

From: Kevin Hedinger <Kevin.Hedinger@gza.com>
Sent: Thursday, May 18, 2023 8:05 AM
To: Michalets, Linda M - DNR; Martinez, Joseph J - DNR; Norman, Michele R - DNR
Cc: Don Gallo; ethanj@milwaukeeplating.com; ahm@milwaukeeplating.com; James Drought
Subject: RE: Existing Air Sample Results Evaluation and Proposed Air Sampling Plan, Milwaukee Plating, BRRTS No. 02-41-000826

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Linda:

I spoke with George Beyer, trustee for the 1422 Building, this morning and discussed gaining access to deploy the indoor air samplers. He said that the best time for him to provide access to deploy the indoor air samplers is after Memorial Day. Based on his availability, and in an effort to provide the Department with a schedule, GZA will plan to deploy the indoor air samplers on May 30 for a 7-day period with collection of the samplers on June 6.

The outdoor air and indoor air samples at Milwaukee Plating will also be deployed and collected at the same time.

On May 30, GZA will also inquire and investigate to determine the possible connection of the vent on the north side of the 1422 Building to the indoor air.

GZA will collect the air samplers on June 6 and submit them to Eurofins on June 7. The laboratory turn-around time for analysis is typically 10 business days. Assuming 10 business days, GZA anticipates receipt of the analytical results on or about June 22. GZA will prepare a summary table of the results and provide a copy of the results to the WDNR on or about July 1.

This schedule assumes there are no delays in access to deploy and collect the samplers and that the laboratory can provide the results in accordance with their typical turn-around time.

Please let me know if you have any questions regarding this schedule.

Thanks!

Kevin M. Hedinger
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From: Michalets, Linda M - DNR <Linda.Michalets@wisconsin.gov>
Sent: Thursday, May 11, 2023 12:36 PM
To: Kevin Hedinger <Kevin.Hedinger@gza.com>; Martinez, Joseph J - DNR <Joseph.Martinez@wisconsin.gov>; Norman, Michele R - DNR <Michele.Norman@wisconsin.gov>
Cc: Don Gallo <don.gallo@dgallolaw.com>; ethanj@milwaukeeplating.com; ahm@milwaukeeplating.com; James Drought <James.Drought@gza.com>
Subject: [EXTERNAL] RE: Existing Air Sample Results Evaluation and Proposed Air Sampling Plan, Milwaukee Plating, BRRS No. 02-41-000826

Hello Kevin,
Thank you for providing that information. We would also like you to send a schedule for completing the proposed activities, with approximate dates.
Thanks,
Linda

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Visit our survey at <http://dnr.wi.gov/customersurvey> to evaluate how I did.

Linda Michalets

she/her/hers

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From: Kevin Hedinger <Kevin.Hedinger@gza.com>
Sent: Tuesday, May 09, 2023 5:28 PM
To: Michalets, Linda M - DNR <Linda.Michalets@wisconsin.gov>; Martinez, Joseph J - DNR <Joseph.Martinez@wisconsin.gov>; Norman, Michele R - DNR <Michele.Norman@wisconsin.gov>
Cc: Don Gallo <don.gallo@dgallolaw.com>; ethanj@milwaukeeplating.com; ahm@milwaukeeplating.com; James Drought <James.Drought@gza.com>
Subject: Existing Air Sample Results Evaluation and Proposed Air Sampling Plan, Milwaukee Plating, BRRS No. 02-41-000826

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Linda/ Michele/ Joe:

Thank you for your time on April 27, 2023, to meet and discuss the Milwaukee Plating project. At our meeting we indicated that Milwaukee Plating had completed the repair of the vapor degreaser cooling coil on March 16, 2023 and the maintenance contractor indicated that the degreaser was operating properly. In addition, GZA indicated that confirmation sampling in the 1422 Building was the next step

to confirm the effectiveness of the vapor degreaser repair to mitigate the vapors in the indoor air in the 1422 Building.

GZA understands that the Department is requesting that the activities completed to date be documented in a report that is submitted for review. During the meeting, Mr. Don Gallo requested that the Timeline of Events presented for the meeting be accepted as a status update and that the confirmatory air sampling be performed prior to submittal of a report. It is our understanding that this approach is acceptable to the Department.

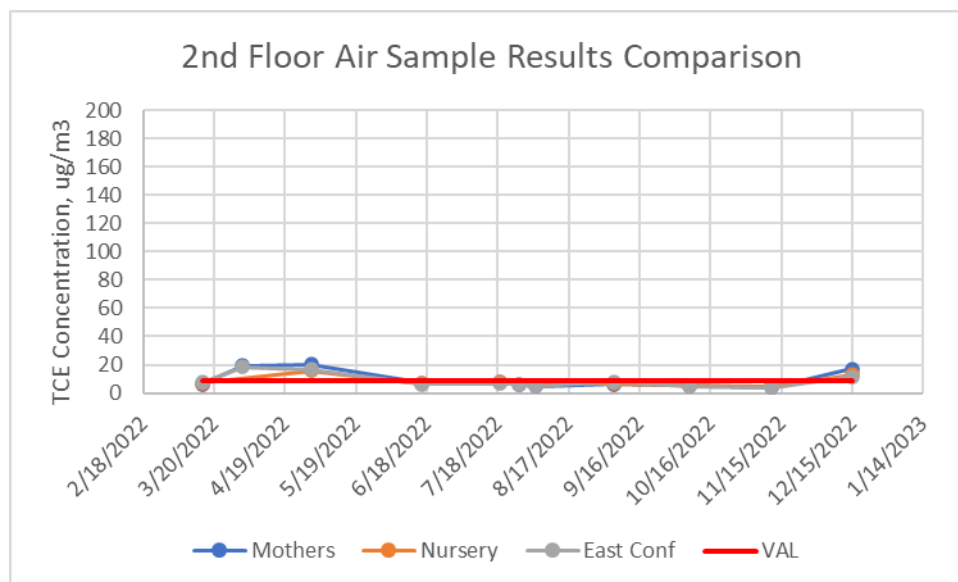
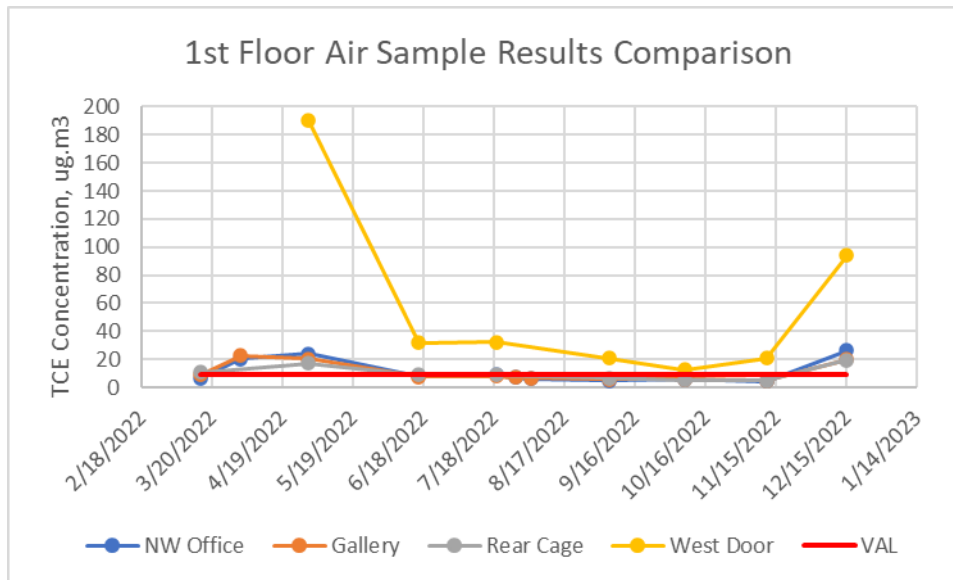
During the meeting I indicated that I would provide the Department with an electronic mail message with the proposed scope of work as it relates to the confirmatory air sampling for Milwaukee Plating, the south alley between the buildings, and the 1422 Building. The scope of work with the air sample locations is provided below.

EXISTING AIR SAMPLE RESULTS EVALUATION

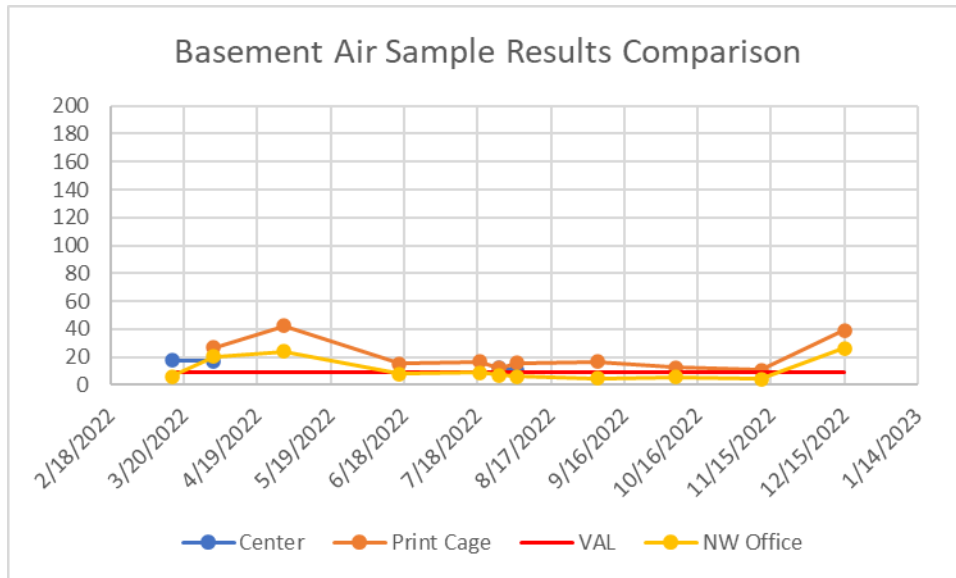
For the 1422 Building, the Department of Health Services and owner have been submitting indoor air samples for laboratory analysis of VOCs from various locations with the 1422 Building on each floor of the building. The most recent indoor air sampling data the GZA has reviewed is from March through December 2022 and is a table of only the TCE air concentrations, no other VOCs are provided. The sample locations include two samples in the basement, four samples on the 1st floor, and three samples on the 2nd floor.

The highest TCE concentration measured in the indoor air is consistently in the sample labeled as on the 1st floor as West Stair Exit Door. Based on a review of the data presented below it appears that a primary point of entry is at or near the West Stair Exit Door. The West Stair Exit Door is the door that GZA identified during our meeting that is across the alley from the exhaust fans that were identified in the south wall of the Milwaukee Plating building. This sample location is inside the stairwell of the 1422 Building. When GZA visited the inside of the 1422 Building in October 2022 it was noted that this stairwell is separated from the rest of the first floor by a walk door that was closed at the time, and is likely left closed most of the time, and at the base of the stairwell in the basement there is also a door.

GZA has reviewed the indoor air sample results for the 1422 Building and notes that the TCE concentrations in the samples on the 1st and 2nd floors are approximately the same for each sample location with the exception of the sample from the West Stair Exit Door. The TCE concentration in most of the samples from the 1st and 2nd floors range from 5 to 20 $\mu\text{g}/\text{m}^3$ but the West Stair Exit Door ranges from 12 to 190 $\mu\text{g}/\text{m}^3$. The consistently lower TCE concentrations detected on the 1st and 2nd floors is an indication that the concentrations may be the result of indoor air mixing due to the HVAC system. The concentration of the samples from the 1st and 2nd floors are shown on the graph below.



The TCE concentrations in the basement air samples are consistently only slightly greater than the 1st and 2nd floors, except for the West Stair Exit Door. The basement concentrations may be affected by the connection of the stairwell by the West Stair Exit Door to basement. The concentrations in the basement are significantly less than the West Stair Exit Door sample indicating that the concentration may be a result of indoor air mixing.



PROPOSED SAMPLING PLAN

Based on the results of the air sample data review presented above, GZA proposes to collect air samples at the following locations inside the 1422 Building.

- Two samples from each of the basement in similar locations to the previous samples with one sample from each end of the building
- Two samples from the 1st Floor in similar locations to the previous samples with one samples from each end of the building
- Two samples from the 2nd Floor in similar locations to the previous samples with one samples from each end of the building
- One sample from near the West Stair Exit Door in a similar location to the previous sample

In addition, GZA proposes to collect samples from the following locations in the alley and inside the Milwaukee Plating Building:

- One sample from the alley between the Milwaukee Plating and 1422 Building across from the exhaust fans in the south wall of the Milwaukee Plating building;
- One sample from inside the Milwaukee Plating building within the plating room that is adjacent to the vapor degreaser room and is the suspect route of air flow through the Milwaukee Plating building; and
- One sample from inside the vapor degreaser room.

GZA proposes to collect the 10 air samples identified above using passive air samplers over a 7-day. The samplers will be retrieved after 7 days and shipped to the laboratory for analysis of VOCs by EPA Method 325. The actual sampling will be performed once access to the 1422 Building can be arranged with the owner. The laboratory generally requires 10 business days for planning purposes for receipt of the sample results. Upon receipt, the air sample results will be summarized on a table and a map showing the locations will be prepared. This information will be provided to the WDNR within 10 days of receipt and QA/QC review.

There is a vent in the north side of the 1422 Building that was identified during the meeting by GZA. GZA will inquire to the property owner about the vent and its purpose. GZA will attempt to determine if the outside vent could be a route of entry for vapors.

If you have any questions about the information presented above or the proposed air sampling plan, please feel free to contact me at your convenience.

Thanks!

Kevin M. Hedinger

Senior Project Manager/ Hydrogeologist

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