# Concrete Segregation and Removal Plan

## Madison-Kipp Corporation (MKC)
## Madison, Wisconsin

October 2024

**WDNR BRRTS #02-13-578014**

**Prepared For:**

Madison-Kipp Corporation
201 Waubesa Street
Madison, Wisconsin 53704

**Prepared By:**

TRC
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Andrew Stehn, P.E.
Senior Project Engineer

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## APPENDICES

# 1.0 Background

## 1.1 Site History

Madison Kipp Corporation (MKC) operates an aluminum die casting facility, located at 201 Waubesa Street, Madison, Wisconsin (Site). Historical die casting operations that involved hydraulic fluids containing polychlorinated biphenyl (PCBs), and dust suppression of the parking lot using PCB-containing oils at the facility resulted in PCB impacts at the Site. Various site investigations and remedial activities have been completed over the years at the Site.

## 1.2 Concrete Improvement Preparation

MKC conducts facility maintenance and makes improvements to the facility interior periodically as a result of business operations. As part of the improvements, sections of the facility floor are repaired and/or replaced. Based on the historical PCB use at the Site, floor replacement activities include waste characterization sampling prior to the removal of materials from the site. A notification letter was submitted to the United States Environmental Protection Agency (EPA) and Wisconsin Department of Natural Resources (WDNR) on February 23, 2024 (**Appendix A**), summarizing proposed facility floor improvements that MKC planned to complete. The letter provided details on the areas requiring improvement and discussed waste characterization, material management, and material disposal. Prior to the removal and concrete repair, TRC, on behalf of MKC, conducted waste characterization sampling of the concrete floor as outlined in the February 2024 notification letter. The identified area (Area 2024-3) measured 16-feet by 12-feet (192 square feet) in size. The area was sectioned off and sub-divided into four quadrants. Holes were drilled into the concrete floor at the corner of each quadrant as shown on **Figure 1** in **Appendix B.** The pulverized concrete was collected from each drill hole. A total of nine individual concrete samples were collected from Area 2024-3. Four samples were composited (1 per quadrant) from the nine individual samples and submitted for laboratory analysis of PCBs and Resource Conservation and Recovery Act (RCRA) Eight Metals. The results of the composite samples are summarized in Table 1 of **Appendix B** and the laboratory analytical report is included in **Appendix C**. The results were compared to the WDNR NR 720 Direct Contact Residual Contaminant Levels (RCLs). The results from the concrete waste characterization sampling showed the presence of PCB Aroclor 1248 in the concrete. No other PCB Aroclors were detected above laboratory detection limits in the four composite samples. Concentrations were reported above the WDNR NR 720 non-industrial direct contact pathway but below the industrial direct contact pathway, and the highest concentration was reported at 0.861 milligram per kilogram.

## 1.3 Concrete Removal and Disposal

On March 28, 2024, MKC commenced the facility improvement work and removed and replaced the concrete within Area 2024-3. Photos of the area before and after the improvements are included in **Appendix D**. Removal of Area 2024-3 consisted of saw cutting the perimeter of the area followed by breaking of the concrete into pieces measuring approximately 2-foot by 2-foot (4 square feet (sqft)) or smaller to allow for transport from the repair location to a dump truck that was staged outside of the facility. The MKC facility concrete has a distinct black color/staining on its surface as result of years of facility die-casting operations. Additionally, some of the concrete pieces contain drill holes from the previous waste characterization sampling. The thickness of the concrete was noted by MKC personnel to be between six to eight inches. The amount of material removed was approximately 4.6 cubic yards or approximately 7 tons (assuming a density

of 1.5 tons equals 1 cubic yard). As completed historically for facility improvement work and based on the presence of PCB Aroclor 1248 in waste characterization samples, the concrete was intended to be disposed of at a WDNR-licensed disposal facility approved to accept the PCB impacted concrete. However, MKC inadvertently had the concrete hauled to an alternative disposal facility in Deforest, WI which recycles concrete material. The recycling facility takes in concrete materials and processes the materials for reuse as base course for pavement type construction projects.

MKC notified TRC of the concrete disposal on April 3, 2024, and the recycling facility was contacted shortly after to notify them of the situation. The facility blocked off the area, where the MKC concrete was placed, on April 4, 2024, to ensure no additional material was placed in the same stockpile. TRC and MKC conducted a site walk on April 5, 2024, to inspect the stockpile and to determine the concrete handling processes of the recycling facility. The recycling facility personnel showed TRC and MKC the portion of the stockpile where MKC's concrete had been placed. They stated that material is transported into the site and dumped at the top of the stockpile. The transported material is then pushed off the side of the stockpile at the end of each day. The stockpile is constructed off the side of an embankment, and it was noted that MKC's concrete had been placed along the eastern portion of the stockpile. Photos of the stockpile are included in the Photographic Log in **Appendix D**.

## 1.4 Concrete Stockpile Description

The concrete stockpile has the general shape of half of a triangle, which reflects the process of pushing the material off the side of the existing embankment. The eastern portion of the stockpile, where the MKC concrete was placed, measures approximately 40 feet in width (along the base of the stockpile) and the length is approximately 38 feet (measured along the stockpile slope). Based on these measurements the surface area of the stockpile where MKC concrete was placed equates to approximately 1,520 square feet. The surface volume per foot equates to 1,520 cubic feet or approximately 56 cubic yards.

The recycling facility provided details on material that was hauled into the facility between March 28, 2024, and April 4, 2024. When material is brought into the facility, customer and truck information, number of loads, and the type of imported fill is documented. However, the facility does not weight or calculate volume. Concrete, rubble, and brick materials are categorized as a Type 1 fill by the facility. The records provided by the facility indicate that a total of 41 loads of Type 1 materials were hauled into the facility between March 28, 2024, and April 4, 2024. It has been assumed that one-third of the material (14 loads) received by the recycling facility during this time was pushed into the eastern portion of the stockpile where MKC's concrete was disposed of. This is based on operational processes and the width of the unloading area at the top of the stockpile where materials were dumped. The recycling facility operator noted that between March 28, 2024, and April 4, 2024, approximately 10 tons of material per day was placed in the stockpile following the disposal of MKC's material in the eastern portion of the stockpile. Based on the stated disposal information it is estimated that approximately 50 tons of materials (5 business days at 10 tons per day) were disposed of following the placement of the MKC material.

## 1.5 USEPA and WDNR Correspondence

TRC reached out to the WDNR and EPA on April 5, 2024, to discuss the inadvertent hauling of concrete to the recycling facility, and a conference call between TRC, MKC, EPA, and the WDNR was conducted on April 8, 2024. Following the initial conference call, a second call was conducted

with EPA on April 18, 2024, to further discuss known details and to determine the appropriate action regarding the MKC concrete.

As a result of discussions with EPA and WDNR during the April 18, 2024, conference call, the nine individual concrete samples that had been collected from Area 2024-3 and used for composite sampling for waste characterization were submitted to the laboratory for analysis of PCBs. The results of the nine concrete samples are summarized in Table 2 of **Appendix B** and the laboratory analytical report is included in **Appendix C**. A 95 percent upper confidence limit (UCL) for the data set was calculated and is also summarized in Table 2. The 95 percent UCL calculates a mean (average) concentration for the entire data set, or in this case Area 2024-3 concrete. The analytical results for the nine individual samples, calculate that the 95 percent UCL mean concentration for Area 2024-3 concrete is less than or equal to 1.00 mg/kg. **Appendix B** includes the supporting calculations for the 95% UCL. Results from the individual samples were provided to EPA and WDNR and discussed during a phone call conducted on May 10, 2024.

Following the May 10, 2024 call MKC provided further details based on information requests from the EPA and additional calls were conducted through August 9, 2024 to discuss potential options for the MKC concrete. During the August 9, 2024 call with the EPA, segregation of the stockpile, to allow non-MKC concrete to remain onsite, was discussed. EPA provided initial concurrence to this approach on August 13, 2024 (via email), but also requested that further details and means and methods associated with the approach be provided on how concrete materials would be segregated and managed onsite. The following sections describe the proposed scope of work to segregate non-MKC materials from the identified area of the stockpile and remove MKC concrete for transport to a licensed disposal facility.

## 2.0 Purpose

The following approach to facilitate the removal of the MKC concrete disposed of at the recycling facility has been developed based on the discussions with the WDNR and the EPA, and information provided by the recycling facility and MKC.

## 3.0 Concrete Segregation and Disposal Plan

### 3.1 Scope of Work

The proposed scope of work under this work plan is as follows:

- Visual identification and segregation of non-MKC concrete from the face of the slope of the eastern section of the facility stockpile.
- Visual identification and removal of MKC concrete and surrounding materials that represent material transported to the facility and placed in the same area of the stockpile five days after MKC concrete was placed.
- Placement of MKC concrete and additional selected material in lined roll-off containers for waste characterization testing.
- Transport of roll-off containers to a licensed disposal facility after waste characterization sample results are received.
- Visual confirmation that no MKC concrete remains on the stockpile following removal.

- Observe and document material segregation, waste characterizing sampling, and material containerization.

### *3.1.1 Concrete Segregation Means and Methods*

Based on the information provided by the recycling facility, MKC proposes to remove a portion of the eastern slope of the stockpile where the MKC concrete was placed. Based on the means and methods of disposal at the facility and the uneven surface of the stockpile, an additional quantity of material will be over excavated to ensure no additional MKC concrete remains in the stockpile. The amount of additional material to be removed corresponds to the estimated volume of material placed on the eastern area of the stockpile between March 28, 2024, and April 4, 2024, as discussed in Section 1.4. To segregate and inspect the concrete, and allow for waste characterization, MKC proposes to use lined roll-off containers to store the material segregated for offsite disposal. A roll-off container can accommodate approximately 15 tons or 10 cubic yards of concrete (assuming 1.5 tons of concrete equals 1 cubic yard). Based on the number of loads dumped and pushed into the eastern portion of the stockpile, MKC proposes to remove approximately 100 cubic yards (150 tons) of concrete from the eastern portion of the stockpile for disposal at a licensed landfill facility.

Due to the height of the stockpile and reach of excavating equipment, the concrete removal process will be completed in stages, addressing the top half the of stockpile first and then moving to the lower half of the stockpile. Roll-off containers will be placed adjacent to the excavator to allow for direct loading. Filled roll-off containers will be moved away from the loading areas as they are filled and new, empty containers will be placed as needed. Based on the understanding that the concrete would have been pushed off the side of the stockpile embankment, it is likely that the smaller pieces of concrete would be deposited in the upper half of the pile and larger pieces would have rolled to the lower portion. The following steps will be completed to segregate and load the concrete material into the roll-off containers.

1. Material segregation for the eastern area of the upper portion of stockpile will begin by removing materials that are larger than 4 sqft with no visual indication (i.e. black color along the concrete surface) of MKC concrete and non-concrete materials (i.e. granite countertops, bricks, stones, cobbles etc.), which are known to not be MKC concrete. Small non-MKC material co-mingled with MKC concrete will be removed for offsite disposal.
2. Following removal of non-MKC materials, starting at the highest point of the pile, approximately 12-inches (in depth) of material will be removed from the surface of the stockpile (i.e. slope) and loaded into lined roll-off containers. As work is completed, additional segregation of identifiable non-MKC materials will be performed. Visual screening of materials for concrete pieces that could have originated at MKC's facility (see Section 1.3) will be conducted during material removal. Photos of MKC's concrete in place can be seen in **Appendix D**. As material at the top of the pile is removed, sloughing/migrating of material is expected to occur and will be managed during removal of the lower portion of the stockpile. It is anticipated that based on the surface area of the upper half of the eastern area of the stockpile, this removal process will equate to approximately 28 cubic yards or 42 tons of material being placed into roll-off containers.
3. Following segregation and removal, a visual inspection of the upper half of the stockpile will be completed, if MKC concrete is identified, further removal will be completed. If no evidence of MKC concrete is observed, the operator will move the equipment to the lower portion of the stockpile.

4. Once the equipment has been moved, material segregation for the lower portion of the eastern area of the stockpile will be performed in the same manner as described in Step 1. Based on observations of the existing stockpile it is assumed that there will be more larger pieces of concrete at the base of slope that will require removal and segregation as non-MKC concrete.
5. Starting at the midpoint of point of the stockpile (where equipment could not reach from the top), approximately 18 to 24 -inches (in depth) of material will be removed from the surface of pile (i.e. slope) and loaded into lined roll-off containers. Based on the description of the recycling facility operations, it is anticipated that a larger volume of the non-MKC material (placed after the MKC concrete) would have migrated down the pile, potentially covering the MKC concrete. As such, more material will be removed from the lower portion of the stockpile to ensure all MKC concrete is removed. As work is completed, additional segregation of identifiable non-MKC concrete will be performed. Visual screening of materials for concrete pieces that could have originated at MKC's facility (see Section 1.3) will be conducted during material removal. It is anticipated that based on the surface area of the lower half of the stockpile, this removal process will equate to approximately 42 to 56 cubic yards or 63 to 84 tons.
6. Following segregation and removal, a visual inspection of the lower half of the stockpile will be completed, if MKC concrete is identified, further removal will be completed. If no evidence of MKC concrete is observed the removal action will be complete.
7. In total, it is estimated that 10 roll-off containers will be filled which equates to approximately 100 cubic yards or 150 tons which is approximately 95 percent more than the concrete generated by MKC.
8. Minor adjustments to the process described above may be required for safe operations along the side of the embankment. Any changes in methodology will be documented and provided in the final documentation report.

### *3.1.2 Concrete Removal Confirmation*

Less than 5 cubic yards of concrete was removed from MKC's facility and placed at the recycling facility. Concrete materials will be visually inspected during segregation and removal for evidence of MKC concrete. However, due to the small volume of MKC concrete, visual identification of all of the MKC concrete is unlikely. By segregating large pieces of concrete (greater than 4 sqft) with no black color on the surface, removal of non-concrete materials, and removing up to 100 cubic yards (150 tons) of concrete from the eastern portion of the stockpile (where the MKC concrete was placed), it can be assumed that the PCB-containing concrete will have been removed from the stockpile. As such, a visual inspection of the stockpile following the removal process will document that the material left in place did not originate from MKC. Post-removal confirmation samples will not be collected from the remaining stockpile. The removal action will be considered complete following the inspection and no further work or sampling is recommended.

### *3.1.3 Waste Characterization Sampling*

MKC has identified Green For Life (GFL) landfill Glacier Ridge in Horicon, WI as the receiving disposal facility. It is estimated that approximately 10 roll-off containers will be required to remove the 100 cubic yards (150 tons) of concrete. GFL requires waste characterization sampling of the material prior to acceptance. A total of three composite samples of the material will be prepared for waste characterization. GFL will collect concrete from each of the filled roll-off containers and

submit to Pace Analytical Green Bay for sample processing. After material processing the laboratory will composite the material into three samples. The composite samples will be analyzed for total PCBs using USEPA Method 8020 and toxic characteristic leaching procedure (TCLP) RCRA eight metals plus cooper and zinc using USEPA Method 6010, as required by the disposal facility. The initial sampling of the MKC concrete, prior to removal from MKC, indicates that the concrete contains low levels of PCBs. Waste characterization sample results will be provided to EPA and WDNR prior to transport and disposal.

### *3.1.4 Concrete Hauling and Disposal*

Once filled, the lined roll-off containers will be covered and staged onsite at the concrete recycling facility until waste characterization sample results are available, and landfill disposal approval is obtained. Upon approval, the containers will be hauled to GFL's Glacier Ridge landfill for disposal.

### *3.1.5 Personnel Protective Equipment*

Personnel that come in direct contact with potential PCB contaminated concrete for the purposes of conducting visual inspections and/or sampling, will wear nitrile gloves. Personnel protective safety equipment (i.e., safety vests, hard hats, steel-toe boots, and eye and hearing protection) will be required per the recycling facility's safety protocol.

Waste generated during the segregation and removal process may include general refuse (e.g., used personal protective equipment and trash). General refuse will be collected in trash bags and placed in a waste dumpster.

## 4.0 Schedule/Reporting

The segregation and removal process for this work will be completed following EPA and WDNR approval of this work plan and will be based on the availability of the disposal facility to provide roll-off containers. A letter-style report documenting the removal and inspection of the stockpile will be submitted to the WDNR and EPA within 60 days of completing the segregation, removal, and disposal of the concrete from the recycling facility. The report will include photo documentation before, during, and after the work is implemented. Waste characterization sample results and disposal documentation will be provided.

# Appendix A: Notification Letter to EPA

999 Fourier Dr., Ste. 101
Madison, WI 53717

T 608.826.3600
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February 23, 2024

Mr. Peter Ramanauskas
Regional PCB Coordinator
U.S. Environmental Protection Agency
77 West Jackson Boulevard
Chicago, Illinois 60604
Ramanauskas.peter@epa.gov

***Via E-mail Only***

Subject: Interior Manufacturing Floor Modifications
Madison-Kipp Corporation, 201 Waubesa Street, Madison, Wisconsin
Facility ID No. 113125320, WI BRRTS No. 02-13-578014

Dear Mr. Ramanauskas:

Madison-Kipp Corporation (MKC) plans to conduct concrete improvement work at their 201 Waubesa Street Facility (Site) as shown in Attachment 1. MKC is completing concrete repair work in existing sections of floor and planning to install a new furnace.

There are three sections of concrete being replaced:

1. Area 2024-1 – Shipping Floor: The area measures approximately 14-feet by 20-feet and is located along the eastern wall of the facility. This area will be divided into four sub-areas for sampling (approximately 7-feet by 10-feet).
2. Area 2024-2 – Storage Floor: The area measures approximately 15-feet by 20-feet and is located along the eastern side of the facility. This area will be divided into four sub-areas for sampling (approximately 7.5-feet by 10-feet)
3. Area 2024-3 – Furnace Footing/Floor: The area measures approximately 16-feet by 12-feet and is located near a furnace on the eastern side of the facility. This area will be divided into two sub-areas for sampling (approximately 8-feet by 12-feet).

In order to characterize the existing concrete floor for waste disposal, TRC plans to collect one composite sample from each sub-area from four holes cored in each corner of the sub-area, composited equally based on weight, and sent for laboratory analysis. The composite samples of concrete will be analyzed for PCBs (EPA Method 8082) and TCLP RCRA 8 metals (EPA Methods 6010 and 7470) for waste characterization, consistent with previous sampling and analysis completed at the facility. The analytical results for the composite samples will be provided when available.

No soil will be removed during this work because the scope is limited to concrete repair/replacement.

The concrete removed as part of this work will be disposed of at a licensed disposal facility able to accept the waste. A summary of the work and disposal documentation will be provided as part of the semi-annual report for the facility covering this period (January – June 2024).

Waste characterization sampling is tentatively scheduled for February 2024 and the work will follow once analytical data is available and based on the contractor's schedule. This letter serves as notification of the planned work in the facility. The planned work is consistent with the Cap Maintenance Plan in place at the site that requires that concrete repair/replacement within the MKC

facility will be handled with agency notification, composite sampling for waste characterization, analytical data review, and off-site disposal at a licensed facility.

If you have any questions or comments, please feel free to contact Ben Wachholz (608-354-3923) or Katherine Vater (608-826-3663).

Sincerely,

TRC

Ben Wachholz, P.E.
Senior Project Engineer

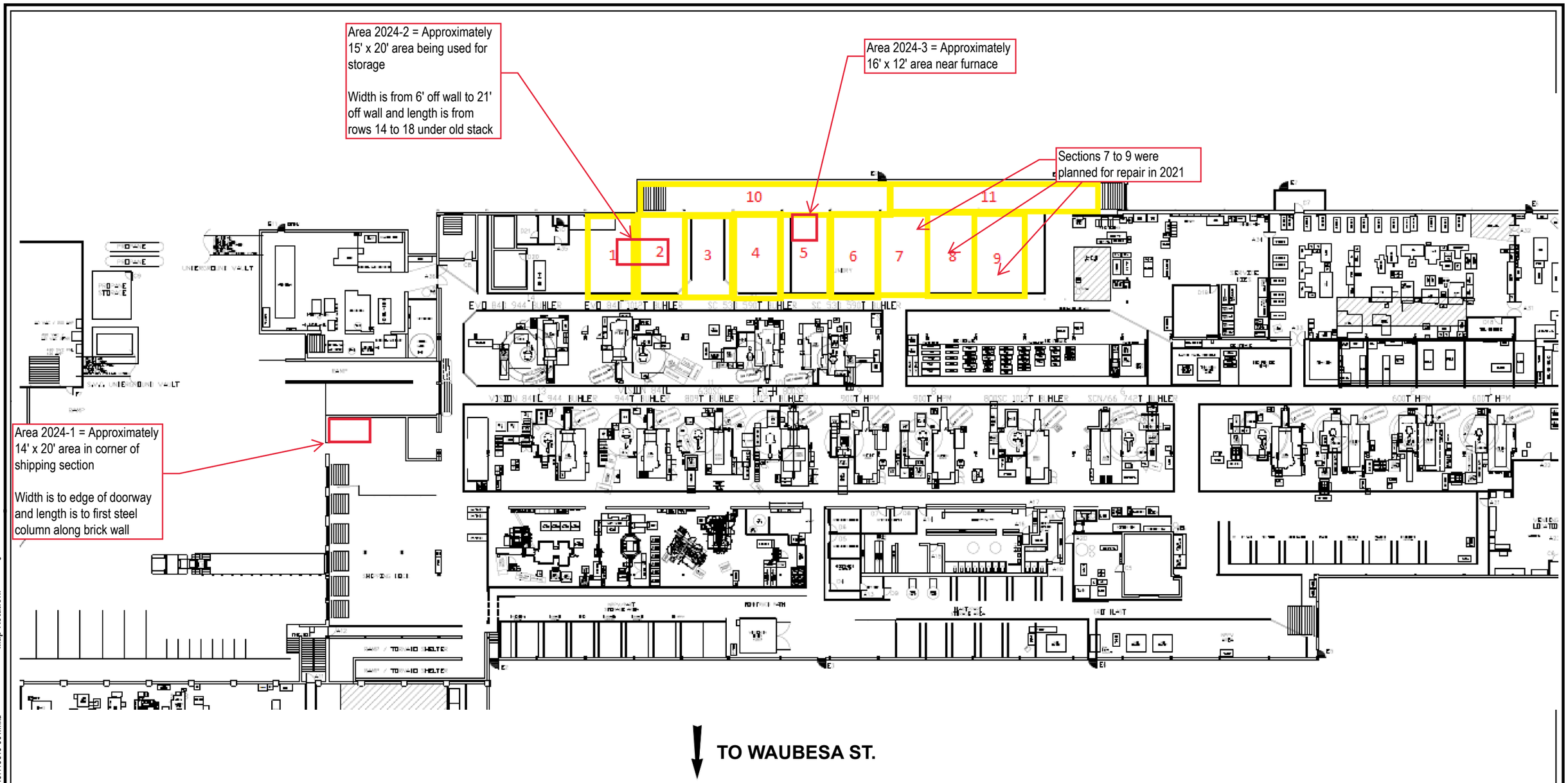
Katherine Vater, P.E.
Senior Project Manager

Attachments: 1. Proposed Concrete Removal Area

cc: Mahlek Hamden, Madison-Kipp Corporation (electronic)
Michael Beedle, U.S. EPA (electronic)
Luke Lampo, WDNR (electronic)

# Attachment 1

# Proposed Concrete Removal Area




## NOTES

1. SITE PLAN NOT TO SCALE.
2. SECTIONS 1 THROUGH 9 ARE 30 FEET BY 20 FEET.
3. SECTION 10 IS 12 FEET BY 100 FEET.
4. SECTION 11 IS 12 FEET BY 70 FEET.

2024 REVISIONS
SHOWN IN RED
DRAWN BY: B. WACHOOLZ
CHECKED BY: K. VATER
FEBRUARY 2024

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

TITLE:
**PROPOSED SECTIONS OF CONCRETE REPAIR**

| | | | |
|---|---|---|---|
| DRAWN BY: | R. SUEMNICHT | PROJ. NO.: | 419610 |
| CHECKED BY: | A. STEHN | | |
| APPROVED BY: | K. VATER | | **FIGURE 2** |
| DATE: | MARCH 2021 | | |

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FILE NO.: 419610-001.mxd

TRC - GIS
Coordinate System: NAD 1983 UTM Zone 15N (Meter)
Map Rotation: 0
Plot Date: 3/23/2021, 14:12:59 PM by RSUEMNICHT -- LAYOUT: ANSI B(11"x17")
Path: S:\1-PROJECTS\MadisonKIPPCorp\MadisonWI\419610\419610-001.mxd

# Appendix B: Pre-removal Waste Characterization Results

# Tables

**Table 1: Concrete Analytical Results - Area 2024-3 (Composite Samples)**
**Madison Kipp Corporation**
**Madison, Wisconsin**
**TRC Project # 581184**

| Sample Location ID | | | NR 720 Soil RCLs[1] | | | | 2024-3-COMP-1[2] | 2024-3-COMP-2[3] | 2024-3-COMP-3[4] | 2024-3-COMP-4[5] |
|---|---|---|---|---|---|---|---|---|---|---|
| Sample Date | | | Soil to Groundwater Pathway | Non-Industrial Direct Contact Pathway | Industrial Direct Contact Pathway | BTV | 2/28/2024 | 2/28/2024 | 2/28/2024 | 2/28/2024 |
| **Parameters** | **CAS RN** | **Units** | | | | | | | | |
| **Metals** | | | | | | | | | | |
| Arsenic | 7440-38-2 | mg/kg | 0.584 | 0.677 | 3 | 8.3 | 4.7 | 2.2 J | 2.6 | 2.5 J |
| Barium | 7440-39-3 | mg/kg | 164.8 | 15,300 | 100,000 | 364 | 43.6 | 39.8 | 49.5 | 46.2 |
| Cadmium | 7440-43-9 | mg/kg | 0.752 | 71.1 | 985 | 1.07 | <0.13 | <0.13 | 0.30 J | 0.26 J |
| Chromium | 7440-47-3 | mg/kg | 360,000 | - | - | 43.5 | 15.7 | 11.4 | 13.1 | 12.3 |
| Lead | 7439-92-1 | mg/kg | 27 | 400 | 800 | 51.6 | 4.5 | 2.8 | 3.9 | 3.4 |
| Mercury | 7439-97-6 | mg/kg | 0.208 | 3.13 | 3.13 | - | <0.010 | <0.0098 | <0.010 | <0.010 |
| Selenium | 7782-49-2 | mg/kg | 0.52 | 391 | 5,840 | - | <1.2 | <1.3 | <1.3 | <1.3 |
| Silver | 7440-22-4 | mg/kg | 0.849 | 391 | 5,840 | - | <0.29 | <0.30 | <0.31 | <0.31 |
| **PCBs** | | | | | | | | | | |
| PCB-1016 | 12674-11-2 | µg/kg | - | 4,110 | 28,000 | - | <15.6 | <15.6 | <15.6 | <15.5 |
| PCB-1221 | 11104-28-2 | µg/kg | - | 213 | 883 | - | <15.6 | <15.6 | <15.6 | <15.5 |
| PCB-1232 | 11141-16-5 | µg/kg | - | 190 | 792 | - | <15.6 | <15.6 | <15.6 | <15.5 |
| PCB-1242 | 53469-21-9 | µg/kg | - | 235 | 972 | - | <15.6 | <15.6 | <15.6 | <15.5 |
| PCB-1248 | 12672-29-6 | µg/kg | - | 236 | 975 | - | **574** | **664** | **850** | **861** |
| PCB-1254 | 11097-69-1 | µg/kg | - | 239 | 988 | - | <15.6 | <15.6 | <15.6 | <15.5 |
| PCB-1260 | 11096-82-5 | µg/kg | - | 243 | 1,000 | - | <15.6 | <15.6 | <15.6 | <15.5 |
| Total PCBs | 1336-36-3 | µg/kg | 9.38 | 234 | 967 | - | **574** | **664** | **850** | **861** |

**Notes:**

Prepared by: M. Wagler 4/5/2024
Checked by: M. Holicky 4/5/2024

RCL = Wisconsin Administrative Code Chapter NR 720 residual contaminant level
BTV = background threshold value
CAS RN = Chemical Abstract Service Registry Number
PCBs = polychlorinated biphenyls
mg/kg = milligrams per kilogram
µg/kg = micrograms per kilogram
- = standard not established
***Blue italics*** = detection equals or exceeds the NR 720 groundwater pathway RCL and BTV (if established)
**Orange bold** = detection equals or exceeds the non-industrial direct contact pathway RCL and BTV (if established)
**Red bold** = detection equals or exceeds the industrial direct contact pathway RCL and BTV (if established)

**Data Qualifiers**

J = Estimated concentration

**Footnotes:**

(1) NR 720 RCLs and BTVs from WDNR RCL spreadsheet (December 2018 update), in which RCLs were calculated using default exposure assumptions listed in NR 720.12(3).
(2) Composite sample 2024-COMP-1 consisted of individual samples identified as 2024-3-A, 2024-3-B, 2024-3-D, and 2024-3-E, PCB results for individual samples are summarized in Table 2.
(3) Composite sample 2024-COMP-2 consisted of individual samples identified as 2024-3-B, 2024-3-C, 2024-3-E, and 2024-3-F, PCB results for individual samples are summarized in Table 2.
(4) Composite sample 2024-COMP-3 consisted of individual samples identified as 2024-3-D, 2024-3-E, 2024-3-G, and 2024-3-H, PCB results for individual samples are summarized in Table 2.
(5) Composite sample 2024-COMP-4 consisted of individual samples identified as 2024-3-E, 2024-3-F, 2024-3-H, and 2024-3-I, PCB results for individual samples are summarized in Table 2.

**Table 2: Concrete Analytical Results - Area 2024-3 (Individual Samples)**
**Madison Kipp Corporation**
**Madison, Wisconsin**
**TRC Project # 581184**

| Sample Location ID | | | NR 720 Soil RCLs[1] | | | 2024-3-A | 2024-3-B | 2024-3-C | 2024-3-D | 2024-3-E | 2024-3-F | 2024-3-G | 2024-3-H | 2024-3-I |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Sample Date | | | | | | 2/28/2024 | 2/28/2024 | 2/28/2024 | 2/28/2024 | 2/28/2024 | 2/28/2024 | 2/28/2024 | 2/28/2024 | 2/28/2024 |
| Parameters | CAS RN | Units | Soil to Groundwater Pathway | Non-Industrial Direct Contact Pathway | Industrial Direct Contact Pathway | | | | | | | | | |
| **PCBs** | | | | | | | | | | | | | | |
| PCB-1016 | 12674-11-2 | µg/kg | - | 4,110 | 28,000 | <15.5 | <15.7 | <15.8 | <15.6 | <47.2 | <15.4 | <15.7 | <15.6 | <15.6 |
| PCB-1221 | 11104-28-2 | µg/kg | - | 213 | 883 | <15.5 | <15.7 | <15.8 | <15.6 | <47.2 | <15.4 | <15.7 | <15.6 | <15.6 |
| PCB-1232 | 11141-16-5 | µg/kg | - | 190 | 792 | <15.5 | <15.7 | <15.8 | <15.6 | <47.2 | <15.4 | <15.7 | <15.6 | <15.6 |
| PCB-1242 | 53469-21-9 | µg/kg | - | 235 | 972 | <15.5 | <15.7 | <15.8 | <15.6 | <47.2 | <15.4 | <15.7 | <15.6 | <15.6 |
| PCB-1248 | 12672-29-6 | µg/kg | - | 236 | 975 | 164 | 122 | 84.5 | 106 | **2170** | **616** | **238** | **650** | **974** |
| PCB-1254 | 11097-69-1 | µg/kg | - | 239 | 988 | 66.6 | <15.7 | 38.9 J | 48.3 J | <47.2 | <15.4 | 82.6 | <15.6 | <15.6 |
| PCB-1260 | 11096-82-5 | µg/kg | - | 243 | 1,000 | <15.5 | <15.7 | <15.8 | <15.6 | <47.2 | <15.4 | <15.7 | <15.6 | <15.6 |
| Total PCBs | 1336-36-3 | µg/kg | 9.38 | 234 | 967 | *231* | *122* | *123* | *155* | **2170** | **616** | **321** | **650** | **974** |
| | | | | | | | | | | | | | | |
| 95% Upper Confidence Limit[2] | - | mg/kg | - | - | - | 1.00 | | | | | | | | |

**Notes:**

Prepared by: A. Stehn 7/26/2024

Checked by: B. Wachholz 7/26/2024

RCL = Wisconsin Administrative Code Chapter NR 720 residual contaminant level

CAS RN = Chemical Abstract Service Registry Number

PCBs = polychlorinated biphenyls

µg/kg = micrograms per kilogram

- = standard not established

***Blue italics*** = detection equals or exceeds the NR 720 groundwater pathway RCL (if established)

**Orange bold** = detection equals or exceeds the non-industrial direct contact pathway RCL (if established)

**Red bold** = detection equals or exceeds the industrial direct contact pathway RCL (if established)

**Data Qualifiers**

J = Estimated concentration

**Footnotes:**

(1) NR 720 RCLs and BTVs from WDNR RCL spreadsheet (December 2018 update), in which RCLs were calculated using default exposure assumptions listed in NR 720.12(3).

(2) The 95 percent UCL calculates a mean (average) concentration for the entire data set, or in this case Area 2024-3 of concrete. The analytical results for the nine samples, calculate that the 95 percent UCL mean concentration for Area 2024-3 concrete is less than or equal to 1.00 mg/kg.

# 95% Upper Confidence Level Supporting Calculations

## UCL Statistics for Uncensored Full Data Sets

| | |
|---|---|
| User Selected Options | |
| Date/Time of Computation | ProUCL 5.2 4/29/2024 1:45:05 PM |
| From File | MKC ProUCL input.xls |
| Full Precision | OFF |
| Confidence Coefficient | 95% |
| Number of Bootstrap Operations | 2000 |

**total PCB**

**General Statistics**

| | | | |
|---|---|---|---|
| Total Number of Observations | 9 | Number of Distinct Observations | 9 |
| | | Number of Missing Observations | 0 |
| Minimum | 122 | Mean | 595.8 |
| Maximum | 2170 | Median | 321 |
| SD | 659.1 | Std. Error of Mean | 219.7 |
| Coefficient of Variation | 1.106 | Skewness | 2.014 |

**Note: Sample size is small (e.g., <10), if data are collected using incremental sampling methodology (ISM) approach,**
**refer also to ITRC Tech Reg Guide on ISM (ITRC 2020 and ITRC 2012) for additional guidance,**
**but note that ITRC may recommend the t-UCL or the Chebyshev UCL for small sample sizes (n < 7).**
**The Chebyshev UCL often results in gross overestimates of the mean.**
**Refer to the ProUCL 5.2 Technical Guide for a discussion of the Chebyshev UCL.**

**Normal GOF Test**

| | | |
|---|---|---|
| Shapiro Wilk Test Statistic | 0.752 | **Shapiro Wilk GOF Test** |
| 1% Shapiro Wilk Critical Value | 0.764 | Data Not Normal at 1% Significance Level |
| Lilliefors Test Statistic | 0.245 | **Lilliefors GOF Test** |
| 1% Lilliefors Critical Value | 0.316 | Data appear Normal at 1% Significance Level |

**Data appear Approximate Normal at 1% Significance Level**
**Note GOF tests may be unreliable for small sample sizes**

**Assuming Normal Distribution**

| **95% Normal UCL** | | **95% UCLs (Adjusted for Skewness)** | |
|---|---|---|---|
| 95% Student's-t UCL | 1004 | 95% Adjusted-CLT UCL (Chen-1995) | 1115 |
| | | 95% Modified-t UCL (Johnson-1978) | 1029 |

**Gamma GOF Test**

| | | |
|---|---|---|
| A-D Test Statistic | 0.403 | **Anderson-Darling Gamma GOF Test** |
| 5% A-D Critical Value | 0.739 | Detected data appear Gamma Distributed at 5% Significance Level |
| K-S Test Statistic | 0.174 | **Kolmogorov-Smirnov Gamma GOF Test** |
| 5% K-S Critical Value | 0.286 | Detected data appear Gamma Distributed at 5% Significance Level |

**Detected data appear Gamma Distributed at 5% Significance Level**
**Note GOF tests may be unreliable for small sample sizes**

## UCL Statistics for Uncensored Full Data Sets

**Gamma Statistics**

| | | | |
|---|---|---|---|
| k hat (MLE) | 1.218 | k star (bias corrected MLE) | 0.886 |
| Theta hat (MLE) | 488.9 | Theta star (bias corrected MLE) | 672.1 |
| nu hat (MLE) | 21.93 | nu star (bias corrected) | 15.96 |
| MLE Mean (bias corrected) | 595.8 | MLE Sd (bias corrected) | 632.8 |
| | | Approximate Chi Square Value (0.05) | 7.931 |
| Adjusted Level of Significance | 0.0231 | Adjusted Chi Square Value | 6.772 |

**Assuming Gamma Distribution**

| | | | |
|---|---|---|---|
| 95% Approximate Gamma UCL | 1199 | 95% Adjusted Gamma UCL | 1404 |

**Lognormal GOF Test**

| | | | |
|---|---|---|---|
| Shapiro Wilk Test Statistic | 0.93 | **Shapiro Wilk Lognormal GOF Test** | |
| 10% Shapiro Wilk Critical Value | 0.859 | Data appear Lognormal at 10% Significance Level | |
| Lilliefors Test Statistic | 0.143 | **Lilliefors Lognormal GOF Test** | |
| 10% Lilliefors Critical Value | 0.252 | Data appear Lognormal at 10% Significance Level | |

**Data appear Lognormal at 10% Significance Level**

**Note GOF tests may be unreliable for small sample sizes**

**Lognormal Statistics**

| | | | |
|---|---|---|---|
| Minimum of Logged Data | 4.804 | Mean of logged Data | 5.926 |
| Maximum of Logged Data | 7.682 | SD of logged Data | 1.005 |

**Assuming Lognormal Distribution**

| | | | |
|---|---|---|---|
| 95% H-UCL | 1973 | 90% Chebyshev (MVUE) UCL | 1177 |
| 95% Chebyshev (MVUE) UCL | 1449 | 97.5% Chebyshev (MVUE) UCL | 1827 |
| 99% Chebyshev (MVUE) UCL | 2568 | | |

**Nonparametric Distribution Free UCL Statistics**

**Data appear to follow a Discernible Distribution**

**Nonparametric Distribution Free UCLs**

| | | | |
|---|---|---|---|
| 95% CLT UCL | 957.2 | 95% BCA Bootstrap UCL | 1097 |
| 95% Standard Bootstrap UCL | 929.6 | 95% Bootstrap-t UCL | 1409 |
| 95% Hall's Bootstrap UCL | 2471 | 95% Percentile Bootstrap UCL | 954 |
| 90% Chebyshev(Mean, Sd) UCL | 1255 | 95% Chebyshev(Mean, Sd) UCL | 1553 |
| 97.5% Chebyshev(Mean, Sd) UCL | 1968 | 99% Chebyshev(Mean, Sd) UCL | 2782 |

Suggested UCL to Use

95% Student's-t UCL ~~1004~~ **[*1.00 mg/kg]**

**The calculated UCLs are based on assumptions that the data were collected in a random and unbiased manner.**

**Please verify the data were collected from random locations.**

**If the data were collected using judgmental or other non-random methods,**

**then contact a statistician to correctly calculate UCLs.**

When a data set follows an approximate distribution passing only one of the GOF tests,
it is suggested to use a UCL based upon a distribution passing both GOF tests in ProUCL

Note: Suggestions regarding the selection of a 95% UCL are provided to help the user to select the most appropriate 95% UCL.
Recommendations are based upon data size, data distribution, and skewness using results from simulation studies.
However, simulations results will not cover all Real World data sets; for additional insight the user may want to consult a statistician.



*95% Student's-t UCL calculations conducted in ug/kg with 3-significant digit input values per laboratory analytical report. Calculations were completed by TRC using ProUCL version 5.2, which reports more than 3-significant digits.

**Figure 1 – Area 2024-3 Concrete Repair**

Area 2024-2 = Approximately 15' x 20' area being used for storage

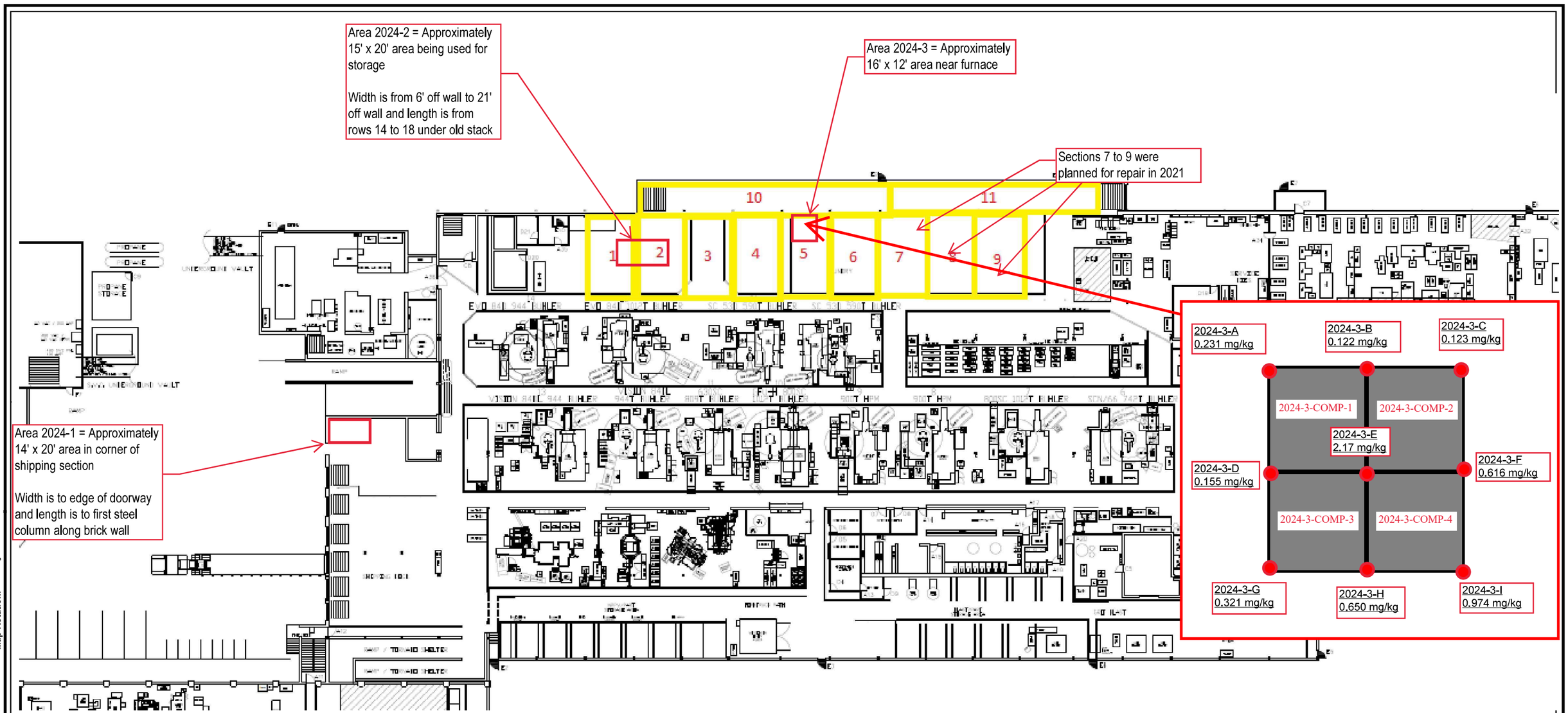
Width is from 6' off wall to 21' off wall and length is from rows 14 to 18 under old stack

Area 2024-3 = Approximately 16' x 12' area near furnace

Sections 7 to 9 were planned for repair in 2021

Area 2024-1 = Approximately 14' x 20' area in corner of shipping section

Width is to edge of doorway and length is to first steel column along brick wall







**TO WAUBESA ST.**

## NOTES

1. SITE PLAN NOT TO SCALE.
2. SECTIONS 1 THROUGH 9 ARE 30 FEET BY 20 FEET.
3. SECTION 10 IS 12 FEET BY 100 FEET.
4. SECTION 11 IS 12 FEET BY 70 FEET.

2024 Revisions
Shown in Red
Drawn By B.Wachholz
Checked By A.Stehn
July 2024

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

TITLE:
Area 2024-3 Concrete Repair

| | | | |
|---|---|---|---|
| DRAWN BY: | R. SUEMNICHT | PROJ. NO.: | 419610 |
| CHECKED BY: | A. STEHN | | |
| APPROVED BY: | K. VATER | | |
| DATE: | MARCH 2021 | | |

Figure 1


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


FILE NO.: 419610-001.mxd

Plot Date: 3/23/2021, 14:12:59 PM by RSUEMNICHT – LAYOUT: ANSI B(11"x17")
Path: S:\1-PROJECTS\MadisonKIPPCorp\Madison\MI\419610\419610-001.mxd
Coordinate System: NAD 1983 UTM Zone 15N (Meter)
Map Rotation: 0

TRC - GIS

# Appendix C: Laboratory Analytical Reports

**Pace Analytical Services, LLC**
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

March 11, 2024

Andrew Stehn
TRC Madison
708 Heartland Trail
Madison, WI 53717

RE: Project: 581184 PHASE 2 TASK 4 MKC CONC
Pace Project No.: 40274898

Dear Andrew Stehn:

Enclosed are the analytical results for sample(s) received by the laboratory on March 01, 2024. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Green Bay

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Tod Noltemeyer

Tod Noltemeyer
tod.noltemeyer@pacelabs.com
(920)469-2436
Project Manager

Enclosures

cc: Peggy Popp, TRC - Madison
Katherine Vater, TRC
Ben Wachholz, TRC Madison



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Green Bay, WI 54302
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## CERTIFICATIONS

Project: 581184 PHASE 2 TASK 4 MKC CONC
Pace Project No.: 40274898

**Pace Analytical Services Green Bay**
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
South Carolina Certification #: 83006001
Texas Certification #: T104704529-21-8
Virginia VELAP Certification ID: 11873
Wisconsin Certification #: 405132750
Wisconsin DATCP Certification #: 105-444
USDA Soil Permit #: P330-21-00008
Federal Fish & Wildlife Permit #: 51774A

## REPORT OF LABORATORY ANALYSIS

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Green Bay, WI 54302
(920)469-2436

## SAMPLE SUMMARY

Project: 581184 PHASE 2 TASK 4 MKC CONC
Pace Project No.: 40274898

| Lab ID | Sample ID | Matrix | Date Collected | Date Received |
|---|---|---|---|---|
| **40274898001** | **2024-1-COMP-1** | Solid | 02/28/24 16:25 | 03/01/24 09:35 |
| **40274898002** | **2024-1-COMP-2** | Solid | 02/28/24 16:33 | 03/01/24 09:35 |
| **40274898003** | **2024-1-COMP-3** | Solid | 02/28/24 16:40 | 03/01/24 09:35 |
| **40274898004** | **2024-1-COMP-4** | Solid | 02/28/24 16:45 | 03/01/24 09:35 |
| **40274898005** | **2024-2-COMP-1** | Solid | 02/28/24 10:49 | 03/01/24 09:35 |
| **40274898006** | **2024-2-COMP-2** | Solid | 02/28/24 11:25 | 03/01/24 09:35 |
| **40274898007** | **2024-2-COMP-3** | Solid | 02/28/24 11:55 | 03/01/24 09:35 |
| **40274898008** | **2024-2-COMP-4** | Solid | 02/28/24 15:35 | 03/01/24 09:35 |
| **40274898009** | **2024-3-COMP-1** | Solid | 02/28/24 15:47 | 03/01/24 09:35 |
| **40274898010** | **2024-3-COMP-2** | Solid | 02/28/24 15:59 | 03/01/24 09:35 |
| **40274898011** | **2024-3-COMP-3** | Solid | 02/28/24 16:07 | 03/01/24 09:35 |
| **40274898012** | **2024-3-COMP-4** | Solid | 02/28/24 16:15 | 03/01/24 09:35 |



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## SAMPLE ANALYTE COUNT

Project: 581184 PHASE 2 TASK 4 MKC CONC
Pace Project No.: 40274898

| Lab ID | Sample ID | Method | Analysts | Analytes Reported |
|---|---|---|---|---|
| **40274898001** | **2024-1-COMP-1** | EPA 8082A | BLM | 10 |
| | | EPA 6010D | SIS | 8 |
| | | EPA 7471 | RZA | 1 |
| | | ASTM D2974-87 | MJV | 1 |
| **40274898002** | **2024-1-COMP-2** | EPA 8082A | BLM | 10 |
| | | EPA 6010D | SIS | 8 |
| | | EPA 7471 | RZA | 1 |
| | | ASTM D2974-87 | MJV | 1 |
| **40274898003** | **2024-1-COMP-3** | EPA 8082A | BLM | 10 |
| | | EPA 6010D | SIS | 8 |
| | | EPA 7471 | RZA | 1 |
| | | ASTM D2974-87 | MJV | 1 |
| **40274898004** | **2024-1-COMP-4** | EPA 8082A | BLM | 10 |
| | | EPA 6010D | SIS | 8 |
| | | EPA 7471 | RZA | 1 |
| | | ASTM D2974-87 | MJV | 1 |
| **40274898005** | **2024-2-COMP-1** | EPA 8082A | BLM | 10 |
| | | EPA 6010D | SIS | 8 |
| | | EPA 7471 | RZA | 1 |
| | | ASTM D2974-87 | MJV | 1 |
| **40274898006** | **2024-2-COMP-2** | EPA 8082A | BLM | 10 |
| | | EPA 6010D | SIS | 8 |
| | | EPA 7471 | RZA | 1 |
| | | ASTM D2974-87 | MJV | 1 |
| **40274898007** | **2024-2-COMP-3** | EPA 8082A | BLM | 10 |
| | | EPA 6010D | SIS | 8 |
| | | EPA 7471 | RZA | 1 |
| | | ASTM D2974-87 | MJV | 1 |
| **40274898008** | **2024-2-COMP-4** | EPA 8082A | BLM | 10 |
| | | EPA 6010D | SIS | 8 |
| | | EPA 7471 | RZA | 1 |
| | | ASTM D2974-87 | MJV | 1 |
| **40274898009** | **2024-3-COMP-1** | EPA 8082A | BLM | 10 |
| | | EPA 6010D | SIS | 8 |
| | | EPA 7471 | RZA | 1 |
| | | ASTM D2974-87 | MJV | 1 |
| **40274898010** | **2024-3-COMP-2** | EPA 8082A | BLM | 10 |

## REPORT OF LABORATORY ANALYSIS

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Green Bay, WI 54302
(920)469-2436

## SAMPLE ANALYTE COUNT

Project: 581184 PHASE 2 TASK 4 MKC CONC
Pace Project No.: 40274898

| Lab ID | Sample ID | Method | Analysts | Analytes Reported |
|---|---|---|---|---|
| | | EPA 6010D | SIS | 8 |
| | | EPA 7471 | RZA | 1 |
| | | ASTM D2974-87 | MJV | 1 |
| **40274898011** | **2024-3-COMP-3** | EPA 8082A | BLM | 10 |
| | | EPA 6010D | SIS | 8 |
| | | EPA 7471 | RZA | 1 |
| | | ASTM D2974-87 | MJV | 1 |
| **40274898012** | **2024-3-COMP-4** | EPA 8082A | BLM | 10 |
| | | EPA 6010D | SIS | 8 |
| | | EPA 7471 | RZA | 1 |
| | | ASTM D2974-87 | MJV | 1 |

PASI-G = Pace Analytical Services - Green Bay

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Green Bay, WI 54302
(920)469-2436

## SUMMARY OF DETECTION

Project: 581184 PHASE 2 TASK 4 MKC CONC
Pace Project No.: 40274898

| Lab Sample ID / Method | Client Sample ID / Parameters | Result | Units | Report Limit | Analyzed | Qualifiers |
|---|---|---|---|---|---|---|
| **40274898001** | **2024-1-COMP-1** | | | | | |
| EPA 8082A | PCB, Total | 1740 | ug/kg | 103 | 03/06/24 06:57 | |
| EPA 8082A | PCB-1248 (Aroclor 1248) | 1740 | ug/kg | 103 | 03/06/24 06:57 | |
| EPA 6010D | Barium | 29.1 | mg/kg | 0.99 | 03/04/24 15:10 | |
| EPA 6010D | Chromium | 10.4 | mg/kg | 2.0 | 03/04/24 15:10 | |
| EPA 6010D | Lead | 5.7 | mg/kg | 4.0 | 03/04/24 15:10 | |
| EPA 6010D | Total Hardness by 2340B | 567000 | mg/kg | | 03/04/24 15:10 | |
| ASTM D2974-87 | Percent Moisture | 3.2 | % | 0.10 | 03/01/24 14:26 | |
| **40274898002** | **2024-1-COMP-2** | | | | | |
| EPA 8082A | PCB, Total | 4410 | ug/kg | 260 | 03/06/24 07:18 | |
| EPA 8082A | PCB-1248 (Aroclor 1248) | 4410 | ug/kg | 260 | 03/06/24 07:18 | |
| EPA 6010D | Arsenic | 2.4J | mg/kg | 2.5 | 03/04/24 14:46 | |
| EPA 6010D | Barium | 31.2 | mg/kg | 0.50 | 03/04/24 14:46 | |
| EPA 6010D | Chromium | 11.1 | mg/kg | 1.0 | 03/04/24 14:46 | |
| EPA 6010D | Lead | 3.5 | mg/kg | 2.0 | 03/04/24 14:46 | |
| EPA 6010D | Total Hardness by 2340B | 689000 | mg/kg | | 03/04/24 16:18 | |
| ASTM D2974-87 | Percent Moisture | 3.9 | % | 0.10 | 03/01/24 14:26 | |
| **40274898003** | **2024-1-COMP-3** | | | | | |
| EPA 8082A | PCB, Total | 4260 | ug/kg | 262 | 03/06/24 07:39 | |
| EPA 8082A | PCB-1248 (Aroclor 1248) | 4260 | ug/kg | 262 | 03/06/24 07:39 | |
| EPA 6010D | Arsenic | 3.2 | mg/kg | 2.5 | 03/04/24 14:48 | |
| EPA 6010D | Barium | 41.2 | mg/kg | 0.50 | 03/04/24 14:48 | |
| EPA 6010D | Chromium | 14.9 | mg/kg | 1.0 | 03/04/24 14:48 | |
| EPA 6010D | Lead | 3.5 | mg/kg | 2.0 | 03/04/24 14:48 | |
| EPA 6010D | Total Hardness by 2340B | 541000 | mg/kg | | 03/04/24 16:20 | |
| ASTM D2974-87 | Percent Moisture | 4.7 | % | 0.10 | 03/01/24 14:26 | |
| **40274898004** | **2024-1-COMP-4** | | | | | |
| EPA 8082A | PCB, Total | 5000 | ug/kg | 262 | 03/06/24 11:33 | |
| EPA 8082A | PCB-1248 (Aroclor 1248) | 5000 | ug/kg | 262 | 03/06/24 11:33 | |
| EPA 6010D | Arsenic | 2.7 | mg/kg | 2.6 | 03/04/24 14:50 | |
| EPA 6010D | Barium | 33.9 | mg/kg | 0.51 | 03/04/24 14:50 | |
| EPA 6010D | Chromium | 11.0 | mg/kg | 1.0 | 03/04/24 14:50 | |
| EPA 6010D | Lead | 2.0J | mg/kg | 2.0 | 03/04/24 14:50 | |
| EPA 6010D | Total Hardness by 2340B | 656000 | mg/kg | | 03/04/24 16:22 | |
| ASTM D2974-87 | Percent Moisture | 4.2 | % | 0.10 | 03/01/24 14:27 | |
| **40274898005** | **2024-2-COMP-1** | | | | | |
| EPA 8082A | PCB, Total | 16.8J | ug/kg | 50.9 | 03/06/24 11:54 | |
| EPA 8082A | PCB-1248 (Aroclor 1248) | 16.8J | ug/kg | 50.9 | 03/06/24 11:54 | |
| EPA 6010D | Arsenic | 3.4 | mg/kg | 2.4 | 03/04/24 14:52 | |
| EPA 6010D | Barium | 41.7 | mg/kg | 0.49 | 03/04/24 14:52 | |
| EPA 6010D | Cadmium | 0.27J | mg/kg | 0.49 | 03/04/24 14:52 | |
| EPA 6010D | Chromium | 14.0 | mg/kg | 0.97 | 03/04/24 14:52 | |
| EPA 6010D | Lead | 4.3 | mg/kg | 1.9 | 03/04/24 14:52 | |
| EPA 6010D | Total Hardness by 2340B | 624000 | mg/kg | | 03/04/24 16:23 | |
| ASTM D2974-87 | Percent Moisture | 1.9 | % | 0.10 | 03/01/24 14:27 | |

## REPORT OF LABORATORY ANALYSIS

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Green Bay, WI 54302
(920)469-2436

## SUMMARY OF DETECTION

Project: 581184 PHASE 2 TASK 4 MKC CONC
Pace Project No.: 40274898

| Lab Sample ID / Method | Client Sample ID / Parameters | Result | Units | Report Limit | Analyzed | Qualifiers |
|---|---|---|---|---|---|---|
| **40274898006** | **2024-2-COMP-2** | | | | | |
| EPA 8082A | PCB, Total | 17.7J | ug/kg | 51.2 | 03/06/24 08:43 | |
| EPA 8082A | PCB-1248 (Aroclor 1248) | 17.7J | ug/kg | 51.2 | 03/06/24 08:43 | |
| EPA 6010D | Arsenic | 3.4J | mg/kg | 4.9 | 03/04/24 15:14 | D3 |
| EPA 6010D | Barium | 93.9 | mg/kg | 0.99 | 03/04/24 15:14 | |
| EPA 6010D | Chromium | 21.0 | mg/kg | 2.0 | 03/04/24 15:14 | |
| EPA 6010D | Lead | 3.5J | mg/kg | 3.9 | 03/04/24 15:14 | D3 |
| EPA 6010D | Total Hardness by 2340B | 591000 | mg/kg | | 03/04/24 15:14 | |
| ASTM D2974-87 | Percent Moisture | 2.6 | % | 0.10 | 03/01/24 14:27 | |
| **40274898007** | **2024-2-COMP-3** | | | | | |
| EPA 8082A | PCB, Total | 31.9J | ug/kg | 50.7 | 03/06/24 09:04 | |
| EPA 8082A | PCB-1248 (Aroclor 1248) | 31.9J | ug/kg | 50.7 | 03/06/24 09:04 | |
| EPA 6010D | Arsenic | 3.3 | mg/kg | 2.3 | 03/04/24 14:55 | |
| EPA 6010D | Barium | 33.6 | mg/kg | 0.47 | 03/04/24 14:55 | |
| EPA 6010D | Cadmium | 0.21J | mg/kg | 0.47 | 03/04/24 14:55 | |
| EPA 6010D | Chromium | 10.3 | mg/kg | 0.93 | 03/04/24 14:55 | |
| EPA 6010D | Lead | 3.0 | mg/kg | 1.9 | 03/04/24 14:55 | |
| EPA 6010D | Total Hardness by 2340B | 722000 | mg/kg | | 03/04/24 16:25 | |
| ASTM D2974-87 | Percent Moisture | 1.1 | % | 0.10 | 03/01/24 14:27 | |
| **40274898008** | **2024-2-COMP-4** | | | | | |
| EPA 6010D | Arsenic | 3.0 | mg/kg | 2.5 | 03/04/24 14:57 | |
| EPA 6010D | Barium | 58.6 | mg/kg | 0.50 | 03/04/24 14:57 | |
| EPA 6010D | Cadmium | 0.16J | mg/kg | 0.50 | 03/04/24 14:57 | |
| EPA 6010D | Chromium | 12.1 | mg/kg | 1.0 | 03/04/24 14:57 | |
| EPA 6010D | Lead | 3.4 | mg/kg | 2.0 | 03/04/24 14:57 | |
| EPA 6010D | Total Hardness by 2340B | 674000 | mg/kg | | 03/04/24 16:27 | |
| ASTM D2974-87 | Percent Moisture | 1.8 | % | 0.10 | 03/01/24 14:27 | |
| **40274898009** | **2024-3-COMP-1** | | | | | |
| EPA 8082A | PCB, Total | 574 | ug/kg | 51.2 | 03/06/24 09:47 | |
| EPA 8082A | PCB-1248 (Aroclor 1248) | 574 | ug/kg | 51.2 | 03/06/24 09:47 | |
| EPA 6010D | Arsenic | 4.7 | mg/kg | 2.4 | 03/04/24 14:59 | |
| EPA 6010D | Barium | 43.6 | mg/kg | 0.48 | 03/04/24 14:59 | |
| EPA 6010D | Chromium | 15.7 | mg/kg | 0.95 | 03/04/24 14:59 | |
| EPA 6010D | Lead | 4.5 | mg/kg | 1.9 | 03/04/24 14:59 | |
| EPA 6010D | Total Hardness by 2340B | 567000 | mg/kg | | 03/04/24 16:29 | |
| ASTM D2974-87 | Percent Moisture | 2.6 | % | 0.10 | 03/01/24 14:27 | |
| **40274898010** | **2024-3-COMP-2** | | | | | |
| EPA 8082A | PCB, Total | 664 | ug/kg | 51.4 | 03/06/24 10:08 | |
| EPA 8082A | PCB-1248 (Aroclor 1248) | 664 | ug/kg | 51.4 | 03/06/24 10:08 | |
| EPA 6010D | Arsenic | 2.2J | mg/kg | 2.5 | 03/04/24 15:04 | |
| EPA 6010D | Barium | 39.8 | mg/kg | 0.50 | 03/04/24 15:04 | |
| EPA 6010D | Chromium | 11.4 | mg/kg | 0.99 | 03/04/24 15:04 | |
| EPA 6010D | Lead | 2.8 | mg/kg | 2.0 | 03/04/24 15:04 | |
| EPA 6010D | Total Hardness by 2340B | 578000 | mg/kg | | 03/04/24 16:31 | |
| ASTM D2974-87 | Percent Moisture | 2.6 | % | 0.10 | 03/01/24 14:27 | |

## REPORT OF LABORATORY ANALYSIS

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## SUMMARY OF DETECTION

Project: 581184 PHASE 2 TASK 4 MKC CONC
Pace Project No.: 40274898

| Lab Sample ID / Method | Client Sample ID / Parameters | Result | Units | Report Limit | Analyzed | Qualifiers |
|---|---|---|---|---|---|---|
| **40274898011** | **2024-3-COMP-3** | | | | | |
| EPA 8082A | PCB, Total | 850 | ug/kg | 51.2 | 03/06/24 10:29 | |
| EPA 8082A | PCB-1248 (Aroclor 1248) | 850 | ug/kg | 51.2 | 03/06/24 10:29 | |
| EPA 6010D | Arsenic | 2.6 | mg/kg | 2.5 | 03/04/24 15:06 | |
| EPA 6010D | Barium | 49.5 | mg/kg | 0.50 | 03/04/24 15:06 | |
| EPA 6010D | Cadmium | 0.30J | mg/kg | 0.50 | 03/04/24 15:06 | |
| EPA 6010D | Chromium | 13.1 | mg/kg | 1.0 | 03/04/24 15:06 | |
| EPA 6010D | Lead | 3.9 | mg/kg | 2.0 | 03/04/24 15:06 | |
| EPA 6010D | Total Hardness by 2340B | 634000 | mg/kg | | 03/04/24 16:33 | |
| ASTM D2974-87 | Percent Moisture | 2.5 | % | 0.10 | 03/01/24 14:27 | |
| **40274898012** | **2024-3-COMP-4** | | | | | |
| EPA 8082A | PCB, Total | 861 | ug/kg | 51.0 | 03/06/24 10:50 | |
| EPA 8082A | PCB-1248 (Aroclor 1248) | 861 | ug/kg | 51.0 | 03/06/24 10:50 | |
| EPA 6010D | Arsenic | 2.5J | mg/kg | 2.5 | 03/04/24 15:08 | |
| EPA 6010D | Barium | 46.2 | mg/kg | 0.50 | 03/04/24 15:08 | |
| EPA 6010D | Cadmium | 0.26J | mg/kg | 0.50 | 03/04/24 15:08 | |
| EPA 6010D | Chromium | 12.3 | mg/kg | 1.0 | 03/04/24 15:08 | |
| EPA 6010D | Lead | 3.4 | mg/kg | 2.0 | 03/04/24 15:08 | |
| EPA 6010D | Total Hardness by 2340B | 559000 | mg/kg | | 03/04/24 16:35 | |
| ASTM D2974-87 | Percent Moisture | 2.0 | % | 0.10 | 03/01/24 14:28 | |



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# PROJECT NARRATIVE

Project: 581184 PHASE 2 TASK 4 MKC CONC
Pace Project No.: 40274898

**Method:** **EPA 8082A**
**Description:** 8082A GCS PCB
**Client:** TRC - MADISON
**Date:** March 11, 2024

**General Information:**
12 samples were analyzed for EPA 8082A by Pace Analytical Services Green Bay. 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 3541 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.

**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:**



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# PROJECT NARRATIVE

Project: 581184 PHASE 2 TASK 4 MKC CONC
Pace Project No.: 40274898

**Method:** **EPA 6010D**
**Description:** 6010D MET ICP
**Client:** TRC - MADISON
**Date:** March 11, 2024

**General Information:**
12 samples were analyzed for EPA 6010D by Pace Analytical Services Green Bay. 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 3050B 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.

QC Batch: 468241

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 40274894001

M0: Matrix spike recovery and/or matrix spike duplicate recovery was outside laboratory control limits.

- MS (Lab ID: 2682643)
  - Barium
  - Chromium
- MSD (Lab ID: 2682644)
  - Barium

**Additional Comments:**

Analyte Comments:

QC Batch: 468241

D3: Sample was diluted due to the presence of high levels of non-target analytes or other matrix interference.

- 2024-1-COMP-1 (Lab ID: 40274898001)
  - Silver
  - Arsenic
  - Cadmium



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# PROJECT NARRATIVE

Project: 581184 PHASE 2 TASK 4 MKC CONC
Pace Project No.: 40274898

**Method:** **EPA 6010D**
**Description:** 6010D MET ICP
**Client:** TRC - MADISON
**Date:** March 11, 2024

Analyte Comments:

QC Batch: 468241

D3: Sample was diluted due to the presence of high levels of non-target analytes or other matrix interference.

- 2024-1-COMP-1 (Lab ID: 40274898001)
  - Selenium
- 2024-2-COMP-2 (Lab ID: 40274898006)
  - Silver
  - Arsenic
  - Cadmium
  - Lead
  - Selenium



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# PROJECT NARRATIVE

Project: 581184 PHASE 2 TASK 4 MKC CONC
Pace Project No.: 40274898

**Method:** **EPA 7471**
**Description:** 7471 Mercury
**Client:** TRC - MADISON
**Date:** March 11, 2024

**General Information:**
12 samples were analyzed for EPA 7471 by Pace Analytical Services Green Bay. 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 7471 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.



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# ANALYTICAL RESULTS

Project: 581184 PHASE 2 TASK 4 MKC CONC
Pace Project No.: 40274898

**Sample: 2024-1-COMP-1** **Lab ID: 40274898001** Collected: 02/28/24 16:25 Received: 03/01/24 09:35 Matrix: Solid

***Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.***

| Parameters | Results | Units | LOQ | LOD | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **8082A GCS PCB** | Analytical Method: EPA 8082A Preparation Method: EPA 3541<br>Pace Analytical Services - Green Bay | | | | | | | | |
| PCB, Total | **1740** | ug/kg | 103 | 31.4 | 2 | 03/05/24 12:00 | 03/06/24 06:57 | 1336-36-3 | |
| PCB-1016 (Aroclor 1016) | **<31.4** | ug/kg | 103 | 31.4 | 2 | 03/05/24 12:00 | 03/06/24 06:57 | 12674-11-2 | |
| PCB-1221 (Aroclor 1221) | **<31.4** | ug/kg | 103 | 31.4 | 2 | 03/05/24 12:00 | 03/06/24 06:57 | 11104-28-2 | |
| PCB-1232 (Aroclor 1232) | **<31.4** | ug/kg | 103 | 31.4 | 2 | 03/05/24 12:00 | 03/06/24 06:57 | 11141-16-5 | |
| PCB-1242 (Aroclor 1242) | **<31.4** | ug/kg | 103 | 31.4 | 2 | 03/05/24 12:00 | 03/06/24 06:57 | 53469-21-9 | |
| PCB-1248 (Aroclor 1248) | **1740** | ug/kg | 103 | 31.4 | 2 | 03/05/24 12:00 | 03/06/24 06:57 | 12672-29-6 | |
| PCB-1254 (Aroclor 1254) | **<31.4** | ug/kg | 103 | 31.4 | 2 | 03/05/24 12:00 | 03/06/24 06:57 | 11097-69-1 | |
| PCB-1260 (Aroclor 1260) | **<31.4** | ug/kg | 103 | 31.4 | 2 | 03/05/24 12:00 | 03/06/24 06:57 | 11096-82-5 | |
| ***Surrogates*** | | | | | | | | | |
| Tetrachloro-m-xylene (S) | 69 | % | 44-120 | | 2 | 03/05/24 12:00 | 03/06/24 06:57 | 877-09-8 | |
| Decachlorobiphenyl (S) | 61 | % | 34-120 | | 2 | 03/05/24 12:00 | 03/06/24 06:57 | 2051-24-3 | |
| **6010D MET ICP** | Analytical Method: EPA 6010D Preparation Method: EPA 3050B<br>Pace Analytical Services - Green Bay | | | | | | | | |
| Arsenic | **<2.9** | mg/kg | 5.0 | 2.9 | 2 | 03/04/24 06:14 | 03/04/24 15:10 | 7440-38-2 | D3 |
| Barium | **29.1** | mg/kg | 0.99 | 0.30 | 2 | 03/04/24 06:14 | 03/04/24 15:10 | 7440-39-3 | |
| Cadmium | **<0.26** | mg/kg | 0.99 | 0.26 | 2 | 03/04/24 06:14 | 03/04/24 15:10 | 7440-43-9 | D3 |
| Chromium | **10.4** | mg/kg | 2.0 | 0.55 | 2 | 03/04/24 06:14 | 03/04/24 15:10 | 7440-47-3 | |
| Lead | **5.7** | mg/kg | 4.0 | 1.2 | 2 | 03/04/24 06:14 | 03/04/24 15:10 | 7439-92-1 | |
| Selenium | **<2.6** | mg/kg | 7.9 | 2.6 | 2 | 03/04/24 06:14 | 03/04/24 15:10 | 7782-49-2 | D3 |
| Silver | **<0.61** | mg/kg | 2.0 | 0.61 | 2 | 03/04/24 06:14 | 03/04/24 15:10 | 7440-22-4 | D3 |
| Total Hardness by 2340B | **567000** | mg/kg | | | 2 | 03/04/24 06:14 | 03/04/24 15:10 | | |
| **7471 Mercury** | Analytical Method: EPA 7471 Preparation Method: EPA 7471<br>Pace Analytical Services - Green Bay | | | | | | | | |
| Mercury | **<0.010** | mg/kg | 0.036 | 0.010 | 1 | 03/08/24 11:05 | 03/11/24 10:17 | 7439-97-6 | |
| **Percent Moisture** | Analytical Method: ASTM D2974-87<br>Pace Analytical Services - Green Bay | | | | | | | | |
| Percent Moisture | **3.2** | % | 0.10 | 0.10 | 1 | | 03/01/24 14:26 | | |

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# ANALYTICAL RESULTS

Project: 581184 PHASE 2 TASK 4 MKC CONC
Pace Project No.: 40274898

**Sample: 2024-1-COMP-2** **Lab ID: 40274898002** Collected: 02/28/24 16:33 Received: 03/01/24 09:35 Matrix: Solid

***Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.***

| Parameters | Results | Units | LOQ | LOD | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **8082A GCS PCB** | Analytical Method: EPA 8082A Preparation Method: EPA 3541<br>Pace Analytical Services - Green Bay | | | | | | | | |
| PCB, Total | **4410** | ug/kg | 260 | 79.3 | 5 | 03/05/24 12:00 | 03/06/24 07:18 | 1336-36-3 | |
| PCB-1016 (Aroclor 1016) | **<79.3** | ug/kg | 260 | 79.3 | 5 | 03/05/24 12:00 | 03/06/24 07:18 | 12674-11-2 | |
| PCB-1221 (Aroclor 1221) | **<79.3** | ug/kg | 260 | 79.3 | 5 | 03/05/24 12:00 | 03/06/24 07:18 | 11104-28-2 | |
| PCB-1232 (Aroclor 1232) | **<79.3** | ug/kg | 260 | 79.3 | 5 | 03/05/24 12:00 | 03/06/24 07:18 | 11141-16-5 | |
| PCB-1242 (Aroclor 1242) | **<79.3** | ug/kg | 260 | 79.3 | 5 | 03/05/24 12:00 | 03/06/24 07:18 | 53469-21-9 | |
| PCB-1248 (Aroclor 1248) | **4410** | ug/kg | 260 | 79.3 | 5 | 03/05/24 12:00 | 03/06/24 07:18 | 12672-29-6 | |
| PCB-1254 (Aroclor 1254) | **<79.3** | ug/kg | 260 | 79.3 | 5 | 03/05/24 12:00 | 03/06/24 07:18 | 11097-69-1 | |
| PCB-1260 (Aroclor 1260) | **<79.3** | ug/kg | 260 | 79.3 | 5 | 03/05/24 12:00 | 03/06/24 07:18 | 11096-82-5 | |
| ***Surrogates*** | | | | | | | | | |
| Tetrachloro-m-xylene (S) | 73 | % | 44-120 | | 5 | 03/05/24 12:00 | 03/06/24 07:18 | 877-09-8 | |
| Decachlorobiphenyl (S) | 68 | % | 34-120 | | 5 | 03/05/24 12:00 | 03/06/24 07:18 | 2051-24-3 | |
| **6010D MET ICP** | Analytical Method: EPA 6010D Preparation Method: EPA 3050B<br>Pace Analytical Services - Green Bay | | | | | | | | |
| Arsenic | **2.4J** | mg/kg | 2.5 | 1.5 | 1 | 03/04/24 06:14 | 03/04/24 14:46 | 7440-38-2 | |
| Barium | **31.2** | mg/kg | 0.50 | 0.15 | 1 | 03/04/24 06:14 | 03/04/24 14:46 | 7440-39-3 | |
| Cadmium | **<0.13** | mg/kg | 0.50 | 0.13 | 1 | 03/04/24 06:14 | 03/04/24 14:46 | 7440-43-9 | |
| Chromium | **11.1** | mg/kg | 1.0 | 0.28 | 1 | 03/04/24 06:14 | 03/04/24 14:46 | 7440-47-3 | |
| Lead | **3.5** | mg/kg | 2.0 | 0.60 | 1 | 03/04/24 06:14 | 03/04/24 14:46 | 7439-92-1 | |
| Selenium | **<1.3** | mg/kg | 4.0 | 1.3 | 1 | 03/04/24 06:14 | 03/04/24 14:46 | 7782-49-2 | |
| Silver | **<0.31** | mg/kg | 1.0 | 0.31 | 1 | 03/04/24 06:14 | 03/04/24 14:46 | 7440-22-4 | |
| Total Hardness by 2340B | **689000** | mg/kg | | | 2 | 03/04/24 06:14 | 03/04/24 16:18 | | |
| **7471 Mercury** | Analytical Method: EPA 7471 Preparation Method: EPA 7471<br>Pace Analytical Services - Green Bay | | | | | | | | |
| Mercury | **<0.0093** | mg/kg | 0.033 | 0.0093 | 1 | 03/08/24 11:05 | 03/11/24 10:56 | 7439-97-6 | |
| **Percent Moisture** | Analytical Method: ASTM D2974-87<br>Pace Analytical Services - Green Bay | | | | | | | | |
| Percent Moisture | **3.9** | % | 0.10 | 0.10 | 1 | | 03/01/24 14:26 | | |

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# ANALYTICAL RESULTS

Project: 581184 PHASE 2 TASK 4 MKC CONC
Pace Project No.: 40274898

**Sample: 2024-1-COMP-3** **Lab ID: 40274898003** Collected: 02/28/24 16:40 Received: 03/01/24 09:35 Matrix: Solid

***Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.***

| Parameters | Results | Units | LOQ | LOD | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **8082A GCS PCB** | Analytical Method: EPA 8082A Preparation Method: EPA 3541<br>Pace Analytical Services - Green Bay | | | | | | | | |
| PCB, Total | **4260** | ug/kg | 262 | 79.8 | 5 | 03/05/24 12:00 | 03/06/24 07:39 | 1336-36-3 | |
| PCB-1016 (Aroclor 1016) | **<79.8** | ug/kg | 262 | 79.8 | 5 | 03/05/24 12:00 | 03/06/24 07:39 | 12674-11-2 | |
| PCB-1221 (Aroclor 1221) | **<79.8** | ug/kg | 262 | 79.8 | 5 | 03/05/24 12:00 | 03/06/24 07:39 | 11104-28-2 | |
| PCB-1232 (Aroclor 1232) | **<79.8** | ug/kg | 262 | 79.8 | 5 | 03/05/24 12:00 | 03/06/24 07:39 | 11141-16-5 | |
| PCB-1242 (Aroclor 1242) | **<79.8** | ug/kg | 262 | 79.8 | 5 | 03/05/24 12:00 | 03/06/24 07:39 | 53469-21-9 | |
| PCB-1248 (Aroclor 1248) | **4260** | ug/kg | 262 | 79.8 | 5 | 03/05/24 12:00 | 03/06/24 07:39 | 12672-29-6 | |
| PCB-1254 (Aroclor 1254) | **<79.8** | ug/kg | 262 | 79.8 | 5 | 03/05/24 12:00 | 03/06/24 07:39 | 11097-69-1 | |
| PCB-1260 (Aroclor 1260) | **<79.8** | ug/kg | 262 | 79.8 | 5 | 03/05/24 12:00 | 03/06/24 07:39 | 11096-82-5 | |
| ***Surrogates*** | | | | | | | | | |
| Tetrachloro-m-xylene (S) | 78 | % | 44-120 | | 5 | 03/05/24 12:00 | 03/06/24 07:39 | 877-09-8 | |
| Decachlorobiphenyl (S) | 70 | % | 34-120 | | 5 | 03/05/24 12:00 | 03/06/24 07:39 | 2051-24-3 | |
| **6010D MET ICP** | Analytical Method: EPA 6010D Preparation Method: EPA 3050B<br>Pace Analytical Services - Green Bay | | | | | | | | |
| Arsenic | **3.2** | mg/kg | 2.5 | 1.5 | 1 | 03/04/24 06:14 | 03/04/24 14:48 | 7440-38-2 | |
| Barium | **41.2** | mg/kg | 0.50 | 0.15 | 1 | 03/04/24 06:14 | 03/04/24 14:48 | 7440-39-3 | |
| Cadmium | **<0.13** | mg/kg | 0.50 | 0.13 | 1 | 03/04/24 06:14 | 03/04/24 14:48 | 7440-43-9 | |
| Chromium | **14.9** | mg/kg | 1.0 | 0.28 | 1 | 03/04/24 06:14 | 03/04/24 14:48 | 7440-47-3 | |
| Lead | **3.5** | mg/kg | 2.0 | 0.60 | 1 | 03/04/24 06:14 | 03/04/24 14:48 | 7439-92-1 | |
| Selenium | **<1.3** | mg/kg | 4.0 | 1.3 | 1 | 03/04/24 06:14 | 03/04/24 14:48 | 7782-49-2 | |
| Silver | **<0.31** | mg/kg | 1.0 | 0.31 | 1 | 03/04/24 06:14 | 03/04/24 14:48 | 7440-22-4 | |
| Total Hardness by 2340B | **541000** | mg/kg | | | 2 | 03/04/24 06:14 | 03/04/24 16:20 | | |
| **7471 Mercury** | Analytical Method: EPA 7471 Preparation Method: EPA 7471<br>Pace Analytical Services - Green Bay | | | | | | | | |
| Mercury | **<0.010** | mg/kg | 0.036 | 0.010 | 1 | 03/08/24 11:05 | 03/11/24 10:58 | 7439-97-6 | |
| **Percent Moisture** | Analytical Method: ASTM D2974-87<br>Pace Analytical Services - Green Bay | | | | | | | | |
| Percent Moisture | **4.7** | % | 0.10 | 0.10 | 1 | | 03/01/24 14:26 | | |

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## ANALYTICAL RESULTS

Project: 581184 PHASE 2 TASK 4 MKC CONC
Pace Project No.: 40274898

**Sample: 2024-1-COMP-4** **Lab ID: 40274898004** Collected: 02/28/24 16:45 Received: 03/01/24 09:35 Matrix: Solid

***Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.***

| Parameters | Results | Units | LOQ | LOD | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **8082A GCS PCB** | Analytical Method: EPA 8082A Preparation Method: EPA 3541<br>Pace Analytical Services - Green Bay | | | | | | | | |
| PCB, Total | **5000** | ug/kg | 262 | 79.6 | 5 | 03/05/24 12:00 | 03/06/24 11:33 | 1336-36-3 | |
| PCB-1016 (Aroclor 1016) | **<79.6** | ug/kg | 262 | 79.6 | 5 | 03/05/24 12:00 | 03/06/24 11:33 | 12674-11-2 | |
| PCB-1221 (Aroclor 1221) | **<79.6** | ug/kg | 262 | 79.6 | 5 | 03/05/24 12:00 | 03/06/24 11:33 | 11104-28-2 | |
| PCB-1232 (Aroclor 1232) | **<79.6** | ug/kg | 262 | 79.6 | 5 | 03/05/24 12:00 | 03/06/24 11:33 | 11141-16-5 | |
| PCB-1242 (Aroclor 1242) | **<79.6** | ug/kg | 262 | 79.6 | 5 | 03/05/24 12:00 | 03/06/24 11:33 | 53469-21-9 | |
| PCB-1248 (Aroclor 1248) | **5000** | ug/kg | 262 | 79.6 | 5 | 03/05/24 12:00 | 03/06/24 11:33 | 12672-29-6 | |
| PCB-1254 (Aroclor 1254) | **<79.6** | ug/kg | 262 | 79.6 | 5 | 03/05/24 12:00 | 03/06/24 11:33 | 11097-69-1 | |
| PCB-1260 (Aroclor 1260) | **<79.6** | ug/kg | 262 | 79.6 | 5 | 03/05/24 12:00 | 03/06/24 11:33 | 11096-82-5 | |
| ***Surrogates*** | | | | | | | | | |
| Tetrachloro-m-xylene (S) | 71 | % | 44-120 | | 5 | 03/05/24 12:00 | 03/06/24 11:33 | 877-09-8 | |
| Decachlorobiphenyl (S) | 63 | % | 34-120 | | 5 | 03/05/24 12:00 | 03/06/24 11:33 | 2051-24-3 | |
| **6010D MET ICP** | Analytical Method: EPA 6010D Preparation Method: EPA 3050B<br>Pace Analytical Services - Green Bay | | | | | | | | |
| Arsenic | **2.7** | mg/kg | 2.6 | 1.5 | 1 | 03/04/24 06:14 | 03/04/24 14:50 | 7440-38-2 | |
| Barium | **33.9** | mg/kg | 0.51 | 0.15 | 1 | 03/04/24 06:14 | 03/04/24 14:50 | 7440-39-3 | |
| Cadmium | **<0.14** | mg/kg | 0.51 | 0.14 | 1 | 03/04/24 06:14 | 03/04/24 14:50 | 7440-43-9 | |
| Chromium | **11.0** | mg/kg | 1.0 | 0.28 | 1 | 03/04/24 06:14 | 03/04/24 14:50 | 7440-47-3 | |
| Lead | **2.0J** | mg/kg | 2.0 | 0.61 | 1 | 03/04/24 06:14 | 03/04/24 14:50 | 7439-92-1 | |
| Selenium | **<1.3** | mg/kg | 4.1 | 1.3 | 1 | 03/04/24 06:14 | 03/04/24 14:50 | 7782-49-2 | |
| Silver | **<0.31** | mg/kg | 1.0 | 0.31 | 1 | 03/04/24 06:14 | 03/04/24 14:50 | 7440-22-4 | |
| Total Hardness by 2340B | **656000** | mg/kg | | | 2 | 03/04/24 06:14 | 03/04/24 16:22 | | |
| **7471 Mercury** | Analytical Method: EPA 7471 Preparation Method: EPA 7471<br>Pace Analytical Services - Green Bay | | | | | | | | |
| Mercury | **<0.0093** | mg/kg | 0.033 | 0.0093 | 1 | 03/08/24 11:05 | 03/11/24 11:00 | 7439-97-6 | |
| **Percent Moisture** | Analytical Method: ASTM D2974-87<br>Pace Analytical Services - Green Bay | | | | | | | | |
| Percent Moisture | **4.2** | % | 0.10 | 0.10 | 1 | | 03/01/24 14:27 | | |

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## ANALYTICAL RESULTS

Project: 581184 PHASE 2 TASK 4 MKC CONC
Pace Project No.: 40274898

**Sample: 2024-2-COMP-1** **Lab ID: 40274898005** Collected: 02/28/24 10:49 Received: 03/01/24 09:35 Matrix: Solid

***Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.***

| Parameters | Results | Units | LOQ | LOD | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **8082A GCS PCB** | Analytical Method: EPA 8082A Preparation Method: EPA 3541<br>Pace Analytical Services - Green Bay | | | | | | | | |
| PCB, Total | **16.8J** | ug/kg | 50.9 | 15.5 | 1 | 03/05/24 12:00 | 03/06/24 11:54 | 1336-36-3 | |
| PCB-1016 (Aroclor 1016) | **<15.5** | ug/kg | 50.9 | 15.5 | 1 | 03/05/24 12:00 | 03/06/24 11:54 | 12674-11-2 | |
| PCB-1221 (Aroclor 1221) | **<15.5** | ug/kg | 50.9 | 15.5 | 1 | 03/05/24 12:00 | 03/06/24 11:54 | 11104-28-2 | |
| PCB-1232 (Aroclor 1232) | **<15.5** | ug/kg | 50.9 | 15.5 | 1 | 03/05/24 12:00 | 03/06/24 11:54 | 11141-16-5 | |
| PCB-1242 (Aroclor 1242) | **<15.5** | ug/kg | 50.9 | 15.5 | 1 | 03/05/24 12:00 | 03/06/24 11:54 | 53469-21-9 | |
| PCB-1248 (Aroclor 1248) | **16.8J** | ug/kg | 50.9 | 15.5 | 1 | 03/05/24 12:00 | 03/06/24 11:54 | 12672-29-6 | |
| PCB-1254 (Aroclor 1254) | **<15.5** | ug/kg | 50.9 | 15.5 | 1 | 03/05/24 12:00 | 03/06/24 11:54 | 11097-69-1 | |
| PCB-1260 (Aroclor 1260) | **<15.5** | ug/kg | 50.9 | 15.5 | 1 | 03/05/24 12:00 | 03/06/24 11:54 | 11096-82-5 | |
| ***Surrogates*** | | | | | | | | | |
| Tetrachloro-m-xylene (S) | 77 | % | 44-120 | | 1 | 03/05/24 12:00 | 03/06/24 11:54 | 877-09-8 | |
| Decachlorobiphenyl (S) | 62 | % | 34-120 | | 1 | 03/05/24 12:00 | 03/06/24 11:54 | 2051-24-3 | |
| **6010D MET ICP** | Analytical Method: EPA 6010D Preparation Method: EPA 3050B<br>Pace Analytical Services - Green Bay | | | | | | | | |
| Arsenic | **3.4** | mg/kg | 2.4 | 1.4 | 1 | 03/04/24 06:14 | 03/04/24 14:52 | 7440-38-2 | |
| Barium | **41.7** | mg/kg | 0.49 | 0.15 | 1 | 03/04/24 06:14 | 03/04/24 14:52 | 7440-39-3 | |
| Cadmium | **0.27J** | mg/kg | 0.49 | 0.13 | 1 | 03/04/24 06:14 | 03/04/24 14:52 | 7440-43-9 | |
| Chromium | **14.0** | mg/kg | 0.97 | 0.27 | 1 | 03/04/24 06:14 | 03/04/24 14:52 | 7440-47-3 | |
| Lead | **4.3** | mg/kg | 1.9 | 0.58 | 1 | 03/04/24 06:14 | 03/04/24 14:52 | 7439-92-1 | |
| Selenium | **<1.3** | mg/kg | 3.9 | 1.3 | 1 | 03/04/24 06:14 | 03/04/24 14:52 | 7782-49-2 | |
| Silver | **<0.30** | mg/kg | 0.97 | 0.30 | 1 | 03/04/24 06:14 | 03/04/24 14:52 | 7440-22-4 | |
| Total Hardness by 2340B | **624000** | mg/kg | | | 2 | 03/04/24 06:14 | 03/04/24 16:23 | | |
| **7471 Mercury** | Analytical Method: EPA 7471 Preparation Method: EPA 7471<br>Pace Analytical Services - Green Bay | | | | | | | | |
| Mercury | **<0.0098** | mg/kg | 0.034 | 0.0098 | 1 | 03/08/24 11:05 | 03/11/24 11:07 | 7439-97-6 | |
| **Percent Moisture** | Analytical Method: ASTM D2974-87<br>Pace Analytical Services - Green Bay | | | | | | | | |
| Percent Moisture | **1.9** | % | 0.10 | 0.10 | 1 | | 03/01/24 14:27 | | |

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# ANALYTICAL RESULTS

Project: 581184 PHASE 2 TASK 4 MKC CONC
Pace Project No.: 40274898

**Sample: 2024-2-COMP-2** **Lab ID: 40274898006** Collected: 02/28/24 11:25 Received: 03/01/24 09:35 Matrix: Solid

***Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.***

| Parameters | Results | Units | LOQ | LOD | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **8082A GCS PCB** | Analytical Method: EPA 8082A Preparation Method: EPA 3541<br>Pace Analytical Services - Green Bay | | | | | | | | |
| PCB, Total | **17.7J** | ug/kg | 51.2 | 15.6 | 1 | 03/05/24 12:00 | 03/06/24 08:43 | 1336-36-3 | |
| PCB-1016 (Aroclor 1016) | **<15.6** | ug/kg | 51.2 | 15.6 | 1 | 03/05/24 12:00 | 03/06/24 08:43 | 12674-11-2 | |
| PCB-1221 (Aroclor 1221) | **<15.6** | ug/kg | 51.2 | 15.6 | 1 | 03/05/24 12:00 | 03/06/24 08:43 | 11104-28-2 | |
| PCB-1232 (Aroclor 1232) | **<15.6** | ug/kg | 51.2 | 15.6 | 1 | 03/05/24 12:00 | 03/06/24 08:43 | 11141-16-5 | |
| PCB-1242 (Aroclor 1242) | **<15.6** | ug/kg | 51.2 | 15.6 | 1 | 03/05/24 12:00 | 03/06/24 08:43 | 53469-21-9 | |
| PCB-1248 (Aroclor 1248) | **17.7J** | ug/kg | 51.2 | 15.6 | 1 | 03/05/24 12:00 | 03/06/24 08:43 | 12672-29-6 | |
| PCB-1254 (Aroclor 1254) | **<15.6** | ug/kg | 51.2 | 15.6 | 1 | 03/05/24 12:00 | 03/06/24 08:43 | 11097-69-1 | |
| PCB-1260 (Aroclor 1260) | **<15.6** | ug/kg | 51.2 | 15.6 | 1 | 03/05/24 12:00 | 03/06/24 08:43 | 11096-82-5 | |
| ***Surrogates*** | | | | | | | | | |
| Tetrachloro-m-xylene (S) | 81 | % | 44-120 | | 1 | 03/05/24 12:00 | 03/06/24 08:43 | 877-09-8 | |
| Decachlorobiphenyl (S) | 68 | % | 34-120 | | 1 | 03/05/24 12:00 | 03/06/24 08:43 | 2051-24-3 | |
| **6010D MET ICP** | Analytical Method: EPA 6010D Preparation Method: EPA 3050B<br>Pace Analytical Services - Green Bay | | | | | | | | |
| Arsenic | **3.4J** | mg/kg | 4.9 | 2.9 | 2 | 03/04/24 06:14 | 03/04/24 15:14 | 7440-38-2 | D3 |
| Barium | **93.9** | mg/kg | 0.99 | 0.30 | 2 | 03/04/24 06:14 | 03/04/24 15:14 | 7440-39-3 | |
| Cadmium | **<0.26** | mg/kg | 0.99 | 0.26 | 2 | 03/04/24 06:14 | 03/04/24 15:14 | 7440-43-9 | D3 |
| Chromium | **21.0** | mg/kg | 2.0 | 0.55 | 2 | 03/04/24 06:14 | 03/04/24 15:14 | 7440-47-3 | |
| Lead | **3.5J** | mg/kg | 3.9 | 1.2 | 2 | 03/04/24 06:14 | 03/04/24 15:14 | 7439-92-1 | D3 |
| Selenium | **<2.6** | mg/kg | 7.9 | 2.6 | 2 | 03/04/24 06:14 | 03/04/24 15:14 | 7782-49-2 | D3 |
| Silver | **<0.61** | mg/kg | 2.0 | 0.61 | 2 | 03/04/24 06:14 | 03/04/24 15:14 | 7440-22-4 | D3 |
| Total Hardness by 2340B | **591000** | mg/kg | | | 2 | 03/04/24 06:14 | 03/04/24 15:14 | | |
| **7471 Mercury** | Analytical Method: EPA 7471 Preparation Method: EPA 7471<br>Pace Analytical Services - Green Bay | | | | | | | | |
| Mercury | **<0.010** | mg/kg | 0.036 | 0.010 | 1 | 03/08/24 11:05 | 03/11/24 11:10 | 7439-97-6 | |
| **Percent Moisture** | Analytical Method: ASTM D2974-87<br>Pace Analytical Services - Green Bay | | | | | | | | |
| Percent Moisture | **2.6** | % | 0.10 | 0.10 | 1 | | 03/01/24 14:27 | | |

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# ANALYTICAL RESULTS

Project: 581184 PHASE 2 TASK 4 MKC CONC
Pace Project No.: 40274898

**Sample: 2024-2-COMP-3** **Lab ID: 40274898007** Collected: 02/28/24 11:55 Received: 03/01/24 09:35 Matrix: Solid

***Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.***

| Parameters | Results | Units | LOQ | LOD | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **8082A GCS PCB** | Analytical Method: EPA 8082A Preparation Method: EPA 3541<br>Pace Analytical Services - Green Bay | | | | | | | | |
| PCB, Total | **31.9J** | ug/kg | 50.7 | 15.4 | 1 | 03/05/24 12:00 | 03/06/24 09:04 | 1336-36-3 | |
| PCB-1016 (Aroclor 1016) | **<15.4** | ug/kg | 50.7 | 15.4 | 1 | 03/05/24 12:00 | 03/06/24 09:04 | 12674-11-2 | |
| PCB-1221 (Aroclor 1221) | **<15.4** | ug/kg | 50.7 | 15.4 | 1 | 03/05/24 12:00 | 03/06/24 09:04 | 11104-28-2 | |
| PCB-1232 (Aroclor 1232) | **<15.4** | ug/kg | 50.7 | 15.4 | 1 | 03/05/24 12:00 | 03/06/24 09:04 | 11141-16-5 | |
| PCB-1242 (Aroclor 1242) | **<15.4** | ug/kg | 50.7 | 15.4 | 1 | 03/05/24 12:00 | 03/06/24 09:04 | 53469-21-9 | |
| PCB-1248 (Aroclor 1248) | **31.9J** | ug/kg | 50.7 | 15.4 | 1 | 03/05/24 12:00 | 03/06/24 09:04 | 12672-29-6 | |
| PCB-1254 (Aroclor 1254) | **<15.4** | ug/kg | 50.7 | 15.4 | 1 | 03/05/24 12:00 | 03/06/24 09:04 | 11097-69-1 | |
| PCB-1260 (Aroclor 1260) | **<15.4** | ug/kg | 50.7 | 15.4 | 1 | 03/05/24 12:00 | 03/06/24 09:04 | 11096-82-5 | |
| ***Surrogates*** | | | | | | | | | |
| Tetrachloro-m-xylene (S) | 77 | % | 44-120 | | 1 | 03/05/24 12:00 | 03/06/24 09:04 | 877-09-8 | |
| Decachlorobiphenyl (S) | 65 | % | 34-120 | | 1 | 03/05/24 12:00 | 03/06/24 09:04 | 2051-24-3 | |
| **6010D MET ICP** | Analytical Method: EPA 6010D Preparation Method: EPA 3050B<br>Pace Analytical Services - Green Bay | | | | | | | | |
| Arsenic | **3.3** | mg/kg | 2.3 | 1.4 | 1 | 03/04/24 06:14 | 03/04/24 14:55 | 7440-38-2 | |
| Barium | **33.6** | mg/kg | 0.47 | 0.14 | 1 | 03/04/24 06:14 | 03/04/24 14:55 | 7440-39-3 | |
| Cadmium | **0.21J** | mg/kg | 0.47 | 0.12 | 1 | 03/04/24 06:14 | 03/04/24 14:55 | 7440-43-9 | |
| Chromium | **10.3** | mg/kg | 0.93 | 0.26 | 1 | 03/04/24 06:14 | 03/04/24 14:55 | 7440-47-3 | |
| Lead | **3.0** | mg/kg | 1.9 | 0.56 | 1 | 03/04/24 06:14 | 03/04/24 14:55 | 7439-92-1 | |
| Selenium | **<1.2** | mg/kg | 3.7 | 1.2 | 1 | 03/04/24 06:14 | 03/04/24 14:55 | 7782-49-2 | |
| Silver | **<0.29** | mg/kg | 0.93 | 0.29 | 1 | 03/04/24 06:14 | 03/04/24 14:55 | 7440-22-4 | |
| Total Hardness by 2340B | **722000** | mg/kg | | | 2 | 03/04/24 06:14 | 03/04/24 16:25 | | |
| **7471 Mercury** | Analytical Method: EPA 7471 Preparation Method: EPA 7471<br>Pace Analytical Services - Green Bay | | | | | | | | |
| Mercury | **<0.0095** | mg/kg | 0.033 | 0.0095 | 1 | 03/08/24 11:05 | 03/11/24 11:12 | 7439-97-6 | |
| **Percent Moisture** | Analytical Method: ASTM D2974-87<br>Pace Analytical Services - Green Bay | | | | | | | | |
| Percent Moisture | **1.1** | % | 0.10 | 0.10 | 1 | | 03/01/24 14:27 | | |

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# ANALYTICAL RESULTS

Project: 581184 PHASE 2 TASK 4 MKC CONC
Pace Project No.: 40274898

**Sample: 2024-2-COMP-4** **Lab ID: 40274898008** Collected: 02/28/24 15:35 Received: 03/01/24 09:35 Matrix: Solid

***Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.***

| Parameters | Results | Units | LOQ | LOD | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **8082A GCS PCB** | Analytical Method: EPA 8082A Preparation Method: EPA 3541<br>Pace Analytical Services - Green Bay | | | | | | | | |
| PCB, Total | **<15.5** | ug/kg | 50.9 | 15.5 | 1 | 03/05/24 12:00 | 03/06/24 09:25 | 1336-36-3 | |
| PCB-1016 (Aroclor 1016) | **<15.5** | ug/kg | 50.9 | 15.5 | 1 | 03/05/24 12:00 | 03/06/24 09:25 | 12674-11-2 | |
| PCB-1221 (Aroclor 1221) | **<15.5** | ug/kg | 50.9 | 15.5 | 1 | 03/05/24 12:00 | 03/06/24 09:25 | 11104-28-2 | |
| PCB-1232 (Aroclor 1232) | **<15.5** | ug/kg | 50.9 | 15.5 | 1 | 03/05/24 12:00 | 03/06/24 09:25 | 11141-16-5 | |
| PCB-1242 (Aroclor 1242) | **<15.5** | ug/kg | 50.9 | 15.5 | 1 | 03/05/24 12:00 | 03/06/24 09:25 | 53469-21-9 | |
| PCB-1248 (Aroclor 1248) | **<15.5** | ug/kg | 50.9 | 15.5 | 1 | 03/05/24 12:00 | 03/06/24 09:25 | 12672-29-6 | |
| PCB-1254 (Aroclor 1254) | **<15.5** | ug/kg | 50.9 | 15.5 | 1 | 03/05/24 12:00 | 03/06/24 09:25 | 11097-69-1 | |
| PCB-1260 (Aroclor 1260) | **<15.5** | ug/kg | 50.9 | 15.5 | 1 | 03/05/24 12:00 | 03/06/24 09:25 | 11096-82-5 | |
| ***Surrogates*** | | | | | | | | | |
| Tetrachloro-m-xylene (S) | 79 | % | 44-120 | | 1 | 03/05/24 12:00 | 03/06/24 09:25 | 877-09-8 | |
| Decachlorobiphenyl (S) | 66 | % | 34-120 | | 1 | 03/05/24 12:00 | 03/06/24 09:25 | 2051-24-3 | |
| **6010D MET ICP** | Analytical Method: EPA 6010D Preparation Method: EPA 3050B<br>Pace Analytical Services - Green Bay | | | | | | | | |
| Arsenic | **3.0** | mg/kg | 2.5 | 1.5 | 1 | 03/04/24 06:14 | 03/04/24 14:57 | 7440-38-2 | |
| Barium | **58.6** | mg/kg | 0.50 | 0.15 | 1 | 03/04/24 06:14 | 03/04/24 14:57 | 7440-39-3 | |
| Cadmium | **0.16J** | mg/kg | 0.50 | 0.13 | 1 | 03/04/24 06:14 | 03/04/24 14:57 | 7440-43-9 | |
| Chromium | **12.1** | mg/kg | 1.0 | 0.28 | 1 | 03/04/24 06:14 | 03/04/24 14:57 | 7440-47-3 | |
| Lead | **3.4** | mg/kg | 2.0 | 0.60 | 1 | 03/04/24 06:14 | 03/04/24 14:57 | 7439-92-1 | |
| Selenium | **<1.3** | mg/kg | 4.0 | 1.3 | 1 | 03/04/24 06:14 | 03/04/24 14:57 | 7782-49-2 | |
| Silver | **<0.31** | mg/kg | 1.0 | 0.31 | 1 | 03/04/24 06:14 | 03/04/24 14:57 | 7440-22-4 | |
| Total Hardness by 2340B | **674000** | mg/kg | | | 2 | 03/04/24 06:14 | 03/04/24 16:27 | | |
| **7471 Mercury** | Analytical Method: EPA 7471 Preparation Method: EPA 7471<br>Pace Analytical Services - Green Bay | | | | | | | | |
| Mercury | **<0.0099** | mg/kg | 0.035 | 0.0099 | 1 | 03/08/24 11:05 | 03/11/24 11:14 | 7439-97-6 | |
| **Percent Moisture** | Analytical Method: ASTM D2974-87<br>Pace Analytical Services - Green Bay | | | | | | | | |
| Percent Moisture | **1.8** | % | 0.10 | 0.10 | 1 | | 03/01/24 14:27 | | |

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# ANALYTICAL RESULTS

Project: 581184 PHASE 2 TASK 4 MKC CONC
Pace Project No.: 40274898

**Sample: 2024-3-COMP-1** **Lab ID: 40274898009** Collected: 02/28/24 15:47 Received: 03/01/24 09:35 Matrix: Solid

***Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.***

| Parameters | Results | Units | LOQ | LOD | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **8082A GCS PCB** | Analytical Method: EPA 8082A Preparation Method: EPA 3541<br>Pace Analytical Services - Green Bay | | | | | | | | |
| PCB, Total | **574** | ug/kg | 51.2 | 15.6 | 1 | 03/05/24 12:00 | 03/06/24 09:47 | 1336-36-3 | |
| PCB-1016 (Aroclor 1016) | **<15.6** | ug/kg | 51.2 | 15.6 | 1 | 03/05/24 12:00 | 03/06/24 09:47 | 12674-11-2 | |
| PCB-1221 (Aroclor 1221) | **<15.6** | ug/kg | 51.2 | 15.6 | 1 | 03/05/24 12:00 | 03/06/24 09:47 | 11104-28-2 | |
| PCB-1232 (Aroclor 1232) | **<15.6** | ug/kg | 51.2 | 15.6 | 1 | 03/05/24 12:00 | 03/06/24 09:47 | 11141-16-5 | |
| PCB-1242 (Aroclor 1242) | **<15.6** | ug/kg | 51.2 | 15.6 | 1 | 03/05/24 12:00 | 03/06/24 09:47 | 53469-21-9 | |
| PCB-1248 (Aroclor 1248) | **574** | ug/kg | 51.2 | 15.6 | 1 | 03/05/24 12:00 | 03/06/24 09:47 | 12672-29-6 | |
| PCB-1254 (Aroclor 1254) | **<15.6** | ug/kg | 51.2 | 15.6 | 1 | 03/05/24 12:00 | 03/06/24 09:47 | 11097-69-1 | |
| PCB-1260 (Aroclor 1260) | **<15.6** | ug/kg | 51.2 | 15.6 | 1 | 03/05/24 12:00 | 03/06/24 09:47 | 11096-82-5 | |
| ***Surrogates*** | | | | | | | | | |
| Tetrachloro-m-xylene (S) | 77 | % | 44-120 | | 1 | 03/05/24 12:00 | 03/06/24 09:47 | 877-09-8 | |
| Decachlorobiphenyl (S) | 64 | % | 34-120 | | 1 | 03/05/24 12:00 | 03/06/24 09:47 | 2051-24-3 | |
| **6010D MET ICP** | Analytical Method: EPA 6010D Preparation Method: EPA 3050B<br>Pace Analytical Services - Green Bay | | | | | | | | |
| Arsenic | **4.7** | mg/kg | 2.4 | 1.4 | 1 | 03/04/24 06:14 | 03/04/24 14:59 | 7440-38-2 | |
| Barium | **43.6** | mg/kg | 0.48 | 0.14 | 1 | 03/04/24 06:14 | 03/04/24 14:59 | 7440-39-3 | |
| Cadmium | **<0.13** | mg/kg | 0.48 | 0.13 | 1 | 03/04/24 06:14 | 03/04/24 14:59 | 7440-43-9 | |
| Chromium | **15.7** | mg/kg | 0.95 | 0.26 | 1 | 03/04/24 06:14 | 03/04/24 14:59 | 7440-47-3 | |
| Lead | **4.5** | mg/kg | 1.9 | 0.57 | 1 | 03/04/24 06:14 | 03/04/24 14:59 | 7439-92-1 | |
| Selenium | **<1.2** | mg/kg | 3.8 | 1.2 | 1 | 03/04/24 06:14 | 03/04/24 14:59 | 7782-49-2 | |
| Silver | **<0.29** | mg/kg | 0.95 | 0.29 | 1 | 03/04/24 06:14 | 03/04/24 14:59 | 7440-22-4 | |
| Total Hardness by 2340B | **567000** | mg/kg | | | 2 | 03/04/24 06:14 | 03/04/24 16:29 | | |
| **7471 Mercury** | Analytical Method: EPA 7471 Preparation Method: EPA 7471<br>Pace Analytical Services - Green Bay | | | | | | | | |
| Mercury | **<0.010** | mg/kg | 0.036 | 0.010 | 1 | 03/08/24 11:05 | 03/11/24 11:17 | 7439-97-6 | |
| **Percent Moisture** | Analytical Method: ASTM D2974-87<br>Pace Analytical Services - Green Bay | | | | | | | | |
| Percent Moisture | **2.6** | % | 0.10 | 0.10 | 1 | | 03/01/24 14:27 | | |

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## ANALYTICAL RESULTS

Project: 581184 PHASE 2 TASK 4 MKC CONC
Pace Project No.: 40274898

**Sample: 2024-3-COMP-2** **Lab ID: 40274898010** Collected: 02/28/24 15:59 Received: 03/01/24 09:35 Matrix: Solid

***Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.***

| Parameters | Results | Units | LOQ | LOD | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **8082A GCS PCB** | Analytical Method: EPA 8082A Preparation Method: EPA 3541<br>Pace Analytical Services - Green Bay | | | | | | | | |
| PCB, Total | **664** | ug/kg | 51.4 | 15.6 | 1 | 03/05/24 12:00 | 03/06/24 10:08 | 1336-36-3 | |
| PCB-1016 (Aroclor 1016) | **<15.6** | ug/kg | 51.4 | 15.6 | 1 | 03/05/24 12:00 | 03/06/24 10:08 | 12674-11-2 | |
| PCB-1221 (Aroclor 1221) | **<15.6** | ug/kg | 51.4 | 15.6 | 1 | 03/05/24 12:00 | 03/06/24 10:08 | 11104-28-2 | |
| PCB-1232 (Aroclor 1232) | **<15.6** | ug/kg | 51.4 | 15.6 | 1 | 03/05/24 12:00 | 03/06/24 10:08 | 11141-16-5 | |
| PCB-1242 (Aroclor 1242) | **<15.6** | ug/kg | 51.4 | 15.6 | 1 | 03/05/24 12:00 | 03/06/24 10:08 | 53469-21-9 | |
| PCB-1248 (Aroclor 1248) | **664** | ug/kg | 51.4 | 15.6 | 1 | 03/05/24 12:00 | 03/06/24 10:08 | 12672-29-6 | |
| PCB-1254 (Aroclor 1254) | **<15.6** | ug/kg | 51.4 | 15.6 | 1 | 03/05/24 12:00 | 03/06/24 10:08 | 11097-69-1 | |
| PCB-1260 (Aroclor 1260) | **<15.6** | ug/kg | 51.4 | 15.6 | 1 | 03/05/24 12:00 | 03/06/24 10:08 | 11096-82-5 | |
| ***Surrogates*** | | | | | | | | | |
| Tetrachloro-m-xylene (S) | 69 | % | 44-120 | | 1 | 03/05/24 12:00 | 03/06/24 10:08 | 877-09-8 | |
| Decachlorobiphenyl (S) | 57 | % | 34-120 | | 1 | 03/05/24 12:00 | 03/06/24 10:08 | 2051-24-3 | |
| **6010D MET ICP** | Analytical Method: EPA 6010D Preparation Method: EPA 3050B<br>Pace Analytical Services - Green Bay | | | | | | | | |
| Arsenic | **2.2J** | mg/kg | 2.5 | 1.5 | 1 | 03/04/24 06:14 | 03/04/24 15:04 | 7440-38-2 | |
| Barium | **39.8** | mg/kg | 0.50 | 0.15 | 1 | 03/04/24 06:14 | 03/04/24 15:04 | 7440-39-3 | |
| Cadmium | **<0.13** | mg/kg | 0.50 | 0.13 | 1 | 03/04/24 06:14 | 03/04/24 15:04 | 7440-43-9 | |
| Chromium | **11.4** | mg/kg | 0.99 | 0.28 | 1 | 03/04/24 06:14 | 03/04/24 15:04 | 7440-47-3 | |
| Lead | **2.8** | mg/kg | 2.0 | 0.59 | 1 | 03/04/24 06:14 | 03/04/24 15:04 | 7439-92-1 | |
| Selenium | **<1.3** | mg/kg | 4.0 | 1.3 | 1 | 03/04/24 06:14 | 03/04/24 15:04 | 7782-49-2 | |
| Silver | **<0.30** | mg/kg | 0.99 | 0.30 | 1 | 03/04/24 06:14 | 03/04/24 15:04 | 7440-22-4 | |
| Total Hardness by 2340B | **578000** | mg/kg | | | 2 | 03/04/24 06:14 | 03/04/24 16:31 | | |
| **7471 Mercury** | Analytical Method: EPA 7471 Preparation Method: EPA 7471<br>Pace Analytical Services - Green Bay | | | | | | | | |
| Mercury | **<0.0098** | mg/kg | 0.034 | 0.0098 | 1 | 03/08/24 11:05 | 03/11/24 11:19 | 7439-97-6 | |
| **Percent Moisture** | Analytical Method: ASTM D2974-87<br>Pace Analytical Services - Green Bay | | | | | | | | |
| Percent Moisture | **2.6** | % | 0.10 | 0.10 | 1 | | 03/01/24 14:27 | | |

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## ANALYTICAL RESULTS

Project: 581184 PHASE 2 TASK 4 MKC CONC
Pace Project No.: 40274898

**Sample: 2024-3-COMP-3** **Lab ID: 40274898011** Collected: 02/28/24 16:07 Received: 03/01/24 09:35 Matrix: Solid

***Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.***

| Parameters | Results | Units | LOQ | LOD | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **8082A GCS PCB** | Analytical Method: EPA 8082A Preparation Method: EPA 3541<br>Pace Analytical Services - Green Bay | | | | | | | | |
| PCB, Total | **850** | ug/kg | 51.2 | 15.6 | 1 | 03/05/24 12:00 | 03/06/24 10:29 | 1336-36-3 | |
| PCB-1016 (Aroclor 1016) | **<15.6** | ug/kg | 51.2 | 15.6 | 1 | 03/05/24 12:00 | 03/06/24 10:29 | 12674-11-2 | |
| PCB-1221 (Aroclor 1221) | **<15.6** | ug/kg | 51.2 | 15.6 | 1 | 03/05/24 12:00 | 03/06/24 10:29 | 11104-28-2 | |
| PCB-1232 (Aroclor 1232) | **<15.6** | ug/kg | 51.2 | 15.6 | 1 | 03/05/24 12:00 | 03/06/24 10:29 | 11141-16-5 | |
| PCB-1242 (Aroclor 1242) | **<15.6** | ug/kg | 51.2 | 15.6 | 1 | 03/05/24 12:00 | 03/06/24 10:29 | 53469-21-9 | |
| PCB-1248 (Aroclor 1248) | **850** | ug/kg | 51.2 | 15.6 | 1 | 03/05/24 12:00 | 03/06/24 10:29 | 12672-29-6 | |
| PCB-1254 (Aroclor 1254) | **<15.6** | ug/kg | 51.2 | 15.6 | 1 | 03/05/24 12:00 | 03/06/24 10:29 | 11097-69-1 | |
| PCB-1260 (Aroclor 1260) | **<15.6** | ug/kg | 51.2 | 15.6 | 1 | 03/05/24 12:00 | 03/06/24 10:29 | 11096-82-5 | |
| ***Surrogates*** | | | | | | | | | |
| Tetrachloro-m-xylene (S) | 84 | % | 44-120 | | 1 | 03/05/24 12:00 | 03/06/24 10:29 | 877-09-8 | |
| Decachlorobiphenyl (S) | 68 | % | 34-120 | | 1 | 03/05/24 12:00 | 03/06/24 10:29 | 2051-24-3 | |
| **6010D MET ICP** | Analytical Method: EPA 6010D Preparation Method: EPA 3050B<br>Pace Analytical Services - Green Bay | | | | | | | | |
| Arsenic | **2.6** | mg/kg | 2.5 | 1.5 | 1 | 03/04/24 06:14 | 03/04/24 15:06 | 7440-38-2 | |
| Barium | **49.5** | mg/kg | 0.50 | 0.15 | 1 | 03/04/24 06:14 | 03/04/24 15:06 | 7440-39-3 | |
| Cadmium | **0.30J** | mg/kg | 0.50 | 0.13 | 1 | 03/04/24 06:14 | 03/04/24 15:06 | 7440-43-9 | |
| Chromium | **13.1** | mg/kg | 1.0 | 0.28 | 1 | 03/04/24 06:14 | 03/04/24 15:06 | 7440-47-3 | |
| Lead | **3.9** | mg/kg | 2.0 | 0.60 | 1 | 03/04/24 06:14 | 03/04/24 15:06 | 7439-92-1 | |
| Selenium | **<1.3** | mg/kg | 4.0 | 1.3 | 1 | 03/04/24 06:14 | 03/04/24 15:06 | 7782-49-2 | |
| Silver | **<0.31** | mg/kg | 1.0 | 0.31 | 1 | 03/04/24 06:14 | 03/04/24 15:06 | 7440-22-4 | |
| Total Hardness by 2340B | **634000** | mg/kg | | | 2 | 03/04/24 06:14 | 03/04/24 16:33 | | |
| **7471 Mercury** | Analytical Method: EPA 7471 Preparation Method: EPA 7471<br>Pace Analytical Services - Green Bay | | | | | | | | |
| Mercury | **<0.010** | mg/kg | 0.036 | 0.010 | 1 | 03/08/24 11:05 | 03/11/24 11:21 | 7439-97-6 | |
| **Percent Moisture** | Analytical Method: ASTM D2974-87<br>Pace Analytical Services - Green Bay | | | | | | | | |
| Percent Moisture | **2.5** | % | 0.10 | 0.10 | 1 | | 03/01/24 14:27 | | |

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# ANALYTICAL RESULTS

Project: 581184 PHASE 2 TASK 4 MKC CONC
Pace Project No.: 40274898

**Sample: 2024-3-COMP-4** **Lab ID: 40274898012** Collected: 02/28/24 16:15 Received: 03/01/24 09:35 Matrix: Solid

***Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.***

| Parameters | Results | Units | LOQ | LOD | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **8082A GCS PCB** | Analytical Method: EPA 8082A Preparation Method: EPA 3541<br>Pace Analytical Services - Green Bay | | | | | | | | |
| PCB, Total | **861** | ug/kg | 51.0 | 15.5 | 1 | 03/05/24 12:00 | 03/06/24 10:50 | 1336-36-3 | |
| PCB-1016 (Aroclor 1016) | **<15.5** | ug/kg | 51.0 | 15.5 | 1 | 03/05/24 12:00 | 03/06/24 10:50 | 12674-11-2 | |
| PCB-1221 (Aroclor 1221) | **<15.5** | ug/kg | 51.0 | 15.5 | 1 | 03/05/24 12:00 | 03/06/24 10:50 | 11104-28-2 | |
| PCB-1232 (Aroclor 1232) | **<15.5** | ug/kg | 51.0 | 15.5 | 1 | 03/05/24 12:00 | 03/06/24 10:50 | 11141-16-5 | |
| PCB-1242 (Aroclor 1242) | **<15.5** | ug/kg | 51.0 | 15.5 | 1 | 03/05/24 12:00 | 03/06/24 10:50 | 53469-21-9 | |
| PCB-1248 (Aroclor 1248) | **861** | ug/kg | 51.0 | 15.5 | 1 | 03/05/24 12:00 | 03/06/24 10:50 | 12672-29-6 | |
| PCB-1254 (Aroclor 1254) | **<15.5** | ug/kg | 51.0 | 15.5 | 1 | 03/05/24 12:00 | 03/06/24 10:50 | 11097-69-1 | |
| PCB-1260 (Aroclor 1260) | **<15.5** | ug/kg | 51.0 | 15.5 | 1 | 03/05/24 12:00 | 03/06/24 10:50 | 11096-82-5 | |
| ***Surrogates*** | | | | | | | | | |
| Tetrachloro-m-xylene (S) | 70 | % | 44-120 | | 1 | 03/05/24 12:00 | 03/06/24 10:50 | 877-09-8 | |
| Decachlorobiphenyl (S) | 57 | % | 34-120 | | 1 | 03/05/24 12:00 | 03/06/24 10:50 | 2051-24-3 | |
| **6010D MET ICP** | Analytical Method: EPA 6010D Preparation Method: EPA 3050B<br>Pace Analytical Services - Green Bay | | | | | | | | |
| Arsenic | **2.5J** | mg/kg | 2.5 | 1.5 | 1 | 03/04/24 06:14 | 03/04/24 15:08 | 7440-38-2 | |
| Barium | **46.2** | mg/kg | 0.50 | 0.15 | 1 | 03/04/24 06:14 | 03/04/24 15:08 | 7440-39-3 | |
| Cadmium | **0.26J** | mg/kg | 0.50 | 0.13 | 1 | 03/04/24 06:14 | 03/04/24 15:08 | 7440-43-9 | |
| Chromium | **12.3** | mg/kg | 1.0 | 0.28 | 1 | 03/04/24 06:14 | 03/04/24 15:08 | 7440-47-3 | |
| Lead | **3.4** | mg/kg | 2.0 | 0.60 | 1 | 03/04/24 06:14 | 03/04/24 15:08 | 7439-92-1 | |
| Selenium | **<1.3** | mg/kg | 4.0 | 1.3 | 1 | 03/04/24 06:14 | 03/04/24 15:08 | 7782-49-2 | |
| Silver | **<0.31** | mg/kg | 1.0 | 0.31 | 1 | 03/04/24 06:14 | 03/04/24 15:08 | 7440-22-4 | |
| Total Hardness by 2340B | **559000** | mg/kg | | | 2 | 03/04/24 06:14 | 03/04/24 16:35 | | |
| **7471 Mercury** | Analytical Method: EPA 7471 Preparation Method: EPA 7471<br>Pace Analytical Services - Green Bay | | | | | | | | |
| Mercury | **<0.010** | mg/kg | 0.036 | 0.010 | 1 | 03/08/24 11:05 | 03/11/24 11:24 | 7439-97-6 | |
| **Percent Moisture** | Analytical Method: ASTM D2974-87<br>Pace Analytical Services - Green Bay | | | | | | | | |
| Percent Moisture | **2.0** | % | 0.10 | 0.10 | 1 | | 03/01/24 14:28 | | |

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## QUALITY CONTROL DATA

Project: 581184 PHASE 2 TASK 4 MKC CONC
Pace Project No.: 40274898

QC Batch: 468375
QC Batch Method: EPA 7471
Analysis Method: EPA 7471
Analysis Description: 7471 Mercury
Laboratory: Pace Analytical Services - Green Bay
Associated Lab Samples: 40274898001, 40274898002, 40274898003, 40274898004, 40274898005, 40274898006, 40274898007, 40274898008, 40274898009, 40274898010, 40274898011, 40274898012

METHOD BLANK: 2683060 Matrix: Solid
Associated Lab Samples: 40274898001, 40274898002, 40274898003, 40274898004, 40274898005, 40274898006, 40274898007, 40274898008, 40274898009, 40274898010, 40274898011, 40274898012

| Parameter | Units | Blank Result | Reporting Limit | Analyzed | Qualifiers |
|---|---|---|---|---|---|
| Mercury | mg/kg | <0.010 | 0.035 | 03/11/24 10:11 | |

LABORATORY CONTROL SAMPLE: 2683061

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|---|---|---|---|---|---|---|
| Mercury | mg/kg | 0.83 | 0.86 | 104 | 85-115 | |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2683062 2683063

| Parameter | Units | 40274898001 Result | MS Spike Conc. | MSD Spike Conc. | MS Result | MSD Result | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Mercury | mg/kg | <0.010 | 0.86 | 0.86 | 0.91 | 0.87 | 106 | 101 | 85-115 | 5 | 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.**

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# QUALITY CONTROL DATA

Project: 581184 PHASE 2 TASK 4 MKC CONC
Pace Project No.: 40274898

QC Batch: 468241
QC Batch Method: EPA 3050B
Analysis Method: EPA 6010D
Analysis Description: 6010D MET
Laboratory: Pace Analytical Services - Green Bay
Associated Lab Samples: 40274898001, 40274898002, 40274898003, 40274898004, 40274898005, 40274898006, 40274898007, 40274898008, 40274898009, 40274898010, 40274898011, 40274898012

METHOD BLANK: 2682641 Matrix: Solid
Associated Lab Samples: 40274898001, 40274898002, 40274898003, 40274898004, 40274898005, 40274898006, 40274898007, 40274898008, 40274898009, 40274898010, 40274898011, 40274898012

| Parameter | Units | Blank Result | Reporting Limit | Analyzed | Qualifiers |
|---|---|---|---|---|---|
| Arsenic | mg/kg | <1.5 | 2.5 | 03/04/24 14:20 | |
| Barium | mg/kg | <0.15 | 0.50 | 03/04/24 14:20 | |
| Cadmium | mg/kg | <0.13 | 0.50 | 03/04/24 14:20 | |
| Chromium | mg/kg | <0.28 | 1.0 | 03/04/24 14:20 | |
| Lead | mg/kg | <0.60 | 2.0 | 03/04/24 14:20 | |
| Selenium | mg/kg | <1.3 | 4.0 | 03/04/24 14:20 | |
| Silver | mg/kg | <0.31 | 1.0 | 03/04/24 14:20 | |
| Total Hardness by 2340B | mg/kg | 1.1 | | 03/04/24 14:20 | |

LABORATORY CONTROL SAMPLE: 2682642

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|---|---|---|---|---|---|---|
| Arsenic | mg/kg | 25 | 25.3 | 101 | 80-120 | |
| Barium | mg/kg | 25 | 26.3 | 105 | 80-120 | |
| Cadmium | mg/kg | 25 | 26.7 | 107 | 80-120 | |
| Chromium | mg/kg | 25 | 26.3 | 105 | 80-120 | |
| Lead | mg/kg | 25 | 26.9 | 107 | 80-120 | |
| Selenium | mg/kg | 25 | 27.2 | 109 | 80-120 | |
| Silver | mg/kg | 12.5 | 13.2 | 106 | 80-120 | |
| Total Hardness by 2340B | mg/kg | | 7130 | | | |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2682643 2682644

| Parameter | Units | 40274894001 Result | MS Spike Conc. | MSD Spike Conc. | MS Result | MSD Result | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Arsenic | mg/kg | 3.4 | 31.3 | 31.4 | 35.2 | 35.7 | 102 | 103 | 75-125 | 1 | 20 | |
| Barium | mg/kg | 61.0 | 31.3 | 31.4 | 132 | 116 | 226 | 175 | 75-125 | 13 | 20 | M0 |
| Cadmium | mg/kg | <0.17 | 31.3 | 31.4 | 33.3 | 33.9 | 106 | 108 | 75-125 | 2 | 20 | |
| Chromium | mg/kg | 23.3 | 31.3 | 31.4 | 65.3 | 60.8 | 134 | 119 | 75-125 | 7 | 20 | M0 |
| Lead | mg/kg | 9.1 | 31.3 | 31.4 | 41.9 | 43.5 | 105 | 109 | 75-125 | 4 | 20 | |
| Selenium | mg/kg | <1.6 | 31.3 | 31.4 | 33.1 | 33.5 | 103 | 104 | 75-125 | 1 | 20 | |
| Silver | mg/kg | <0.38 | 15.6 | 15.8 | 16.8 | 17.2 | 106 | 108 | 75-125 | 2 | 20 | |
| Total Hardness by 2340B | mg/kg | 431000 | | | 458000 | 441000 | | | | 4 | | |

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## QUALITY CONTROL DATA

Project: 581184 PHASE 2 TASK 4 MKC CONC
Pace Project No.: 40274898

QC Batch: 468423
QC Batch Method: EPA 3541
Analysis Method: EPA 8082A
Analysis Description: 8082 GCS PCB
Laboratory: Pace Analytical Services - Green Bay
Associated Lab Samples: 40274898001, 40274898002, 40274898003, 40274898004, 40274898005, 40274898006, 40274898007, 40274898008, 40274898009, 40274898010, 40274898011, 40274898012

METHOD BLANK: 2683200 Matrix: Solid
Associated Lab Samples: 40274898001, 40274898002, 40274898003, 40274898004, 40274898005, 40274898006, 40274898007, 40274898008, 40274898009, 40274898010, 40274898011, 40274898012

| Parameter | Units | Blank Result | Reporting Limit | Analyzed | Qualifiers |
|---|---|---|---|---|---|
| PCB-1016 (Aroclor 1016) | ug/kg | <15.2 | 50.0 | 03/06/24 01:35 | |
| PCB-1221 (Aroclor 1221) | ug/kg | <15.2 | 50.0 | 03/06/24 01:35 | |
| PCB-1232 (Aroclor 1232) | ug/kg | <15.2 | 50.0 | 03/06/24 01:35 | |
| PCB-1242 (Aroclor 1242) | ug/kg | <15.2 | 50.0 | 03/06/24 01:35 | |
| PCB-1248 (Aroclor 1248) | ug/kg | <15.2 | 50.0 | 03/06/24 01:35 | |
| PCB-1254 (Aroclor 1254) | ug/kg | <15.2 | 50.0 | 03/06/24 01:35 | |
| PCB-1260 (Aroclor 1260) | ug/kg | <15.2 | 50.0 | 03/06/24 01:35 | |
| Decachlorobiphenyl (S) | % | 72 | 34-120 | 03/06/24 01:35 | |
| Tetrachloro-m-xylene (S) | % | 81 | 44-120 | 03/06/24 01:35 | |

LABORATORY CONTROL SAMPLE: 2683201

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|---|---|---|---|---|---|---|
| PCB-1016 (Aroclor 1016) | ug/kg | | <15.2 | | | |
| PCB-1221 (Aroclor 1221) | ug/kg | | <15.2 | | | |
| PCB-1232 (Aroclor 1232) | ug/kg | | <15.2 | | | |
| PCB-1242 (Aroclor 1242) | ug/kg | | <15.2 | | | |
| PCB-1248 (Aroclor 1248) | ug/kg | | <15.2 | | | |
| PCB-1254 (Aroclor 1254) | ug/kg | | <15.2 | | | |
| PCB-1260 (Aroclor 1260) | ug/kg | 500 | 400 | 80 | 69-120 | |
| Decachlorobiphenyl (S) | % | | | 74 | 34-120 | |
| Tetrachloro-m-xylene (S) | % | | | 83 | 44-120 | |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2683202 2683203

| Parameter | Units | 40274891016 Result | MS Spike Conc. | MSD Spike Conc. | MS Result | MSD Result | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| PCB-1016 (Aroclor 1016) | ug/kg | <0.019 mg/kg | | | <19.3 | <19.4 | | | | | 20 | |
| PCB-1221 (Aroclor 1221) | ug/kg | <0.019 mg/kg | | | <19.3 | <19.4 | | | | | 20 | |
| PCB-1232 (Aroclor 1232) | ug/kg | <0.019 mg/kg | | | <19.3 | <19.4 | | | | | 20 | |
| PCB-1242 (Aroclor 1242) | ug/kg | <0.019 mg/kg | | | <19.3 | <19.4 | | | | | 20 | |
| PCB-1248 (Aroclor 1248) | ug/kg | <0.019 mg/kg | | | <19.3 | <19.4 | | | | | 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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1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

## QUALITY CONTROL DATA

Project: 581184 PHASE 2 TASK 4 MKC CONC
Pace Project No.: 40274898

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2683202 2683203

| Parameter | Units | 40274891016 Result | MS Spike Conc. | MSD Spike Conc. | MS Result | MSD Result | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| PCB-1254 (Aroclor 1254) | ug/kg | <0.019 mg/kg | | | <19.3 | <19.4 | | | | | 20 | |
| PCB-1260 (Aroclor 1260) | ug/kg | <0.019 mg/kg | 635 | 637 | 448 | 459 | 70 | 72 | 51-120 | 3 | 20 | |
| Decachlorobiphenyl (S) | % | | | | | | 66 | 67 | 34-120 | | | |
| Tetrachloro-m-xylene (S) | % | | | | | | 77 | 80 | 44-120 | | | |

**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: 581184 PHASE 2 TASK 4 MKC CONC
Pace Project No.: 40274898

QC Batch: 468218
QC Batch Method: ASTM D2974-87
Analysis Method: ASTM D2974-87
Analysis Description: Dry Weight/Percent Moisture
Laboratory: Pace Analytical Services - Green Bay
Associated Lab Samples: 40274898001, 40274898002, 40274898003, 40274898004, 40274898005, 40274898006, 40274898007, 40274898008, 40274898009, 40274898010, 40274898011, 40274898012

SAMPLE DUPLICATE: 2682470

| Parameter | Units | 40274887016 Result | Dup Result | RPD | Max RPD | Qualifiers |
|---|---|---|---|---|---|---|
| Percent Moisture | % | 22.0 | 22.4 | 2 | 10 | |

**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: 581184 PHASE 2 TASK 4 MKC CONC
Pace Project No.: 40274898

## 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 - The reported result is an estimated value.

LOD - Limit of Detection adjusted for dilution factor, percent moisture, initial weight and final volume.

LOQ - Limit of Quantitation adjusted for dilution factor, percent moisture, initial weight and final volume.

DL - Adjusted Method Detection Limit.

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 - Analyte was not detected and is reported as less than the LOD or as defined by the customer.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

## ANALYTE QUALIFIERS

| | |
|---|---|
| D3 | Sample was diluted due to the presence of high levels of non-target analytes or other matrix interference. |
| M0 | Matrix spike recovery and/or matrix spike duplicate recovery was outside laboratory control limits. |



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## QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 581184 PHASE 2 TASK 4 MKC CONC
Pace Project No.: 40274898

| Lab ID | Sample ID | QC Batch Method | QC Batch | Analytical Method | Analytical Batch |
|---|---|---|---|---|---|
| **40274898001** | **2024-1-COMP-1** | EPA 3541 | 468423 | EPA 8082A | 468431 |
| **40274898002** | **2024-1-COMP-2** | EPA 3541 | 468423 | EPA 8082A | 468431 |
| **40274898003** | **2024-1-COMP-3** | EPA 3541 | 468423 | EPA 8082A | 468431 |
| **40274898004** | **2024-1-COMP-4** | EPA 3541 | 468423 | EPA 8082A | 468431 |
| **40274898005** | **2024-2-COMP-1** | EPA 3541 | 468423 | EPA 8082A | 468431 |
| **40274898006** | **2024-2-COMP-2** | EPA 3541 | 468423 | EPA 8082A | 468431 |
| **40274898007** | **2024-2-COMP-3** | EPA 3541 | 468423 | EPA 8082A | 468431 |
| **40274898008** | **2024-2-COMP-4** | EPA 3541 | 468423 | EPA 8082A | 468431 |
| **40274898009** | **2024-3-COMP-1** | EPA 3541 | 468423 | EPA 8082A | 468431 |
| **40274898010** | **2024-3-COMP-2** | EPA 3541 | 468423 | EPA 8082A | 468431 |
| **40274898011** | **2024-3-COMP-3** | EPA 3541 | 468423 | EPA 8082A | 468431 |
| **40274898012** | **2024-3-COMP-4** | EPA 3541 | 468423 | EPA 8082A | 468431 |
| **40274898001** | **2024-1-COMP-1** | EPA 3050B | 468241 | EPA 6010D | 468325 |
| **40274898002** | **2024-1-COMP-2** | EPA 3050B | 468241 | EPA 6010D | 468325 |
| **40274898003** | **2024-1-COMP-3** | EPA 3050B | 468241 | EPA 6010D | 468325 |
| **40274898004** | **2024-1-COMP-4** | EPA 3050B | 468241 | EPA 6010D | 468325 |
| **40274898005** | **2024-2-COMP-1** | EPA 3050B | 468241 | EPA 6010D | 468325 |
| **40274898006** | **2024-2-COMP-2** | EPA 3050B | 468241 | EPA 6010D | 468325 |
| **40274898007** | **2024-2-COMP-3** | EPA 3050B | 468241 | EPA 6010D | 468325 |
| **40274898008** | **2024-2-COMP-4** | EPA 3050B | 468241 | EPA 6010D | 468325 |
| **40274898009** | **2024-3-COMP-1** | EPA 3050B | 468241 | EPA 6010D | 468325 |
| **40274898010** | **2024-3-COMP-2** | EPA 3050B | 468241 | EPA 6010D | 468325 |
| **40274898011** | **2024-3-COMP-3** | EPA 3050B | 468241 | EPA 6010D | 468325 |
| **40274898012** | **2024-3-COMP-4** | EPA 3050B | 468241 | EPA 6010D | 468325 |
| **40274898001** | **2024-1-COMP-1** | EPA 7471 | 468375 | EPA 7471 | 468802 |
| **40274898002** | **2024-1-COMP-2** | EPA 7471 | 468375 | EPA 7471 | 468802 |
| **40274898003** | **2024-1-COMP-3** | EPA 7471 | 468375 | EPA 7471 | 468802 |
| **40274898004** | **2024-1-COMP-4** | EPA 7471 | 468375 | EPA 7471 | 468802 |
| **40274898005** | **2024-2-COMP-1** | EPA 7471 | 468375 | EPA 7471 | 468802 |
| **40274898006** | **2024-2-COMP-2** | EPA 7471 | 468375 | EPA 7471 | 468802 |
| **40274898007** | **2024-2-COMP-3** | EPA 7471 | 468375 | EPA 7471 | 468802 |
| **40274898008** | **2024-2-COMP-4** | EPA 7471 | 468375 | EPA 7471 | 468802 |
| **40274898009** | **2024-3-COMP-1** | EPA 7471 | 468375 | EPA 7471 | 468802 |
| **40274898010** | **2024-3-COMP-2** | EPA 7471 | 468375 | EPA 7471 | 468802 |
| **40274898011** | **2024-3-COMP-3** | EPA 7471 | 468375 | EPA 7471 | 468802 |
| **40274898012** | **2024-3-COMP-4** | EPA 7471 | 468375 | EPA 7471 | 468802 |
| **40274898001** | **2024-1-COMP-1** | ASTM D2974-87 | 468218 | | |
| **40274898002** | **2024-1-COMP-2** | ASTM D2974-87 | 468218 | | |
| **40274898003** | **2024-1-COMP-3** | ASTM D2974-87 | 468218 | | |
| **40274898004** | **2024-1-COMP-4** | ASTM D2974-87 | 468218 | | |
| **40274898005** | **2024-2-COMP-1** | ASTM D2974-87 | 468218 | | |
| **40274898006** | **2024-2-COMP-2** | ASTM D2974-87 | 468218 | | |
| **40274898007** | **2024-2-COMP-3** | ASTM D2974-87 | 468218 | | |
| **40274898008** | **2024-2-COMP-4** | ASTM D2974-87 | 468218 | | |
| **40274898009** | **2024-3-COMP-1** | ASTM D2974-87 | 468218 | | |
| **40274898010** | **2024-3-COMP-2** | ASTM D2974-87 | 468218 | | |
| **40274898011** | **2024-3-COMP-3** | ASTM D2974-87 | 468218 | | |

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(920)469-2436

## QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 581184 PHASE 2 TASK 4 MKC CONC
Pace Project No.: 40274898

| Lab ID | Sample ID | QC Batch Method | QC Batch | Analytical Method | Analytical Batch |
|---|---|---|---|---|---|
| **40274898012** | **2024-3-COMP-4** | ASTM D2974-87 | 468218 | | |



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Pace® Location Requested (City/State):

# CHAIN-OF-CUSTODY Analytical Request Document

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

LAB USE ONLY- Affix Workorder/Login Label Here

40274898

Scan QR Code for instructions

Company Name: TRC
Street Address: 999 Fourier Drive suite 101 Madison, WI 53717
Customer Project #: 581184 Phase 2 Task 4
Project Name: MKC Concrete Sampling
Site Collection Info/Facility ID (as applicable): Madison, WI

Contact/Report To: Andrew Stehn
Phone #: 608-807-8112
E-Mail: astehn@trccompanies.com
Cc E-Mail: kvater@trccompanies.com
Invoice To: ↓
Invoice E-Mail: same
Purchase Order # (if applicable):
Quote #:

Time Zone Collected [ ] AK [ ] PT [ ] MT [X] CT [ ] ET
County / State origin of sample(s): WI

Data Deliverables: [ ] Level II [ ] Level III [ ] Level IV [ ] EQUIS [ ] Other
Regulatory Program (DW, RCRA, etc ) as applicable: Reportable [ ] Yes [ ] No
Rush (Pre-approval required): [ ] Same Day [ ] 1 Day [ ] 2 Day [ ] 3 Day [ ] Other
DW PWSID # or WW Permit # as applicable
Date Results Requested: standard TAT
Field Filtered (if applicable): [ ] Yes [ ] No
Analysis:

**Specify Container Size ****: 10 10
**Containers Size (1) 1L, (2) 500mL, (3) 250mL, (4) 125mL, (5) 100mL, (6) 40mL vial, (7) EnCore, (8) TerraCore, (9) 90mL, (10) Other 4oz AM

**Identify Container Preservative Type*****: 1 1
*** Preservative Types (1) None, (2) HNO3, (3) H2SO4, (4) HCl, (5) NaOH, (6) Zn Acetate, (7) NaHSO4, (8) Sod Thiosulfate, (9) Ascorbic Acid, (10) MeOH, (11) Other

**Analysis Requested**: PCBs; RCRA 8 metals

Lab Use Only: Proj Mgr: / AcctNum / Client ID: / Table #: / Profile / Template: / Prelog / Bottle Ord. ID:

Preservation non-conformance identified for sample

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Waste Water (WW), Product (P), Soil/Solid (SS), Oil (OL), Wipe (WP), Tissue (TS), Bioassay (B), Vapor (V), Surface Water (SW),Sediment (SED), Sludge (SL), Caulk (CK), Leachate (LL), Biosolid (BS), Other (OT)

| Customer Sample ID | Matrix * | Comp / Grab | Composite Start Date | Composite Start Time | Collected or Composite End Date | Collected or Composite End Time | # Cont. | Res. Chlorine Results | Res. Chlorine Units | PCBs | RCRA 8 metals | Sample Comment |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2024-1-comp-1 | OT | COMP | ~~2/28/24~~ SW | | 2/28/24 | 16:25 | 1 | - | - | X | X | 001 |
| 2024-1-comp-2 | | | | | | 16:33 | 1 | - | - | | | 002 |
| 2024-1-comp-3 | | | | | | 16:40 | 1 | - | - | | | 003 |
| 2024-1-comp-4 | | | | | | 16:45 | 1 | - | - | | | 004 |
| 2024-2-comp-1 | | | | | | 10:49 | 1 | - | - | | | 005 |
| 2024-2-comp-2 | | | | | | 11:25 | 1 | - | - | | | 006 |
| 2024-2-comp-3 | | | | | | 11:55 | 1 | - | - | | | 007 |
| 2024-2-comp-4 | | | | | | 15:35 | 1 | - | - | | | 008 |
| 2024-3-comp-1 | | | | | | 15:47 | 1 | - | - | | | 009 |
| 2024-3-comp-2 | ↓ | ↓ | | | ↓ | 15:59 | 1 | - | - | ↓ | ↓ | 010 |

Additional Instructions from Pace®:

Collected By (Printed Name): Molly Wagler
Signature: Molly Wagler

Customer Remarks / Special Conditions / Possible Hazards:

| # Coolers | Thermometer ID | Correction Factor (°C) | Obs Temp (°C) | Corrected Temp (°C) | On Ice |
|---|---|---|---|---|---|
| | | | | | |

| Relinquished by/Company (Signature) | Date/Time | Received by/Company (Signature) | Date/Time | Tracking Number |
|---|---|---|---|---|
| Ben Warthol (TRC) | 2/29/24 17:45 | | | |
| Relinquished by/Company (Signature) | Date/Time | Received by/Company. (Signature) | Date/Time | Delivered by [ ] In- Person [ ] Courier |
| FedEx | 3/01/24 0935 | pace | 3/01/24 0935 | [X] FedEx [ ] UPS [ ] Other |
| Relinquished by/Company (Signature) | Date/Time | Received by/Company. (Signature) | Date/Time | |
| Relinquished by/Company (Signature) | Date/Time | Received by/Company. (Signature) | Date/Time | Page: 1 of 2 |



Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace® Terms and Conditions found at https://www pacelabs.com/resource-library/resource/pace-terms-and-conditions/

Pace® Location Requested (City/State):

# CHAIN-OF-CUSTODY Analytical Request Document

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

LAB USE ONLY- Affix Workorder/Login Label Here

L02748998

Scan QR Code for instructions

| | |
|---|---|
| Company Name. TRC | Contact/Report To. Andrew Stehn |
| Street Address: 999 Fourier Drive Suite 101 Madison, WI 53717 | Phone #. 608-807-8112 |
| | E-Mail astehn@trccompanies.com |
| | Cc E-Mail. kvater@trccompanies.com |
| Customer Project # 581184 Phase 2 Task 4 | Invoice To |
| Project Name MKC Concrete Sampling | Invoice E-Mail: |
| Site Collection Info/Facility ID (as applicable): Madison, WI | Purchase Order # (if applicable) same |
| | Quote #: |
| Time Zone Collected: [ ] AK [ ] PT [ ] MT [X] CT [ ] ET | County / State origin of sample(s) WI |
| Data Deliverables: [ ] Level II [ ] Level III [ ] Level IV [ ] EQUIS [ ] Other | Regulatory Program (DW, RCRA, etc.) as applicable Reportable [ ] Yes [ ] No |
| | Rush (Pre-approval required): [ ] Same Day [ ] 1 Day [ ] 2 Day [ ] 3 Day [ ] Other |
| | DW PWSID # or WW Permit # as applicable |
| | Date Results Requested: standard TAT |
| | Field Filtered (if applicable): [ ] Yes [ ] No |
| | Analysis: |

**Specify Container Size ****: 10 | 10

**Identify Container Preservative Type*****: 1 | 1

**Analysis Requested**: PCBs | RCRA 8 metals

**Container Size (1) 1L, (2) 500mL, (3) 250mL, (4) 125mL, (5) 100mL, (6) 40mL vial, (7) EnCore, (8) TerraCore, (9) 90mL, (10) Other

*** Preservative Types (1) None, (2) HNO3, (3) H2SO4, (4) HCl, (5) NaOH, (6) Zn Acetate, (7) NaHSO4, (8) Sod Thiosulfate, (9) Ascorbic Acid, (10) MeOH, (11) Other

Lab Use Only: Proj. Mgr: | AcctNum / Client ID. | Table # | Profile / Template. | Prelog / Bottle Ord. ID:

Preservation non-conformance identified for sample

* Matrix Codes (Insert in Matrix box below) Drinking Water (DW), Ground Water (GW), Waste Water (WW), Product (P), Soil/Solid (SS), Oil (OL), Wipe (WP), Tissue (TS), Bioassay (B), Vapor (V), Surface Water (SW),Sediment (SED), Sludge (SL), Caulk (CK), Leachate (LL), Biosolid (BS), Other (OT)

| Customer Sample ID | Matrix * | Comp / Grab | Composite Start Date | Composite Start Time | Collected or Composite End Date | Collected or Composite End Time | # Cont. | Res. Chlorine Results | Res. Chlorine Units | PCBs | RCRA 8 metals | Sample Comment |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2024-3-comp-3 | OT | comp | | | 2/28/24 | 16:07 | 1 | - | - | X | X | 011 |
| 2024-3-comp-4 | OT | comp | | | 2/28/24 | 16:15 | 1 | - | - | X | X | 012 |

Additional Instructions from Pace®:

Collected By (Printed Name) Molly Wagler

Signature Molly Wagler

Customer Remarks / Special Conditions / Possible Hazards

# Coolers | Thermometer ID | Correction Factor (°C) | Obs Temp (°C) | Corrected Temp (°C) | On Ice

| Relinquished by/Company (Signature) | Date/Time | Received by/Company. (Signature) | Date/Time | Tracking Number |
|---|---|---|---|---|
| Ben Waggoner (TRC) | 2/29/24 17:45 | | | |
| Relinquished by/Company (Signature) | Date/Time | Received by/Company (Signature) | Date/Time | Delivered by [ ] In-Person [ ] Courier |
| Fedex | 3/01/24 0935 | pace | 3/01/24 0935 | [X] FedEX [ ] UPS [ ] Other |
| Relinquished by/Company (Signature) | Date/Time | Received by/Company (Signature) | Date/Time | |
| Relinquished by/Company (Signature) | Date/Time | Received by/Company (Signature) | Date/Time | Page: 2 of 2 |



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# Sample Preservation Receipt Form

Client Name: TRC  Project # 402748998

All containers needing preservation have been checked and noted below: ☐Yes ☐No ☒N/A  Lab Lot# of pH paper.  Lab Std #ID of preservation (if pH adjusted)  Initial when completed.  Date/ Time.

| Pace Lab # | Glass | | | | | | | Plastic | | | | | | Vials | | | | | | Jars | | | | General | | | | VOA Vials (>6mm) * | H2SO4 pH ≤2 | NaOH+Zn Act pH ≥9 | NaOH pH ≥12 | HNO3 pH ≤2 | pH after adjusted | Volume (mL) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | AG1U | BG1U | AG1H | AG4S | AG5U | AG2S | BG3U | BP1U | BP3U | BP3B | BP3N | BP3S | BP2Z | VG9C | DG9T | VG9U | VG9H | VG9M | VG9D | JGFU | JG9U | WGFU | WPFU | SP5T | ZPLC | GN 1 | GN 2 | | | | | | | |
| 001 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 2.5 / 5 |
| 002 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 2.5 / 5 |
| 003 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 2.5 / 5 |
| 004 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 2.5 / 5 |
| 005 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 2.5 / 5 |
| 006 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 2.5 / 5 |
| 007 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 2.5 / 5 |
| 008 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 2.5 / 5 |
| 009 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 2.5 / 5 |
| 010 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 2.5 / 5 |
| 011 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 2.5 / 5 |
| 012 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 2.5 / 5 |
| 013 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 2.5 / 5 |
| 014 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 2.5 / 5 |
| 015 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 2.5 / 5 |
| 016 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 2.5 / 5 |
| 017 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 2.5 / 5 |
| 018 | | | | | 3/01/24 NK | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 2.5 / 5 |
| 019 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 2.5 / 5 |
| 020 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 2.5 / 5 |

Exceptions to preservation check. VOA, Coliform, TOC, TOX, TOH, O&G, WI DRO, Phenolics, Other: _____  Headspace in VOA Vials (>6mm) ☐Yes ☐No ☒N/A  ***If yes look in headspace column**

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| AG1U | 1 liter amber glass | BP1U | 1 liter plastic unpres | VG9C | 40 mL clear ascorbic w/ HCl | JGFU | 4 oz amber jar unpres |
| BG1U | 1 liter clear glass | BP3U | 250 mL plastic unpres | DG9T | 40 mL amber Na Thio | JG9U | 9 oz amber jar unpres |
| AG1H | 1 liter amber glass HCL | BP3B | 250 mL plastic NaOH | VG9U | 40 mL clear vial unpres | WGFU | 4 oz clear jar unpres |
| AG4S | 125 mL amber glass H2SO4 | BP3N | 250 mL plastic HNO3 | VG9H | 40 mL clear vial HCL | WPFU | 4 oz plastic jar unpres |
| AG5U | 100 mL amber glass unpres | BP3S | 250 mL plastic H2SO4 | VG9M | 40 mL clear vial MeOH | SP5T | 120 mL plastic Na Thiosulfate |
| AG2S | 500 mL amber glass H2SO4 | BP2Z | 500 mL plastic NaOH + Zn | VG9D | 40 mL clear vial DI | ZPLC | ziploc bag |
| BG3U | 250 mL clear glass unpres | | | | | GN 1 | |
| | | | | | | GN 2 | |

Page 1 of 2

# Sample Condition Upon Receipt Form (SCUR)

Project #:

WO# : 40274898

40274898

**Client Name:** TRC

**Courier:** ☐ CS Logistics ☒ Fed Ex ☐ Speedee ☐ UPS ☐ Waltco
☐ Client ☐ Pace Other:

**Tracking #:** 775373479234

**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 - 134 **Type of Ice:** (Wet) Blue Dry None ☐ Meltwater Only

**Cooler Temperature** Uncorr: 2.0 /Corr: 2.0

**Temp Blank Present:** ☒ yes ☐ no **Biological Tissue is Frozen:** ☐ yes ☐ no

Temp should be above freezing to 6°C.
Biota Samples may be received at ≤ 0°C if shipped on Dry Ice.

**Person examining contents:**
Date: 3/01/24 /Initials: NK

**Labeled By Initials:** EZ

| | | |
|---|---|---|
| Chain of Custody Present: | ☒Yes ☐No ☐N/A | 1. |
| Chain of Custody Filled Out: | ☒Yes ☐No ☐N/A | 2. |
| Chain of Custody Relinquished: | ☒Yes ☐No ☐N/A | 3. |
| Sampler Name & Signature on COC: | ☒Yes ☐No ☐N/A | 4. |
| Samples Arrived within Hold Time: | ☒Yes ☐No | 5. |
| - DI VOA Samples frozen upon receipt | ☐Yes ☐No | Date/Time: |
| **Short Hold Time Analysis (<72hr):** | ☐Yes ☒No | 6. |
| **Rush Turn Around Time Requested:** | ☐Yes ☒No | 7. |
| Sufficient Volume: | | 8. |
| For Analysis: ☒Yes ☐No MS/MSD: | ☐Yes ☒No ☐N/A | |
| Correct Containers Used: | ☒Yes ☐No | 9. |
| Correct Type: ~~Pace Green Bay~~ Pace IR, Non-Pace | | |
| Containers Intact: | ☒Yes ☐No | 10. |
| Filtered volume received for Dissolved tests | ☐Yes ☐No ☒N/A | 11. |
| Sample Labels match COC: | ☒Yes ☐No ☐N/A | 12. |
| -Includes date/time/ID/Analysis Matrix: S | | |
| Trip Blank Present: | ☐Yes ☐No ☒N/A | 13. |
| Trip Blank Custody Seals Present | ☐Yes ☐No ☒N/A | |
| Pace Trip Blank Lot # (if purchased): | | |

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

Person Contacted: Date/Time:

Comments/ Resolution:

**PM Review is documented electronically in LIMs. By releasing the project, the PM acknowledges they have reviewed the sample logi**

Page 2 of 2

**Pace Analytical Services, LLC**
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

April 24, 2024

Andrew Stehn
TRC Madison
708 Heartland Trail
Madison, WI 53717

RE: Project: 581184 PHASE 2 TASK 4 MKC CONC
Pace Project No.: 40277152

Dear Andrew Stehn:

Enclosed are the analytical results for sample(s) received by the laboratory on April 20, 2024. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Green Bay

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Tod Noltemeyer

Tod Noltemeyer
tod.noltemeyer@pacelabs.com
(920)469-2436
Project Manager

Enclosures

cc: Peggy Popp, TRC - Madison
Katherine Vater, TRC
Ben Wachholz, TRC Madison



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## CERTIFICATIONS

Project: 581184 PHASE 2 TASK 4 MKC CONC
Pace Project No.: 40277152

**Pace Analytical Services Green Bay**
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
South Carolina Certification #: 83006001
Texas Certification #: T104704529-21-8
Virginia VELAP Certification ID: 11873
Wisconsin Certification #: 405132750
Wisconsin DATCP Certification #: 105-444
USDA Soil Permit #: P330-21-00008
Federal Fish & Wildlife Permit #: 51774A

## REPORT OF LABORATORY ANALYSIS

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## SAMPLE SUMMARY

Project: 581184 PHASE 2 TASK 4 MKC CONC
Pace Project No.: 40277152

| Lab ID | Sample ID | Matrix | Date Collected | Date Received |
|---|---|---|---|---|
| **40277152001** | **2024-3-A** | Solid | 02/28/24 11:37 | 04/20/24 10:00 |
| **40277152002** | **2024-3-B** | Solid | 02/28/24 11:47 | 04/20/24 10:00 |
| **40277152003** | **2024-3-C** | Solid | 02/28/24 11:50 | 04/20/24 10:00 |
| **40277152004** | **2024-3-D** | Solid | 02/28/24 12:02 | 04/20/24 10:00 |
| **40277152005** | **2024-3-E** | Solid | 02/28/24 12:22 | 04/20/24 10:00 |
| **40277152006** | **2024-3-F** | Solid | 02/28/24 12:12 | 04/20/24 10:00 |
| **40277152007** | **2024-3-G** | Solid | 02/28/24 12:28 | 04/20/24 10:00 |
| **40277152008** | **2024-3-H** | Solid | 02/28/24 12:35 | 04/20/24 10:00 |
| **40277152009** | **2024-3-I** | Solid | 02/28/24 12:44 | 04/20/24 10:00 |



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## SAMPLE ANALYTE COUNT

Project: 581184 PHASE 2 TASK 4 MKC CONC
Pace Project No.: 40277152

| Lab ID | Sample ID | Method | Analysts | Analytes Reported |
|---|---|---|---|---|
| **40277152001** | **2024-3-A** | EPA 8082A | BLM | 10 |
| | | ASTM D2974-87 | EGL | 1 |
| **40277152002** | **2024-3-B** | EPA 8082A | BLM | 10 |
| | | ASTM D2974-87 | EGL | 1 |
| **40277152003** | **2024-3-C** | EPA 8082A | BLM | 10 |
| | | ASTM D2974-87 | EGL | 1 |
| **40277152004** | **2024-3-D** | EPA 8082A | BLM | 10 |
| | | ASTM D2974-87 | EGL | 1 |
| **40277152005** | **2024-3-E** | EPA 8082A | BLM | 10 |
| | | ASTM D2974-87 | EGL | 1 |
| **40277152006** | **2024-3-F** | EPA 8082A | BLM | 10 |
| | | ASTM D2974-87 | EGL | 1 |
| **40277152007** | **2024-3-G** | EPA 8082A | BLM | 10 |
| | | ASTM D2974-87 | EGL | 1 |
| **40277152008** | **2024-3-H** | EPA 8082A | BLM | 10 |
| | | ASTM D2974-87 | EGL | 1 |
| **40277152009** | **2024-3-I** | EPA 8082A | BLM | 10 |
| | | ASTM D2974-87 | EGL | 1 |

PASI-G = Pace Analytical Services - Green Bay



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## SUMMARY OF DETECTION

Project: 581184 PHASE 2 TASK 4 MKC CONC
Pace Project No.: 40277152

| Lab Sample ID / Method | Client Sample ID / Parameters | Result | Units | Report Limit | Analyzed | Qualifiers |
|---|---|---|---|---|---|---|
| **40277152001** | **2024-3-A** | | | | | |
| EPA 8082A | PCB, Total | 231 | ug/kg | 50.9 | 04/23/24 16:54 | |
| EPA 8082A | PCB-1248 (Aroclor 1248) | 164 | ug/kg | 50.9 | 04/23/24 16:54 | |
| EPA 8082A | PCB-1254 (Aroclor 1254) | 66.6 | ug/kg | 50.9 | 04/23/24 16:54 | |
| ASTM D2974-87 | Percent Moisture | 1.8 | % | 0.10 | 04/22/24 17:03 | |
| **40277152002** | **2024-3-B** | | | | | |
| EPA 8082A | PCB, Total | 122 | ug/kg | 51.6 | 04/23/24 17:16 | |
| EPA 8082A | PCB-1248 (Aroclor 1248) | 122 | ug/kg | 51.6 | 04/23/24 17:16 | |
| ASTM D2974-87 | Percent Moisture | 3.2 | % | 0.10 | 04/22/24 17:03 | |
| **40277152003** | **2024-3-C** | | | | | |
| EPA 8082A | PCB, Total | 123 | ug/kg | 51.9 | 04/23/24 17:37 | |
| EPA 8082A | PCB-1248 (Aroclor 1248) | 84.5 | ug/kg | 51.9 | 04/23/24 17:37 | |
| EPA 8082A | PCB-1254 (Aroclor 1254) | 38.9J | ug/kg | 51.9 | 04/23/24 17:37 | |
| ASTM D2974-87 | Percent Moisture | 3.3 | % | 0.10 | 04/22/24 17:03 | |
| **40277152004** | **2024-3-D** | | | | | |
| EPA 8082A | PCB, Total | 155 | ug/kg | 51.4 | 04/23/24 17:58 | |
| EPA 8082A | PCB-1248 (Aroclor 1248) | 106 | ug/kg | 51.4 | 04/23/24 17:58 | |
| EPA 8082A | PCB-1254 (Aroclor 1254) | 48.3J | ug/kg | 51.4 | 04/23/24 17:58 | |
| ASTM D2974-87 | Percent Moisture | 2.8 | % | 0.10 | 04/22/24 17:03 | |
| **40277152005** | **2024-3-E** | | | | | |
| EPA 8082A | PCB, Total | 2170 | ug/kg | 155 | 04/23/24 18:19 | |
| EPA 8082A | PCB-1248 (Aroclor 1248) | 2170 | ug/kg | 155 | 04/23/24 18:19 | |
| ASTM D2974-87 | Percent Moisture | 3.2 | % | 0.10 | 04/22/24 17:03 | |
| **40277152006** | **2024-3-F** | | | | | |
| EPA 8082A | PCB, Total | 616 | ug/kg | 50.7 | 04/23/24 18:41 | |
| EPA 8082A | PCB-1248 (Aroclor 1248) | 616 | ug/kg | 50.7 | 04/23/24 18:41 | |
| ASTM D2974-87 | Percent Moisture | 1.2 | % | 0.10 | 04/22/24 17:03 | |
| **40277152007** | **2024-3-G** | | | | | |
| EPA 8082A | PCB, Total | 321 | ug/kg | 51.6 | 04/23/24 14:46 | |
| EPA 8082A | PCB-1248 (Aroclor 1248) | 238 | ug/kg | 51.6 | 04/23/24 14:46 | |
| EPA 8082A | PCB-1254 (Aroclor 1254) | 82.6 | ug/kg | 51.6 | 04/23/24 14:46 | |
| ASTM D2974-87 | Percent Moisture | 3.0 | % | 0.10 | 04/22/24 17:04 | |
| **40277152008** | **2024-3-H** | | | | | |
| EPA 8082A | PCB, Total | 650 | ug/kg | 51.2 | 04/23/24 15:07 | |
| EPA 8082A | PCB-1248 (Aroclor 1248) | 650 | ug/kg | 51.2 | 04/23/24 15:07 | |
| ASTM D2974-87 | Percent Moisture | 2.1 | % | 0.10 | 04/22/24 17:04 | |
| **40277152009** | **2024-3-I** | | | | | |
| EPA 8082A | PCB, Total | 974 | ug/kg | 51.1 | 04/23/24 15:29 | |
| EPA 8082A | PCB-1248 (Aroclor 1248) | 974 | ug/kg | 51.1 | 04/23/24 15:29 | |
| ASTM D2974-87 | Percent Moisture | 2.3 | % | 0.10 | 04/22/24 17:04 | |

## REPORT OF LABORATORY ANALYSIS

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(920)469-2436

# PROJECT NARRATIVE

Project: 581184 PHASE 2 TASK 4 MKC CONC
Pace Project No.: 40277152

**Method:** **EPA 8082A**
**Description:** 8082A GCS PCB
**Client:** TRC - MADISON
**Date:** April 24, 2024

**General Information:**
9 samples were analyzed for EPA 8082A by Pace Analytical Services Green Bay. 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 3541 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.

**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: 581184 PHASE 2 TASK 4 MKC CONC
Pace Project No.: 40277152

**Sample: 2024-3-A** **Lab ID: 40277152001** Collected: 02/28/24 11:37 Received: 04/20/24 10:00 Matrix: Solid

***Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.***

| Parameters | Results | Units | LOQ | LOD | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **8082A GCS PCB** | Analytical Method: EPA 8082A Preparation Method: EPA 3541<br>Pace Analytical Services - Green Bay | | | | | | | | |
| PCB, Total | **231** | ug/kg | 50.9 | 15.5 | 1 | 04/22/24 12:00 | 04/23/24 16:54 | 1336-36-3 | |
| PCB-1016 (Aroclor 1016) | **<15.5** | ug/kg | 50.9 | 15.5 | 1 | 04/22/24 12:00 | 04/23/24 16:54 | 12674-11-2 | |
| PCB-1221 (Aroclor 1221) | **<15.5** | ug/kg | 50.9 | 15.5 | 1 | 04/22/24 12:00 | 04/23/24 16:54 | 11104-28-2 | |
| PCB-1232 (Aroclor 1232) | **<15.5** | ug/kg | 50.9 | 15.5 | 1 | 04/22/24 12:00 | 04/23/24 16:54 | 11141-16-5 | |
| PCB-1242 (Aroclor 1242) | **<15.5** | ug/kg | 50.9 | 15.5 | 1 | 04/22/24 12:00 | 04/23/24 16:54 | 53469-21-9 | |
| PCB-1248 (Aroclor 1248) | **164** | ug/kg | 50.9 | 15.5 | 1 | 04/22/24 12:00 | 04/23/24 16:54 | 12672-29-6 | |
| PCB-1254 (Aroclor 1254) | **66.6** | ug/kg | 50.9 | 15.5 | 1 | 04/22/24 12:00 | 04/23/24 16:54 | 11097-69-1 | |
| PCB-1260 (Aroclor 1260) | **<15.5** | ug/kg | 50.9 | 15.5 | 1 | 04/22/24 12:00 | 04/23/24 16:54 | 11096-82-5 | |
| ***Surrogates*** | | | | | | | | | |
| Tetrachloro-m-xylene (S) | 89 | % | 44-120 | | 1 | 04/22/24 12:00 | 04/23/24 16:54 | 877-09-8 | |
| Decachlorobiphenyl (S) | 74 | % | 34-120 | | 1 | 04/22/24 12:00 | 04/23/24 16:54 | 2051-24-3 | |
| **Percent Moisture** | Analytical Method: ASTM D2974-87<br>Pace Analytical Services - Green Bay | | | | | | | | |
| Percent Moisture | **1.8** | % | 0.10 | 0.10 | 1 | | 04/22/24 17:03 | | |

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(920)469-2436

## ANALYTICAL RESULTS

Project: 581184 PHASE 2 TASK 4 MKC CONC
Pace Project No.: 40277152

**Sample: 2024-3-B** **Lab ID: 40277152002** Collected: 02/28/24 11:47 Received: 04/20/24 10:00 Matrix: Solid

***Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.***

| Parameters | Results | Units | LOQ | LOD | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **8082A GCS PCB** | Analytical Method: EPA 8082A Preparation Method: EPA 3541<br>Pace Analytical Services - Green Bay | | | | | | | | |
| PCB, Total | **122** | ug/kg | 51.6 | 15.7 | 1 | 04/22/24 12:00 | 04/23/24 17:16 | 1336-36-3 | |
| PCB-1016 (Aroclor 1016) | **<15.7** | ug/kg | 51.6 | 15.7 | 1 | 04/22/24 12:00 | 04/23/24 17:16 | 12674-11-2 | |
| PCB-1221 (Aroclor 1221) | **<15.7** | ug/kg | 51.6 | 15.7 | 1 | 04/22/24 12:00 | 04/23/24 17:16 | 11104-28-2 | |
| PCB-1232 (Aroclor 1232) | **<15.7** | ug/kg | 51.6 | 15.7 | 1 | 04/22/24 12:00 | 04/23/24 17:16 | 11141-16-5 | |
| PCB-1242 (Aroclor 1242) | **<15.7** | ug/kg | 51.6 | 15.7 | 1 | 04/22/24 12:00 | 04/23/24 17:16 | 53469-21-9 | |
| PCB-1248 (Aroclor 1248) | **122** | ug/kg | 51.6 | 15.7 | 1 | 04/22/24 12:00 | 04/23/24 17:16 | 12672-29-6 | |
| PCB-1254 (Aroclor 1254) | **<15.7** | ug/kg | 51.6 | 15.7 | 1 | 04/22/24 12:00 | 04/23/24 17:16 | 11097-69-1 | |
| PCB-1260 (Aroclor 1260) | **<15.7** | ug/kg | 51.6 | 15.7 | 1 | 04/22/24 12:00 | 04/23/24 17:16 | 11096-82-5 | |
| ***Surrogates*** | | | | | | | | | |
| Tetrachloro-m-xylene (S) | 95 | % | 44-120 | | 1 | 04/22/24 12:00 | 04/23/24 17:16 | 877-09-8 | |
| Decachlorobiphenyl (S) | 78 | % | 34-120 | | 1 | 04/22/24 12:00 | 04/23/24 17:16 | 2051-24-3 | |
| **Percent Moisture** | Analytical Method: ASTM D2974-87<br>Pace Analytical Services - Green Bay | | | | | | | | |
| Percent Moisture | **3.2** | % | 0.10 | 0.10 | 1 | | 04/22/24 17:03 | | |

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## ANALYTICAL RESULTS

Project: 581184 PHASE 2 TASK 4 MKC CONC
Pace Project No.: 40277152

**Sample: 2024-3-C** **Lab ID: 40277152003** Collected: 02/28/24 11:50 Received: 04/20/24 10:00 Matrix: Solid

***Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.***

| Parameters | Results | Units | LOQ | LOD | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **8082A GCS PCB** | Analytical Method: EPA 8082A Preparation Method: EPA 3541<br>Pace Analytical Services - Green Bay | | | | | | | | |
| PCB, Total | **123** | ug/kg | 51.9 | 15.8 | 1 | 04/22/24 12:00 | 04/23/24 17:37 | 1336-36-3 | |
| PCB-1016 (Aroclor 1016) | **<15.8** | ug/kg | 51.9 | 15.8 | 1 | 04/22/24 12:00 | 04/23/24 17:37 | 12674-11-2 | |
| PCB-1221 (Aroclor 1221) | **<15.8** | ug/kg | 51.9 | 15.8 | 1 | 04/22/24 12:00 | 04/23/24 17:37 | 11104-28-2 | |
| PCB-1232 (Aroclor 1232) | **<15.8** | ug/kg | 51.9 | 15.8 | 1 | 04/22/24 12:00 | 04/23/24 17:37 | 11141-16-5 | |
| PCB-1242 (Aroclor 1242) | **<15.8** | ug/kg | 51.9 | 15.8 | 1 | 04/22/24 12:00 | 04/23/24 17:37 | 53469-21-9 | |
| PCB-1248 (Aroclor 1248) | **84.5** | ug/kg | 51.9 | 15.8 | 1 | 04/22/24 12:00 | 04/23/24 17:37 | 12672-29-6 | |
| PCB-1254 (Aroclor 1254) | **38.9J** | ug/kg | 51.9 | 15.8 | 1 | 04/22/24 12:00 | 04/23/24 17:37 | 11097-69-1 | |
| PCB-1260 (Aroclor 1260) | **<15.8** | ug/kg | 51.9 | 15.8 | 1 | 04/22/24 12:00 | 04/23/24 17:37 | 11096-82-5 | |
| ***Surrogates*** | | | | | | | | | |
| Tetrachloro-m-xylene (S) | 94 | % | 44-120 | | 1 | 04/22/24 12:00 | 04/23/24 17:37 | 877-09-8 | |
| Decachlorobiphenyl (S) | 84 | % | 34-120 | | 1 | 04/22/24 12:00 | 04/23/24 17:37 | 2051-24-3 | |
| **Percent Moisture** | Analytical Method: ASTM D2974-87<br>Pace Analytical Services - Green Bay | | | | | | | | |
| Percent Moisture | **3.3** | % | 0.10 | 0.10 | 1 | | 04/22/24 17:03 | | |

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## ANALYTICAL RESULTS

Project: 581184 PHASE 2 TASK 4 MKC CONC
Pace Project No.: 40277152

**Sample: 2024-3-D** **Lab ID: 40277152004** Collected: 02/28/24 12:02 Received: 04/20/24 10:00 Matrix: Solid

***Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.***

| Parameters | Results | Units | LOQ | LOD | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **8082A GCS PCB** | Analytical Method: EPA 8082A Preparation Method: EPA 3541<br>Pace Analytical Services - Green Bay | | | | | | | | |
| PCB, Total | **155** | ug/kg | 51.4 | 15.6 | 1 | 04/22/24 12:00 | 04/23/24 17:58 | 1336-36-3 | |
| PCB-1016 (Aroclor 1016) | **<15.6** | ug/kg | 51.4 | 15.6 | 1 | 04/22/24 12:00 | 04/23/24 17:58 | 12674-11-2 | |
| PCB-1221 (Aroclor 1221) | **<15.6** | ug/kg | 51.4 | 15.6 | 1 | 04/22/24 12:00 | 04/23/24 17:58 | 11104-28-2 | |
| PCB-1232 (Aroclor 1232) | **<15.6** | ug/kg | 51.4 | 15.6 | 1 | 04/22/24 12:00 | 04/23/24 17:58 | 11141-16-5 | |
| PCB-1242 (Aroclor 1242) | **<15.6** | ug/kg | 51.4 | 15.6 | 1 | 04/22/24 12:00 | 04/23/24 17:58 | 53469-21-9 | |
| PCB-1248 (Aroclor 1248) | **106** | ug/kg | 51.4 | 15.6 | 1 | 04/22/24 12:00 | 04/23/24 17:58 | 12672-29-6 | |
| PCB-1254 (Aroclor 1254) | **48.3J** | ug/kg | 51.4 | 15.6 | 1 | 04/22/24 12:00 | 04/23/24 17:58 | 11097-69-1 | |
| PCB-1260 (Aroclor 1260) | **<15.6** | ug/kg | 51.4 | 15.6 | 1 | 04/22/24 12:00 | 04/23/24 17:58 | 11096-82-5 | |
| ***Surrogates*** | | | | | | | | | |
| Tetrachloro-m-xylene (S) | 95 | % | 44-120 | | 1 | 04/22/24 12:00 | 04/23/24 17:58 | 877-09-8 | |
| Decachlorobiphenyl (S) | 74 | % | 34-120 | | 1 | 04/22/24 12:00 | 04/23/24 17:58 | 2051-24-3 | |
| **Percent Moisture** | Analytical Method: ASTM D2974-87<br>Pace Analytical Services - Green Bay | | | | | | | | |
| Percent Moisture | **2.8** | % | 0.10 | 0.10 | 1 | | 04/22/24 17:03 | | |

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## ANALYTICAL RESULTS

Project: 581184 PHASE 2 TASK 4 MKC CONC
Pace Project No.: 40277152

**Sample: 2024-3-E** **Lab ID: 40277152005** Collected: 02/28/24 12:22 Received: 04/20/24 10:00 Matrix: Solid

***Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.***

| Parameters | Results | Units | LOQ | LOD | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **8082A GCS PCB** | Analytical Method: EPA 8082A Preparation Method: EPA 3541<br>Pace Analytical Services - Green Bay | | | | | | | | |
| PCB, Total | **2170** | ug/kg | 155 | 47.2 | 3 | 04/22/24 12:00 | 04/23/24 18:19 | 1336-36-3 | |
| PCB-1016 (Aroclor 1016) | **<47.2** | ug/kg | 155 | 47.2 | 3 | 04/22/24 12:00 | 04/23/24 18:19 | 12674-11-2 | |
| PCB-1221 (Aroclor 1221) | **<47.2** | ug/kg | 155 | 47.2 | 3 | 04/22/24 12:00 | 04/23/24 18:19 | 11104-28-2 | |
| PCB-1232 (Aroclor 1232) | **<47.2** | ug/kg | 155 | 47.2 | 3 | 04/22/24 12:00 | 04/23/24 18:19 | 11141-16-5 | |
| PCB-1242 (Aroclor 1242) | **<47.2** | ug/kg | 155 | 47.2 | 3 | 04/22/24 12:00 | 04/23/24 18:19 | 53469-21-9 | |
| PCB-1248 (Aroclor 1248) | **2170** | ug/kg | 155 | 47.2 | 3 | 04/22/24 12:00 | 04/23/24 18:19 | 12672-29-6 | |
| PCB-1254 (Aroclor 1254) | **<47.2** | ug/kg | 155 | 47.2 | 3 | 04/22/24 12:00 | 04/23/24 18:19 | 11097-69-1 | |
| PCB-1260 (Aroclor 1260) | **<47.2** | ug/kg | 155 | 47.2 | 3 | 04/22/24 12:00 | 04/23/24 18:19 | 11096-82-5 | |
| ***Surrogates*** | | | | | | | | | |
| Tetrachloro-m-xylene (S) | 96 | % | 44-120 | | 3 | 04/22/24 12:00 | 04/23/24 18:19 | 877-09-8 | |
| Decachlorobiphenyl (S) | 72 | % | 34-120 | | 3 | 04/22/24 12:00 | 04/23/24 18:19 | 2051-24-3 | |
| **Percent Moisture** | Analytical Method: ASTM D2974-87<br>Pace Analytical Services - Green Bay | | | | | | | | |
| Percent Moisture | **3.2** | % | 0.10 | 0.10 | 1 | | 04/22/24 17:03 | | |

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## ANALYTICAL RESULTS

Project: 581184 PHASE 2 TASK 4 MKC CONC
Pace Project No.: 40277152

**Sample: 2024-3-F** **Lab ID: 40277152006** Collected: 02/28/24 12:12 Received: 04/20/24 10:00 Matrix: Solid

***Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.***

| Parameters | Results | Units | LOQ | LOD | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **8082A GCS PCB** | Analytical Method: EPA 8082A Preparation Method: EPA 3541<br>Pace Analytical Services - Green Bay | | | | | | | | |
| PCB, Total | **616** | ug/kg | 50.7 | 15.4 | 1 | 04/22/24 12:00 | 04/23/24 18:41 | 1336-36-3 | |
| PCB-1016 (Aroclor 1016) | **<15.4** | ug/kg | 50.7 | 15.4 | 1 | 04/22/24 12:00 | 04/23/24 18:41 | 12674-11-2 | |
| PCB-1221 (Aroclor 1221) | **<15.4** | ug/kg | 50.7 | 15.4 | 1 | 04/22/24 12:00 | 04/23/24 18:41 | 11104-28-2 | |
| PCB-1232 (Aroclor 1232) | **<15.4** | ug/kg | 50.7 | 15.4 | 1 | 04/22/24 12:00 | 04/23/24 18:41 | 11141-16-5 | |
| PCB-1242 (Aroclor 1242) | **<15.4** | ug/kg | 50.7 | 15.4 | 1 | 04/22/24 12:00 | 04/23/24 18:41 | 53469-21-9 | |
| PCB-1248 (Aroclor 1248) | **616** | ug/kg | 50.7 | 15.4 | 1 | 04/22/24 12:00 | 04/23/24 18:41 | 12672-29-6 | |
| PCB-1254 (Aroclor 1254) | **<15.4** | ug/kg | 50.7 | 15.4 | 1 | 04/22/24 12:00 | 04/23/24 18:41 | 11097-69-1 | |
| PCB-1260 (Aroclor 1260) | **<15.4** | ug/kg | 50.7 | 15.4 | 1 | 04/22/24 12:00 | 04/23/24 18:41 | 11096-82-5 | |
| ***Surrogates*** | | | | | | | | | |
| Tetrachloro-m-xylene (S) | 82 | % | 44-120 | | 1 | 04/22/24 12:00 | 04/23/24 18:41 | 877-09-8 | |
| Decachlorobiphenyl (S) | 77 | % | 34-120 | | 1 | 04/22/24 12:00 | 04/23/24 18:41 | 2051-24-3 | |
| **Percent Moisture** | Analytical Method: ASTM D2974-87<br>Pace Analytical Services - Green Bay | | | | | | | | |
| Percent Moisture | **1.2** | % | 0.10 | 0.10 | 1 | | 04/22/24 17:03 | | |

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## ANALYTICAL RESULTS

Project: 581184 PHASE 2 TASK 4 MKC CONC
Pace Project No.: 40277152

**Sample: 2024-3-G** **Lab ID: 40277152007** Collected: 02/28/24 12:28 Received: 04/20/24 10:00 Matrix: Solid

***Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.***

| Parameters | Results | Units | LOQ | LOD | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **8082A GCS PCB** | Analytical Method: EPA 8082A Preparation Method: EPA 3541<br>Pace Analytical Services - Green Bay | | | | | | | | |
| PCB, Total | **321** | ug/kg | 51.6 | 15.7 | 1 | 04/22/24 12:00 | 04/23/24 14:46 | 1336-36-3 | |
| PCB-1016 (Aroclor 1016) | **<15.7** | ug/kg | 51.6 | 15.7 | 1 | 04/22/24 12:00 | 04/23/24 14:46 | 12674-11-2 | |
| PCB-1221 (Aroclor 1221) | **<15.7** | ug/kg | 51.6 | 15.7 | 1 | 04/22/24 12:00 | 04/23/24 14:46 | 11104-28-2 | |
| PCB-1232 (Aroclor 1232) | **<15.7** | ug/kg | 51.6 | 15.7 | 1 | 04/22/24 12:00 | 04/23/24 14:46 | 11141-16-5 | |
| PCB-1242 (Aroclor 1242) | **<15.7** | ug/kg | 51.6 | 15.7 | 1 | 04/22/24 12:00 | 04/23/24 14:46 | 53469-21-9 | |
| PCB-1248 (Aroclor 1248) | **238** | ug/kg | 51.6 | 15.7 | 1 | 04/22/24 12:00 | 04/23/24 14:46 | 12672-29-6 | |
| PCB-1254 (Aroclor 1254) | **82.6** | ug/kg | 51.6 | 15.7 | 1 | 04/22/24 12:00 | 04/23/24 14:46 | 11097-69-1 | |
| PCB-1260 (Aroclor 1260) | **<15.7** | ug/kg | 51.6 | 15.7 | 1 | 04/22/24 12:00 | 04/23/24 14:46 | 11096-82-5 | |
| ***Surrogates*** | | | | | | | | | |
| Tetrachloro-m-xylene (S) | 89 | % | 44-120 | | 1 | 04/22/24 12:00 | 04/23/24 14:46 | 877-09-8 | |
| Decachlorobiphenyl (S) | 75 | % | 34-120 | | 1 | 04/22/24 12:00 | 04/23/24 14:46 | 2051-24-3 | |
| **Percent Moisture** | Analytical Method: ASTM D2974-87<br>Pace Analytical Services - Green Bay | | | | | | | | |
| Percent Moisture | **3.0** | % | 0.10 | 0.10 | 1 | | 04/22/24 17:04 | | |

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## ANALYTICAL RESULTS

Project: 581184 PHASE 2 TASK 4 MKC CONC
Pace Project No.: 40277152

**Sample: 2024-3-H** **Lab ID: 40277152008** Collected: 02/28/24 12:35 Received: 04/20/24 10:00 Matrix: Solid

***Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.***

| Parameters | Results | Units | LOQ | LOD | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **8082A GCS PCB** | Analytical Method: EPA 8082A Preparation Method: EPA 3541<br>Pace Analytical Services - Green Bay | | | | | | | | |
| PCB, Total | **650** | ug/kg | 51.2 | 15.6 | 1 | 04/22/24 12:00 | 04/23/24 15:07 | 1336-36-3 | |
| PCB-1016 (Aroclor 1016) | **<15.6** | ug/kg | 51.2 | 15.6 | 1 | 04/22/24 12:00 | 04/23/24 15:07 | 12674-11-2 | |
| PCB-1221 (Aroclor 1221) | **<15.6** | ug/kg | 51.2 | 15.6 | 1 | 04/22/24 12:00 | 04/23/24 15:07 | 11104-28-2 | |
| PCB-1232 (Aroclor 1232) | **<15.6** | ug/kg | 51.2 | 15.6 | 1 | 04/22/24 12:00 | 04/23/24 15:07 | 11141-16-5 | |
| PCB-1242 (Aroclor 1242) | **<15.6** | ug/kg | 51.2 | 15.6 | 1 | 04/22/24 12:00 | 04/23/24 15:07 | 53469-21-9 | |
| PCB-1248 (Aroclor 1248) | **650** | ug/kg | 51.2 | 15.6 | 1 | 04/22/24 12:00 | 04/23/24 15:07 | 12672-29-6 | |
| PCB-1254 (Aroclor 1254) | **<15.6** | ug/kg | 51.2 | 15.6 | 1 | 04/22/24 12:00 | 04/23/24 15:07 | 11097-69-1 | |
| PCB-1260 (Aroclor 1260) | **<15.6** | ug/kg | 51.2 | 15.6 | 1 | 04/22/24 12:00 | 04/23/24 15:07 | 11096-82-5 | |
| ***Surrogates*** | | | | | | | | | |
| Tetrachloro-m-xylene (S) | 88 | % | 44-120 | | 1 | 04/22/24 12:00 | 04/23/24 15:07 | 877-09-8 | |
| Decachlorobiphenyl (S) | 78 | % | 34-120 | | 1 | 04/22/24 12:00 | 04/23/24 15:07 | 2051-24-3 | |
| **Percent Moisture** | Analytical Method: ASTM D2974-87<br>Pace Analytical Services - Green Bay | | | | | | | | |
| Percent Moisture | **2.1** | % | 0.10 | 0.10 | 1 | | 04/22/24 17:04 | | |

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## ANALYTICAL RESULTS

Project: 581184 PHASE 2 TASK 4 MKC CONC
Pace Project No.: 40277152

**Sample: 2024-3-I** **Lab ID: 40277152009** Collected: 02/28/24 12:44 Received: 04/20/24 10:00 Matrix: Solid

***Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.***

| Parameters | Results | Units | LOQ | LOD | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---|---|---|---|---|---|---|---|---|
| **8082A GCS PCB** | Analytical Method: EPA 8082A Preparation Method: EPA 3541<br>Pace Analytical Services - Green Bay | | | | | | | | |
| PCB, Total | **974** | ug/kg | 51.1 | 15.6 | 1 | 04/22/24 12:00 | 04/23/24 15:29 | 1336-36-3 | |
| PCB-1016 (Aroclor 1016) | **<15.6** | ug/kg | 51.1 | 15.6 | 1 | 04/22/24 12:00 | 04/23/24 15:29 | 12674-11-2 | |
| PCB-1221 (Aroclor 1221) | **<15.6** | ug/kg | 51.1 | 15.6 | 1 | 04/22/24 12:00 | 04/23/24 15:29 | 11104-28-2 | |
| PCB-1232 (Aroclor 1232) | **<15.6** | ug/kg | 51.1 | 15.6 | 1 | 04/22/24 12:00 | 04/23/24 15:29 | 11141-16-5 | |
| PCB-1242 (Aroclor 1242) | **<15.6** | ug/kg | 51.1 | 15.6 | 1 | 04/22/24 12:00 | 04/23/24 15:29 | 53469-21-9 | |
| PCB-1248 (Aroclor 1248) | **974** | ug/kg | 51.1 | 15.6 | 1 | 04/22/24 12:00 | 04/23/24 15:29 | 12672-29-6 | |
| PCB-1254 (Aroclor 1254) | **<15.6** | ug/kg | 51.1 | 15.6 | 1 | 04/22/24 12:00 | 04/23/24 15:29 | 11097-69-1 | |
| PCB-1260 (Aroclor 1260) | **<15.6** | ug/kg | 51.1 | 15.6 | 1 | 04/22/24 12:00 | 04/23/24 15:29 | 11096-82-5 | |
| ***Surrogates*** | | | | | | | | | |
| Tetrachloro-m-xylene (S) | 78 | % | 44-120 | | 1 | 04/22/24 12:00 | 04/23/24 15:29 | 877-09-8 | |
| Decachlorobiphenyl (S) | 58 | % | 34-120 | | 1 | 04/22/24 12:00 | 04/23/24 15:29 | 2051-24-3 | |
| **Percent Moisture** | Analytical Method: ASTM D2974-87<br>Pace Analytical Services - Green Bay | | | | | | | | |
| Percent Moisture | **2.3** | % | 0.10 | 0.10 | 1 | | 04/22/24 17:04 | | |

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## QUALITY CONTROL DATA

Project: 581184 PHASE 2 TASK 4 MKC CONC
Pace Project No.: 40277152

QC Batch: 472281
QC Batch Method: EPA 3541
Analysis Method: EPA 8082A
Analysis Description: 8082 GCS PCB
Laboratory: Pace Analytical Services - Green Bay
Associated Lab Samples: 40277152001, 40277152002, 40277152003, 40277152004, 40277152005, 40277152006, 40277152007, 40277152008, 40277152009

METHOD BLANK: 2705158 Matrix: Solid
Associated Lab Samples: 40277152001, 40277152002, 40277152003, 40277152004, 40277152005, 40277152006, 40277152007, 40277152008, 40277152009

| Parameter | Units | Blank Result | Reporting Limit | Analyzed | Qualifiers |
|---|---|---|---|---|---|
| PCB-1016 (Aroclor 1016) | ug/kg | <15.2 | 50.0 | 04/23/24 02:52 | |
| PCB-1221 (Aroclor 1221) | ug/kg | <15.2 | 50.0 | 04/23/24 02:52 | |
| PCB-1232 (Aroclor 1232) | ug/kg | <15.2 | 50.0 | 04/23/24 02:52 | |
| PCB-1242 (Aroclor 1242) | ug/kg | <15.2 | 50.0 | 04/23/24 02:52 | |
| PCB-1248 (Aroclor 1248) | ug/kg | <15.2 | 50.0 | 04/23/24 02:52 | |
| PCB-1254 (Aroclor 1254) | ug/kg | <15.2 | 50.0 | 04/23/24 02:52 | |
| PCB-1260 (Aroclor 1260) | ug/kg | <15.2 | 50.0 | 04/23/24 02:52 | |
| Decachlorobiphenyl (S) | % | 95 | 34-120 | 04/23/24 02:52 | |
| Tetrachloro-m-xylene (S) | % | 93 | 44-120 | 04/23/24 02:52 | |

LABORATORY CONTROL SAMPLE: 2705159

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|---|---|---|---|---|---|---|
| PCB-1016 (Aroclor 1016) | ug/kg | | <15.2 | | | |
| PCB-1221 (Aroclor 1221) | ug/kg | | <15.2 | | | |
| PCB-1232 (Aroclor 1232) | ug/kg | | <15.2 | | | |
| PCB-1242 (Aroclor 1242) | ug/kg | | <15.2 | | | |
| PCB-1248 (Aroclor 1248) | ug/kg | | <15.2 | | | |
| PCB-1254 (Aroclor 1254) | ug/kg | | <15.2 | | | |
| PCB-1260 (Aroclor 1260) | ug/kg | 500 | 503 | 101 | 69-120 | |
| Decachlorobiphenyl (S) | % | | | 99 | 34-120 | |
| Tetrachloro-m-xylene (S) | % | | | 93 | 44-120 | |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2705160 2705161

| Parameter | Units | 40277160001 Result | MS Spike Conc. | MSD Spike Conc. | MS Result | MSD Result | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| PCB-1016 (Aroclor 1016) | ug/kg | <0.054 mg/kg | | | <16.4 | <16.4 | | | | | 20 | |
| PCB-1221 (Aroclor 1221) | ug/kg | <0.054 mg/kg | | | <16.4 | <16.4 | | | | | 20 | |
| PCB-1232 (Aroclor 1232) | ug/kg | <0.054 mg/kg | | | <16.4 | <16.4 | | | | | 20 | |
| PCB-1242 (Aroclor 1242) | ug/kg | <0.054 mg/kg | | | <16.4 | <16.4 | | | | | 20 | |
| PCB-1248 (Aroclor 1248) | ug/kg | <0.054 mg/kg | | | <16.4 | <16.4 | | | | | 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.**

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## QUALITY CONTROL DATA

Project: 581184 PHASE 2 TASK 4 MKC CONC
Pace Project No.: 40277152

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2705160 2705161

| Parameter | Units | 40277160001 Result | MS Spike Conc. | MSD Spike Conc. | MS Result | MSD Result | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD | Qual |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| PCB-1254 (Aroclor 1254) | ug/kg | <0.054 mg/kg | | | <16.4 | <16.4 | | | | | 20 | |
| PCB-1260 (Aroclor 1260) | ug/kg | <0.054 mg/kg | 537 | 538 | 391 | 407 | 73 | 76 | 51-120 | 4 | 20 | |
| Decachlorobiphenyl (S) | % | | | | | | 74 | 75 | 34-120 | | | |
| Tetrachloro-m-xylene (S) | % | | | | | | 90 | 94 | 44-120 | | | |

**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: 581184 PHASE 2 TASK 4 MKC CONC
Pace Project No.: 40277152

QC Batch: 472361
QC Batch Method: ASTM D2974-87
Analysis Method: ASTM D2974-87
Analysis Description: Dry Weight/Percent Moisture
Laboratory: Pace Analytical Services - Green Bay
Associated Lab Samples: 40277152001, 40277152002, 40277152003, 40277152004, 40277152005, 40277152006, 40277152007, 40277152008, 40277152009

SAMPLE DUPLICATE: 2705450

| Parameter | Units | 40277131013 Result | Dup Result | RPD | Max RPD | Qualifiers |
|---|---|---|---|---|---|---|
| Percent Moisture | % | 23.6 | 23.4 | 1 | 10 | |

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# QUALIFIERS

Project: 581184 PHASE 2 TASK 4 MKC CONC
Pace Project No.: 40277152

**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 - The reported result is an estimated value.

LOD - Limit of Detection adjusted for dilution factor, percent moisture, initial weight and final volume.

LOQ - Limit of Quantitation adjusted for dilution factor, percent moisture, initial weight and final volume.

DL - Adjusted Method Detection Limit.

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 - Analyte was not detected and is reported as less than the LOD or as defined by the customer.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.



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## QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 581184 PHASE 2 TASK 4 MKC CONC
Pace Project No.: 40277152

| Lab ID | Sample ID | QC Batch Method | QC Batch | Analytical Method | Analytical Batch |
|---|---|---|---|---|---|
| **40277152001** | **2024-3-A** | EPA 3541 | 472281 | EPA 8082A | 472295 |
| **40277152002** | **2024-3-B** | EPA 3541 | 472281 | EPA 8082A | 472295 |
| **40277152003** | **2024-3-C** | EPA 3541 | 472281 | EPA 8082A | 472295 |
| **40277152004** | **2024-3-D** | EPA 3541 | 472281 | EPA 8082A | 472295 |
| **40277152005** | **2024-3-E** | EPA 3541 | 472281 | EPA 8082A | 472295 |
| **40277152006** | **2024-3-F** | EPA 3541 | 472281 | EPA 8082A | 472295 |
| **40277152007** | **2024-3-G** | EPA 3541 | 472281 | EPA 8082A | 472295 |
| **40277152008** | **2024-3-H** | EPA 3541 | 472281 | EPA 8082A | 472295 |
| **40277152009** | **2024-3-I** | EPA 3541 | 472281 | EPA 8082A | 472295 |
| **40277152001** | **2024-3-A** | ASTM D2974-87 | 472361 | | |
| **40277152002** | **2024-3-B** | ASTM D2974-87 | 472361 | | |
| **40277152003** | **2024-3-C** | ASTM D2974-87 | 472361 | | |
| **40277152004** | **2024-3-D** | ASTM D2974-87 | 472361 | | |
| **40277152005** | **2024-3-E** | ASTM D2974-87 | 472361 | | |
| **40277152006** | **2024-3-F** | ASTM D2974-87 | 472361 | | |
| **40277152007** | **2024-3-G** | ASTM D2974-87 | 472361 | | |
| **40277152008** | **2024-3-H** | ASTM D2974-87 | 472361 | | |
| **40277152009** | **2024-3-I** | ASTM D2974-87 | 472361 | | |



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# CHAIN-OF-CUSTODY / Analytical Request Document

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

Page: 1 of 1

| Section A Required Client Information | | Section B Required Project Information | | Section C Invoice Information | |
|---|---|---|---|---|---|
| Company | TRC | Report To | Katherine Vater, kvater@trccompanies.com | Attention | Katherine Vater |
| Address | 999 Fourier Dr , Suite 101 | Copy To | Andy Stehn, astehn@trccompanies.com | Company Name | TRC |
| | Madison, WI 53717 | | Ben Wachholz, bwachholz@trccompanies.com | Address | 999 Fourier Drive, Suite 101 |
| Email To | astehn@trccompanies.com | Purchase Order No | | Pace Quote Reference | |
| Phone | 608-807-8112 Fax | Project Name | MKC Concrete Sampling | Pace Project Manager | Tod Noltemeyer |
| Requested Due Date/TAT: | 4/22/2024 | Project Number | 581184 Phase 2 Task 4 | Pace Profile # | |

REGULATORY AGENCY: ☐ NPDES ☐ GROUNDWATER ☐ DRINKING WATER ☐ UST ☐ RCRA ☐ OTHER

Site Location STATE: WI

Valid Matrix Codes: DRINKING WATER DW, WATER WT, WASTE WATER WW, PRODUCT P, SOIL/SOLID SL, OIL OL, WIPE WP, AIR AR, OTHER OT, TISSUE TS

| ITEM # | Section D Required Client Information: SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE | MATRIX CODE (see valid codes to left) | SAMPLE TYPE (G=GRAB C=COMP) | COLLECTED: COMPOSITE START DATE | COMPOSITE START TIME | COMPOSITE END/GRAB DATE | COMPOSITE END/GRAB TIME | SAMPLE TEMP AT COLLECTION | # OF CONTAINERS | Preservatives: Unpreserved | $H_2SO_4$ | $HNO_3$ | HCl | NaOH | $Na_2S_2O_3$ | Methanol | Other | Y/N | Analysis Test ↓ PCBs (8082) | Residual Chlorine (Y/N) | Pace Project No./ Lab I.D. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 2024-3-A | OT | G | | | 02/28/24 | 11:37 | | 1 | X | | | | | | | | | X | N | |
| 2 | 2024-3-B | OT | G | | | 02/28/24 | 11:47 | | 1 | X | | | | | | | | | X | N | |
| 3 | 2024-3-C | OT | G | | | 02/28/24 | 11:50 | | 1 | X | | | | | | | | | X | N | |
| 4 | 2024-3-D | OT | G | | | 02/28/24 | 12:02 | | 1 | X | | | | | | | | | X | N | |
| 5 | 2024-3-E | OT | G | | | 02/28/24 | 12:22 | | 2 | X | | | | | | | | | X | N | |
| 6 | 2024-3-F | OT | G | | | 02/28/24 | 12:12 | | 1 | X | | | | | | | | | X | N | |
| 7 | 2024-3-G | OT | G | | | 02/28/24 | 12:28 | | 1 | X | | | | | | | | | X | N | |
| 8 | 2024-3-H | OT | G | | | 02/28/24 | 12:35 | | 1 | X | | | | | | | | | X | N | |
| 9 | 2024-3-I | OT | G | | | 02/28/24 | 12:44 | | 1 | X | | | | | | | | | X | N | |
| 10 | | | | | | | | | | | | | | | | | | | | | |
| 11 | | | | | | | | | | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | | | | | | | | | | |
| 13 | | | | | | | | | | | | | | | | | | | | | |
| 14 | | | | | | | | | | | | | | | | | | | | | |
| 15 | | | | | | | | | | | | | | | | | | | | | |
| 16 | | | | | | | | | | | | | | | | | | | | | |
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| 21 | | | | | | | | | | | | | | | | | | | | | |
| 22 | | | | | | | | | | | | | | | | | | | | | |
| 23 | | | | | | | | | | | | | | | | | | | | | |
| 24 | | | | | | | | | | | | | | | | | | | | | |

| ADDITIONAL COMMENTS | RELINQUISHED BY / AFFILIATION | DATE | TIME | ACCEPTED BY / AFFILIATION | DATE | TIME | SAMPLE CONDITIONS: Temp in °C | Received on Ice (Y/N) | Custody Sealed Cooler (Y/N) | Samples Intact (Y/N) |
|---|---|---|---|---|---|---|---|---|---|---|
| | Ben Wachholz (TRC) | 4/19/24 | 17:15 | | | | | | | |
| | Fedex | 4/20/24 | 1000 | Space | 4/20/24 | 1000 | 1.0 | Y | N | Y |
| | | | | | | | | | | |
| | | | | | | | | | | |

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Ben Wachholz

SIGNATURE of SAMPLER: Ben Wachholz

DATE Signed (MM/DD/YY): 4/19/24

# Sample Preservation Receipt Form

Client Name: TRC  Project # 40277152

All containers needing preservation have been checked and noted below: ☐Yes ☐No ☒N/A  Initial when completed:  Date/ Time.

Lab Lot# of pH paper:  Lab Std #ID of preservation (if pH adjusted):

| Pace Lab # | Glass | | | | | | | Plastic | | | | | | Vials | | | | | | Jars | | | | General | | | | VOA Vials (>6mm) * | H2SO4 pH ≤2 | NaOH+Zn Act pH ≥9 | NaOH pH ≥12 | HNO3 pH ≤2 | pH after adjusted | Volume (mL) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | AG1U | BG1U | AG1H | AG4S | AG5U | AG2S | BG3U | BP1U | BP3U | BP3B | BP3N | BP3S | BP2Z | VG9C | DG9T | VG9U | VG9H | VG9M | VG9D | JGFU | JG9U | WGFU | WPFU | SP5T | ZPLC | GN 1 | GN 2 | | | | | | | |
| 001 | | | | | | | | | | | | | | | | | | | | 1 | | | | | | | | | | | | | | 2.5 / 5 |
| 002 | | | | | | | | | | | | | | | | | | | | 1 | | | | | | | | | | | | | | 2.5 / 5 |
| 003 | | | | | | | | | | | | | | | | | | | | 1 | | | | | | | | | | | | | | 2.5 / 5 |
| 004 | | | | | | | | | | | | | | | | | | | | 1 | | | | | | | | | | | | | | 2.5 / 5 |
| 005 | | | | | | | | | | | | | | | | | | | | 2 | | | | | | | | | | | | | | 2.5 / 5 |
| 006 | | | | | | | | | | | | | | | | | | | | 1 | | | | | | | | | | | | | | 2.5 / 5 |
| 007 | | | | | | | | | | | | | | | | | | | | 1 | | | | | | | | | | | | | | 2.5 / 5 |
| 008 | | | | | | | | | | | | | | | | | | | | 1 | | | | | | | | | | | | | | 2.5 / 5 |
| 009 | | | | | | | | | | | | | | | | | | | | 1 | | | | | | | | | | | | | | 2.5 / 5 |
| 010 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 2.5 / 5 |
| 011 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 2.5 / 5 |
| 012 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 2.5 / 5 |
| 013 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 2.5 / 5 |
| 014 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 2.5 / 5 |
| 015 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 2.5 / 5 |
| 016 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 2.5 / 5 |
| 017 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 2.5 / 5 |
| 018 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 2.5 / 5 |
| 019 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 2.5 / 5 |
| 020 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 2.5 / 5 |

4/20/24 86

Exceptions to preservation check. VOA, Coliform, TOC, TOX, TOH, O&G, WI DRO, Phenolics, Other: _____  Headspace in VOA Vials (>6mm) : ☐Yes ☐No ☒N/A  ***If yes look in headspace column**

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| AG1U | 1 liter amber glass | BP1U | 1 liter plastic unpres | VG9C | 40 mL clear ascorbic w/ HCl | JGFU | 4 oz amber jar unpres |
| BG1U | 1 liter clear glass | BP3U | 250 mL plastic unpres | DG9T | 40 mL amber Na Thio | JG9U | 9 oz amber jar unpres |
| AG1H | 1 liter amber glass HCL | BP3B | 250 mL plastic NaOH | VG9U | 40 mL clear vial unpres | WGFU | 4 oz clear jar unpres |
| AG4S | 125 mL amber glass H2SO4 | BP3N | 250 mL plastic HNO3 | VG9H | 40 mL clear vial HCL | WPFU | 4 oz plastic jar unpres |
| AG5U | 100 mL amber glass unpres | BP3S | 250 mL plastic H2SO4 | VG9M | 40 mL clear vial MeOH | SP5T | 120 mL plastic Na Thiosulfate |
| AG2S | 500 mL amber glass H2SO4 | BP2Z | 500 mL plastic NaOH + Zn | VG9D | 40 mL clear vial DI | ZPLC | ziploc bag |
| BG3U | 250 mL clear glass unpres | | | | | GN 1 | |
| | | | | | | GN 2 | |

# Sample Condition Upon Receipt Form (SCUR)

Project #:

WO# : 40277152

40277152

**Client Name:** TRC

**Courier:** ☐ CS Logistics ☑ Fed Ex ☐ Speedee ☐ UPS ☐ Waltco ☐ Client ☐ Pace Other: _____

**Tracking #:** 7760 3712 1517

**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 - 139 **Type of Ice:** Wet Blue Dry None ☐ Meltwater Only

**Cooler Temperature** Uncorr: 1.0 /Corr: 1.0

**Temp Blank Present:** ☑ yes ☐ no **Biological Tissue is Frozen:** ☐ yes ☐ no

Temp should be above freezing to 6°C.
Biota Samples may be received at ≤ 0°C if shipped on Dry Ice.

**Person examining contents:**
Date: 4/20/24 /Initials: SG

**Labeled By Initials:** MP

| | | |
|---|---|---|
| Chain of Custody Present: | ☑Yes ☐No ☐N/A | 1. |
| Chain of Custody Filled Out: | ☑Yes ☐No ☐N/A | 2. |
| Chain of Custody Relinquished: | ☑Yes ☐No ☐N/A | 3. |
| Sampler Name & Signature on COC: | ☑Yes ☐No ☐N/A | 4. |
| Samples Arrived within Hold Time: | ☑Yes ☐No | 5. |
| - DI VOA Samples frozen upon receipt | ☐Yes ☐No | Date/Time: |
| **Short Hold Time Analysis (<72hr):** | ☐Yes ☑No | 6. |
| **Rush Turn Around Time Requested:** | ☑Yes ☐No | 7. |
| Sufficient Volume: For Analysis: ☑Yes ☐No MS/MSD: ☐Yes ☑No ☐N/A | | 8. |
| Correct Containers Used: | ☑Yes ☐No | 9. |
| Correct Type: Pace Green Bay, Pace IR, Non-Pace | | |
| Containers Intact: | ☑Yes ☐No | 10. |
| Filtered volume received for Dissolved tests | ☐Yes ☐No ☑N/A | 11. |
| Sample Labels match COC: | ☑Yes ☐No ☐N/A | 12. |
| -Includes date/time/ID/Analysis Matrix: SL | | |
| Trip Blank Present: | ☐Yes ☐No ☑N/A | 13. |
| Trip Blank Custody Seals Present | ☐Yes ☐No ☑N/A | |
| Pace Trip Blank Lot # (if purchased): _____ | | |

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

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

**PM Review is documented electronically in LIMs. By releasing the project, the PM acknowledges they have reviewed the sample logi**

# Appendix D:  Photographic Log

# Photographic Log

| Client Name: | Site Location: | Project No.: |
|---|---|---|
| Madison-Kipp Corporation (MKC) | 201 Waubesa Street<br>Madison, WI 53704 | 581184.0003.00000 |

| Photo No. | Date |
|---|---|
| 1 | 02/20/2024 |

**Description**
Concrete in Area 2024-3 in MKC's facility prior to waste characterization sampling and removal.

| Photo No. | Date |
|---|---|
| 2 | 02/28/2024 |

**Description**
Concrete drilling and waste characterization sampling activities taking place in Area 2024-3 in MKC's facility prior to removal.

# Photographic Log

| Client Name: | Site Location: | Project No.: |
|---|---|---|
| Madison-Kipp Corporation (MKC) | 201 Waubesa Street<br>Madison, WI 53704 | 581184.0003.00000 |

| Photo No. | Date |
|---|---|
| 3 | 04/05/2024 |

**Description**
Area 2024-3 following concrete replacement in MKC facility.

| Photo No. | Date |
|---|---|
| 4 | 04/05/2024 |

**Description**
Unloading area located at the top of the stockpile at the recycling facility. Orange drums were used to block off the eastern portion of the pile where MKC-concrete was placed.

# Photographic Log

| Client Name: | Site Location: | Project No.: |
|---|---|---|
| Madison-Kipp Corporation (MKC) | 201 Waubesa Street<br>Madison, WI 53704 | 581184.0003.00000 |

| Photo No. | Date |
|---|---|
| 5 | 04/05/2024 |

**Description**
Front of concrete stockpile where at the recycling facility.

| Photo No. | Date |
|---|---|
| 6 | 04/05/2024 |

**Description**
View from top of stockpile that contains MKC's concrete at recycling facility.

# Photographic Log

| Client Name: | Site Location: | Project No.: |
|---|---|---|
| Madison-Kipp Corporation (MKC) | 201 Waubesa Street<br>Madison, WI 53704 | 581184.0003.00000 |

| Photo No. | Date |
|---|---|
| 7 | 09/05/2024 |

**Description**
Front of concrete stockpile at the recycling facility.

| Photo No. | Date |
|---|---|
| 8 | 09/05/2024 |

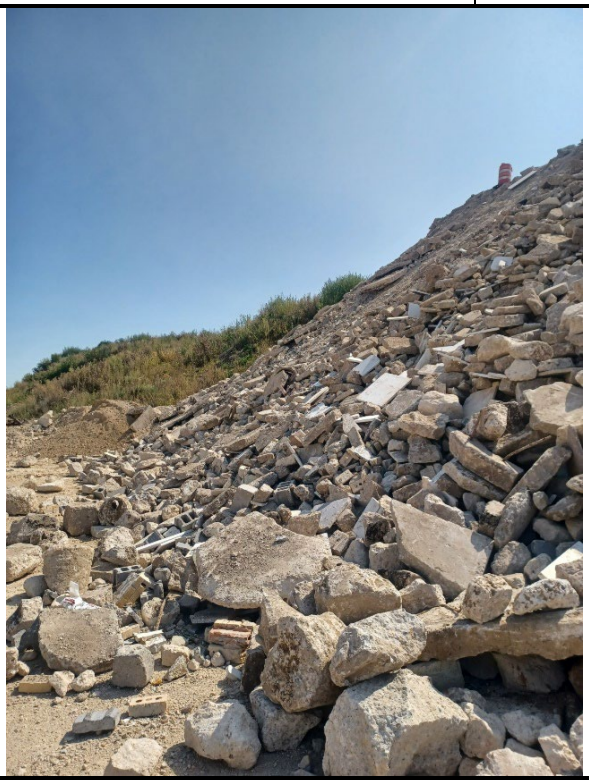
**Description**
View from top of stockpile that contains MKC's concrete at recycling facility.

# Photographic Log

| Client Name: | Site Location: | Project No.: |
|---|---|---|
| Madison-Kipp Corporation (MKC) | 201 Waubesa Street<br>Madison, WI 53704 | 581184.0003.00000 |

| Photo No. | Date |
|---|---|
| 9 | 09/09/2024 |

**Description**
Profile view of stockpile containing MKC's concrete at recycling facility.



| Photo No. | Date |
|---|---|
| 10 | 09/09/2024 |

**Description**
Pan out view of the front of the stockpile containing MKC's concrete recycling facility. Orange drum represents the outer edge of the eastern portion where MKC concrete was placed.