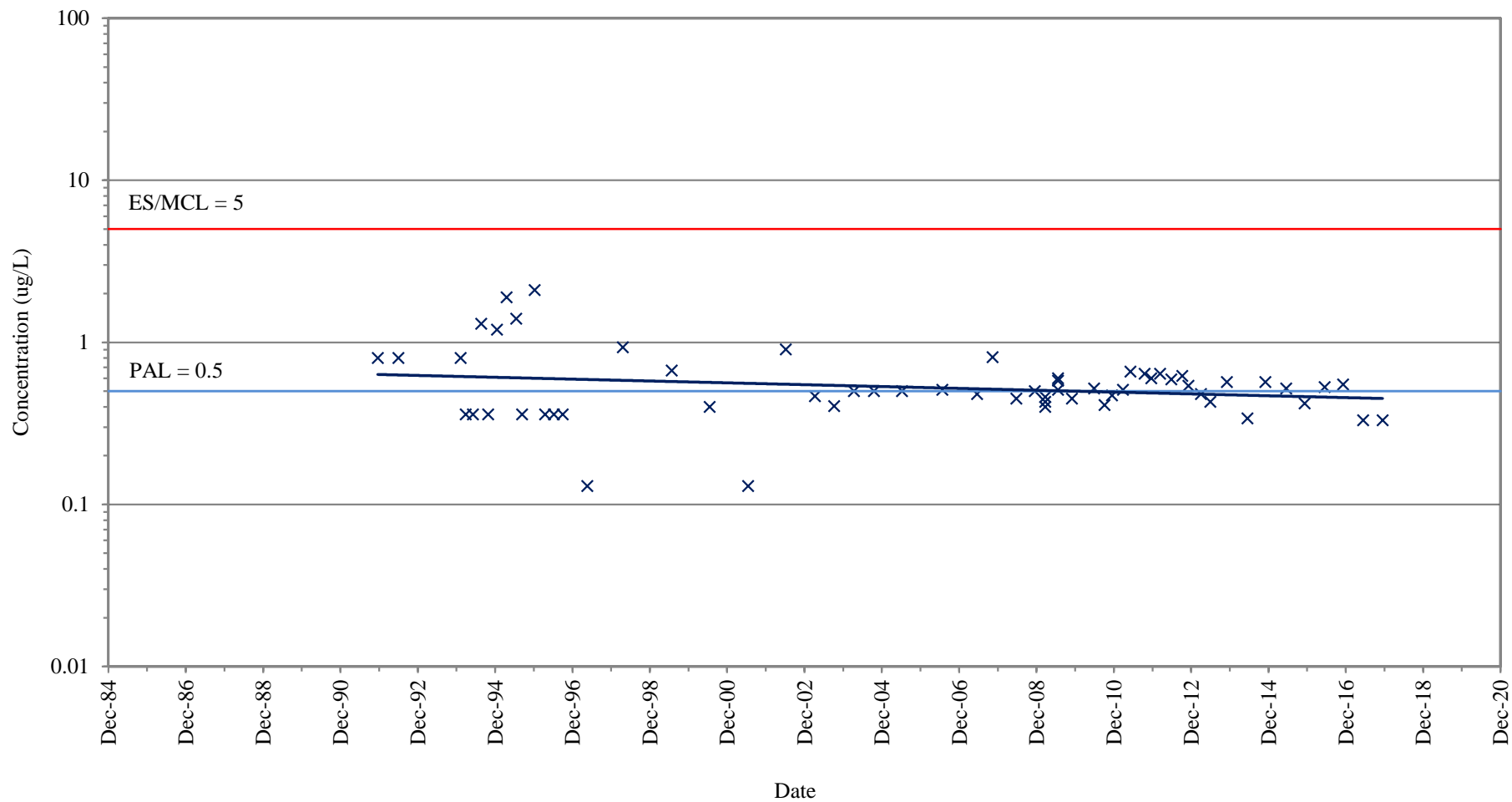
NATIONAL PRESTO INDUSTRIES, INC.
 EAU CLAIRE, WISCONSIN



Note: Non-detect concentrations (if any) are plotted at the detection limit and best-fit exponential trend line generated using Excel.

PLUME 3/4 GROUNDWATER TCE CONCENTRATIONS
MW-64C (GRID COORDINATE L6)

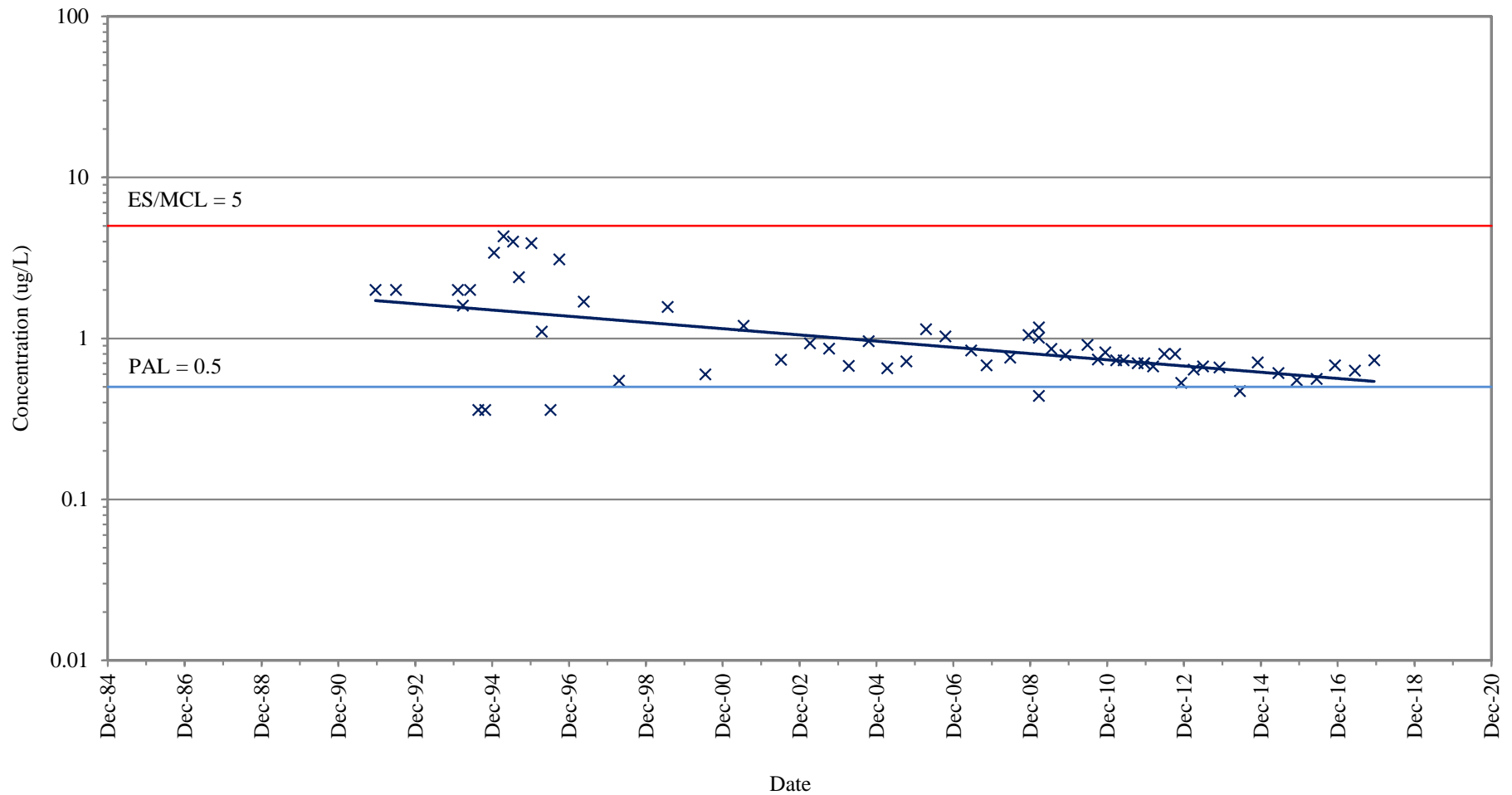
NATIONAL PRESTO INDUSTRIES, INC.
 EAU CLAIRE, WISCONSIN



Note: Non-detect concentrations (if any) are plotted at the detection limit and best-fit exponential trend line generated using Excel.

PLUME 3/4 GROUNDWATER TCE CONCENTRATIONS
MW-65B (GRID COORDINATE L6)

NATIONAL PRESTO INDUSTRIES, INC.
EAU CLAIRE, WISCONSIN



Note: Non-detect concentrations (if any) are plotted at the detection limit and best-fit exponential trend line generated using Excel.

PLUME 3/4 GROUNDWATER TCE CONCENTRATIONS
MW-65C (GRID COORDINATE L6)

NATIONAL PRESTO INDUSTRIES, INC.
 EAU CLAIRE, WISCONSIN