



Groundwater & Environmental Services, Inc.

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Amherst, NY 14226

T. 800.287.7857

April 15, 2024

Ms. Megan Kuczka  
Environmental Program Specialist 1  
NYSDEC Division of Environmental Remediation  
700 Delaware Avenue  
Buffalo, New York 14209

**RE: Summary Report: September 2023 Sub-Slab and  
Indoor Air Investigation – Revised April 15, 2024  
Buckeye Buffalo Terminal (BETBO)  
625 Elk Street, Buffalo, New York 14210**

Dear Ms. Kuczka:

Groundwater & Environmental Services, Inc., (GES) conducted a sub-slab and indoor air investigation, on behalf of Buckeye Terminals, LLC (Buckeye), at the Buckeye Buffalo Terminal on September 14, 2023. The sub-slab and indoor air sampling activities were conducted at three (3) paired locations (i.e., “Office”, “Bathroom” and “Driver’s Bathroom”). A site map showing the interior layout of the office building with respect to the paired sample locations is provided as **Figure 1** in **Attachment A**. The laboratory analytical data results are presented in **Table 1** and **Table 2** provided in **Attachment B**. The laboratory analytical report is included as **Attachment C** and the Data Usability Summary Report (DUSR) provided in **Attachment D**.

Due to low vacuum readings on three (3) of the laboratory-provided summa cannisters, GES was not able to collect vapor samples from the paired outdoor vapor point location or collect a duplicate sample. A duplicate sample and the outdoor vapor point location were incorporated in the First Quarter 2024 sub-slab and indoor air sampling event completed in February 2024.

The originally proposed indoor paired vapor sampling location in the “Lockers and Changing Benches Area” was not installed in September 2023, and moved to an area just north of the “Driver’s Bathroom” (see **Figure 1**). This sample location adjustment was made to collect a paired indoor vapor sample located closer to the “Driver’s Bathroom” due to odors noted by the Buckeye staff in the area of the “Driver’s Bathroom”. The sub-slab sample locations “Bathroom” and “Office” were in good condition with no

visible staining or cracks observed in the flooring. The sub-slab sample location north of the “Driver’s Bathroom” was located in a concrete floor with a visible crack located approximately one (1) foot north of the sub-slab sample location. No leaks or deficiencies were noted during the Helium tracer testing conducted at all three (3) sub-slab sample locations. The approximate locations of the floor drains present inside the office building are shown in **Figure 1**. The sub-slab seal testing, sub-slab and indoor air screening and summa canister data are summarized in **Table 3** provided in **Attachment B**. A photographic log of the product inventory observed inside the office building is provided in **Attachment E**.

The September 2023 sub-slab and indoor air analytical results were compared to the New York State Department of Health (NYSDOH) Soil Vapor/Air Matrices A, B, C, D, E, and F, which are summarized in **Table 4** through **Table 9** provided in **Attachment B**. Based on the indoor and sub-slab vapor analytical data comparison to each of the six (6) matrices, it was determined that no further action was required for any of the locations sampled in September 2023.

In accordance with the United States Environmental Protection Agency (USEPA), the September 2023 sub-slab vapor analytical data was compared to the USEPA’s Sub-Slab and Near-Source Soil Gas Vapor Intrusion Screening Levels (VISL) and to Occupational Safety and Health Administration (OSHA) Permissible Exposure Limits (PEL). The data was not compared to the NYSDOH’s ambient screening levels as these were sub-slab samples and not associated with ambient air samples. The September 2023 sub-slab and indoor air exceedances are noted in **Table 1** and **Table 2** and presented on **Figure 2**.

In accordance with the Department’s guidance, a second sub-slab and indoor air sampling event was conducted by GES at the Buckeye office building in February 2024. An additional pair sub-slab and indoor air sample location was installed and sampled in the “Lockers and Changing Benches Area” in February 2024. The results of the February 2024 sub-slab and indoor air sampling event will be summarized and submitted to the Department following the review and evaluation of the data by Buckeye and GES.



Please let us know if you have any questions regarding the contents of this revised summary report.

Sincerely,  
Groundwater & Environmental Services, Inc.

A handwritten signature in black ink that reads 'Robert N. Sickler'.

Robert N. Sickler, P.G.  
Senior Project Manager

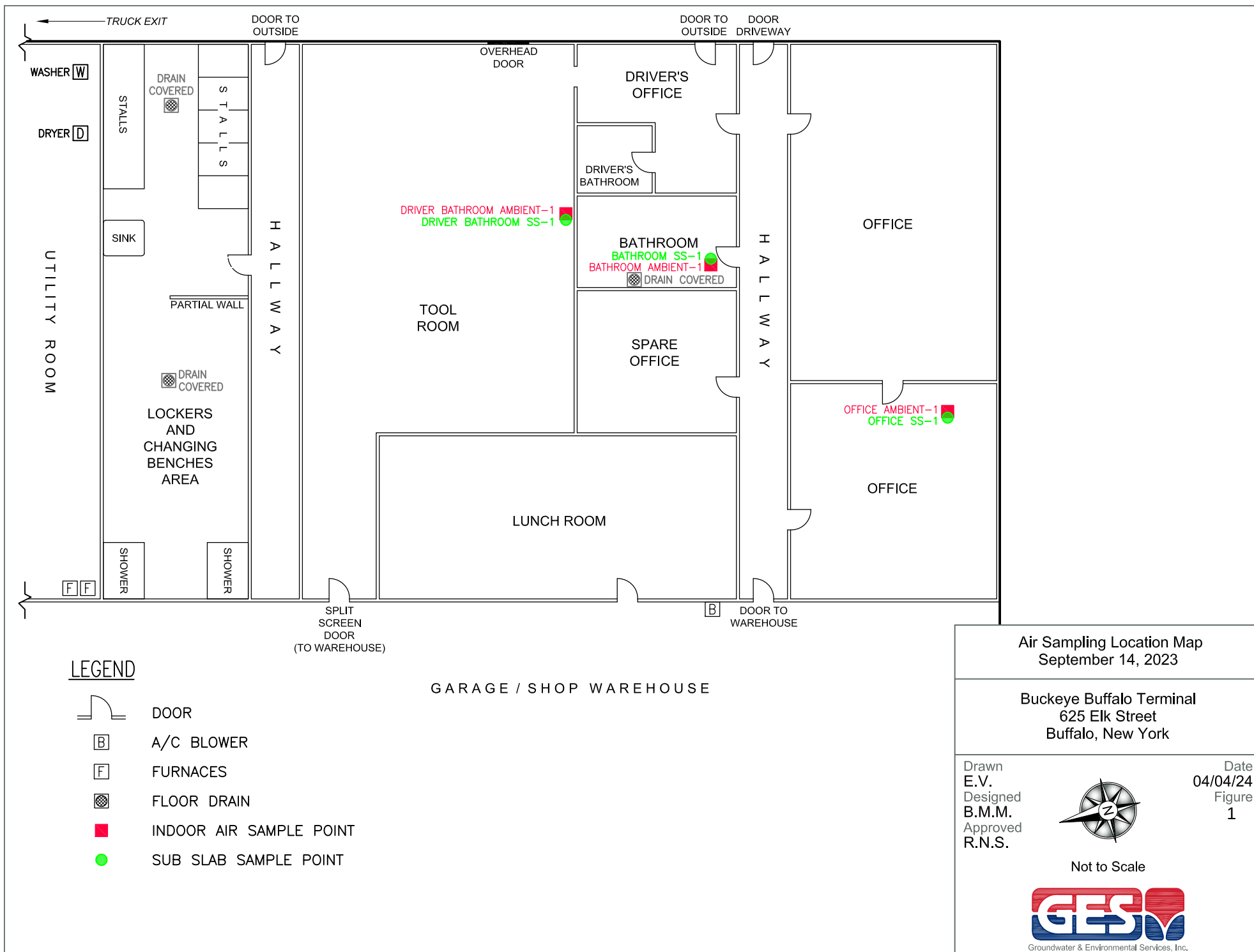
- Attachment A – Figures
- Attachment B – Tables
- Attachment C – Laboratory Analytical Report
- Attachment D – Data Usability Summary Report
- Attachment E – Product Inventory Photographic Log

cc: Krista Manley, Buckeye (via electronic mail)



## Attachment A – Figures

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| Office Ambient- 1 |      |
|-------------------|------|
| Naphthalene       | 0.37 |

### LEGEND

-  DOOR  
 A/C BLOWER  
 FURNACES  
 FLOOR DRAIN  
 SAMPLE POINT

GARAGE / SHOP WAREHOUSE

NOTES:

INDOOR AIR SAMPLES COLLECTED AT SAME  
RESPECTIVE SUB-SLAB (SS) POINT.

ALL DATA PRESENTED IN MICROGRAMS PER CUBIC METER ( $\mu\text{g}/\text{m}^3$ ).

Sub-slab and Indoor Air Data Map Showing  
Regulatory Exceedances  
September 14, 2023

Buckeye Buffalo Terminal  
625 Elk Street  
Buffalo, New York

Drawn  
E.V.  
Designed  
B.M.M.  
Approved  
R.N.S.



Not to Scale

Date  
03/15/24  
Figure  
2 |



Groundwater &amp; Environmental Services, Inc.



## Attachment B – Tables

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**Table 1**  
**Indoor Air Analytical Summary**  
**Method TO-15**  
**September 14, 2023**

| Sample ID              |                                                    | U.S. EPA<br>Target<br>Indoor Air<br>Concentration <sup>(1)</sup><br>(µg/m <sup>3</sup> ) | OSHA PEL Limits<br>8-hour Time<br>Weighted Average<br>(TWA)<br>(µg/m <sup>3</sup> ) | OSHA PEL Limits<br>Acceptable<br>Ceiling Limit<br>(µg/m <sup>3</sup> ) | Office<br>Ambient -1 | Bathroom<br>Ambient -1 | Driver Bathroom<br>Ambient -1      |
|------------------------|----------------------------------------------------|------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|------------------------------------------------------------------------|----------------------|------------------------|------------------------------------|
| Sample Location        |                                                    |                                                                                          |                                                                                     |                                                                        | Office Area          | Bathroom               | Area North of<br>Driver's Bathroom |
| Air Sample Type        |                                                    |                                                                                          |                                                                                     |                                                                        | Indoor               | Indoor                 | Indoor                             |
| Sample Collection Date |                                                    |                                                                                          |                                                                                     |                                                                        | 9/14/2023            | 9/14/2023              | 9/14/2023                          |
| CAS #                  | COMPOUND                                           | All concentrations are reported in µg/m <sup>3</sup>                                     |                                                                                     |                                                                        |                      |                        |                                    |
| 67-64-1                | Acetone                                            | NTCR                                                                                     | NSE                                                                                 | NSE                                                                    | 20                   | 24                     | 18                                 |
| 71-43-2                | Benzene                                            | 1.57                                                                                     | 10,000                                                                              | 25,000                                                                 | 0.95                 | 1.0                    | 0.61                               |
| 100-44-7               | Benzyl Chloride                                    | 0.25                                                                                     | NSE                                                                                 | NSE                                                                    | ND<0.18              | ND<0.18                | ND<0.18                            |
| 75-27-4                | Bromodichloromethane                               | 0.331                                                                                    | NSE                                                                                 | NSE                                                                    | 0.24                 | <b>0.96</b>            | ND<0.23                            |
| 75-25-2                | Bromofom                                           | 11.1                                                                                     | NSE                                                                                 | NSE                                                                    | ND<0.36              | ND<0.36                | ND<0.36                            |
| 74-83-9                | Bromomethane                                       | 2.19                                                                                     | NSE                                                                                 | NSE                                                                    | ND<0.14              | ND<0.14                | ND<0.14                            |
| 106-99-0               | 1,3-Butadiene                                      | 0.409                                                                                    | NSE                                                                                 | NSE                                                                    | ND<0.077             | ND<0.077               | ND<0.077                           |
| 78-93-3                | 2-Butanone (MEK)                                   | 2.190                                                                                    | NSE                                                                                 | NSE                                                                    | 1.8 J                | 2.8 J                  | 4.4                                |
| 75-15-0                | Carbon Disulfide                                   | 307                                                                                      | 20,000                                                                              | 30,000                                                                 | 0.26 J               | 0.24 J                 | ND<1.1                             |
| 56-23-5                | Carbon Tetrachloride                               | 2.04                                                                                     | 10,000                                                                              | 25,000                                                                 | 0.48                 | 0.49                   | 0.48                               |
| 108-90-7               | Chlorobenzene                                      | 21.9                                                                                     | NSE                                                                                 | NSE                                                                    | ND<0.16              | ND<0.16                | ND<0.16                            |
| 75-00-3                | Chloroethane                                       | 1,750                                                                                    | NSE                                                                                 | NSE                                                                    | ND<0.092             | ND<0.092               | ND<0.092                           |
| 67-66-3                | Chloroform                                         | 0.533                                                                                    | NSE                                                                                 | NSE                                                                    | 0.38                 | <b>1.7</b>             | 0.095 J                            |
| 74-87-3                | Chloromethane                                      | 39.4                                                                                     | NSE                                                                                 | NSE                                                                    | 0.97                 | 0.91                   | 0.91                               |
| 110-82-7               | Cyclohexane                                        | 2,630                                                                                    | NSE                                                                                 | NSE                                                                    | 0.80                 | 0.82                   | 0.31                               |
| 124-48-1               | Dibromochloromethane                               | NTCR                                                                                     | NSE                                                                                 | NSE                                                                    | ND<0.30              | 0.26 J                 | ND<0.30                            |
| 106-93-4               | 1,2-Dibromochloromethane (EDB)                     | 0.0204                                                                                   | NSE                                                                                 | NSE                                                                    | ND<0.27              | ND<0.27                | ND<0.27                            |
| 95-50-1                | 1,2-Dichlorobenzene                                | 87.6                                                                                     | NSE                                                                                 | NSE                                                                    | ND<0.21              | ND<0.21                | ND<0.21                            |
| 541-73-1               | 1,3-Dichlorobenzene                                | NTCR                                                                                     | NSE                                                                                 | NSE                                                                    | ND<0.21              | ND<0.21                | ND<0.21                            |
| 106-46-7               | 1,4-Dichlorobenzene                                | 1.11                                                                                     | NSE                                                                                 | NSE                                                                    | ND<0.21              | ND<0.21                | ND<0.21                            |
| 75-71-8                | Dichlorodifluoromethane (Freon 12)                 | 43.8                                                                                     | NSE                                                                                 | NSE                                                                    | 2.2                  | 2.1                    | 2.3                                |
| 75-34-3                | 1,1-Dichloroethane                                 | 7.67                                                                                     | NSE                                                                                 | NSE                                                                    | ND<0.14              | ND<0.14                | ND<0.14                            |
| 107-06-2               | 1,2-Dichloroethane                                 | 0.472                                                                                    | NSE                                                                                 | NSE                                                                    | 0.073 J              | ND<0.14                | ND<0.14                            |
| 75-35-4                | 1,1-Dichloroethene                                 | 87.6                                                                                     | NSE                                                                                 | NSE                                                                    | ND<0.14              | ND<0.14                | ND<0.14                            |
| 156-59-2               | cis-1,2-Dichloroethene                             | 17.5                                                                                     | NSE                                                                                 | NSE                                                                    | ND<0.14              | ND<0.14                | ND<0.14                            |
| 156-60-5               | trans-1,2-Dichloroethene                           | 17.5                                                                                     | NSE                                                                                 | NSE                                                                    | ND<0.14              | ND<0.14                | ND<0.14                            |
| 78-87-5                | 1,2-Dichloropropane                                | 1.75                                                                                     | NSE                                                                                 | NSE                                                                    | ND<0.16              | ND<0.16                | ND<0.16                            |
| 10061-01-5             | cis-1,3-Dichloropropene                            | PNL                                                                                      | NSE                                                                                 | NSE                                                                    | ND<0.16              | ND<0.16                | ND<0.16                            |
| 10061-02-6             | trans-1,3-Dichloropropene                          | PNL                                                                                      | NSE                                                                                 | NSE                                                                    | ND<0.16              | ND<0.16                | ND<0.16                            |
| 76-14-2                | 1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114) | PNL                                                                                      | NSE                                                                                 | NSE                                                                    | 0.11 J               | 0.12 J                 | 0.12 J                             |
| 123-91-1               | 1,4-Dioxane                                        | 2.45                                                                                     | NSE                                                                                 | NSE                                                                    | ND<1.3               | ND<1.3                 | ND<1.3                             |
| 64-17-5                | Ethanol                                            | PNL                                                                                      | NSE                                                                                 | NSE                                                                    | 600                  | 390                    | 9.7                                |
| 141-78-6               | Ethyl Acetate                                      | 30.7                                                                                     | NSE                                                                                 | NSE                                                                    | 0.73 J               | 0.93 J                 | ND<1.3                             |
| 100-41-4               | Ethylbenzene                                       | 4.91                                                                                     | NSE                                                                                 | NSE                                                                    | 1.5                  | 1.6                    | 0.60                               |
| 622-96-8               | 4-Ethyltoluene                                     | PNL                                                                                      | NSE                                                                                 | NSE                                                                    | 0.30                 | 0.36                   | 0.14 J                             |
| 142-82-5               | Heptane                                            | 175                                                                                      | NSE                                                                                 | NSE                                                                    | 1.7                  | 1.1                    | 0.55                               |
| 87-68-3                | Hexachlorobutadiene                                | 0.557                                                                                    | NSE                                                                                 | NSE                                                                    | ND<0.37              | 0.40                   | ND<0.37                            |
| 110-54-3               | n-Hexane                                           | 307                                                                                      | NSE                                                                                 | NSE                                                                    | 2.0 J                | 2.1 J                  | ND<4.9                             |
| 591-78-6               | 2-Hexanone (MBK)                                   | 13.1                                                                                     | NSE                                                                                 | NSE                                                                    | 0.38                 | 0.79                   | 1.2                                |
| 67-63-0                | Isopropanol                                        | 87.6                                                                                     | NSE                                                                                 | NSE                                                                    | 6.4                  | 4.9                    | 1.4 J                              |
| 1634-04-4              | Methyl tert-butyl ether (MTBE)                     | 47.2                                                                                     | NSE                                                                                 | NSE                                                                    | 0.11 J               | 0.12 J                 | ND<0.13                            |
| 75-09-2                | Methylene chloride                                 | 263                                                                                      | 25,000                                                                              | NSE                                                                    | 0.35 J               | 0.38 J                 | 0.38 J                             |
| 108-10-1               | 4-Methyl-2-pentanone (MIBK)                        | 1,310                                                                                    | NSE                                                                                 | NSE                                                                    | 6.3                  | 3.5                    | 0.79                               |
| 91-20-3                | Naphthalene                                        | 0.361                                                                                    | NSE                                                                                 | NSE                                                                    | <b>0.37 L-03</b>     | <b>0.62 L-03</b>       | ND<0.18 L-03                       |
| 115-07-1               | Propene                                            | 1,310                                                                                    | NSE                                                                                 | NSE                                                                    | ND<2.4               | ND<2.4                 | ND<2.4                             |
| 100-42-5               | Styrene                                            | 438                                                                                      | 100,000                                                                             | 200,000                                                                | 0.54                 | 0.51                   | 0.30                               |
| 79-34-5                | 1,1,2,2-Tetrachloroethane                          | 0.211                                                                                    | NSE                                                                                 | NSE                                                                    | ND<0.24              | ND<0.24                | ND<0.24                            |
| 127-18-4               | Tetrachloroethene                                  | 17.5                                                                                     | 100,000                                                                             | 200,000                                                                | 0.20 J               | 0.34                   | ND<0.24                            |
| 109-99-9               | Tetrahydrofuran                                    | 876                                                                                      | NSE                                                                                 | NSE                                                                    | 0.37 J               | 0.31 J                 | ND<1.0                             |
| 108-88-3               | Toluene                                            | 2,190                                                                                    | 200,000                                                                             | 300,000                                                                | 5.3                  | 5.4                    | 2.2                                |
| 120-82-1               | 1,2,4-Trichlorobenzene                             | 0.876                                                                                    | NSE                                                                                 | NSE                                                                    | ND<0.26 L-03         | 0.22 L-03, J           | ND<0.26 L-03                       |
| 71-55-6                | 1,1,1-Trichloroethane                              | 2,190                                                                                    | NSE                                                                                 | NSE                                                                    | ND<0.19              | 0.19 J                 | ND<0.19                            |
| 79-00-5                | 1,1,2-Trichloroethane                              | 0.0876                                                                                   | NSE                                                                                 | NSE                                                                    | ND<0.19              | ND<0.19                | ND<0.19                            |
| 79-01-6                | Trichloroethene                                    | 0.876                                                                                    | 100,000                                                                             | 200,000                                                                | ND<0.19              | ND<0.19                | ND<0.19                            |
| 75-69-4                | Trichlorofluoromethane (Freon 11)                  | NTCR                                                                                     | NSE                                                                                 | NSE                                                                    | 1.2                  | 1.4                    | 1.2                                |
| 76-13-1                | 1,1,2-Trichlorodifluoroethane (Freon 113)          | 2,190                                                                                    | NSE                                                                                 | NSE                                                                    | 0.49 J               | 0.51 J                 | 0.56 J                             |
| 95-63-6                | 1,2,4-Trimethylbenzene                             | 26.3                                                                                     | NSE                                                                                 | NSE                                                                    | 1.7                  | 1.8                    | 0.63                               |
| 108-67-8               | 1,3,5-Trimethylbenzene                             | 26.3                                                                                     | NSE                                                                                 | NSE                                                                    | 0.44                 | 0.46                   | 0.17                               |
| 108-05-4               | Vinyl Acetate                                      | 87.6                                                                                     | NSE                                                                                 | NSE                                                                    | ND<2.5               | ND<2.5                 | 3.1                                |
| 75-01-4                | Vinyl Chloride                                     | 2.79                                                                                     | NSE                                                                                 | NSE                                                                    | ND<0.089             | ND<0.089               | ND<0.089                           |
| 136777-61-2            | m-Xylene & p-Xylene                                | 43.8                                                                                     | NSE                                                                                 | NSE                                                                    | 4.8                  | 5.3                    | 1.9                                |
| 95-47-6                | o-Xylene                                           | 43.8                                                                                     | NSE                                                                                 | NSE                                                                    | 1.9                  | 2.1                    | 0.69                               |

**Notes:**

CAS # = Chemical Abstracts Service Number.

ND (<#) = Not Detected. Where an analyte is not detected, a laboratory reporting limit is given.

µg/m<sup>3</sup> = micrograms per cubic meter.

J = Detected below the reporting limit (lowest calibration standard); therefore, the result is an estimated concentration.

L-03 = Laboratory fortified blank/laboratory control sample recovery is outside of control limits. Reported value for this compound is likely to be biased on the low side.

Shaded Value = Exceeds NYSDOH Ambient Air Guidance Value and/or U.S. EPA Target Ambient Indoor Air Concentration for analyte.

NSE = No Standard Established.

NTCR = No Target Concentration Reported in U.S. EPA Calculator Output.

NYSDOH = New York State Department of Health.

PEL = Permissible Exposure Limit

PNL = Parameter Not Listed in U.S. EPA Calculator Output.

U.S. EPA = United States Environmental Protection Agency.

U.S. EPA Method TO-15 = United States Environmental Protection Agency Method Toxic Organics-15.

OSHA PEL 8 Hour Time Weighted Average = US Department of Labor Occupational Safety and Health Administration Annotated OSHA Z-2 Table

OSHA PEL Acceptable Ceiling Limit = US Department of Labor Occupational Safety and Health Administration Annotated OSHA Z-2 Table

<sup>(1)</sup> NYSDOH Ambient Air Guidance Values = SVI Guidance as the NYSDOH Guidance for Evaluating Soil Vapor Intrusion in the State of New York (October 2006) with September 2013 and August 2015 updates.

<sup>(2)</sup> U.S. EPA Target Indoor Air Concentration = U.S. EPA Vapor Intrusion Screening Levels (VISL) Calculator found at: [https://epa-visl.com/cgi-bin/visl\\_search](https://epa-visl.com/cgi-bin/visl_search).

| U.S. EPA Calculator Default Input Settings                        |  |
|-------------------------------------------------------------------|--|
| Variable                                                          |  |
| Exposure Scenario                                                 |  |
| Temperature for Groundwater Vapor Concentration C                 |  |
| THQ (target hazard quotient) unitless                             |  |
| TR (target risk) unitless                                         |  |
| AT <sub>year</sub> (averaging time - composite worker)            |  |
| EF <sub>year</sub> (exposure frequency - composite worker) day/yr |  |
| ED <sub>year</sub> (exposure duration - composite worker) yr      |  |
| ET <sub>year</sub> (exposure time - composite worker) hr          |  |
| LT (lifetime) yr                                                  |  |
| AF <sub>gw</sub> (Attenuation Factor Groundwater) unitless        |  |
| AF <sub>sl</sub> (Attenuation Factor Sub-Slab) unitless           |  |



**Table 2**  
**Sub-Slab Analytical Summary**  
**Method TO-15**  
**September 14, 2023**

| Sample ID              |                                                    | U.S. EPA<br>Target Sub-Slab and<br>Near-Source Soil Gas<br>Concentration <sup>(1)</sup><br>(µg/m <sup>3</sup> ) | Office<br>SS-1                                       | Bathroom<br>SS-1 | Driver Bathroom<br>SS-1            |
|------------------------|----------------------------------------------------|-----------------------------------------------------------------------------------------------------------------|------------------------------------------------------|------------------|------------------------------------|
| Sample Location        |                                                    |                                                                                                                 | Office Area                                          | Bathroom         | Area North of<br>Driver's Bathroom |
| Air Sample Type        |                                                    |                                                                                                                 | Sub-Slab                                             | Sub-Slab         | Sub-Slab                           |
| Sample Collection Date |                                                    |                                                                                                                 | 9/14/2023                                            | 9/14/2023        | 9/14/2023                          |
| CAS #                  | COMPOUND                                           |                                                                                                                 | All concentrations are reported in µg/m <sup>3</sup> |                  |                                    |
| 67-64-1                | Acetone                                            | NTCR                                                                                                            | 31                                                   | 20               | 58                                 |
| 71-43-2                | Benzene                                            | 52.4                                                                                                            | 1.4                                                  | 0.25 J           | 0.77                               |
| 100-44-7               | Benzyl Chloride                                    | 8.34                                                                                                            | ND<0.52                                              | ND<0.52          | ND<0.52                            |
| 75-27-4                | Bromodichloromethane                               | 11                                                                                                              | 2.1                                                  | 5.1              | 18                                 |
| 75-25-2                | Bromoform                                          | 372                                                                                                             | ND<1.0                                               | ND<1.0           | ND<1.0                             |
| 74-83-9                | Bromomethane                                       | 73                                                                                                              | ND<0.39                                              | ND<0.39          | ND<0.39                            |
| 106-99-0               | 1,3-Butadiene                                      | 13.6                                                                                                            | ND<0.22                                              | ND<0.22          | ND<0.22                            |
| 78-93-3                | 2-Butanone (MEK)                                   | 73,000                                                                                                          | 13                                                   | 6.8 J            | 21                                 |
| 75-15-0                | Carbon Disulfide                                   | 10,200                                                                                                          | 3.2                                                  | ND<3.1           | 0.98 J                             |
| 56-23-5                | Carbon Tetrachloride                               | 68.1                                                                                                            | 0.57 J                                               | 0.50 J           | 0.49 J                             |
| 108-90-7               | Chlorobenzene                                      | 730                                                                                                             | ND<0.46                                              | ND<0.46          | ND<0.46                            |
| 75-00-3                | Chloroethane                                       | 58,400                                                                                                          | 0.48                                                 | ND<0.26          | ND<0.26                            |
| 67-66-3                | Chloroform                                         | 17.8                                                                                                            | 3.1                                                  | 14               | 12                                 |
| 74-87-3                | Chloromethane                                      | 1,310                                                                                                           | 0.17 J                                               | 0.20 J           | 0.21 J                             |
| 110-82-7               | Cyclohexane                                        | 87,600                                                                                                          | 7.2                                                  | 1.4              | 0.48                               |
| 124-48-1               | Dibromochloromethane                               | NTCR                                                                                                            | 0.26 J                                               | 1.4              | 7.3                                |
| 106-93-4               | 1,2-Dibromoethane (EDB)                            | 0.681                                                                                                           | ND<0.77                                              | ND<0.77          | ND<0.77                            |
| 95-50-1                | 1,2-Dichlorobenzene                                | 2,920                                                                                                           | ND<0.60                                              | ND<0.60          | ND<0.60                            |
| 541-73-1               | 1,3-Dichlorobenzene                                | NTCR                                                                                                            | ND<0.60                                              | ND<0.60          | ND<0.60                            |
| 106-46-7               | 1,4-Dichlorobenzene                                | 37.2                                                                                                            | 1.0                                                  | 0.88             | 0.69                               |
| 75-71-8                | Dichlorodifluoromethane (Freon 12)                 | 1,460                                                                                                           | 2.3                                                  | 2.3              | 2.6                                |
| 75-34-3                | 1,1-Dichloroethane                                 | 256                                                                                                             | 0.40 J                                               | ND<0.40          | ND<0.40                            |
| 107-06-2               | 1,2-Dichloroethane                                 | 15.7                                                                                                            | ND<0.40                                              | ND<0.40          | ND<0.40                            |
| 75-35-4                | 1,1-Dichloroethene                                 | 2,920                                                                                                           | ND<0.40                                              | ND<0.40          | ND<0.40                            |
| 156-59-2               | cis-1,2-Dichloroethene                             | 584                                                                                                             | ND<0.40                                              | ND<0.40          | ND<0.40                            |
| 156-60-5               | trans-1,2-Dichloroethene                           | 584                                                                                                             | ND<0.40                                              | ND<0.40          | ND<0.40                            |
| 78-87-5                | 1,2-Dichloropropane                                | 58.4                                                                                                            | ND<0.46                                              | ND<0.46          | ND<0.46                            |
| 10061-01-5             | cis-1,3-Dichloropropene                            | PNL                                                                                                             | ND<0.45                                              | ND<0.45          | ND<0.45                            |
| 10061-02-6             | trans-1,3-Dichloropropene                          | PNL                                                                                                             | ND<0.45                                              | ND<0.45          | ND<0.45                            |
| 76-14-2                | 1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114) | PNL                                                                                                             | ND<0.70                                              | ND<0.70          | ND<0.70                            |
| 123-91-1               | 1,4-Dioxane                                        | 81.8                                                                                                            | ND<3.6                                               | ND<3.6           | ND<3.6                             |
| 64-17-5                | Ethanol                                            | PNL                                                                                                             | 5.9 J                                                | 17               | 180                                |
| 141-78-6               | Ethyl Acetate                                      | 1,020                                                                                                           | ND<3.6                                               | ND<3.6           | ND<3.6                             |
| 100-41-4               | Ethylbenzene                                       | 164                                                                                                             | 1.2                                                  | 0.19 J           | 12                                 |
| 622-96-8               | 4-Ethyltoluene                                     | PNL                                                                                                             | 0.50                                                 | ND<0.49          | 0.75                               |
| 142-82-5               | Heptane                                            | 5,840                                                                                                           | 17                                                   | 3.0              | 1.2                                |
| 87-68-3                | Hexachlorobutadiene                                | 18.6                                                                                                            | ND<1.1                                               | ND<1.1           | ND<1.1                             |
| 110-54-3               | n-Hexane                                           | 10,200                                                                                                          | 49                                                   | 24               | ND<14                              |
| 591-78-6               | 2-Hexanone (MBK)                                   | 438                                                                                                             | 5.3                                                  | 2.9              | 4.0                                |
| 67-63-0                | Isopropanol                                        | 2,920                                                                                                           | ND<9.8                                               | 3.4 J            | 11                                 |
| 1634-04-4              | Methyl tert-butyl ether (MTBE)                     | 1,570                                                                                                           | 1.1                                                  | 0.35 J           | ND<0.36                            |
| 75-09-2                | Methylene chloride                                 | 8,760                                                                                                           | ND<3.5                                               | ND<3.5           | ND<3.5                             |
| 108-10-1               | 4-Methyl-2-pentanone (MIBK)                        | 43,800                                                                                                          | ND<0.41                                              | ND<0.41          | 14                                 |
| 91-20-3                | Naphthalene                                        | 12                                                                                                              | 0.71 L-03                                            | 0.37 L-03, J     | 0.73 L-03                          |
| 115-07-1               | Propene                                            | 43,800                                                                                                          | ND<6.9                                               | ND<6.9           | ND<6.9                             |
| 100-42-5               | Styrene                                            | 14,600                                                                                                          | 0.33 J                                               | ND<0.43          | 1.8                                |
| 79-34-5                | 1,1,2,2-Tetrachloroethane                          | 7.05                                                                                                            | ND<0.69                                              | ND<0.69          | ND<0.69                            |
| 127-18-4               | Tetrachloroethene                                  | 584                                                                                                             | 130                                                  | 19               | 24                                 |
| 109-99-9               | Tetrahydrofuran                                    | 29,200                                                                                                          | 5.0                                                  | 1.9 J            | 2.5 J                              |
| 108-88-3               | Toluene                                            | 73,000                                                                                                          | 3.7                                                  | 0.54             | 15                                 |
| 120-82-1               | 1,2,4-Trichlorobenzene                             | 29.2                                                                                                            | ND<0.74 L-03                                         | ND<0.74 L-03     | ND<0.74 L-03                       |
| 71-55-6                | 1,1,1-Trichloroethane                              | 73,000                                                                                                          | 3.3                                                  | 1.2              | 1.3                                |
| 79-00-5                | 1,1,2-Trichloroethane                              | 2.92                                                                                                            | 0.39 J                                               | ND<0.55          | ND<0.55                            |
| 79-01-6                | Trichloroethene                                    | 29.2                                                                                                            | 14                                                   | 0.45 J           | 0.37 J                             |
| 75-69-4                | Trichlorofluoromethane (Freon 11)                  | NTCR                                                                                                            | 2.1 J                                                | 5.4              | 9.7                                |
| 76-13-1                | 1,1,2-Trichlorotrifluoroethane (Freon 113)         | 73,000                                                                                                          | 0.52 J                                               | 0.55 J           | 0.51 J                             |
| 95-63-6                | 1,2,4-Trimethylbenzene                             | 876                                                                                                             | 5.5                                                  | 0.76             | 3.7                                |
| 108-67-8               | 1,3,5-Trimethylbenzene                             | 876                                                                                                             | 1.6                                                  | ND<0.49          | 1.1                                |
| 108-05-4               | Vinyl Acetate                                      | 2,920                                                                                                           | 6.2 J                                                | 5.4 J            | 5.0 J                              |
| 75-01-4                | Vinyl Chloride                                     | 92.9                                                                                                            | ND<0.26                                              | ND<0.26          | ND<0.26                            |
| 136777-61-2            | m-Xylene & p-Xylene                                | 1,460                                                                                                           | 6.9                                                  | 0.83 J           | 48                                 |
| 95-47-6                | o-Xylene                                           | 1,460                                                                                                           | 2.6                                                  | 0.24 J           | 15                                 |

**Notes:**

CAS # = Chemical Abstracts Service Number.

ND (<#) = Not Detected. Where an analyte is not detected, a laboratory reporting limit is given.

µg/m<sup>3</sup> = micrograms per cubic meter.

J = Detected below the reporting limit (lowest calibration standard); therefore, the result is an estimated concentration.

L-03 = Laboratory fortified blank/laboratory control sample recovery is outside of control limits. Reported value for this compound is likely to be biased on the

Shaded Value = Exceeds the U.S. EPA Target Sub-Slab and Near-Source Soil Gas Concentration for analyte.

NSE = No Standard Established.

NTCR = No Target Concentration Reported in U.S. EPA Calculator Output.

PNL = Parameter Not Listed in U.S. EPA Calculator Output.

U.S. EPA = United States Environmental Protection Agency.

U.S. EPA Method TO-15 = United States Environmental Protection Agency Method Toxic Organics-15.

<sup>(1)</sup> U.S. EPA Target Sub-Slab and Near-Source Soil Gas Concentration = U.S. EPA Vapor Intrusion Screening Levels (VISL) Calculator found at: [https://epa-visl-bin/visl\\_search](https://epa-visl-bin/visl_search).

| U.S. EPA Calculator Default Input Settings                       |            |
|------------------------------------------------------------------|------------|
| Variable                                                         | Value      |
| Exposure Scenario                                                | Commercial |
| Temperature for Groundwater Vapor Concentration C                | 25         |
| THQ (target hazard quotient) unitless                            | 0.1        |
| TR (target risk) unitless                                        | 0.000001   |
| AT <sub>com</sub> (averaging time - composite worker)            | 365        |
| EF <sub>com</sub> (exposure frequency - composite worker) day/yr | 250        |
| ED <sub>com</sub> (exposure duration - composite worker) yr      | 25         |
| ET <sub>com</sub> (exposure time - composite worker) hr          | 8          |
| LT (lifetime) yr                                                 | 70         |
| AF <sub>gw</sub> (Attenuation Factor Groundwater) unitless       | 0.001      |
| AF <sub>ss</sub> (Attenuation Factor Sub-Slab) unitless          | 0.03       |



**Table 3**  
**PID Indoor Air and Sub-Slab Screening Data**  
**September 12 and 14, 2023**

| Sample ID                   | Location                         | Air Sample Type | Sample Location                 | Sub-Slab Helium Test 9/12/23 | Indoor Air PID Reading 9/12/23 (ppb) | Sub-Slab PID Reading 9/12/23 (ppb) | Indoor Air PID Reading 9/14/23 (ppb) | Sub-Slab PID Reading 9/14/23 (ppb) | Summa Canister # | Regulator # | Sample Date Start | Sample Time Start | Pressure Start ("Hg) | Sample Date End | Sample Time End | Pressure End ("Hg) |
|-----------------------------|----------------------------------|-----------------|---------------------------------|------------------------------|--------------------------------------|------------------------------------|--------------------------------------|------------------------------------|------------------|-------------|-------------------|-------------------|----------------------|-----------------|-----------------|--------------------|
| Office Ambient -1           | Buffalo Terminal Office Building | Indoor          | Main Office                     | NA                           | 0                                    | NA                                 | 0                                    | NA                                 | 1928             | 3253        | 9/14/23           | 08:00             | -29                  | 9/14/23         | 16:40           | -7                 |
| Office SS-1                 | Buffalo Terminal Office Building | Sub-Slab        | Main Office                     | Pass                         | NA                                   | 2,050                              | NA                                   | 0                                  | 1060             | 3102        | 9/14/23           | 08:10             | -28                  | 9/14/23         | 16:10           | -5                 |
| Bathroom Ambient -1         | Buffalo Terminal Office Building | Indoor          | Main Bathroom                   | NA                           | 0                                    | NA                                 | 0                                    | NA                                 | 1843             | 3087        | 9/14/23           | 08:15             | -28                  | 9/14/23         | 16:20           | -6                 |
| Bathroom SS-1               | Buffalo Terminal Office Building | Sub-Slab        | Main Bathroom                   | Pass                         | NA                                   | 1,612                              | NA                                   | 0                                  | 1886             | 3045        | 9/14/23           | 08:20             | -28                  | 9/14/23         | 16:25           | -7                 |
| Drivers Bathroom Ambient -1 | Buffalo Terminal Office Building | Indoor          | Area North of Driver's Bathroom | NA                           | 0                                    | NA                                 | 0                                    | NA                                 | 2207             | 3176        | 9/14/23           | 08:30             | -30                  | 9/14/23         | 16:45           | -7                 |
| Drivers Bathroom SS-1       | Buffalo Terminal Office Building | Sub-Slab        | Area North of Driver's Bathroom | Pass                         | NA                                   | 9,029                              | NA                                   | 382                                | 2023             | 5079        | 9/14/23           | 08:35             | -30                  | 9/14/23         | 14:15           | -2                 |

**Notes:**

\*Hg = inches of Mercury.  
NA = Not Applicable or Not Available.  
PID = Photoionization Detector.  
ppb = parts per billion.



**Table 4**  
**Indoor and Sub-Slab Vapor Analytical Data Comparison to Matrix A**  
**September 14, 2023**

| Sample ID                        | Office Ambient -1                                           | Office SS-1 | Bathroom Ambient -1 | Bathroom SS-1 | Driver Bathroom Ambient -1      | Driver Bathroom SS-1            |
|----------------------------------|-------------------------------------------------------------|-------------|---------------------|---------------|---------------------------------|---------------------------------|
| Sample Location                  | Office Area                                                 | Office Area | Bathroom            | Bathroom      | Area North of Driver's Bathroom | Area North of Driver's Bathroom |
| Air Sample Type                  | Indoor                                                      | Sub-Slab    | Indoor              | Sub-Slab      | Indoor                          | Sub-Slab                        |
| Sample Collection Date           | 9/14/2023                                                   | 9/14/2023   | 9/14/2023           | 9/14/2023     | 9/14/2023                       | 9/14/2023                       |
| Compound                         | All concentrations are reported in $\mu\text{g}/\text{m}^3$ |             |                     |               |                                 |                                 |
| Trichloroethene (TCE)            | ND<0.19                                                     | 14          | ND<0.19             | 0.45 J        | ND<0.19                         | 0.37 J                          |
| cis-1,2-Dichloroethene (c12-DCE) | ND<0.14                                                     | ND<0.40     | ND<0.14             | ND<0.40       | ND<0.14                         | ND<0.40                         |
| 1,1-Dichloroethene (11-DCE)      | ND<0.14                                                     | ND<0.40     | ND<0.14             | ND<0.40       | ND<0.14                         | ND<0.40                         |
| Carbon Tetrachloride             | 0.48                                                        | 0.57 J      | 0.49                | 0.50 J        | 0.48                            | 0.49 J                          |

**Notes:**

ND (<#) = Not Detected. Where an analyte is not detected, a laboratory reporting limit is given.

$\mu\text{g}/\text{m}^3$  = micrograms per cubic meter.

J = Detected below the reporting limit (lowest calibration standard); therefore, the result is an estimated concentration.

New York State Department of Health Soil Vapor/Air Matrix A (May 2017) recommendations are based on the following:

|                                           |              |                     |            |
|-------------------------------------------|--------------|---------------------|------------|
| Sub-Slab Vapor Concentration of Compound: | green is <6  | yellow is 6 to <60  | red is >60 |
| Indoor Air Concentration of Compound:     | blue is <0.2 | orange is 0.2 to <1 | red is >1  |

**Based on the comparison between sub-slab vapor concentrations and indoor air concentrations of each of the four (4) compounds, no further action is required.**



**Table 5**  
**Indoor and Sub-Slab Vapor Analytical Data Comparison to Matrix B**  
**September 14, 2023**

| Sample ID                       | Office Ambient-1                                            | Office SS-1 | Bathroom Ambient-1 | Bathroom SS-1 | Driver Bathroom Ambient-1       | Driver Bathroom SS-1            |
|---------------------------------|-------------------------------------------------------------|-------------|--------------------|---------------|---------------------------------|---------------------------------|
| Sample Location                 | Office Area                                                 | Office Area | Bathroom           | Bathroom      | Area North of Driver's Bathroom | Area North of Driver's Bathroom |
| Air Sample Type                 | Indoor                                                      | Sub-Slab    | Indoor             | Sub-Slab      | Indoor                          | Sub-Slab                        |
| Sample Collection Date          | 9/14/2023                                                   | 9/14/2023   | 9/14/2023          | 9/14/2023     | 9/14/2023                       | 9/14/2023                       |
| Compound                        | All concentrations are reported in $\mu\text{g}/\text{m}^3$ |             |                    |               |                                 |                                 |
| Tetrachloroethene (PCE)         | 0.20 J                                                      | 130         | 0.34               | 19            | ND<0.24                         | 24                              |
| 1,1,1-Trichloroethane (111-TCA) | ND<0.19                                                     | 3.3         | 0.10 J             | 1.2           | ND<0.19                         | 1.3                             |
| Methylene Chloride              | 0.35 J                                                      | ND<3.5      | 0.38 J             | ND<3.5        | 0.38 J                          | ND<3.5                          |

**Notes:**

ND (<#) = Not Detected. Where an analyte is not detected, a laboratory reporting limit is given.

$\mu\text{g}/\text{m}^3$  = micrograms per cubic meter.

J = Detected below the reporting limit (lowest calibration standard); therefore, the result is an estimated concentration.

New York State Department of Health Soil Vapor/Air Matrix B (May 2017) recommendations are based on the following:

|                                           |               |                         |               |
|-------------------------------------------|---------------|-------------------------|---------------|
| Sub-Slab Vapor Concentration of Compound: | green is <100 | yellow is 100 to <1,000 | red is >1,000 |
| Indoor Air Concentration of Compound:     | blue is <3    | orange is 3 to <10      | red is >10    |

**Based on the comparison between sub-slab vapor concentrations and indoor air concentrations of each of the three (3) compounds, no further action is required.**



**Table 6**  
**Indoor and Sub-Slab Vapor Analytical Data Comparison to Matrix C**  
**September 14, 2023**

| Sample ID              | Office Ambient-1                                            | Office SS-1 | Bathroom Ambient-1 | Bathroom SS-1 | Driver Bathroom Ambient-1       | Driver Bathroom SS-1            |
|------------------------|-------------------------------------------------------------|-------------|--------------------|---------------|---------------------------------|---------------------------------|
| Sample Location        | Office Area                                                 | Office Area | Bathroom           | Bathroom      | Area North of Driver's Bathroom | Area North of Driver's Bathroom |
| Air Sample Type        | Indoor                                                      | Sub-Slab    | Indoor             | Sub-Slab      | Indoor                          | Sub-Slab                        |
| Sample Collection Date | 9/14/2023                                                   | 9/14/2023   | 9/14/2023          | 9/14/2023     | 9/14/2023                       | 9/14/2023                       |
| Compound               | All concentrations are reported in $\mu\text{g}/\text{m}^3$ |             |                    |               |                                 |                                 |
| Vinyl Chloride         | ND<0.089                                                    | ND<0.26     | ND<0.089           | ND<0.26       | ND<0.089                        | ND<0.26                         |

**Notes:**

ND (<#) = Not Detected. Where an analyte is not detected, a laboratory reporting limit is given.

$\mu\text{g}/\text{m}^3$  = micrograms per cubic meter.

New York State Department of Health Soil Vapor/Air Matrix C (May 2017) recommendations are based on the following:

|                                           |              |                    |            |
|-------------------------------------------|--------------|--------------------|------------|
| Sub-Slab Vapor Concentration of Compound: | green is <6  | yellow is 6 to <60 | red is >60 |
| Indoor Air Concentration of Compound:     | blue is <0.2 | orange is <0.2     |            |

**Based on the comparison between sub-slab vapor concentrations and indoor air concentrations of the compounds, no further action is required.**



**Table 7**  
**Indoor and Sub-Slab Vapor Analytical Data Comparison to Matrix D**  
**September 14, 2023**

| Sample ID                          | Office Ambient-1                                            | Office SS-1 | Bathroom Ambient-1 | Bathroom SS-1 | Driver Bathroom Ambient-1       | Driver Bathroom SS-1            |
|------------------------------------|-------------------------------------------------------------|-------------|--------------------|---------------|---------------------------------|---------------------------------|
| Sample Location                    | Office Area                                                 | Office Area | Bathroom           | Bathroom      | Area North of Driver's Bathroom | Area North of Driver's Bathroom |
| Air Sample Type                    | Indoor                                                      | Sub-Slab    | Indoor             | Sub-Slab      | Indoor                          | Sub-Slab                        |
| Sample Collection Date             | 9/14/2023                                                   | 9/14/2023   | 9/14/2023          | 9/14/2023     | 9/14/2023                       | 9/14/2023                       |
| Compound                           | All concentrations are reported in $\mu\text{g}/\text{m}^3$ |             |                    |               |                                 |                                 |
| Benzene                            | 0.95                                                        | 1.4         | 1.0                | 0.25 J        | 0.61                            | 0.77                            |
| Ethylbenzene                       | 1.5                                                         | 1.2         | 1.6                | 0.19 J        | 0.60                            | 12                              |
| Naphthalene                        | 0.37 L-03                                                   | 0.71 L-03   | 0.82 L-03          | 0.37 L-03, J  | ND<0.18 L-03                    | 0.73 L-03                       |
| Cyclohexane                        | 0.80                                                        | 7.2         | 0.82               | 1.4           | 0.31                            | 0.48                            |
| 2,2,4-Trimethylpentane (Isooctane) | NA                                                          | NA          | NA                 | NA            | NA                              | NA                              |
| 1,2,4-Trimethylbenzene             | 1.7                                                         | 5.5         | 1.8                | 0.76          | 0.63                            | 3.7                             |
| 1,3,5-Trimethylbenzene             | 0.44                                                        | 1.6         | 0.46               | ND<0.49       | 0.17                            | 1.1                             |
| o-Xylene                           | 1.9                                                         | 2.6         | 2.1                | 0.24 J        | 0.69                            | 15                              |

**Notes:**

ND (<#) = Not Detected. Where an analyte is not detected, a laboratory reporting limit is given.

$\mu\text{g}/\text{m}^3$  = micrograms per cubic meter.

NA = Not Analyzed.

L-03 = Laboratory fortified blank/laboratory control sample recovery is outside of control limits. Reported value for this compound is likely to be biased on the low side.

J = Detected below the reporting limit (lowest calibration standard); therefore, the result is an estimated concentration.

New York State Department of Health Soil Vapor/Air Matrix D (February 2024) recommendations are based on the following:

|                                           |              |                      |             |
|-------------------------------------------|--------------|----------------------|-------------|
| Sub-Slab Vapor Concentration of Compound: | green is <60 | yellow is 60 to <600 | red is >600 |
| Indoor Air Concentration of Compound:     | blue is <2   | orange is 2 to <10   | red is >10  |

**Based on the comparison between sub-slab vapor concentrations and indoor air concentrations of the compounds, no further action is required.**



**Table 8**  
**Indoor and Sub-Slab Vapor Analytical Data Comparison to Matrix E**  
**September 14, 2023**

| Sample ID              | Office Ambient-1                                            | Office SS-1 | Bathroom Ambient-1 | Bathroom SS-1 | Driver Bathroom Ambient-1       | Driver Bathroom SS-1            |
|------------------------|-------------------------------------------------------------|-------------|--------------------|---------------|---------------------------------|---------------------------------|
| Sample Location        | Office Area                                                 | Office Area | Bathroom           | Bathroom      | Area North of Driver's Bathroom | Area North of Driver's Bathroom |
| Air Sample Type        | Indoor                                                      | Sub-Slab    | Indoor             | Sub-Slab      | Indoor                          | Sub-Slab                        |
| Sample Collection Date | 9/14/2023                                                   | 9/14/2023   | 9/14/2023          | 9/14/2023     | 9/14/2023                       | 9/14/2023                       |
| Compound               | All concentrations are reported in $\mu\text{g}/\text{m}^3$ |             |                    |               |                                 |                                 |
| m-Xylene               | 4.8                                                         | 6.9         | 5.3                | 0.83 J        | 1.9                             | 48                              |
| p-Xylene               |                                                             |             |                    |               |                                 |                                 |
| Heptane                | 5.2                                                         | 17          | 5.0                | 3.0           | ND<0.41                         | 1.2                             |
| Hexane (n-Hexane)      | 4.2 J                                                       | 49          | 4.2 J              | 24            | ND<14                           | ND<14                           |

**Notes:**

ND (<#) = Not Detected. Where an analyte is not detected, a laboratory reporting limit is given.

$\mu\text{g}/\text{m}^3$  = micrograms per cubic meter.

J = Detected below the reporting limit (lowest calibration standard); therefore, the result is an estimated concentration.

New York State Department of Health Soil Vapor/Air Matrix E (February 2024) recommendations are based on the following:

|                                           |               |                         |               |
|-------------------------------------------|---------------|-------------------------|---------------|
| Sub-Slab Vapor Concentration of Compound: | green is <200 | yellow is 200 to <2,000 | red is >2,000 |
| Indoor Air Concentration of Compound:     | blue is <6    | orange is 6 to <20      | red is >20    |

**Based on the comparison between sub-slab vapor concentrations and indoor air concentrations of the compounds, no further action is required.**



**Table 9**  
**Indoor and Sub-Slab Vapor Analytical Data Comparison to Matrix F**  
**September 14, 2023**

| Sample ID              | Office Ambient-1                                            | Office SS-1 | Bathroom Ambient-1 | Bathroom SS-1 | Driver Bathroom Ambient-1       | Driver Bathroom SS-1            |
|------------------------|-------------------------------------------------------------|-------------|--------------------|---------------|---------------------------------|---------------------------------|
| Sample Location        | Office Area                                                 | Office Area | Bathroom           | Bathroom      | Area North of Driver's Bathroom | Area North of Driver's Bathroom |
| Air Sample Type        | Indoor                                                      | Sub-Slab    | Indoor             | Sub-Slab      | Indoor                          | Sub-Slab                        |
| Sample Collection Date | 9/14/2023                                                   | 9/14/2023   | 9/14/2023          | 9/14/2023     | 9/14/2023                       | 9/14/2023                       |
| Compound               | All concentrations are reported in $\mu\text{g}/\text{m}^3$ |             |                    |               |                                 |                                 |
| Toluene                | 5.3                                                         | 3.7         | 5.4                | 0.54          | 2.2                             | 15                              |

**Notes:**

ND (<#) = Not Detected. Where an analyte is not detected, a laboratory reporting limit is given.

$\mu\text{g}/\text{m}^3$  = micrograms per cubic meter.

New York State Department of Health Soil Vapor/Air Matrix F (February 2024) recommendations are based on the following:

|                                           |               |                         |               |
|-------------------------------------------|---------------|-------------------------|---------------|
| Sub-Slab Vapor Concentration of Compound: | green is <300 | yellow is 300 to <3,000 | red is >3,000 |
| Indoor Air Concentration of Compound:     | blue is <10   | orange is 10 to <50     | red is >50    |

**Based on the comparison between sub-slab vapor concentrations and indoor air concentrations of the compounds, no further action is required.**



## Attachment C – Laboratory Analytical Report

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September 26, 2023

Robert Sickler  
Buckeye Partners LLC\_GES (Syracuse)  
6780 Northern Blvd, Suite 100  
East Syracuse, NY 13057

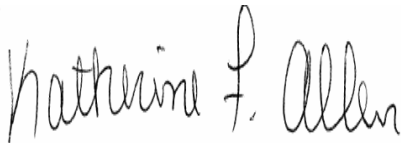
Project Location: Buckeye Buffalo Terminal  
Client Job Number:  
Project Number: 0901876  
Laboratory Work Order Number: 23I2177

Enclosed are results of analyses for samples as received by the laboratory on September 18, 2023. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Kyle A. Murray  
Project Manager



QA Officer  
Katherine Allen



Laboratory Manager  
Daren Damboragian

Buckeye Partners LLC\_GES (Syracuse)  
6780 Northern Blvd, Suite 100  
East Syracuse, NY 13057  
ATTN: Robert Sickler

REPORT DATE: 9/26/2023

PURCHASE ORDER NUMBER: 0901876-0400-0406-1109

PROJECT NUMBER: 0901876

**ANALYTICAL SUMMARY**

WORK ORDER NUMBER: 23I2177

The results of analyses performed on the following samples submitted to Con-Test, a Pace Analytical Laboratory, are found in this report.

PROJECT LOCATION: Buckeye Buffalo Terminal

| FIELD SAMPLE #            | LAB ID:    | MATRIX      | SAMPLE DESCRIPTION | TEST           | SUB LAB |
|---------------------------|------------|-------------|--------------------|----------------|---------|
| Office SS-1               | 23I2177-01 | Sub Slab    |                    | -<br>EPA TO-15 |         |
| Office Ambient-1          | 23I2177-02 | Ambient Air |                    | -<br>EPA TO-15 |         |
| Bathroom SS-1             | 23I2177-03 | Sub Slab    |                    | -<br>EPA TO-15 |         |
| Bathroom Ambient-1        | 23I2177-04 | Ambient Air |                    | -<br>EPA TO-15 |         |
| Driver Bathroom SS-1      | 23I2177-05 | Sub Slab    |                    | -<br>EPA TO-15 |         |
| Driver Bathroom Ambient-1 | 23I2177-06 | Ambient Air |                    | -<br>EPA TO-15 |         |
| UNUSED                    | 23I2177-07 |             |                    | -              |         |
| UNUSED                    | 23I2177-08 |             |                    | -              |         |
| UNUSED                    | 23I2177-09 |             |                    | -              |         |

**CASE NARRATIVE SUMMARY**

All reported results are within defined laboratory quality control objectives unless listed below or otherwise qualified in this report.

**EPA TO-15****Qualifications:**

L-03 Laboratory fortified blank/laboratory control sample recovery is outside of control limits. Reported value for this compound is likely to be biased on the low side.

**Analyte & Samples(s) Qualified:****1,2,4-Trichlorobenzene, Naphthalene**

23I2177-01[Office SS-1], 23I2177-02[Office Ambient-1], 23I2177-03[Bathroom SS-1], 23I2177-04[Bathroom Ambient-1], 23I2177-05[Driver Bathroom SS-1], 23I2177-06[Driver Bathroom Ambient-1], B353094-BLK1, B353094-BS1

The results of analyses reported only relate to samples submitted to Con-Test, a Pace Analytical Laboratory, for testing.

I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.



Meghan E. Kelley  
Reporting Specialist

**ANALYTICAL RESULTS**

Project Location: Buckeye Buffalo Terminal  
 Date Received: 9/18/2023  
**Field Sample #: Office SS-1**  
**Sample ID: 2312177-01**  
 Sample Matrix: Sub Slab  
 Sampled: 9/14/2023 16:10

Sample Description/Location:  
 Sub Description/Location:  
 Canister ID: 1060  
 Canister Size: 6 liter  
 Flow Controller ID: 3102  
 Sample Type: 8 hr

**Work Order: 2312177**  
 Initial Vacuum(in Hg): -28  
 Final Vacuum(in Hg): -5  
 Receipt Vacuum(in Hg): -6.9  
 Flow Controller Type: Fixed-Orifice  
 Flow Controller Calibration  
 RPD Pre and Post-Sampling: <20%

| EPA TO-15                                          |         |      |       |           |         |      |       |          |           |       |         |
|----------------------------------------------------|---------|------|-------|-----------|---------|------|-------|----------|-----------|-------|---------|
| Analyte                                            | ppbv    |      |       | Flag/Qual | ug/m3   |      |       | Dilution | Date/Time |       | Analyst |
|                                                    | Results | RL   | MDL   |           | Results | RL   | MDL   |          | Analyzed  |       |         |
| Acetone                                            | 13      | 4.0  | 0.94  |           | 31      | 9.5  | 2.2   | 2        | 9/20/23   | 20:52 | CMR     |
| Benzene                                            | 0.44    | 0.10 | 0.031 |           | 1.4     | 0.32 | 0.099 | 2        | 9/20/23   | 20:52 | CMR     |
| Benzyl chloride                                    | ND      | 0.10 | 0.054 |           | ND      | 0.52 | 0.28  | 2        | 9/20/23   | 20:52 | CMR     |
| Bromodichloromethane                               | 0.31    | 0.10 | 0.027 |           | 2.1     | 0.67 | 0.18  | 2        | 9/20/23   | 20:52 | CMR     |
| Bromoform                                          | ND      | 0.10 | 0.036 |           | ND      | 1.0  | 0.37  | 2        | 9/20/23   | 20:52 | CMR     |
| Bromomethane                                       | ND      | 0.10 | 0.053 |           | ND      | 0.39 | 0.21  | 2        | 9/20/23   | 20:52 | CMR     |
| 1,3-Butadiene                                      | ND      | 0.10 | 0.084 |           | ND      | 0.22 | 0.19  | 2        | 9/20/23   | 20:52 | CMR     |
| 2-Butanone (MEK)                                   | 4.3     | 4.0  | 1.1   |           | 13      | 12   | 3.3   | 2        | 9/20/23   | 20:52 | CMR     |
| Carbon Disulfide                                   | 1.0     | 1.0  | 0.19  |           | 3.2     | 3.1  | 0.60  | 2        | 9/20/23   | 20:52 | CMR     |
| Carbon Tetrachloride                               | 0.090   | 0.10 | 0.029 | J         | 0.57    | 0.63 | 0.18  | 2        | 9/20/23   | 20:52 | CMR     |
| Chlorobenzene                                      | ND      | 0.10 | 0.025 |           | ND      | 0.46 | 0.12  | 2        | 9/20/23   | 20:52 | CMR     |
| Chloroethane                                       | 0.18    | 0.10 | 0.063 |           | 0.48    | 0.26 | 0.17  | 2        | 9/20/23   | 20:52 | CMR     |
| Chloroform                                         | 0.63    | 0.10 | 0.026 |           | 3.1     | 0.49 | 0.13  | 2        | 9/20/23   | 20:52 | CMR     |
| Chloromethane                                      | 0.082   | 0.20 | 0.041 | J         | 0.17    | 0.41 | 0.084 | 2        | 9/20/23   | 20:52 | CMR     |
| Cyclohexane                                        | 2.1     | 0.10 | 0.044 |           | 7.2     | 0.34 | 0.15  | 2        | 9/20/23   | 20:52 | CMR     |
| Dibromochloromethane                               | 0.030   | 0.10 | 0.027 | J         | 0.26    | 0.85 | 0.23  | 2        | 9/20/23   | 20:52 | CMR     |
| 1,2-Dibromoethane (EDB)                            | ND      | 0.10 | 0.033 |           | ND      | 0.77 | 0.26  | 2        | 9/20/23   | 20:52 | CMR     |
| 1,2-Dichlorobenzene                                | ND      | 0.10 | 0.035 |           | ND      | 0.60 | 0.21  | 2        | 9/20/23   | 20:52 | CMR     |
| 1,3-Dichlorobenzene                                | ND      | 0.10 | 0.037 |           | ND      | 0.60 | 0.22  | 2        | 9/20/23   | 20:52 | CMR     |
| 1,4-Dichlorobenzene                                | 0.17    | 0.10 | 0.037 |           | 1.0     | 0.60 | 0.22  | 2        | 9/20/23   | 20:52 | CMR     |
| Dichlorodifluoromethane (Freon 12)                 | 0.46    | 0.10 | 0.042 |           | 2.3     | 0.49 | 0.21  | 2        | 9/20/23   | 20:52 | CMR     |
| 1,1-Dichloroethane                                 | 0.098   | 0.10 | 0.032 | J         | 0.40    | 0.40 | 0.13  | 2        | 9/20/23   | 20:52 | CMR     |
| 1,2-Dichloroethane                                 | ND      | 0.10 | 0.038 |           | ND      | 0.40 | 0.15  | 2        | 9/20/23   | 20:52 | CMR     |
| 1,1-Dichloroethylene                               | ND      | 0.10 | 0.029 |           | ND      | 0.40 | 0.11  | 2        | 9/20/23   | 20:52 | CMR     |
| cis-1,2-Dichloroethylene                           | ND      | 0.10 | 0.031 |           | ND      | 0.40 | 0.12  | 2        | 9/20/23   | 20:52 | CMR     |
| trans-1,2-Dichloroethylene                         | ND      | 0.10 | 0.033 |           | ND      | 0.40 | 0.13  | 2        | 9/20/23   | 20:52 | CMR     |
| 1,2-Dichloropropane                                | ND      | 0.10 | 0.027 |           | ND      | 0.46 | 0.13  | 2        | 9/20/23   | 20:52 | CMR     |
| cis-1,3-Dichloropropene                            | ND      | 0.10 | 0.045 |           | ND      | 0.45 | 0.20  | 2        | 9/20/23   | 20:52 | CMR     |
| trans-1,3-Dichloropropene                          | ND      | 0.10 | 0.052 |           | ND      | 0.45 | 0.23  | 2        | 9/20/23   | 20:52 | CMR     |
| 1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114) | ND      | 0.10 | 0.040 |           | ND      | 0.70 | 0.28  | 2        | 9/20/23   | 20:52 | CMR     |
| 1,4-Dioxane                                        | ND      | 1.0  | 0.49  |           | ND      | 3.6  | 1.8   | 2        | 9/20/23   | 20:52 | CMR     |
| Ethanol                                            | 3.1     | 4.0  | 2.7   | J         | 5.9     | 7.5  | 5.0   | 2        | 9/20/23   | 20:52 | CMR     |
| Ethyl Acetate                                      | ND      | 1.0  | 0.29  |           | ND      | 3.6  | 1.0   | 2        | 9/20/23   | 20:52 | CMR     |
| Ethylbenzene                                       | 0.27    | 0.10 | 0.029 |           | 1.2     | 0.43 | 0.13  | 2        | 9/20/23   | 20:52 | CMR     |
| 4-Ethyltoluene                                     | 0.10    | 0.10 | 0.043 |           | 0.50    | 0.49 | 0.21  | 2        | 9/20/23   | 20:52 | CMR     |
| Heptane                                            | 4.1     | 0.10 | 0.063 |           | 17      | 0.41 | 0.26  | 2        | 9/20/23   | 20:52 | CMR     |
| Hexachlorobutadiene                                | ND      | 0.10 | 0.058 |           | ND      | 1.1  | 0.61  | 2        | 9/20/23   | 20:52 | CMR     |
| Hexane                                             | 14      | 4.0  | 1.3   |           | 49      | 14   | 4.7   | 2        | 9/20/23   | 20:52 | CMR     |
| 2-Hexanone (MBK)                                   | 1.3     | 0.10 | 0.043 |           | 5.3     | 0.41 | 0.18  | 2        | 9/20/23   | 20:52 | CMR     |
| Isopropanol                                        | ND      | 4.0  | 1.3   |           | ND      | 9.8  | 3.1   | 2        | 9/20/23   | 20:52 | CMR     |
| Methyl tert-Butyl Ether (MTBE)                     | 0.31    | 0.10 | 0.049 |           | 1.1     | 0.36 | 0.18  | 2        | 9/20/23   | 20:52 | CMR     |
| Methylene Chloride                                 | ND      | 1.0  | 0.27  |           | ND      | 3.5  | 0.93  | 2        | 9/20/23   | 20:52 | CMR     |
| 4-Methyl-2-pentanone (MIBK)                        | ND      | 0.10 | 0.053 |           | ND      | 0.41 | 0.22  | 2        | 9/20/23   | 20:52 | CMR     |
| Naphthalene                                        | 0.14    | 0.10 | 0.067 | L-03      | 0.71    | 0.52 | 0.35  | 2        | 9/20/23   | 20:52 | CMR     |
| Propene                                            | ND      | 4.0  | 1.1   |           | ND      | 6.9  | 1.9   | 2        | 9/20/23   | 20:52 | CMR     |
| Styrene                                            | 0.078   | 0.10 | 0.054 | J         | 0.33    | 0.43 | 0.23  | 2        | 9/20/23   | 20:52 | CMR     |
| 1,1,2,2-Tetrachloroethane                          | ND      | 0.10 | 0.025 |           | ND      | 0.69 | 0.17  | 2        | 9/20/23   | 20:52 | CMR     |

**ANALYTICAL RESULTS**

Project Location: Buckeye Buffalo Terminal  
Date Received: 9/18/2023  
**Field Sample #: Office SS-1**  
**Sample ID: 23I2177-01**  
Sample Matrix: Sub Slab  
Sampled: 9/14/2023 16:10

Sample Description/Location:  
Sub Description/Location:  
Canister ID: 1060  
Canister Size: 6 liter  
Flow Controller ID: 3102  
Sample Type: 8 hr

**Work Order: 23I2177**  
Initial Vacuum(in Hg): -28  
Final Vacuum(in Hg): -5  
Receipt Vacuum(in Hg): -6.9  
Flow Controller Type: Fixed-Orifice  
Flow Controller Calibration  
RPD Pre and Post-Sampling: <20%

**EPA TO-15**

| Analyte                                           | ppbv    |      |       | Flag/Qual | ug/m3   |      |      | Dilution | Date/Time |       | Analyst |
|---------------------------------------------------|---------|------|-------|-----------|---------|------|------|----------|-----------|-------|---------|
|                                                   | Results | RL   | MDL   |           | Results | RL   | MDL  |          | Analyzed  |       |         |
| Tetrachloroethylene                               | 19      | 0.10 | 0.037 | L-03      | 130     | 0.68 | 0.25 | 2        | 9/20/23   | 20:52 | CMR     |
| Tetrahydrofuran                                   | 1.7     | 1.0  | 0.21  |           | 5.0     | 2.9  | 0.61 | 2        | 9/20/23   | 20:52 | CMR     |
| Toluene                                           | 0.99    | 0.10 | 0.036 |           | 3.7     | 0.38 | 0.14 | 2        | 9/20/23   | 20:52 | CMR     |
| 1,2,4-Trichlorobenzene                            | ND      | 0.10 | 0.054 |           | ND      | 0.74 | 0.40 | 2        | 9/20/23   | 20:52 | CMR     |
| 1,1,1-Trichloroethane                             | 0.60    | 0.10 | 0.031 | J         | 3.3     | 0.55 | 0.17 | 2        | 9/20/23   | 20:52 | CMR     |
| 1,1,2-Trichloroethane                             | 0.072   | 0.10 | 0.026 |           | 0.39    | 0.55 | 0.14 | 2        | 9/20/23   | 20:52 | CMR     |
| Trichloroethylene                                 | 2.5     | 0.10 | 0.041 |           | 14      | 0.54 | 0.22 | 2        | 9/20/23   | 20:52 | CMR     |
| Trichlorofluoromethane (Freon 11)                 | 0.37    | 0.40 | 0.041 |           | 2.1     | 2.2  | 0.23 | 2        | 9/20/23   | 20:52 | CMR     |
| 1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113) | 0.068   | 0.40 | 0.022 | J         | 0.52    | 3.1  | 0.17 | 2        | 9/20/23   | 20:52 | CMR     |
| 1,2,4-Trimethylbenzene                            | 1.1     | 0.10 | 0.046 | J         | 5.5     | 0.49 | 0.23 | 2        | 9/20/23   | 20:52 | CMR     |
| 1,3,5-Trimethylbenzene                            | 0.32    | 0.10 | 0.052 |           | 1.6     | 0.49 | 0.25 | 2        | 9/20/23   | 20:52 | CMR     |
| Vinyl Acetate                                     | 1.8     | 2.0  | 0.36  |           | 6.2     | 7.0  | 1.3  | 2        | 9/20/23   | 20:52 | CMR     |
| Vinyl Chloride                                    | ND      | 0.10 | 0.046 |           | ND      | 0.26 | 0.12 | 2        | 9/20/23   | 20:52 | CMR     |
| m&p-Xylene                                        | 1.6     | 0.20 | 0.070 | J         | 6.9     | 0.87 | 0.30 | 2        | 9/20/23   | 20:52 | CMR     |
| o-Xylene                                          | 0.59    | 0.10 | 0.037 |           | 2.6     | 0.43 | 0.16 | 2        | 9/20/23   | 20:52 | CMR     |

| Surrogates               | % Recovery | % REC Limits |               |
|--------------------------|------------|--------------|---------------|
| 4-Bromofluorobenzene (1) | 101        | 70-130       | 9/20/23 20:52 |

**ANALYTICAL RESULTS**

Project Location: Buckeye Buffalo Terminal  
Date Received: 9/18/2023  
**Field Sample #: Office Ambient-1**  
**Sample ID: 23I2177-02**  
Sample Matrix: Ambient Air  
Sampled: 9/14/2023 16:40

Sample Description/Location:  
Sub Description/Location:  
Canister ID: 1928  
Canister Size: 6 liter  
Flow Controller ID: 3253  
Sample Type: 8 hr

**Work Order: 23I2177**  
Initial Vacuum(in Hg): -29  
Final Vacuum(in Hg): -7  
Receipt Vacuum(in Hg): -7.0  
Flow Controller Type: Fixed-Orifice  
Flow Controller Calibration  
RPD Pre and Post-Sampling: <20%

**EPA TO-15**

| Analyte                                            | ppbv    |       |        | Flag/Qual | ug/m3   |       |       | Date/Time |               |         |
|----------------------------------------------------|---------|-------|--------|-----------|---------|-------|-------|-----------|---------------|---------|
|                                                    | Results | RL    | MDL    |           | Results | RL    | MDL   | Dilution  | Analyzed      | Analyst |
| Acetone                                            | 8.5     | 1.4   | 0.33   |           | 20      | 3.3   | 0.78  | 0.698     | 9/20/23 17:54 | CMR     |
| Benzene                                            | 0.30    | 0.035 | 0.011  |           | 0.95    | 0.11  | 0.034 | 0.698     | 9/20/23 17:54 | CMR     |
| Benzyl chloride                                    | ND      | 0.035 | 0.019  |           | ND      | 0.18  | 0.097 | 0.698     | 9/20/23 17:54 | CMR     |
| Bromodichloromethane                               | 0.036   | 0.035 | 0.0095 |           | 0.24    | 0.23  | 0.063 | 0.698     | 9/20/23 17:54 | CMR     |
| Bromoform                                          | ND      | 0.035 | 0.012  |           | ND      | 0.36  | 0.13  | 0.698     | 9/20/23 17:54 | CMR     |
| Bromomethane                                       | ND      | 0.035 | 0.019  |           | ND      | 0.14  | 0.072 | 0.698     | 9/20/23 17:54 | CMR     |
| 1,3-Butadiene                                      | ND      | 0.035 | 0.029  |           | ND      | 0.077 | 0.065 | 0.698     | 9/20/23 17:54 | CMR     |
| 2-Butanone (MEK)                                   | 0.61    | 1.4   | 0.39   | J         | 1.8     | 4.1   | 1.2   | 0.698     | 9/20/23 17:54 | CMR     |
| Carbon Disulfide                                   | 0.084   | 0.35  | 0.067  | J         | 0.26    | 1.1   | 0.21  | 0.698     | 9/20/23 17:54 | CMR     |
| Carbon Tetrachloride                               | 0.076   | 0.035 | 0.010  |           | 0.48    | 0.22  | 0.063 | 0.698     | 9/20/23 17:54 | CMR     |
| Chlorobenzene                                      | ND      | 0.035 | 0.0088 |           | ND      | 0.16  | 0.040 | 0.698     | 9/20/23 17:54 | CMR     |
| Chloroethane                                       | ND      | 0.035 | 0.022  |           | ND      | 0.092 | 0.058 | 0.698     | 9/20/23 17:54 | CMR     |
| Chloroform                                         | 0.077   | 0.035 | 0.0091 |           | 0.38    | 0.17  | 0.044 | 0.698     | 9/20/23 17:54 | CMR     |
| Chloromethane                                      | 0.47    | 0.070 | 0.014  |           | 0.97    | 0.14  | 0.029 | 0.698     | 9/20/23 17:54 | CMR     |
| Cyclohexane                                        | 0.23    | 0.035 | 0.015  |           | 0.80    | 0.12  | 0.053 | 0.698     | 9/20/23 17:54 | CMR     |
| Dibromochloromethane                               | ND      | 0.035 | 0.0094 |           | ND      | 0.30  | 0.080 | 0.698     | 9/20/23 17:54 | CMR     |
| 1,2-Dibromoethane (EDB)                            | ND      | 0.035 | 0.012  |           | ND      | 0.27  | 0.089 | 0.698     | 9/20/23 17:54 | CMR     |
| 1,2-Dichlorobenzene                                | ND      | 0.035 | 0.012  |           | ND      | 0.21  | 0.073 | 0.698     | 9/20/23 17:54 | CMR     |
| 1,3-Dichlorobenzene                                | ND      | 0.035 | 0.013  |           | ND      | 0.21  | 0.078 | 0.698     | 9/20/23 17:54 | CMR     |
| 1,4-Dichlorobenzene                                | ND      | 0.035 | 0.013  |           | ND      | 0.21  | 0.077 | 0.698     | 9/20/23 17:54 | CMR     |
| Dichlorodifluoromethane (Freon 12)                 | 0.45    | 0.035 | 0.015  |           | 2.2     | 0.17  | 0.072 | 0.698     | 9/20/23 17:54 | CMR     |
| 1,1-Dichloroethane                                 | ND      | 0.035 | 0.011  |           | ND      | 0.14  | 0.045 | 0.698     | 9/20/23 17:54 | CMR     |
| 1,2-Dichloroethane                                 | 0.018   | 0.035 | 0.013  | J         | 0.073   | 0.14  | 0.053 | 0.698     | 9/20/23 17:54 | CMR     |
| 1,1-Dichloroethylene                               | ND      | 0.035 | 0.010  |           | ND      | 0.14  | 0.039 | 0.698     | 9/20/23 17:54 | CMR     |
| cis-1,2-Dichloroethylene                           | ND      | 0.035 | 0.011  |           | ND      | 0.14  | 0.043 | 0.698     | 9/20/23 17:54 | CMR     |
| trans-1,2-Dichloroethylene                         | ND      | 0.035 | 0.011  |           | ND      | 0.14  | 0.045 | 0.698     | 9/20/23 17:54 | CMR     |
| 1,2-Dichloropropane                                | ND      | 0.035 | 0.0096 |           | ND      | 0.16  | 0.044 | 0.698     | 9/20/23 17:54 | CMR     |
| cis-1,3-Dichloropropene                            | ND      | 0.035 | 0.016  |           | ND      | 0.16  | 0.071 | 0.698     | 9/20/23 17:54 | CMR     |
| trans-1,3-Dichloropropene                          | ND      | 0.035 | 0.018  |           | ND      | 0.16  | 0.082 | 0.698     | 9/20/23 17:54 | CMR     |
| 1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114) | 0.015   | 0.035 | 0.014  | J         | 0.11    | 0.24  | 0.098 | 0.698     | 9/20/23 17:54 | CMR     |
| 1,4-Dioxane                                        | ND      | 0.35  | 0.17   |           | ND      | 1.3   | 0.62  | 0.698     | 9/20/23 17:54 | CMR     |
| Ethanol                                            | 320     | 20    | 13     |           | 600     | 38    | 25    | 10        | 9/20/23 18:22 | CMR     |
| Ethyl Acetate                                      | 0.20    | 0.35  | 0.10   | J         | 0.73    | 1.3   | 0.36  | 0.698     | 9/20/23 17:54 | CMR     |
| Ethylbenzene                                       | 0.34    | 0.035 | 0.010  |           | 1.5     | 0.15  | 0.044 | 0.698     | 9/20/23 17:54 | CMR     |
| 4-Ethyltoluene                                     | 0.061   | 0.035 | 0.015  |           | 0.30    | 0.17  | 0.075 | 0.698     | 9/20/23 17:54 | CMR     |
| Heptane                                            | 0.42    | 0.035 | 0.022  |           | 1.7     | 0.14  | 0.090 | 0.698     | 9/20/23 17:54 | CMR     |
| Hexachlorobutadiene                                | ND      | 0.035 | 0.020  |           | ND      | 0.37  | 0.21  | 0.698     | 9/20/23 17:54 | CMR     |
| Hexane                                             | 0.56    | 1.4   | 0.46   | J         | 2.0     | 4.9   | 1.6   | 0.698     | 9/20/23 17:54 | CMR     |
| 2-Hexanone (MBK)                                   | 0.092   | 0.035 | 0.015  |           | 0.38    | 0.14  | 0.062 | 0.698     | 9/20/23 17:54 | CMR     |
| Isopropanol                                        | 2.6     | 1.4   | 0.44   |           | 6.4     | 3.4   | 1.1   | 0.698     | 9/20/23 17:54 | CMR     |
| Methyl tert-Butyl Ether (MTBE)                     | 0.029   | 0.035 | 0.017  | J         | 0.11    | 0.13  | 0.062 | 0.698     | 9/20/23 17:54 | CMR     |
| Methylene Chloride                                 | 0.10    | 0.35  | 0.094  | J         | 0.35    | 1.2   | 0.33  | 0.698     | 9/20/23 17:54 | CMR     |
| 4-Methyl-2-pentanone (MIBK)                        | 1.5     | 0.035 | 0.018  |           | 6.3     | 0.14  | 0.076 | 0.698     | 9/20/23 17:54 | CMR     |
| Naphthalene                                        | 0.071   | 0.035 | 0.023  | L-03      | 0.37    | 0.18  | 0.12  | 0.698     | 9/20/23 17:54 | CMR     |
| Propene                                            | ND      | 1.4   | 0.38   |           | ND      | 2.4   | 0.65  | 0.698     | 9/20/23 17:54 | CMR     |
| Styrene                                            | 0.13    | 0.035 | 0.019  |           | 0.54    | 0.15  | 0.080 | 0.698     | 9/20/23 17:54 | CMR     |
| 1,1,2,2-Tetrachloroethane                          | ND      | 0.035 | 0.0086 |           | ND      | 0.24  | 0.059 | 0.698     | 9/20/23 17:54 | CMR     |

**ANALYTICAL RESULTS**

Project Location: Buckeye Buffalo Terminal  
 Date Received: 9/18/2023  
**Field Sample #: Office Ambient-1**  
**Sample ID: 23I2177-02**  
 Sample Matrix: Ambient Air  
 Sampled: 9/14/2023 16:40

Sample Description/Location:  
 Sub Description/Location:  
 Canister ID: 1928  
 Canister Size: 6 liter  
 Flow Controller ID: 3253  
 Sample Type: 8 hr

**Work Order: 23I2177**  
 Initial Vacuum(in Hg): -29  
 Final Vacuum(in Hg): -7  
 Receipt Vacuum(in Hg): -7.0  
 Flow Controller Type: Fixed-Orifice  
 Flow Controller Calibration  
 RPD Pre and Post-Sampling: <20%

**EPA TO-15**

| Analyte                                           | ppbv    |       |        |           | ug/m3   |       |       |               | Date/Time     |         |
|---------------------------------------------------|---------|-------|--------|-----------|---------|-------|-------|---------------|---------------|---------|
|                                                   | Results | RL    | MDL    | Flag/Qual | Results | RL    | MDL   | Dilution      | Analyzed      | Analyst |
| Tetrachloroethylene                               | 0.030   | 0.035 | 0.013  | J         | 0.20    | 0.24  | 0.089 | 0.698         | 9/20/23 17:54 | CMR     |
| Tetrahydrofuran                                   | 0.13    | 0.35  | 0.072  | J         | 0.37    | 1.0   | 0.21  | 0.698         | 9/20/23 17:54 | CMR     |
| Toluene                                           | 1.4     | 0.035 | 0.013  | L-03      | 5.3     | 0.13  | 0.048 | 0.698         | 9/20/23 17:54 | CMR     |
| 1,2,4-Trichlorobenzene                            | ND      | 0.035 | 0.019  |           | ND      | 0.26  | 0.14  | 0.698         | 9/20/23 17:54 | CMR     |
| 1,1,1-Trichloroethane                             | ND      | 0.035 | 0.011  |           | ND      | 0.19  | 0.059 | 0.698         | 9/20/23 17:54 | CMR     |
| 1,1,2-Trichloroethane                             | ND      | 0.035 | 0.0089 | J         | ND      | 0.19  | 0.049 | 0.698         | 9/20/23 17:54 | CMR     |
| Trichloroethylene                                 | ND      | 0.035 | 0.014  |           | ND      | 0.19  | 0.076 | 0.698         | 9/20/23 17:54 | CMR     |
| Trichlorofluoromethane (Freon 11)                 | 0.24    | 0.14  | 0.014  |           | 1.3     | 0.78  | 0.080 | 0.698         | 9/20/23 17:54 | CMR     |
| 1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113) | 0.064   | 0.14  | 0.0077 |           | 0.49    | 1.1   | 0.059 | 0.698         | 9/20/23 17:54 | CMR     |
| 1,2,4-Trimethylbenzene                            | 0.35    | 0.035 | 0.016  |           | 1.7     | 0.17  | 0.079 | 0.698         | 9/20/23 17:54 | CMR     |
| 1,3,5-Trimethylbenzene                            | 0.089   | 0.035 | 0.018  | 0.44      | 0.17    | 0.088 | 0.698 | 9/20/23 17:54 | CMR           |         |
| Vinyl Acetate                                     | ND      | 0.70  | 0.12   | ND        | 2.5     | 0.44  | 0.698 | 9/20/23 17:54 | CMR           |         |
| Vinyl Chloride                                    | ND      | 0.035 | 0.016  | ND        | 0.089   | 0.041 | 0.698 | 9/20/23 17:54 | CMR           |         |
| m&p-Xylene                                        | 1.1     | 0.070 | 0.024  | 4.8       | 0.30    | 0.11  | 0.698 | 9/20/23 17:54 | CMR           |         |
| o-Xylene                                          | 0.44    | 0.035 | 0.013  | 1.9       | 0.15    | 0.055 | 0.698 | 9/20/23 17:54 | CMR           |         |

| Surrogates               | % Recovery | % REC Limits |               |
|--------------------------|------------|--------------|---------------|
| 4-Bromofluorobenzene (1) | 99.9       | 70-130       | 9/20/23 17:54 |
| 4-Bromofluorobenzene (1) | 94.4       | 70-130       | 9/20/23 18:22 |

**ANALYTICAL RESULTS**

Project Location: Buckeye Buffalo Terminal  
Date Received: 9/18/2023  
**Field Sample #: Bathroom SS-1**  
**Sample ID: 23I2177-03**  
Sample Matrix: Sub Slab  
Sampled: 9/14/2023 16:25

Sample Description/Location:  
Sub Description/Location:  
Canister ID: 1886  
Canister Size: 6 liter  
Flow Controller ID: 3045  
Sample Type: 8 hr

**Work Order: 23I2177**  
Initial Vacuum(in Hg): -28  
Final Vacuum(in Hg): -7  
Receipt Vacuum(in Hg): -7.8  
Flow Controller Type: Fixed-Orifice  
Flow Controller Calibration  
RPD Pre and Post-Sampling: <20%

**EPA TO-15**

| Analyte                                            | ppbv    |      |       | Flag/Qual | ug/m3   |      |       | Dilution | Date/Time     |  | Analyst |
|----------------------------------------------------|---------|------|-------|-----------|---------|------|-------|----------|---------------|--|---------|
|                                                    | Results | RL   | MDL   |           | Results | RL   | MDL   |          | Analyzed      |  |         |
| Acetone                                            | 8.4     | 4.0  | 0.94  |           | 20      | 9.5  | 2.2   | 2        | 9/20/23 21:21 |  | CMR     |
| Benzene                                            | 0.078   | 0.10 | 0.031 | J         | 0.25    | 0.32 | 0.099 | 2        | 9/20/23 21:21 |  | CMR     |
| Benzyl chloride                                    | ND      | 0.10 | 0.054 |           | ND      | 0.52 | 0.28  | 2        | 9/20/23 21:21 |  | CMR     |
| Bromodichloromethane                               | 0.76    | 0.10 | 0.027 |           | 5.1     | 0.67 | 0.18  | 2        | 9/20/23 21:21 |  | CMR     |
| Bromoform                                          | ND      | 0.10 | 0.036 |           | ND      | 1.0  | 0.37  | 2        | 9/20/23 21:21 |  | CMR     |
| Bromomethane                                       | ND      | 0.10 | 0.053 |           | ND      | 0.39 | 0.21  | 2        | 9/20/23 21:21 |  | CMR     |
| 1,3-Butadiene                                      | ND      | 0.10 | 0.084 |           | ND      | 0.22 | 0.19  | 2        | 9/20/23 21:21 |  | CMR     |
| 2-Butanone (MEK)                                   | 2.3     | 4.0  | 1.1   | J         | 6.8     | 12   | 3.3   | 2        | 9/20/23 21:21 |  | CMR     |
| Carbon Disulfide                                   | ND      | 1.0  | 0.19  |           | ND      | 3.1  | 0.60  | 2        | 9/20/23 21:21 |  | CMR     |
| Carbon Tetrachloride                               | 0.080   | 0.10 | 0.029 | J         | 0.50    | 0.63 | 0.18  | 2        | 9/20/23 21:21 |  | CMR     |
| Chlorobenzene                                      | ND      | 0.10 | 0.025 |           | ND      | 0.46 | 0.12  | 2        | 9/20/23 21:21 |  | CMR     |
| Chloroethane                                       | ND      | 0.10 | 0.063 |           | ND      | 0.26 | 0.17  | 2        | 9/20/23 21:21 |  | CMR     |
| Chloroform                                         | 2.9     | 0.10 | 0.026 |           | 14      | 0.49 | 0.13  | 2        | 9/20/23 21:21 |  | CMR     |
| Chloromethane                                      | 0.098   | 0.20 | 0.041 | J         | 0.20    | 0.41 | 0.084 | 2        | 9/20/23 21:21 |  | CMR     |
| Cyclohexane                                        | 0.40    | 0.10 | 0.044 |           | 1.4     | 0.34 | 0.15  | 2        | 9/20/23 21:21 |  | CMR     |
| Dibromochloromethane                               | 0.17    | 0.10 | 0.027 |           | 1.4     | 0.85 | 0.23  | 2        | 9/20/23 21:21 |  | CMR     |
| 1,2-Dibromoethane (EDB)                            | ND      | 0.10 | 0.033 |           | ND      | 0.77 | 0.26  | 2        | 9/20/23 21:21 |  | CMR     |
| 1,2-Dichlorobenzene                                | ND      | 0.10 | 0.035 |           | ND      | 0.60 | 0.21  | 2        | 9/20/23 21:21 |  | CMR     |
| 1,3-Dichlorobenzene                                | ND      | 0.10 | 0.037 |           | ND      | 0.60 | 0.22  | 2        | 9/20/23 21:21 |  | CMR     |
| 1,4-Dichlorobenzene                                | 0.15    | 0.10 | 0.037 |           | 0.88    | 0.60 | 0.22  | 2        | 9/20/23 21:21 |  | CMR     |
| Dichlorodifluoromethane (Freon 12)                 | 0.46    | 0.10 | 0.042 |           | 2.3     | 0.49 | 0.21  | 2        | 9/20/23 21:21 |  | CMR     |
| 1,1-Dichloroethane                                 | ND      | 0.10 | 0.032 |           | ND      | 0.40 | 0.13  | 2        | 9/20/23 21:21 |  | CMR     |
| 1,2-Dichloroethane                                 | ND      | 0.10 | 0.038 |           | ND      | 0.40 | 0.15  | 2        | 9/20/23 21:21 |  | CMR     |
| 1,1-Dichloroethylene                               | ND      | 0.10 | 0.029 |           | ND      | 0.40 | 0.11  | 2        | 9/20/23 21:21 |  | CMR     |
| cis-1,2-Dichloroethylene                           | ND      | 0.10 | 0.031 |           | ND      | 0.40 | 0.12  | 2        | 9/20/23 21:21 |  | CMR     |
| trans-1,2-Dichloroethylene                         | ND      | 0.10 | 0.033 |           | ND      | 0.40 | 0.13  | 2        | 9/20/23 21:21 |  | CMR     |
| 1,2-Dichloropropane                                | ND      | 0.10 | 0.027 |           | ND      | 0.46 | 0.13  | 2        | 9/20/23 21:21 |  | CMR     |
| cis-1,3-Dichloropropene                            | ND      | 0.10 | 0.045 |           | ND      | 0.45 | 0.20  | 2        | 9/20/23 21:21 |  | CMR     |
| trans-1,3-Dichloropropene                          | ND      | 0.10 | 0.052 |           | ND      | 0.45 | 0.23  | 2        | 9/20/23 21:21 |  | CMR     |
| 1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114) | ND      | 0.10 | 0.040 |           | ND      | 0.70 | 0.28  | 2        | 9/20/23 21:21 |  | CMR     |
| 1,4-Dioxane                                        | ND      | 1.0  | 0.49  |           | ND      | 3.6  | 1.8   | 2        | 9/20/23 21:21 |  | CMR     |
| Ethanol                                            | 9.2     | 4.0  | 2.7   |           | 17      | 7.5  | 5.0   | 2        | 9/20/23 21:21 |  | CMR     |
| Ethyl Acetate                                      | ND      | 1.0  | 0.29  |           | ND      | 3.6  | 1.0   | 2        | 9/20/23 21:21 |  | CMR     |
| Ethylbenzene                                       | 0.044   | 0.10 | 0.029 | J         | 0.19    | 0.43 | 0.13  | 2        | 9/20/23 21:21 |  | CMR     |
| 4-Ethyltoluene                                     | ND      | 0.10 | 0.043 |           | ND      | 0.49 | 0.21  | 2        | 9/20/23 21:21 |  | CMR     |
| Heptane                                            | 0.74    | 0.10 | 0.063 |           | 3.0     | 0.41 | 0.26  | 2        | 9/20/23 21:21 |  | CMR     |
| Hexachlorobutadiene                                | ND      | 0.10 | 0.058 |           | ND      | 1.1  | 0.61  | 2        | 9/20/23 21:21 |  | CMR     |
| Hexane                                             | 6.7     | 4.0  | 1.3   |           | 24      | 14   | 4.7   | 2        | 9/20/23 21:21 |  | CMR     |
| 2-Hexanone (MBK)                                   | 0.72    | 0.10 | 0.043 |           | 2.9     | 0.41 | 0.18  | 2        | 9/20/23 21:21 |  | CMR     |
| Isopropanol                                        | 1.4     | 4.0  | 1.3   | J         | 3.4     | 9.8  | 3.1   | 2        | 9/20/23 21:21 |  | CMR     |
| Methyl tert-Butyl Ether (MTBE)                     | 0.098   | 0.10 | 0.049 | J         | 0.35    | 0.36 | 0.18  | 2        | 9/20/23 21:21 |  | CMR     |
| Methylene Chloride                                 | ND      | 1.0  | 0.27  |           | ND      | 3.5  | 0.93  | 2        | 9/20/23 21:21 |  | CMR     |
| 4-Methyl-2-pentanone (MIBK)                        | ND      | 0.10 | 0.053 |           | ND      | 0.41 | 0.22  | 2        | 9/20/23 21:21 |  | CMR     |
| Naphthalene                                        | 0.070   | 0.10 | 0.067 | L-03, J   | 0.37    | 0.52 | 0.35  | 2        | 9/20/23 21:21 |  | CMR     |
| Propene                                            | ND      | 4.0  | 1.1   |           | ND      | 6.9  | 1.9   | 2        | 9/20/23 21:21 |  | CMR     |
| Styrene                                            | ND      | 0.10 | 0.054 |           | ND      | 0.43 | 0.23  | 2        | 9/20/23 21:21 |  | CMR     |
| 1,1,2,2-Tetrachloroethane                          | ND      | 0.10 | 0.025 |           | ND      | 0.69 | 0.17  | 2        | 9/20/23 21:21 |  | CMR     |

**ANALYTICAL RESULTS**

Project Location: Buckeye Buffalo Terminal  
Date Received: 9/18/2023  
**Field Sample #: Bathroom SS-1**  
**Sample ID: 2312177-03**  
Sample Matrix: Sub Slab  
Sampled: 9/14/2023 16:25

Sample Description/Location:  
Sub Description/Location:  
Canister ID: 1886  
Canister Size: 6 liter  
Flow Controller ID: 3045  
Sample Type: 8 hr

**Work Order: 2312177**  
Initial Vacuum(in Hg): -28  
Final Vacuum(in Hg): -7  
Receipt Vacuum(in Hg): -7.8  
Flow Controller Type: Fixed-Orifice  
Flow Controller Calibration  
RPD Pre and Post-Sampling: <20%

**EPA TO-15**

| Analyte                                           | ppbv    |      |       | Flag/Qual | ug/m3   |      |      | Dilution | Date/Time     |  | Analyst |
|---------------------------------------------------|---------|------|-------|-----------|---------|------|------|----------|---------------|--|---------|
|                                                   | Results | RL   | MDL   |           | Results | RL   | MDL  |          | Analyzed      |  |         |
| Tetrachloroethylene                               | 2.8     | 0.10 | 0.037 |           | 19      | 0.68 | 0.25 | 2        | 9/20/23 21:21 |  | CMR     |
| Tetrahydrofuran                                   | 0.65    | 1.0  | 0.21  | J         | 1.9     | 2.9  | 0.61 | 2        | 9/20/23 21:21 |  | CMR     |
| Toluene                                           | 0.14    | 0.10 | 0.036 |           | 0.54    | 0.38 | 0.14 | 2        | 9/20/23 21:21 |  | CMR     |
| 1,2,4-Trichlorobenzene                            | ND      | 0.10 | 0.054 | L-03      | ND      | 0.74 | 0.40 | 2        | 9/20/23 21:21 |  | CMR     |
| 1,1,1-Trichloroethane                             | 0.23    | 0.10 | 0.031 |           | 1.2     | 0.55 | 0.17 | 2        | 9/20/23 21:21 |  | CMR     |
| 1,1,2-Trichloroethane                             | ND      | 0.10 | 0.026 |           | ND      | 0.55 | 0.14 | 2        | 9/20/23 21:21 |  | CMR     |
| Trichloroethylene                                 | 0.084   | 0.10 | 0.041 | J         | 0.45    | 0.54 | 0.22 | 2        | 9/20/23 21:21 |  | CMR     |
| Trichlorofluoromethane (Freon 11)                 | 0.96    | 0.40 | 0.041 |           | 5.4     | 2.2  | 0.23 | 2        | 9/20/23 21:21 |  | CMR     |
| 1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113) | 0.072   | 0.40 | 0.022 | J         | 0.55    | 3.1  | 0.17 | 2        | 9/20/23 21:21 |  | CMR     |
| 1,2,4-Trimethylbenzene                            | 0.15    | 0.10 | 0.046 |           | 0.76    | 0.49 | 0.23 | 2        | 9/20/23 21:21 |  | CMR     |
| 1,3,5-Trimethylbenzene                            | ND      | 0.10 | 0.052 |           | ND      | 0.49 | 0.25 | 2        | 9/20/23 21:21 |  | CMR     |
| Vinyl Acetate                                     | 1.5     | 2.0  | 0.36  | J         | 5.4     | 7.0  | 1.3  | 2        | 9/20/23 21:21 |  | CMR     |
| Vinyl Chloride                                    | ND      | 0.10 | 0.046 |           | ND      | 0.26 | 0.12 | 2        | 9/20/23 21:21 |  | CMR     |
| m&p-Xylene                                        | 0.19    | 0.20 | 0.070 | J         | 0.83    | 0.87 | 0.30 | 2        | 9/20/23 21:21 |  | CMR     |
| o-Xylene                                          | 0.056   | 0.10 | 0.037 | J         | 0.24    | 0.43 | 0.16 | 2        | 9/20/23 21:21 |  | CMR     |

| Surrogates               | % Recovery | % REC Limits |               |
|--------------------------|------------|--------------|---------------|
| 4-Bromofluorobenzene (1) | 97.4       | 70-130       | 9/20/23 21:21 |

**ANALYTICAL RESULTS**

Project Location: Buckeye Buffalo Terminal  
 Date Received: 9/18/2023  
**Field Sample #: Bathroom Ambient-1**  
**Sample ID: 23I2177-04**  
 Sample Matrix: Ambient Air  
 Sampled: 9/14/2023 16:20

Sample Description/Location:  
 Sub Description/Location:  
 Canister ID: 1843  
 Canister Size: 6 liter  
 Flow Controller ID: 3087  
 Sample Type: 8 hr

**Work Order: 23I2177**  
 Initial Vacuum(in Hg): -28  
 Final Vacuum(in Hg): -6  
 Receipt Vacuum(in Hg): -6.5  
 Flow Controller Type: Fixed-Orifice  
 Flow Controller Calibration  
 RPD Pre and Post-Sampling: <20%

**EPA TO-15**

| Analyte                                            | ppbv    |       |        | Flag/Qual | ug/m3   |       |       | Dilution | Date/Time     |  | Analyst |
|----------------------------------------------------|---------|-------|--------|-----------|---------|-------|-------|----------|---------------|--|---------|
|                                                    | Results | RL    | MDL    |           | Results | RL    | MDL   |          | Analyzed      |  |         |
| Acetone                                            | 10      | 1.4   | 0.33   |           | 24      | 3.3   | 0.78  | 0.698    | 9/20/23 18:55 |  | CMR     |
| Benzene                                            | 0.33    | 0.035 | 0.011  |           | 1.0     | 0.11  | 0.034 | 0.698    | 9/20/23 18:55 |  | CMR     |
| Benzyl chloride                                    | ND      | 0.035 | 0.019  |           | ND      | 0.18  | 0.097 | 0.698    | 9/20/23 18:55 |  | CMR     |
| Bromodichloromethane                               | 0.14    | 0.035 | 0.0095 |           | 0.96    | 0.23  | 0.063 | 0.698    | 9/20/23 18:55 |  | CMR     |
| Bromoform                                          | ND      | 0.035 | 0.012  |           | ND      | 0.36  | 0.13  | 0.698    | 9/20/23 18:55 |  | CMR     |
| Bromomethane                                       | ND      | 0.035 | 0.019  |           | ND      | 0.14  | 0.072 | 0.698    | 9/20/23 18:55 |  | CMR     |
| 1,3-Butadiene                                      | ND      | 0.035 | 0.029  |           | ND      | 0.077 | 0.065 | 0.698    | 9/20/23 18:55 |  | CMR     |
| 2-Butanone (MEK)                                   | 0.96    | 1.4   | 0.39   | J         | 2.8     | 4.1   | 1.2   | 0.698    | 9/20/23 18:55 |  | CMR     |
| Carbon Disulfide                                   | 0.077   | 0.35  | 0.067  | J         | 0.24    | 1.1   | 0.21  | 0.698    | 9/20/23 18:55 |  | CMR     |
| Carbon Tetrachloride                               | 0.077   | 0.035 | 0.010  |           | 0.49    | 0.22  | 0.063 | 0.698    | 9/20/23 18:55 |  | CMR     |
| Chlorobenzene                                      | ND      | 0.035 | 0.0088 |           | ND      | 0.16  | 0.040 | 0.698    | 9/20/23 18:55 |  | CMR     |
| Chloroethane                                       | ND      | 0.035 | 0.022  |           | ND      | 0.092 | 0.058 | 0.698    | 9/20/23 18:55 |  | CMR     |
| Chloroform                                         | 0.35    | 0.035 | 0.0091 |           | 1.7     | 0.17  | 0.044 | 0.698    | 9/20/23 18:55 |  | CMR     |
| Chloromethane                                      | 0.44    | 0.070 | 0.014  |           | 0.91    | 0.14  | 0.029 | 0.698    | 9/20/23 18:55 |  | CMR     |
| Cyclohexane                                        | 0.24    | 0.035 | 0.015  |           | 0.82    | 0.12  | 0.053 | 0.698    | 9/20/23 18:55 |  | CMR     |
| Dibromochloromethane                               | 0.030   | 0.035 | 0.0094 | J         | 0.26    | 0.30  | 0.080 | 0.698    | 9/20/23 18:55 |  | CMR     |
| 1,2-Dibromoethane (EDB)                            | ND      | 0.035 | 0.012  |           | ND      | 0.27  | 0.089 | 0.698    | 9/20/23 18:55 |  | CMR     |
| 1,2-Dichlorobenzene                                | ND      | 0.035 | 0.012  |           | ND      | 0.21  | 0.073 | 0.698    | 9/20/23 18:55 |  | CMR     |
| 1,3-Dichlorobenzene                                | ND      | 0.035 | 0.013  |           | ND      | 0.21  | 0.078 | 0.698    | 9/20/23 18:55 |  | CMR     |
| 1,4-Dichlorobenzene                                | ND      | 0.035 | 0.013  |           | ND      | 0.21  | 0.077 | 0.698    | 9/20/23 18:55 |  | CMR     |
| Dichlorodifluoromethane (Freon 12)                 | 0.43    | 0.035 | 0.015  |           | 2.1     | 0.17  | 0.072 | 0.698    | 9/20/23 18:55 |  | CMR     |
| 1,1-Dichloroethane                                 | ND      | 0.035 | 0.011  |           | ND      | 0.14  | 0.045 | 0.698    | 9/20/23 18:55 |  | CMR     |
| 1,2-Dichloroethane                                 | ND      | 0.035 | 0.013  |           | ND      | 0.14  | 0.053 | 0.698    | 9/20/23 18:55 |  | CMR     |
| 1,1-Dichloroethylene                               | ND      | 0.035 | 0.010  |           | ND      | 0.14  | 0.039 | 0.698    | 9/20/23 18:55 |  | CMR     |
| cis-1,2-Dichloroethylene                           | ND      | 0.035 | 0.011  |           | ND      | 0.14  | 0.043 | 0.698    | 9/20/23 18:55 |  | CMR     |
| trans-1,2-Dichloroethylene                         | ND      | 0.035 | 0.011  |           | ND      | 0.14  | 0.045 | 0.698    | 9/20/23 18:55 |  | CMR     |
| 1,2-Dichloropropane                                | ND      | 0.035 | 0.0096 |           | ND      | 0.16  | 0.044 | 0.698    | 9/20/23 18:55 |  | CMR     |
| cis-1,3-Dichloropropene                            | ND      | 0.035 | 0.016  |           | ND      | 0.16  | 0.071 | 0.698    | 9/20/23 18:55 |  | CMR     |
| trans-1,3-Dichloropropene                          | ND      | 0.035 | 0.018  |           | ND      | 0.16  | 0.082 | 0.698    | 9/20/23 18:55 |  | CMR     |
| 1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114) | 0.017   | 0.035 | 0.014  | J         | 0.12    | 0.24  | 0.098 | 0.698    | 9/20/23 18:55 |  | CMR     |
| 1,4-Dioxane                                        | ND      | 0.35  | 0.17   |           | ND      | 1.3   | 0.62  | 0.698    | 9/20/23 18:55 |  | CMR     |
| Ethanol                                            | 210     | 20    | 13     |           | 390     | 38    | 25    | 10       | 9/20/23 19:23 |  | CMR     |
| Ethyl Acetate                                      | 0.26    | 0.35  | 0.10   | J         | 0.93    | 1.3   | 0.36  | 0.698    | 9/20/23 18:55 |  | CMR     |
| Ethylbenzene                                       | 0.37    | 0.035 | 0.010  |           | 1.6     | 0.15  | 0.044 | 0.698    | 9/20/23 18:55 |  | CMR     |
| 4-Ethyltoluene                                     | 0.073   | 0.035 | 0.015  |           | 0.36    | 0.17  | 0.075 | 0.698    | 9/20/23 18:55 |  | CMR     |
| Heptane                                            | 0.26    | 0.035 | 0.022  |           | 1.1     | 0.14  | 0.090 | 0.698    | 9/20/23 18:55 |  | CMR     |
| Hexachlorobutadiene                                | 0.038   | 0.035 | 0.020  |           | 0.40    | 0.37  | 0.21  | 0.698    | 9/20/23 18:55 |  | CMR     |
| Hexane                                             | 0.59    | 1.4   | 0.46   | J         | 2.1     | 4.9   | 1.6   | 0.698    | 9/20/23 18:55 |  | CMR     |
| 2-Hexanone (MBK)                                   | 0.19    | 0.035 | 0.015  |           | 0.79    | 0.14  | 0.062 | 0.698    | 9/20/23 18:55 |  | CMR     |
| Isopropanol                                        | 2.0     | 1.4   | 0.44   |           | 4.9     | 3.4   | 1.1   | 0.698    | 9/20/23 18:55 |  | CMR     |
| Methyl tert-Butyl Ether (MTBE)                     | 0.033   | 0.035 | 0.017  | J         | 0.12    | 0.13  | 0.062 | 0.698    | 9/20/23 18:55 |  | CMR     |
| Methylene Chloride                                 | 0.11    | 0.35  | 0.094  | J         | 0.38    | 1.2   | 0.33  | 0.698    | 9/20/23 18:55 |  | CMR     |
| 4-Methyl-2-pentanone (MIBK)                        | 0.86    | 0.035 | 0.018  |           | 3.5     | 0.14  | 0.076 | 0.698    | 9/20/23 18:55 |  | CMR     |
| Naphthalene                                        | 0.16    | 0.035 | 0.023  | L-03      | 0.82    | 0.18  | 0.12  | 0.698    | 9/20/23 18:55 |  | CMR     |
| Propene                                            | ND      | 1.4   | 0.38   |           | ND      | 2.4   | 0.65  | 0.698    | 9/20/23 18:55 |  | CMR     |
| Styrene                                            | 0.12    | 0.035 | 0.019  |           | 0.51    | 0.15  | 0.080 | 0.698    | 9/20/23 18:55 |  | CMR     |
| 1,1,2,2-Tetrachloroethane                          | ND      | 0.035 | 0.0086 |           | ND      | 0.24  | 0.059 | 0.698    | 9/20/23 18:55 |  | CMR     |

**ANALYTICAL RESULTS**

Project Location: Buckeye Buffalo Terminal  
 Date Received: 9/18/2023  
**Field Sample #: Bathroom Ambient-1**  
**Sample ID: 23I2177-04**  
 Sample Matrix: Ambient Air  
 Sampled: 9/14/2023 16:20

Sample Description/Location:  
 Sub Description/Location:  
 Canister ID: 1843  
 Canister Size: 6 liter  
 Flow Controller ID: 3087  
 Sample Type: 8 hr

**Work Order: 23I2177**  
 Initial Vacuum(in Hg): -28  
 Final Vacuum(in Hg): -6  
 Receipt Vacuum(in Hg): -6.5  
 Flow Controller Type: Fixed-Orifice  
 Flow Controller Calibration  
 RPD Pre and Post-Sampling: <20%

**EPA TO-15**

| Analyte                                           | ppbv    |       |        | Flag/Qual | ug/m3   |       |       | Date/Time |               |         |
|---------------------------------------------------|---------|-------|--------|-----------|---------|-------|-------|-----------|---------------|---------|
|                                                   | Results | RL    | MDL    |           | Results | RL    | MDL   | Dilution  | Analyzed      | Analyst |
| Tetrachloroethylene                               | 0.050   | 0.035 | 0.013  |           | 0.34    | 0.24  | 0.089 | 0.698     | 9/20/23 18:55 | CMR     |
| Tetrahydrofuran                                   | 0.10    | 0.35  | 0.072  | J         | 0.31    | 1.0   | 0.21  | 0.698     | 9/20/23 18:55 | CMR     |
| Toluene                                           | 1.4     | 0.035 | 0.013  |           | 5.4     | 0.13  | 0.048 | 0.698     | 9/20/23 18:55 | CMR     |
| 1,2,4-Trichlorobenzene                            | 0.029   | 0.035 | 0.019  | L-03, J   | 0.22    | 0.26  | 0.14  | 0.698     | 9/20/23 18:55 | CMR     |
| 1,1,1-Trichloroethane                             | 0.019   | 0.035 | 0.011  | J         | 0.10    | 0.19  | 0.059 | 0.698     | 9/20/23 18:55 | CMR     |
| 1,1,2-Trichloroethane                             | ND      | 0.035 | 0.0089 |           | ND      | 0.19  | 0.049 | 0.698     | 9/20/23 18:55 | CMR     |
| Trichloroethylene                                 | ND      | 0.035 | 0.014  |           | ND      | 0.19  | 0.076 | 0.698     | 9/20/23 18:55 | CMR     |
| Trichlorofluoromethane (Freon 11)                 | 0.26    | 0.14  | 0.014  |           | 1.4     | 0.78  | 0.080 | 0.698     | 9/20/23 18:55 | CMR     |
| 1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113) | 0.067   | 0.14  | 0.0077 | J         | 0.51    | 1.1   | 0.059 | 0.698     | 9/20/23 18:55 | CMR     |
| 1,2,4-Trimethylbenzene                            | 0.37    | 0.035 | 0.016  |           | 1.8     | 0.17  | 0.079 | 0.698     | 9/20/23 18:55 | CMR     |
| 1,3,5-Trimethylbenzene                            | 0.094   | 0.035 | 0.018  |           | 0.46    | 0.17  | 0.088 | 0.698     | 9/20/23 18:55 | CMR     |
| Vinyl Acetate                                     | ND      | 0.70  | 0.12   |           | ND      | 2.5   | 0.44  | 0.698     | 9/20/23 18:55 | CMR     |
| Vinyl Chloride                                    | ND      | 0.035 | 0.016  |           | ND      | 0.089 | 0.041 | 0.698     | 9/20/23 18:55 | CMR     |
| m&p-Xylene                                        | 1.2     | 0.070 | 0.024  |           | 5.3     | 0.30  | 0.11  | 0.698     | 9/20/23 18:55 | CMR     |
| o-Xylene                                          | 0.47    | 0.035 | 0.013  |           | 2.1     | 0.15  | 0.055 | 0.698     | 9/20/23 18:55 | CMR     |

| Surrogates               | % Recovery | % REC Limits |               |
|--------------------------|------------|--------------|---------------|
| 4-Bromofluorobenzene (1) | 94.6       | 70-130       | 9/20/23 19:23 |
| 4-Bromofluorobenzene (1) | 98.1       | 70-130       | 9/20/23 18:55 |

**ANALYTICAL RESULTS**

Project Location: Buckeye Buffalo Terminal  
Date Received: 9/18/2023  
**Field Sample #: Driver Bathroom SS-1**  
**Sample ID: 23I2177-05**  
Sample Matrix: Sub Slab  
Sampled: 9/14/2023 14:15

Sample Description/Location:  
Sub Description/Location:  
Canister ID: 2023  
Canister Size: 6 liter  
Flow Controller ID: 5079  
Sample Type: 8 hr

**Work Order: 23I2177**  
Initial Vacuum(in Hg): -30  
Final Vacuum(in Hg): -2  
Receipt Vacuum(in Hg): -2.4  
Flow Controller Type: Fixed-Orifice  
Flow Controller Calibration  
RPD Pre and Post-Sampling: <20%

**EPA TO-15**

| Analyte                                            | ppbv    |      |       | Flag/Qual | ug/m3   |      |       | Dilution | Date/Time     |         |
|----------------------------------------------------|---------|------|-------|-----------|---------|------|-------|----------|---------------|---------|
|                                                    | Results | RL   | MDL   |           | Results | RL   | MDL   |          | Analyzed      | Analyst |
| Acetone                                            | 24      | 4.0  | 0.94  |           | 58      | 9.5  | 2.2   | 2        | 9/20/23 21:49 | CMR     |
| Benzene                                            | 0.24    | 0.10 | 0.031 |           | 0.77    | 0.32 | 0.099 | 2        | 9/20/23 21:49 | CMR     |
| Benzyl chloride                                    | ND      | 0.10 | 0.054 |           | ND      | 0.52 | 0.28  | 2        | 9/20/23 21:49 | CMR     |
| Bromodichloromethane                               | 2.7     | 0.10 | 0.027 |           | 18      | 0.67 | 0.18  | 2        | 9/20/23 21:49 | CMR     |
| Bromoform                                          | ND      | 0.10 | 0.036 |           | ND      | 1.0  | 0.37  | 2        | 9/20/23 21:49 | CMR     |
| Bromomethane                                       | ND      | 0.10 | 0.053 |           | ND      | 0.39 | 0.21  | 2        | 9/20/23 21:49 | CMR     |
| 1,3-Butadiene                                      | ND      | 0.10 | 0.084 |           | ND      | 0.22 | 0.19  | 2        | 9/20/23 21:49 | CMR     |
| 2-Butanone (MEK)                                   | 7.0     | 4.0  | 1.1   |           | 21      | 12   | 3.3   | 2        | 9/20/23 21:49 | CMR     |
| Carbon Disulfide                                   | 0.31    | 1.0  | 0.19  | J         | 0.98    | 3.1  | 0.60  | 2        | 9/20/23 21:49 | CMR     |
| Carbon Tetrachloride                               | 0.078   | 0.10 | 0.029 | J         | 0.49    | 0.63 | 0.18  | 2        | 9/20/23 21:49 | CMR     |
| Chlorobenzene                                      | ND      | 0.10 | 0.025 |           | ND      | 0.46 | 0.12  | 2        | 9/20/23 21:49 | CMR     |
| Chloroethane                                       | ND      | 0.10 | 0.063 |           | ND      | 0.26 | 0.17  | 2        | 9/20/23 21:49 | CMR     |
| Chloroform                                         | 2.5     | 0.10 | 0.026 |           | 12      | 0.49 | 0.13  | 2        | 9/20/23 21:49 | CMR     |
| Chloromethane                                      | 0.10    | 0.20 | 0.041 | J         | 0.21    | 0.41 | 0.084 | 2        | 9/20/23 21:49 | CMR     |
| Cyclohexane                                        | 0.14    | 0.10 | 0.044 |           | 0.48    | 0.34 | 0.15  | 2        | 9/20/23 21:49 | CMR     |
| Dibromochloromethane                               | 0.86    | 0.10 | 0.027 |           | 7.3     | 0.85 | 0.23  | 2        | 9/20/23 21:49 | CMR     |
| 1,2-Dibromoethane (EDB)                            | ND      | 0.10 | 0.033 |           | ND      | 0.77 | 0.26  | 2        | 9/20/23 21:49 | CMR     |
| 1,2-Dichlorobenzene                                | ND      | 0.10 | 0.035 |           | ND      | 0.60 | 0.21  | 2        | 9/20/23 21:49 | CMR     |
| 1,3-Dichlorobenzene                                | ND      | 0.10 | 0.037 |           | ND      | 0.60 | 0.22  | 2        | 9/20/23 21:49 | CMR     |
| 1,4-Dichlorobenzene                                | 0.11    | 0.10 | 0.037 |           | 0.69    | 0.60 | 0.22  | 2        | 9/20/23 21:49 | CMR     |
| Dichlorodifluoromethane (Freon 12)                 | 0.52    | 0.10 | 0.042 |           | 2.6     | 0.49 | 0.21  | 2        | 9/20/23 21:49 | CMR     |
| 1,1-Dichloroethane                                 | ND      | 0.10 | 0.032 |           | ND      | 0.40 | 0.13  | 2        | 9/20/23 21:49 | CMR     |
| 1,2-Dichloroethane                                 | ND      | 0.10 | 0.038 |           | ND      | 0.40 | 0.15  | 2        | 9/20/23 21:49 | CMR     |
| 1,1-Dichloroethylene                               | ND      | 0.10 | 0.029 |           | ND      | 0.40 | 0.11  | 2        | 9/20/23 21:49 | CMR     |
| cis-1,2-Dichloroethylene                           | ND      | 0.10 | 0.031 |           | ND      | 0.40 | 0.12  | 2        | 9/20/23 21:49 | CMR     |
| trans-1,2-Dichloroethylene                         | ND      | 0.10 | 0.033 |           | ND      | 0.40 | 0.13  | 2        | 9/20/23 21:49 | CMR     |
| 1,2-Dichloropropane                                | ND      | 0.10 | 0.027 |           | ND      | 0.46 | 0.13  | 2        | 9/20/23 21:49 | CMR     |
| cis-1,3-Dichloropropene                            | ND      | 0.10 | 0.045 |           | ND      | 0.45 | 0.20  | 2        | 9/20/23 21:49 | CMR     |
| trans-1,3-Dichloropropene                          | ND      | 0.10 | 0.052 |           | ND      | 0.45 | 0.23  | 2        | 9/20/23 21:49 | CMR     |
| 1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114) | ND      | 0.10 | 0.040 |           | ND      | 0.70 | 0.28  | 2        | 9/20/23 21:49 | CMR     |
| 1,4-Dioxane                                        | ND      | 1.0  | 0.49  |           | ND      | 3.6  | 1.8   | 2        | 9/20/23 21:49 | CMR     |
| Ethanol                                            | 97      | 4.0  | 2.7   |           | 180     | 7.5  | 5.0   | 2        | 9/20/23 21:49 | CMR     |
| Ethyl Acetate                                      | ND      | 1.0  | 0.29  |           | ND      | 3.6  | 1.0   | 2        | 9/20/23 21:49 | CMR     |
| Ethylbenzene                                       | 2.7     | 0.10 | 0.029 |           | 12      | 0.43 | 0.13  | 2        | 9/20/23 21:49 | CMR     |
| 4-Ethyltoluene                                     | 0.15    | 0.10 | 0.043 |           | 0.75    | 0.49 | 0.21  | 2        | 9/20/23 21:49 | CMR     |
| Heptane                                            | 0.28    | 0.10 | 0.063 |           | 1.2     | 0.41 | 0.26  | 2        | 9/20/23 21:49 | CMR     |
| Hexachlorobutadiene                                | ND      | 0.10 | 0.058 |           | ND      | 1.1  | 0.61  | 2        | 9/20/23 21:49 | CMR     |
| Hexane                                             | ND      | 4.0  | 1.3   |           | ND      | 14   | 4.7   | 2        | 9/20/23 21:49 | CMR     |
| 2-Hexanone (MBK)                                   | 0.97    | 0.10 | 0.043 |           | 4.0     | 0.41 | 0.18  | 2        | 9/20/23 21:49 | CMR     |
| Isopropanol                                        | 4.7     | 4.0  | 1.3   |           | 11      | 9.8  | 3.1   | 2        | 9/20/23 21:49 | CMR     |
| Methyl tert-Butyl Ether (MTBE)                     | ND      | 0.10 | 0.049 |           | ND      | 0.36 | 0.18  | 2        | 9/20/23 21:49 | CMR     |
| Methylene Chloride                                 | ND      | 1.0  | 0.27  |           | ND      | 3.5  | 0.93  | 2        | 9/20/23 21:49 | CMR     |
| 4-Methyl-2-pentanone (MIBK)                        | 3.5     | 0.10 | 0.053 |           | 14      | 0.41 | 0.22  | 2        | 9/20/23 21:49 | CMR     |
| Naphthalene                                        | 0.14    | 0.10 | 0.067 | L-03      | 0.73    | 0.52 | 0.35  | 2        | 9/20/23 21:49 | CMR     |
| Propene                                            | ND      | 4.0  | 1.1   |           | ND      | 6.9  | 1.9   | 2        | 9/20/23 21:49 | CMR     |
| Styrene                                            | 0.42    | 0.10 | 0.054 |           | 1.8     | 0.43 | 0.23  | 2        | 9/20/23 21:49 | CMR     |
| 1,1,2,2-Tetrachloroethane                          | ND      | 0.10 | 0.025 |           | ND      | 0.69 | 0.17  | 2        | 9/20/23 21:49 | CMR     |

**ANALYTICAL RESULTS**

Project Location: Buckeye Buffalo Terminal  
Date Received: 9/18/2023  
**Field Sample #: Driver Bathroom SS-1**  
**Sample ID: 23I2177-05**  
Sample Matrix: Sub Slab  
Sampled: 9/14/2023 14:15

Sample Description/Location:  
Sub Description/Location:  
Canister ID: 2023  
Canister Size: 6 liter  
Flow Controller ID: 5079  
Sample Type: 8 hr

**Work Order: 23I2177**  
Initial Vacuum(in Hg): -30  
Final Vacuum(in Hg): -2  
Receipt Vacuum(in Hg): -2.4  
Flow Controller Type: Fixed-Orifice  
Flow Controller Calibration  
RPD Pre and Post-Sampling: <20%

**EPA TO-15**

| Analyte                                           | ppbv    |      |       | Flag/Qual | ug/m3   |      |      | Dilution | Date/Time     |         |
|---------------------------------------------------|---------|------|-------|-----------|---------|------|------|----------|---------------|---------|
|                                                   | Results | RL   | MDL   |           | Results | RL   | MDL  |          | Analyzed      | Analyst |
| Tetrachloroethylene                               | 3.6     | 0.10 | 0.037 |           | 24      | 0.68 | 0.25 | 2        | 9/20/23 21:49 | CMR     |
| Tetrahydrofuran                                   | 0.85    | 1.0  | 0.21  | J         | 2.5     | 2.9  | 0.61 | 2        | 9/20/23 21:49 | CMR     |
| Toluene                                           | 4.1     | 0.10 | 0.036 |           | 15      | 0.38 | 0.14 | 2        | 9/20/23 21:49 | CMR     |
| 1,2,4-Trichlorobenzene                            | ND      | 0.10 | 0.054 | L-03      | ND      | 0.74 | 0.40 | 2        | 9/20/23 21:49 | CMR     |
| 1,1,1-Trichloroethane                             | 0.23    | 0.10 | 0.031 |           | 1.3     | 0.55 | 0.17 | 2        | 9/20/23 21:49 | CMR     |
| 1,1,2-Trichloroethane                             | ND      | 0.10 | 0.026 |           | ND      | 0.55 | 0.14 | 2        | 9/20/23 21:49 | CMR     |
| Trichloroethylene                                 | 0.068   | 0.10 | 0.041 | J         | 0.37    | 0.54 | 0.22 | 2        | 9/20/23 21:49 | CMR     |
| Trichlorofluoromethane (Freon 11)                 | 1.7     | 0.40 | 0.041 |           | 9.7     | 2.2  | 0.23 | 2        | 9/20/23 21:49 | CMR     |
| 1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113) | 0.066   | 0.40 | 0.022 | J         | 0.51    | 3.1  | 0.17 | 2        | 9/20/23 21:49 | CMR     |
| 1,2,4-Trimethylbenzene                            | 0.74    | 0.10 | 0.046 |           | 3.7     | 0.49 | 0.23 | 2        | 9/20/23 21:49 | CMR     |
| 1,3,5-Trimethylbenzene                            | 0.23    | 0.10 | 0.052 |           | 1.1     | 0.49 | 0.25 | 2        | 9/20/23 21:49 | CMR     |
| Vinyl Acetate                                     | 1.4     | 2.0  | 0.36  | J         | 5.0     | 7.0  | 1.3  | 2        | 9/20/23 21:49 | CMR     |
| Vinyl Chloride                                    | ND      | 0.10 | 0.046 |           | ND      | 0.26 | 0.12 | 2        | 9/20/23 21:49 | CMR     |
| m&p-Xylene                                        | 11      | 0.20 | 0.070 |           | 48      | 0.87 | 0.30 | 2        | 9/20/23 21:49 | CMR     |
| o-Xylene                                          | 3.5     | 0.10 | 0.037 |           | 15      | 0.43 | 0.16 | 2        | 9/20/23 21:49 | CMR     |

| Surrogates               | % Recovery | % REC Limits |               |
|--------------------------|------------|--------------|---------------|
| 4-Bromofluorobenzene (1) | 98.8       | 70-130       | 9/20/23 21:49 |

**ANALYTICAL RESULTS**

Project Location: Buckeye Buffalo Terminal  
Date Received: 9/18/2023  
**Field Sample #: Driver Bathroom Ambient-1**  
**Sample ID: 23I2177-06**  
Sample Matrix: Ambient Air  
Sampled: 9/14/2023 16:45

Sample Description/Location:  
Sub Description/Location:  
Canister ID: 2207  
Canister Size: 6 liter  
Flow Controller ID: 3176  
Sample Type: 8 hr

**Work Order: 23I2177**  
Initial Vacuum(in Hg): -30  
Final Vacuum(in Hg): -7  
Receipt Vacuum(in Hg): -6.7  
Flow Controller Type: Fixed-Orifice  
Flow Controller Calibration  
RPD Pre and Post-Sampling: <20%

**EPA TO-15**

| Analyte                                            | ppbv    |       |        | Flag/Qual | ug/m3   |       |       | Dilution | Date/Time     |  | Analyst |
|----------------------------------------------------|---------|-------|--------|-----------|---------|-------|-------|----------|---------------|--|---------|
|                                                    | Results | RL    | MDL    |           | Results | RL    | MDL   |          | Analyzed      |  |         |
| Acetone                                            | 7.4     | 1.4   | 0.33   |           | 18      | 3.3   | 0.78  | 0.698    | 9/20/23 19:56 |  | CMR     |
| Benzene                                            | 0.19    | 0.035 | 0.011  |           | 0.61    | 0.11  | 0.034 | 0.698    | 9/20/23 19:56 |  | CMR     |
| Benzyl chloride                                    | ND      | 0.035 | 0.019  |           | ND      | 0.18  | 0.097 | 0.698    | 9/20/23 19:56 |  | CMR     |
| Bromodichloromethane                               | ND      | 0.035 | 0.0095 |           | ND      | 0.23  | 0.063 | 0.698    | 9/20/23 19:56 |  | CMR     |
| Bromoform                                          | ND      | 0.035 | 0.012  |           | ND      | 0.36  | 0.13  | 0.698    | 9/20/23 19:56 |  | CMR     |
| Bromomethane                                       | ND      | 0.035 | 0.019  |           | ND      | 0.14  | 0.072 | 0.698    | 9/20/23 19:56 |  | CMR     |
| 1,3-Butadiene                                      | ND      | 0.035 | 0.029  |           | ND      | 0.077 | 0.065 | 0.698    | 9/20/23 19:56 |  | CMR     |
| 2-Butanone (MEK)                                   | 1.5     | 1.4   | 0.39   |           | 4.4     | 4.1   | 1.2   | 0.698    | 9/20/23 19:56 |  | CMR     |
| Carbon Disulfide                                   | ND      | 0.35  | 0.067  |           | ND      | 1.1   | 0.21  | 0.698    | 9/20/23 19:56 |  | CMR     |
| Carbon Tetrachloride                               | 0.077   | 0.035 | 0.010  |           | 0.48    | 0.22  | 0.063 | 0.698    | 9/20/23 19:56 |  | CMR     |
| Chlorobenzene                                      | ND      | 0.035 | 0.0088 |           | ND      | 0.16  | 0.040 | 0.698    | 9/20/23 19:56 |  | CMR     |
| Chloroethane                                       | ND      | 0.035 | 0.022  |           | ND      | 0.092 | 0.058 | 0.698    | 9/20/23 19:56 |  | CMR     |
| Chloroform                                         | 0.020   | 0.035 | 0.0091 | J         | 0.095   | 0.17  | 0.044 | 0.698    | 9/20/23 19:56 |  | CMR     |
| Chloromethane                                      | 0.44    | 0.070 | 0.014  |           | 0.91    | 0.14  | 0.029 | 0.698    | 9/20/23 19:56 |  | CMR     |
| Cyclohexane                                        | 0.089   | 0.035 | 0.015  |           | 0.31    | 0.12  | 0.053 | 0.698    | 9/20/23 19:56 |  | CMR     |
| Dibromochloromethane                               | ND      | 0.035 | 0.0094 |           | ND      | 0.30  | 0.080 | 0.698    | 9/20/23 19:56 |  | CMR     |
| 1,2-Dibromoethane (EDB)                            | ND      | 0.035 | 0.012  |           | ND      | 0.27  | 0.089 | 0.698    | 9/20/23 19:56 |  | CMR     |
| 1,2-Dichlorobenzene                                | ND      | 0.035 | 0.012  |           | ND      | 0.21  | 0.073 | 0.698    | 9/20/23 19:56 |  | CMR     |
| 1,3-Dichlorobenzene                                | ND      | 0.035 | 0.013  |           | ND      | 0.21  | 0.078 | 0.698    | 9/20/23 19:56 |  | CMR     |
| 1,4-Dichlorobenzene                                | ND      | 0.035 | 0.013  |           | ND      | 0.21  | 0.077 | 0.698    | 9/20/23 19:56 |  | CMR     |
| Dichlorodifluoromethane (Freon 12)                 | 0.46    | 0.035 | 0.015  |           | 2.3     | 0.17  | 0.072 | 0.698    | 9/20/23 19:56 |  | CMR     |
| 1,1-Dichloroethane                                 | ND      | 0.035 | 0.011  |           | ND      | 0.14  | 0.045 | 0.698    | 9/20/23 19:56 |  | CMR     |
| 1,2-Dichloroethane                                 | ND      | 0.035 | 0.013  |           | ND      | 0.14  | 0.053 | 0.698    | 9/20/23 19:56 |  | CMR     |
| 1,1-Dichloroethylene                               | ND      | 0.035 | 0.010  |           | ND      | 0.14  | 0.039 | 0.698    | 9/20/23 19:56 |  | CMR     |
| cis-1,2-Dichloroethylene                           | ND      | 0.035 | 0.011  |           | ND      | 0.14  | 0.043 | 0.698    | 9/20/23 19:56 |  | CMR     |
| trans-1,2-Dichloroethylene                         | ND      | 0.035 | 0.011  |           | ND      | 0.14  | 0.045 | 0.698    | 9/20/23 19:56 |  | CMR     |
| 1,2-Dichloropropane                                | ND      | 0.035 | 0.0096 |           | ND      | 0.16  | 0.044 | 0.698    | 9/20/23 19:56 |  | CMR     |
| cis-1,3-Dichloropropene                            | ND      | 0.035 | 0.016  |           | ND      | 0.16  | 0.071 | 0.698    | 9/20/23 19:56 |  | CMR     |
| trans-1,3-Dichloropropene                          | ND      | 0.035 | 0.018  |           | ND      | 0.16  | 0.082 | 0.698    | 9/20/23 19:56 |  | CMR     |
| 1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114) | 0.017   | 0.035 | 0.014  | J         | 0.12    | 0.24  | 0.098 | 0.698    | 9/20/23 19:56 |  | CMR     |
| 1,4-Dioxane                                        | ND      | 0.35  | 0.17   |           | ND      | 1.3   | 0.62  | 0.698    | 9/20/23 19:56 |  | CMR     |
| Ethanol                                            | 5.1     | 1.4   | 0.93   |           | 9.7     | 2.6   | 1.7   | 0.698    | 9/20/23 19:56 |  | CMR     |
| Ethyl Acetate                                      | ND      | 0.35  | 0.10   |           | ND      | 1.3   | 0.36  | 0.698    | 9/20/23 19:56 |  | CMR     |
| Ethylbenzene                                       | 0.14    | 0.035 | 0.010  |           | 0.60    | 0.15  | 0.044 | 0.698    | 9/20/23 19:56 |  | CMR     |
| 4-Ethyltoluene                                     | 0.028   | 0.035 | 0.015  | J         | 0.14    | 0.17  | 0.075 | 0.698    | 9/20/23 19:56 |  | CMR     |
| Heptane                                            | 0.13    | 0.035 | 0.022  |           | 0.55    | 0.14  | 0.090 | 0.698    | 9/20/23 19:56 |  | CMR     |
| Hexachlorobutadiene                                | ND      | 0.035 | 0.020  |           | ND      | 0.37  | 0.21  | 0.698    | 9/20/23 19:56 |  | CMR     |
| Hexane                                             | ND      | 1.4   | 0.46   |           | ND      | 4.9   | 1.6   | 0.698    | 9/20/23 19:56 |  | CMR     |
| 2-Hexanone (MBK)                                   | 0.30    | 0.035 | 0.015  |           | 1.2     | 0.14  | 0.062 | 0.698    | 9/20/23 19:56 |  | CMR     |
| Isopropanol                                        | 0.56    | 1.4   | 0.44   | J         | 1.4     | 3.4   | 1.1   | 0.698    | 9/20/23 19:56 |  | CMR     |
| Methyl tert-Butyl Ether (MTBE)                     | ND      | 0.035 | 0.017  |           | ND      | 0.13  | 0.062 | 0.698    | 9/20/23 19:56 |  | CMR     |
| Methylene Chloride                                 | 0.11    | 0.35  | 0.094  | J         | 0.38    | 1.2   | 0.33  | 0.698    | 9/20/23 19:56 |  | CMR     |
| 4-Methyl-2-pentanone (MIBK)                        | 0.19    | 0.035 | 0.018  |           | 0.79    | 0.14  | 0.076 | 0.698    | 9/20/23 19:56 |  | CMR     |
| Naphthalene                                        | ND      | 0.035 | 0.023  | L-03      | ND      | 0.18  | 0.12  | 0.698    | 9/20/23 19:56 |  | CMR     |
| Propene                                            | ND      | 1.4   | 0.38   |           | ND      | 2.4   | 0.65  | 0.698    | 9/20/23 19:56 |  | CMR     |
| Styrene                                            | 0.071   | 0.035 | 0.019  |           | 0.30    | 0.15  | 0.080 | 0.698    | 9/20/23 19:56 |  | CMR     |
| 1,1,2,2-Tetrachloroethane                          | ND      | 0.035 | 0.0086 |           | ND      | 0.24  | 0.059 | 0.698    | 9/20/23 19:56 |  | CMR     |

**ANALYTICAL RESULTS**

Project Location: Buckeye Buffalo Terminal  
Date Received: 9/18/2023  
**Field Sample #: Driver Bathroom Ambient-1**  
**Sample ID: 23I2177-06**  
Sample Matrix: Ambient Air  
Sampled: 9/14/2023 16:45

Sample Description/Location:  
Sub Description/Location:  
Canister ID: 2207  
Canister Size: 6 liter  
Flow Controller ID: 3176  
Sample Type: 8 hr

**Work Order: 23I2177**  
Initial Vacuum(in Hg): -30  
Final Vacuum(in Hg): -7  
Receipt Vacuum(in Hg): -6.7  
Flow Controller Type: Fixed-Orifice  
Flow Controller Calibration  
RPD Pre and Post-Sampling: <20%

**EPA TO-15**

| Analyte                                           | Results | ppbv  |        | Flag/Qual | ug/m3   |       |       | Dilution      | Date/Time     |         |
|---------------------------------------------------|---------|-------|--------|-----------|---------|-------|-------|---------------|---------------|---------|
|                                                   |         | RL    | MDL    |           | Results | RL    | MDL   |               | Analyzed      | Analyst |
| Tetrachloroethylene                               | ND      | 0.035 | 0.013  | L-03      | ND      | 0.24  | 0.089 | 0.698         | 9/20/23 19:56 | CMR     |
| Tetrahydrofuran                                   | ND      | 0.35  | 0.072  |           | ND      | 1.0   | 0.21  | 0.698         | 9/20/23 19:56 | CMR     |
| Toluene                                           | 0.58    | 0.035 | 0.013  |           | 2.2     | 0.13  | 0.048 | 0.698         | 9/20/23 19:56 | CMR     |
| 1,2,4-Trichlorobenzene                            | ND      | 0.035 | 0.019  |           | ND      | 0.26  | 0.14  | 0.698         | 9/20/23 19:56 | CMR     |
| 1,1,1-Trichloroethane                             | ND      | 0.035 | 0.011  |           | ND      | 0.19  | 0.059 | 0.698         | 9/20/23 19:56 | CMR     |
| 1,1,2-Trichloroethane                             | ND      | 0.035 | 0.0089 |           | ND      | 0.19  | 0.049 | 0.698         | 9/20/23 19:56 | CMR     |
| Trichloroethylene                                 | ND      | 0.035 | 0.014  | J         | ND      | 0.19  | 0.076 | 0.698         | 9/20/23 19:56 | CMR     |
| Trichlorofluoromethane (Freon 11)                 | 0.22    | 0.14  | 0.014  |           | 1.2     | 0.78  | 0.080 | 0.698         | 9/20/23 19:56 | CMR     |
| 1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113) | 0.073   | 0.14  | 0.0077 |           | 0.56    | 1.1   | 0.059 | 0.698         | 9/20/23 19:56 | CMR     |
| 1,2,4-Trimethylbenzene                            | 0.13    | 0.035 | 0.016  |           | 0.63    | 0.17  | 0.079 | 0.698         | 9/20/23 19:56 | CMR     |
| 1,3,5-Trimethylbenzene                            | 0.036   | 0.035 | 0.018  |           | 0.17    | 0.17  | 0.088 | 0.698         | 9/20/23 19:56 | CMR     |
| Vinyl Acetate                                     | 0.89    | 0.70  | 0.12   |           | 3.1     | 2.5   | 0.44  | 0.698         | 9/20/23 19:56 | CMR     |
| Vinyl Chloride                                    | ND      | 0.035 | 0.016  | ND        | 0.089   | 0.041 | 0.698 | 9/20/23 19:56 | CMR           |         |
| m&p-Xylene                                        | 0.43    | 0.070 | 0.024  | 1.9       | 0.30    | 0.11  | 0.698 | 9/20/23 19:56 | CMR           |         |
| o-Xylene                                          | 0.16    | 0.035 | 0.013  | 0.69      | 0.15    | 0.055 | 0.698 | 9/20/23 19:56 | CMR           |         |

| Surrogates               | % Recovery | % REC Limits |               |
|--------------------------|------------|--------------|---------------|
| 4-Bromofluorobenzene (1) | 99.6       | 70-130       | 9/20/23 19:56 |

**Sample Extraction Data****Prep Method: TO-15 Prep-EPA TO-15**

| Lab Number [Field ID]                  | Batch   | Pressure<br>Dilution | Pre<br>Dilution | Pre-Dil<br>Initial<br>mL | Pre-Dil<br>Final<br>mL | Default<br>Injection<br>mL | Actual<br>Injection<br>mL | Date     |
|----------------------------------------|---------|----------------------|-----------------|--------------------------|------------------------|----------------------------|---------------------------|----------|
| 23I2177-01 [Office SS-1]               | B353094 | 1.5                  | 1               | N/A                      | 1000                   | 200                        | 150                       | 09/20/23 |
| 23I2177-02 [Office Ambient-1]          | B353094 | 1.5                  | 1               | N/A                      | 1000                   | 200                        | 430                       | 09/20/23 |
| 23I2177-02RE1 [Office Ambient-1]       | B353094 | 1.5                  | 1               | N/A                      | 1000                   | 200                        | 30                        | 09/20/23 |
| 23I2177-03 [Bathroom SS-1]             | B353094 | 1.5                  | 1               | N/A                      | 1000                   | 200                        | 150                       | 09/20/23 |
| 23I2177-04 [Bathroom Ambient-1]        | B353094 | 1.5                  | 1               | N/A                      | 1000                   | 200                        | 430                       | 09/20/23 |
| 23I2177-04RE1 [Bathroom Ambient-1]     | B353094 | 1.5                  | 1               | N/A                      | 1000                   | 200                        | 30                        | 09/20/23 |
| 23I2177-05 [Driver Bathroom SS-1]      | B353094 | 1.5                  | 1               | N/A                      | 1000                   | 200                        | 150                       | 09/20/23 |
| 23I2177-06 [Driver Bathroom Ambient-1] | B353094 | 1.5                  | 1               | N/A                      | 1000                   | 200                        | 430                       | 09/20/23 |

**QUALITY CONTROL**
**Air Toxics by EPA Compendium Methods - Quality Control**

| Analyte | ppbv    |    | ug/m3   |    | Spike Level | Source | %REC | %REC   | RPD | Flag/Qual |
|---------|---------|----|---------|----|-------------|--------|------|--------|-----|-----------|
|         | Results | RL | Results | RL | ppbv        | Result | %REC | Limits | RPD |           |

**Batch B353094 - TO-15 Prep**
**Blank (B353094-BLK1)**

Prepared &amp; Analyzed: 09/20/23

|                                                    |    |       |
|----------------------------------------------------|----|-------|
| Acetone                                            | ND | 0.80  |
| Benzene                                            | ND | 0.020 |
| Benzyl chloride                                    | ND | 0.020 |
| Bromodichloromethane                               | ND | 0.020 |
| Bromoform                                          | ND | 0.020 |
| Bromomethane                                       | ND | 0.020 |
| 1,3-Butadiene                                      | ND | 0.020 |
| 2-Butanone (MEK)                                   | ND | 0.80  |
| Carbon Disulfide                                   | ND | 0.20  |
| Carbon Tetrachloride                               | ND | 0.020 |
| Chlorobenzene                                      | ND | 0.020 |
| Chloroethane                                       | ND | 0.020 |
| Chloroform                                         | ND | 0.020 |
| Chloromethane                                      | ND | 0.040 |
| Cyclohexane                                        | ND | 0.020 |
| Dibromochloromethane                               | ND | 0.020 |
| 1,2-Dibromoethane (EDB)                            | ND | 0.020 |
| 1,2-Dichlorobenzene                                | ND | 0.020 |
| 1,3-Dichlorobenzene                                | ND | 0.020 |
| 1,4-Dichlorobenzene                                | ND | 0.020 |
| Dichlorodifluoromethane (Freon 12)                 | ND | 0.020 |
| 1,1-Dichloroethane                                 | ND | 0.020 |
| 1,2-Dichloroethane                                 | ND | 0.020 |
| 1,1-Dichloroethylene                               | ND | 0.020 |
| cis-1,2-Dichloroethylene                           | ND | 0.020 |
| trans-1,2-Dichloroethylene                         | ND | 0.020 |
| 1,2-Dichloropropane                                | ND | 0.020 |
| cis-1,3-Dichloropropene                            | ND | 0.020 |
| trans-1,3-Dichloropropene                          | ND | 0.020 |
| 1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114) | ND | 0.020 |
| 1,4-Dioxane                                        | ND | 0.20  |
| Ethanol                                            | ND | 0.80  |
| Ethyl Acetate                                      | ND | 0.20  |
| Ethylbenzene                                       | ND | 0.020 |
| 4-Ethyltoluene                                     | ND | 0.020 |
| Heptane                                            | ND | 0.020 |
| Hexachlorobutadiene                                | ND | 0.020 |
| Hexane                                             | ND | 0.80  |
| 2-Hexanone (MBK)                                   | ND | 0.020 |
| Isopropanol                                        | ND | 0.80  |
| Methyl tert-Butyl Ether (MTBE)                     | ND | 0.020 |
| Methylene Chloride                                 | ND | 0.20  |
| 4-Methyl-2-pentanone (MIBK)                        | ND | 0.020 |
| Naphthalene                                        | ND | 0.020 |
| Propene                                            | ND | 0.80  |
| Styrene                                            | ND | 0.020 |

L-03

**QUALITY CONTROL**
**Air Toxics by EPA Compendium Methods - Quality Control**

| Analyte | ppbv    |    | ug/m3   |    | Spike Level | Source | %REC | %REC   | RPD | Flag/Qual |
|---------|---------|----|---------|----|-------------|--------|------|--------|-----|-----------|
|         | Results | RL | Results | RL | ppbv        | Result | %REC | Limits | RPD |           |

**Batch B353094 - TO-15 Prep**
**Blank (B353094-BLK1)**

Prepared &amp; Analyzed: 09/20/23

|                                                   |    |       |  |  |  |  |  |  |  |      |
|---------------------------------------------------|----|-------|--|--|--|--|--|--|--|------|
| 1,1,2,2-Tetrachloroethane                         | ND | 0.020 |  |  |  |  |  |  |  |      |
| Tetrachloroethylene                               | ND | 0.020 |  |  |  |  |  |  |  |      |
| Tetrahydrofuran                                   | ND | 0.20  |  |  |  |  |  |  |  |      |
| Toluene                                           | ND | 0.020 |  |  |  |  |  |  |  |      |
| 1,2,4-Trichlorobenzene                            | ND | 0.020 |  |  |  |  |  |  |  | L-03 |
| 1,1,1-Trichloroethane                             | ND | 0.020 |  |  |  |  |  |  |  |      |
| 1,1,2-Trichloroethane                             | ND | 0.020 |  |  |  |  |  |  |  |      |
| Trichloroethylene                                 | ND | 0.020 |  |  |  |  |  |  |  |      |
| Trichlorofluoromethane (Freon 11)                 | ND | 0.080 |  |  |  |  |  |  |  |      |
| 1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113) | ND | 0.080 |  |  |  |  |  |  |  |      |
| 1,2,4-Trimethylbenzene                            | ND | 0.020 |  |  |  |  |  |  |  |      |
| 1,3,5-Trimethylbenzene                            | ND | 0.020 |  |  |  |  |  |  |  |      |
| Vinyl Acetate                                     | ND | 0.40  |  |  |  |  |  |  |  |      |
| Vinyl Chloride                                    | ND | 0.020 |  |  |  |  |  |  |  |      |
| m&p-Xylene                                        | ND | 0.040 |  |  |  |  |  |  |  |      |
| o-Xylene                                          | ND | 0.020 |  |  |  |  |  |  |  |      |

|                                            |             |  |  |  |             |  |             |               |  |  |
|--------------------------------------------|-------------|--|--|--|-------------|--|-------------|---------------|--|--|
| <i>Surrogate: 4-Bromofluorobenzene (1)</i> | <i>7.70</i> |  |  |  | <i>8.00</i> |  | <i>96.2</i> | <i>70-130</i> |  |  |
|--------------------------------------------|-------------|--|--|--|-------------|--|-------------|---------------|--|--|

**LCS (B353094-BS1)**

Prepared &amp; Analyzed: 09/20/23

|                                    |      |  |  |  |      |  |      |        |  |  |
|------------------------------------|------|--|--|--|------|--|------|--------|--|--|
| Acetone                            | 4.14 |  |  |  | 5.00 |  | 82.7 | 70-130 |  |  |
| Benzene                            | 4.63 |  |  |  | 5.00 |  | 92.7 | 70-130 |  |  |
| Benzyl chloride                    | 4.11 |  |  |  | 5.00 |  | 82.1 | 70-130 |  |  |
| Bromodichloromethane               | 4.62 |  |  |  | 5.00 |  | 92.4 | 70-130 |  |  |
| Bromoform                          | 4.78 |  |  |  | 5.00 |  | 95.7 | 70-130 |  |  |
| Bromomethane                       | 4.50 |  |  |  | 5.00 |  | 89.9 | 70-130 |  |  |
| 1,3-Butadiene                      | 4.14 |  |  |  | 5.00 |  | 82.8 | 70-130 |  |  |
| 2-Butanone (MEK)                   | 4.24 |  |  |  | 5.00 |  | 84.9 | 70-130 |  |  |
| Carbon Disulfide                   | 4.66 |  |  |  | 5.00 |  | 93.3 | 70-130 |  |  |
| Carbon Tetrachloride               | 4.86 |  |  |  | 5.00 |  | 97.2 | 70-130 |  |  |
| Chlorobenzene                      | 4.66 |  |  |  | 5.00 |  | 93.2 | 70-130 |  |  |
| Chloroethane                       | 4.08 |  |  |  | 5.00 |  | 81.6 | 70-130 |  |  |
| Chloroform                         | 4.88 |  |  |  | 5.00 |  | 97.6 | 70-130 |  |  |
| Chloromethane                      | 4.19 |  |  |  | 5.00 |  | 83.7 | 70-130 |  |  |
| Cyclohexane                        | 4.67 |  |  |  | 5.00 |  | 93.3 | 70-130 |  |  |
| Dibromochloromethane               | 4.94 |  |  |  | 5.00 |  | 98.8 | 70-130 |  |  |
| 1,2-Dibromoethane (EDB)            | 4.33 |  |  |  | 5.00 |  | 86.5 | 70-130 |  |  |
| 1,2-Dichlorobenzene                | 3.83 |  |  |  | 5.00 |  | 76.7 | 70-130 |  |  |
| 1,3-Dichlorobenzene                | 4.54 |  |  |  | 5.00 |  | 90.7 | 70-130 |  |  |
| 1,4-Dichlorobenzene                | 4.39 |  |  |  | 5.00 |  | 87.9 | 70-130 |  |  |
| Dichlorodifluoromethane (Freon 12) | 4.46 |  |  |  | 5.00 |  | 89.1 | 70-130 |  |  |
| 1,1-Dichloroethane                 | 4.44 |  |  |  | 5.00 |  | 88.8 | 70-130 |  |  |
| 1,2-Dichloroethane                 | 4.68 |  |  |  | 5.00 |  | 93.5 | 70-130 |  |  |
| 1,1-Dichloroethylene               | 4.54 |  |  |  | 5.00 |  | 90.7 | 70-130 |  |  |
| cis-1,2-Dichloroethylene           | 4.68 |  |  |  | 5.00 |  | 93.6 | 70-130 |  |  |
| trans-1,2-Dichloroethylene         | 4.46 |  |  |  | 5.00 |  | 89.3 | 70-130 |  |  |
| 1,2-Dichloropropane                | 4.82 |  |  |  | 5.00 |  | 96.4 | 70-130 |  |  |

**QUALITY CONTROL**
**Air Toxics by EPA Compendium Methods - Quality Control**

| Analyte                                            | ppbv    |    | ug/m3   |    | Spike Level                   | Source | %REC | %REC     | RPD | RPD   | Flag/Qual |
|----------------------------------------------------|---------|----|---------|----|-------------------------------|--------|------|----------|-----|-------|-----------|
|                                                    | Results | RL | Results | RL | ppbv                          | Result | %REC | Limits   | RPD | Limit |           |
| Batch B353094 - TO-15 Prep                         |         |    |         |    |                               |        |      |          |     |       |           |
| LCS (B353094-BS1)                                  |         |    |         |    | Prepared & Analyzed: 09/20/23 |        |      |          |     |       |           |
| cis-1,3-Dichloropropene                            | 4.48    |    |         |    | 5.00                          |        | 89.7 | 70-130   |     |       |           |
| trans-1,3-Dichloropropene                          | 4.61    |    |         |    | 5.00                          |        | 92.2 | 70-130   |     |       |           |
| 1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114) | 4.14    |    |         |    | 5.00                          |        | 82.8 | 70-130   |     |       |           |
| 1,4-Dioxane                                        | 4.07    |    |         |    | 5.00                          |        | 81.5 | 70-130   |     |       |           |
| Ethanol                                            | 4.04    |    |         |    | 5.00                          |        | 80.8 | 70-130   |     |       |           |
| Ethyl Acetate                                      | 3.94    |    |         |    | 5.00                          |        | 78.8 | 70-130   |     |       |           |
| Ethylbenzene                                       | 4.79    |    |         |    | 5.00                          |        | 95.9 | 70-130   |     |       |           |
| 4-Ethyltoluene                                     | 4.58    |    |         |    | 5.00                          |        | 91.5 | 70-130   |     |       |           |
| Heptane                                            | 4.77    |    |         |    | 5.00                          |        | 95.5 | 70-130   |     |       |           |
| Hexachlorobutadiene                                | 3.11    |    |         |    | 4.25                          |        | 73.2 | 70-130   |     |       |           |
| Hexane                                             | 4.67    |    |         |    | 5.00                          |        | 93.4 | 70-130   |     |       |           |
| 2-Hexanone (MBK)                                   | 4.63    |    |         |    | 5.00                          |        | 92.6 | 70-130   |     |       |           |
| Isopropanol                                        | 3.69    |    |         |    | 5.00                          |        | 73.8 | 70-130   |     |       |           |
| Methyl tert-Butyl Ether (MTBE)                     | 4.40    |    |         |    | 5.00                          |        | 87.9 | 70-130   |     |       |           |
| Methylene Chloride                                 | 4.30    |    |         |    | 5.00                          |        | 86.0 | 70-130   |     |       |           |
| 4-Methyl-2-pentanone (MIBK)                        | 4.70    |    |         |    | 5.00                          |        | 94.0 | 70-130   |     |       |           |
| Naphthalene                                        | 2.07    |    |         |    | 3.68                          |        | 56.2 | * 70-130 |     |       | L-03      |
| Propene                                            | 4.64    |    |         |    | 5.00                          |        | 92.8 | 70-130   |     |       |           |
| Styrene                                            | 4.53    |    |         |    | 5.00                          |        | 90.7 | 70-130   |     |       |           |
| 1,1,2,2-Tetrachloroethane                          | 4.36    |    |         |    | 5.00                          |        | 87.3 | 70-130   |     |       |           |
| Tetrachloroethylene                                | 4.78    |    |         |    | 5.00                          |        | 95.7 | 70-130   |     |       |           |
| Tetrahydrofuran                                    | 4.75    |    |         |    | 5.00                          |        | 95.0 | 70-130   |     |       |           |
| Toluene                                            | 4.74    |    |         |    | 5.00                          |        | 94.8 | 70-130   |     |       |           |
| 1,2,4-Trichlorobenzene                             | 2.34    |    |         |    | 3.90                          |        | 59.9 | * 70-130 |     |       | L-03      |
| 1,1,1-Trichloroethane                              | 4.47    |    |         |    | 5.00                          |        | 89.5 | 70-130   |     |       |           |
| 1,1,2-Trichloroethane                              | 5.01    |    |         |    | 5.00                          |        | 100  | 70-130   |     |       |           |
| Trichloroethylene                                  | 4.50    |    |         |    | 5.00                          |        | 89.9 | 70-130   |     |       |           |
| Trichlorofluoromethane (Freon 11)                  | 4.56    |    |         |    | 5.00                          |        | 91.3 | 70-130   |     |       |           |
| 1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)  | 4.51    |    |         |    | 5.00                          |        | 90.2 | 70-130   |     |       |           |
| 1,2,4-Trimethylbenzene                             | 4.40    |    |         |    | 5.00                          |        | 87.9 | 70-130   |     |       |           |
| 1,3,5-Trimethylbenzene                             | 4.60    |    |         |    | 5.00                          |        | 92.0 | 70-130   |     |       |           |
| Vinyl Acetate                                      | 5.14    |    |         |    | 5.00                          |        | 103  | 70-130   |     |       |           |
| Vinyl Chloride                                     | 4.39    |    |         |    | 5.00                          |        | 87.7 | 70-130   |     |       |           |
| m&p-Xylene                                         | 9.83    |    |         |    | 10.0                          |        | 98.3 | 70-130   |     |       |           |
| o-Xylene                                           | 4.76    |    |         |    | 5.00                          |        | 95.1 | 70-130   |     |       |           |
| Surrogate: 4-Bromofluorobenzene (1)                | 7.98    |    |         |    | 8.00                          |        | 99.7 | 70-130   |     |       |           |

**Note: Blank Subtraction is not performed unless otherwise noted**

### FLAG/QUALIFIER SUMMARY

|         |                                                                                                                                                                      |
|---------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| *       | QC result is outside of established limits.                                                                                                                          |
| †       | Wide recovery limits established for difficult compound.                                                                                                             |
| ‡       | Wide RPD limits established for difficult compound.                                                                                                                  |
| #       | Data exceeded client recommended or regulatory level                                                                                                                 |
| RL      | Reporting Limit                                                                                                                                                      |
| MDL     | Method Detection Limit                                                                                                                                               |
| RPD     | Relative Percent Difference                                                                                                                                          |
| LCS     | Laboratory Control Sample                                                                                                                                            |
| LCS Dup | Duplicate Laboratory Control Sample                                                                                                                                  |
| MS      | Matrix Spike Sample                                                                                                                                                  |
| MS Dup  | Duplicate Matrix Spike Sample                                                                                                                                        |
| REC     | Recovery                                                                                                                                                             |
| QC      | Quality Control                                                                                                                                                      |
| ppbv    | Parts per billion volume                                                                                                                                             |
| EPA     | United States Environmental Protection Agency                                                                                                                        |
| % REC   | Percent Recovery                                                                                                                                                     |
| ND      | Not Detected                                                                                                                                                         |
| N/A     | Not Applicable                                                                                                                                                       |
| DL      | Detection Limit                                                                                                                                                      |
| NC      | Not Calculated                                                                                                                                                       |
| LFB/LCS | Lab Fortified Blank/Lab Control Sample                                                                                                                               |
| ORP     | Oxidation-Reduction Potential                                                                                                                                        |
| wet     | Not dry weight corrected                                                                                                                                             |
| % wt    | Percent weight                                                                                                                                                       |
| Kg      | Kilogram                                                                                                                                                             |
| g       | Gram                                                                                                                                                                 |
| mg      | Milligram                                                                                                                                                            |
| µg      | Microgram                                                                                                                                                            |
| ng      | Nanogram                                                                                                                                                             |
| L       | Liter                                                                                                                                                                |
| mL      | Milliliter                                                                                                                                                           |
| µL      | Microliter                                                                                                                                                           |
| m3      | Cubic Meter                                                                                                                                                          |
| EPH     | Extractable Petroleum Hydrocarbons                                                                                                                                   |
| VPH     | Volatile Petroleum Hydrocarbons                                                                                                                                      |
| APH     | Air Petroleum Hydrocarbons                                                                                                                                           |
| FID     | Flame Ionization Detector                                                                                                                                            |
| PID     | Photo Ionization Detector                                                                                                                                            |
|         | Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.               |
| J       | Detected but below the Reporting Limit (lowest calibration standard); therefore, result is an estimated concentration (CLP J-Flag).                                  |
| L-03    | Laboratory fortified blank/laboratory control sample recovery is outside of control limits. Reported value for this compound is likely to be biased on the low side. |

### ANALYST

TPH      Thomas P. Hnitecki  
STATION   Report Queue Station  
MEM      Marc E. Mahoney  
KAM      Kyle A. Murray  
CMR      Catherine M. Rouleau

**INTERNAL STANDARD AREA AND RT SUMMARY**
**EPA TO-15**

| Internal Standard                        | Response | RT    | Reference Response        | Reference RT | Area % | Area % Limits            | RT Diff | RT Diff Limit | Q |
|------------------------------------------|----------|-------|---------------------------|--------------|--------|--------------------------|---------|---------------|---|
| <b>Initial Cal Check (S091464-ICV1 )</b> |          |       | Lab File ID: L23A214020.D |              |        | Analyzed: 08/02/23 23:42 |         |               |   |
| Bromochloromethane (1)                   | 300782   | 2.867 | 314027                    | 2.871        | 96     | 60 - 140                 | -0.0040 | +/-0.50       |   |
| 1,4-Difluorobenzene (1)                  | 878479   | 3.54  | 895773                    | 3.54         | 98     | 60 - 140                 | 0.0000  | +/-0.50       |   |
| Chlorobenzene-d5 (1)                     | 823159   | 5.202 | 837397                    | 5.202        | 98     | 60 - 140                 | 0.0000  | +/-0.50       |   |

**INTERNAL STANDARD AREA AND RT SUMMARY**
**EPA TO-15**

| Internal Standard                          | Response | RT    | Reference Response        | Reference RT | Area % | Area % Limits            | RT Diff | RT Diff Limit | Q |
|--------------------------------------------|----------|-------|---------------------------|--------------|--------|--------------------------|---------|---------------|---|
| <b>Calibration Check (S093906-CCV1 )</b>   |          |       | Lab File ID: L23A263004.D |              |        | Analyzed: 09/20/23 12:33 |         |               |   |
| Bromochloromethane (1)                     | 288966   | 2.871 | 314027                    | 2.871        | 92     | 60 - 140                 | 0.0000  | +/-0.50       |   |
| 1,4-Difluorobenzene (1)                    | 805158   | 3.539 | 895773                    | 3.54         | 90     | 60 - 140                 | -0.0010 | +/-0.50       |   |
| Chlorobenzene-d5 (1)                       | 709894   | 5.202 | 837397                    | 5.202        | 85     | 60 - 140                 | 0.0000  | +/-0.50       |   |
| <b>LCS (B353094-BS1 )</b>                  |          |       | Lab File ID: L23A263005.D |              |        | Analyzed: 09/20/23 12:59 |         |               |   |
| Bromochloromethane (1)                     | 278582   | 2.871 | 288966                    | 2.871        | 96     | 60 - 140                 | 0.0000  | +/-0.50       |   |
| 1,4-Difluorobenzene (1)                    | 797786   | 3.539 | 805158                    | 3.539        | 99     | 60 - 140                 | 0.0000  | +/-0.50       |   |
| Chlorobenzene-d5 (1)                       | 704239   | 5.202 | 709894                    | 5.202        | 99     | 60 - 140                 | 0.0000  | +/-0.50       |   |
| <b>Blank (B353094-BLK1 )</b>               |          |       | Lab File ID: L23A263008.D |              |        | Analyzed: 09/20/23 14:33 |         |               |   |
| Bromochloromethane (1)                     | 281457   | 2.87  | 288966                    | 2.871        | 97     | 60 - 140                 | -0.0010 | +/-0.50       |   |
| 1,4-Difluorobenzene (1)                    | 762402   | 3.544 | 805158                    | 3.539        | 95     | 60 - 140                 | 0.0050  | +/-0.50       |   |
| Chlorobenzene-d5 (1)                       | 683535   | 5.2   | 709894                    | 5.202        | 96     | 60 - 140                 | -0.0020 | +/-0.50       |   |
| <b>Office Ambient-1 (23I2177-02 )</b>      |          |       | Lab File ID: L23A263014.D |              |        | Analyzed: 09/20/23 17:54 |         |               |   |
| Bromochloromethane (1)                     | 267642   | 2.867 | 288966                    | 2.871        | 93     | 60 - 140                 | -0.0040 | +/-0.50       |   |
| 1,4-Difluorobenzene (1)                    | 739495   | 3.539 | 805158                    | 3.539        | 92     | 60 - 140                 | 0.0000  | +/-0.50       |   |
| Chlorobenzene-d5 (1)                       | 662479   | 5.202 | 709894                    | 5.202        | 93     | 60 - 140                 | 0.0000  | +/-0.50       |   |
| <b>Office Ambient-1 (23I2177-02RE1 )</b>   |          |       | Lab File ID: L23A263015.D |              |        | Analyzed: 09/20/23 18:22 |         |               |   |
| Bromochloromethane (1)                     | 270614   | 2.871 | 288966                    | 2.871        | 94     | 60 - 140                 | 0.0000  | +/-0.50       |   |
| 1,4-Difluorobenzene (1)                    | 736687   | 3.544 | 805158                    | 3.539        | 91     | 60 - 140                 | 0.0050  | +/-0.50       |   |
| Chlorobenzene-d5 (1)                       | 668274   | 5.2   | 709894                    | 5.202        | 94     | 60 - 140                 | -0.0020 | +/-0.50       |   |
| <b>Bathroom Ambient-1 (23I2177-04 )</b>    |          |       | Lab File ID: L23A263016.D |              |        | Analyzed: 09/20/23 18:55 |         |               |   |
| Bromochloromethane (1)                     | 272637   | 2.872 | 288966                    | 2.871        | 94     | 60 - 140                 | 0.0010  | +/-0.50       |   |
| 1,4-Difluorobenzene (1)                    | 742822   | 3.545 | 805158                    | 3.539        | 92     | 60 - 140                 | 0.0060  | +/-0.50       |   |
| Chlorobenzene-d5 (1)                       | 672921   | 5.202 | 709894                    | 5.202        | 95     | 60 - 140                 | 0.0000  | +/-0.50       |   |
| <b>Bathroom Ambient-1 (23I2177-04RE1 )</b> |          |       | Lab File ID: L23A263017.D |              |        | Analyzed: 09/20/23 19:23 |         |               |   |
| Bromochloromethane (1)                     | 267626   | 2.871 | 288966                    | 2.871        | 93     | 60 - 140                 | 0.0000  | +/-0.50       |   |
| 1,4-Difluorobenzene (1)                    | 735499   | 3.544 | 805158                    | 3.539        | 91     | 60 - 140                 | 0.0050  | +/-0.50       |   |
| Chlorobenzene-d5 (1)                       | 657250   | 5.201 | 709894                    | 5.202        | 93     | 60 - 140                 | -0.0010 | +/-0.50       |   |

## INTERNAL STANDARD AREA AND RT SUMMARY

## EPA TO-15

| Internal Standard                                                                                                                    | Response | RT    | Reference Response | Reference RT | Area % | Area % Limits | RT Diff | RT Diff Limit | Q |
|--------------------------------------------------------------------------------------------------------------------------------------|----------|-------|--------------------|--------------|--------|---------------|---------|---------------|---|
| <b>Driver Bathroom Ambient-1 (23I2177-06 )</b> <span style="float: right;">Lab File ID: L23A263018.D Analyzed: 09/20/23 19:56</span> |          |       |                    |              |        |               |         |               |   |
| Bromochloromethane (1)                                                                                                               | 263460   | 2.866 | 288966             | 2.871        | 91     | 60 - 140      | -0.0050 | +/-0.50       |   |
| 1,4-Difluorobenzene (1)                                                                                                              | 719119   | 3.539 | 805158             | 3.539        | 89     | 60 - 140      | 0.0000  | +/-0.50       |   |
| Chlorobenzene-d5 (1)                                                                                                                 | 650686   | 5.201 | 709894             | 5.202        | 92     | 60 - 140      | -0.0010 | +/-0.50       |   |
| <b>Office SS-1 (23I2177-01 )</b> <span style="float: right;">Lab File ID: L23A263020.D Analyzed: 09/20/23 20:52</span>               |          |       |                    |              |        |               |         |               |   |
| Bromochloromethane (1)                                                                                                               | 267444   | 2.871 | 288966             | 2.871        | 93     | 60 - 140      | 0.0000  | +/-0.50       |   |
| 1,4-Difluorobenzene (1)                                                                                                              | 733013   | 3.539 | 805158             | 3.539        | 91     | 60 - 140      | 0.0000  | +/-0.50       |   |
| Chlorobenzene-d5 (1)                                                                                                                 | 659427   | 5.202 | 709894             | 5.202        | 93     | 60 - 140      | 0.0000  | +/-0.50       |   |
| <b>Bathroom SS-1 (23I2177-03 )</b> <span style="float: right;">Lab File ID: L23A263021.D Analyzed: 09/20/23 21:21</span>             |          |       |                    |              |        |               |         |               |   |
| Bromochloromethane (1)                                                                                                               | 269268   | 2.871 | 288966             | 2.871        | 93     | 60 - 140      | 0.0000  | +/-0.50       |   |
| 1,4-Difluorobenzene (1)                                                                                                              | 742896   | 3.545 | 805158             | 3.539        | 92     | 60 - 140      | 0.0060  | +/-0.50       |   |
| Chlorobenzene-d5 (1)                                                                                                                 | 679855   | 5.202 | 709894             | 5.202        | 96     | 60 - 140      | 0.0000  | +/-0.50       |   |
| <b>Driver Bathroom SS-1 (23I2177-05 )</b> <span style="float: right;">Lab File ID: L23A263022.D Analyzed: 09/20/23 21:49</span>      |          |       |                    |              |        |               |         |               |   |
| Bromochloromethane (1)                                                                                                               | 271221   | 2.871 | 288966             | 2.871        | 94     | 60 - 140      | 0.0000  | +/-0.50       |   |
| 1,4-Difluorobenzene (1)                                                                                                              | 738560   | 3.539 | 805158             | 3.539        | 92     | 60 - 140      | 0.0000  | +/-0.50       |   |
| Chlorobenzene-d5 (1)                                                                                                                 | 693327   | 5.202 | 709894             | 5.202        | 98     | 60 - 140      | 0.0000  | +/-0.50       |   |

## CONTINUING CALIBRATION CHECK

## EPA TO-15

## S093906-CCV1

| COMPOUND                                           | TYPE | CONC. (ppbv) |      | RESPONSE FACTOR |           |         | % DIFF / DRIFT |           |
|----------------------------------------------------|------|--------------|------|-----------------|-----------|---------|----------------|-----------|
|                                                    |      | STD          | CCV  | ICAL            | CCV       | MIN (#) | CCV            | LIMIT (#) |
| Acetone                                            | A    | 5.00         | 4.46 | 1.122255        | 1.000998  |         | -10.8          | 30        |
| Benzene                                            | A    | 5.00         | 5.03 | 0.7254293       | 0.7294469 |         | 0.6            | 30        |
| Benzyl chloride                                    | A    | 5.00         | 5.53 | 0.65192         | 0.7214508 |         | 10.7           | 30        |
| Bromodichloromethane                               | A    | 5.00         | 5.22 | 0.5567047       | 0.5813716 |         | 4.4            | 30        |
| Bromoform                                          | A    | 5.00         | 5.51 | 0.4926101       | 0.5428754 |         | 10.2           | 30        |
| Bromomethane                                       | A    | 5.00         | 4.64 | 0.6308676       | 0.585464  |         | -7.2           | 30        |
| 1,3-Butadiene                                      | A    | 5.00         | 4.43 | 0.551149        | 0.4881183 |         | -11.4          | 30        |
| 2-Butanone (MEK)                                   | A    | 5.00         | 4.70 | 1.381604        | 1.299857  |         | -5.9           | 30        |
| Carbon Disulfide                                   | A    | 5.00         | 4.93 | 2.063757        | 2.033335  |         | -1.5           | 30        |
| Carbon Tetrachloride                               | A    | 5.00         | 5.36 | 0.5110368       | 0.5482531 |         | 7.3            | 30        |
| Chlorobenzene                                      | A    | 5.00         | 5.35 | 0.7219812       | 0.7730912 |         | 7.1            | 30        |
| Chloroethane                                       | A    | 5.00         | 4.24 | 0.411751        | 0.3491511 |         | -15.2          | 30        |
| Chloroform                                         | A    | 5.00         | 5.17 | 1.439332        | 1.487073  |         | 3.3            | 30        |
| Chloromethane                                      | A    | 5.00         | 4.73 | 0.6101459       | 0.5767488 |         | -5.5           | 30        |
| Cyclohexane                                        | A    | 5.00         | 5.01 | 0.3030286       | 0.3034674 |         | 0.1            | 30        |
| Dibromochloromethane                               | A    | 5.00         | 5.48 | 0.5644122       | 0.6191955 |         | 9.7            | 30        |
| 1,2-Dibromoethane (EDB)                            | A    | 5.00         | 5.05 | 0.5076449       | 0.512863  |         | 1.0            | 30        |
| 1,2-Dichlorobenzene                                | A    | 5.00         | 5.19 | 0.6234765       | 0.6470848 |         | 3.8            | 30        |
| 1,3-Dichlorobenzene                                | A    | 5.00         | 5.90 | 0.6267236       | 0.7390985 |         | 17.9           | 30        |
| 1,4-Dichlorobenzene                                | A    | 5.00         | 5.78 | 0.5801365       | 0.6701215 |         | 15.5           | 30        |
| Dichlorodifluoromethane (Freon 12)                 | A    | 5.00         | 4.80 | 1.768079        | 1.69718   |         | -4.0           | 30        |
| 1,1-Dichloroethane                                 | A    | 5.00         | 4.70 | 1.392824        | 1.31067   |         | -5.9           | 30        |
| 1,2-Dichloroethane                                 | A    | 5.00         | 4.89 | 0.9772927       | 0.9558827 |         | -2.2           | 30        |
| 1,1-Dichloroethylene                               | A    | 5.00         | 4.82 | 1.127187        | 1.085958  |         | -3.7           | 30        |
| cis-1,2-Dichloroethylene                           | A    | 5.00         | 4.98 | 0.908952        | 0.9051584 |         | -0.4           | 30        |
| trans-1,2-Dichloroethylene                         | A    | 5.00         | 4.73 | 1.128232        | 1.066528  |         | -5.5           | 30        |
| 1,2-Dichloropropane                                | A    | 5.00         | 5.29 | 0.2601948       | 0.2754997 |         | 5.9            | 30        |
| cis-1,3-Dichloropropene                            | A    | 5.00         | 5.15 | 0.3962271       | 0.407904  |         | 2.9            | 30        |
| trans-1,3-Dichloropropene                          | A    | 5.00         | 5.09 | 0.3522842       | 0.3584847 |         | 1.8            | 30        |
| 1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114) | A    | 5.00         | 4.68 | 1.784687        | 1.668736  |         | -6.5           | 30        |
| 1,4-Dioxane                                        | A    | 5.00         | 4.85 | 0.1742852       | 0.1692011 |         | -2.9           | 30        |
| Ethanol                                            | A    | 5.00         | 4.62 | 0.1732414       | 0.1601849 |         | -7.5           | 30        |
| Ethyl Acetate                                      | A    | 5.00         | 4.83 | 0.2390169       | 0.2309863 |         | -3.4           | 30        |
| Ethylbenzene                                       | A    | 5.00         | 5.47 | 1.176902        | 1.287458  |         | 9.4            | 30        |
| 4-Ethyltoluene                                     | A    | 5.00         | 5.38 | 1.247069        | 1.340737  |         | 7.5            | 30        |
| Heptane                                            | A    | 5.00         | 5.02 | 0.2286847       | 0.2296235 |         | 0.4            | 30        |
| Hexachlorobutadiene                                | A    | 5.00         | 4.73 | 0.4755616       | 0.4501359 |         | -5.3           | 30        |
| Hexane                                             | A    | 5.00         | 4.85 | 0.7442178       | 0.7216904 |         | -3.0           | 30        |

## CONTINUING CALIBRATION CHECK

## EPA TO-15

## S093906-CCV1

| COMPOUND                                          | TYPE | CONC. (ppbv) |      | RESPONSE FACTOR |           |         | % DIFF / DRIFT |           |
|---------------------------------------------------|------|--------------|------|-----------------|-----------|---------|----------------|-----------|
|                                                   |      | STD          | CCV  | ICAL            | CCV       | MIN (#) | CCV            | LIMIT (#) |
| 2-Hexanone (MBK)                                  | A    | 5.00         | 5.53 | 0.5993899       | 0.6629384 |         | 10.6           | 30        |
| Isopropanol                                       | A    | 5.00         | 4.80 | 1.180699        | 1.133487  |         | -4.0           | 30        |
| Methyl tert-Butyl Ether (MTBE)                    | A    | 5.00         | 4.54 | 2.130891        | 1.935187  |         | -9.2           | 30        |
| Methylene Chloride                                | A    | 5.00         | 4.76 | 0.8716214       | 0.8291411 |         | -4.9           | 30        |
| 4-Methyl-2-pentanone (MIBK)                       | A    | 5.00         | 5.20 | 0.2414371       | 0.251262  |         | 4.1            | 30        |
| Naphthalene                                       | A    | 5.00         | 4.33 | 0.954618        | 0.8268389 |         | -13.4          | 30        |
| Propene                                           | A    | 5.00         | 5.04 | 0.4075236       | 0.4106172 |         | 0.8            | 30        |
| Styrene                                           | A    | 5.00         | 5.47 | 0.6680173       | 0.7302656 |         | 9.3            | 30        |
| 1,1,2,2-Tetrachloroethane                         | A    | 5.00         | 5.54 | 0.6838293       | 0.7578731 |         | 10.8           | 30        |
| Tetrachloroethylene                               | A    | 5.00         | 5.37 | 0.4174566       | 0.4480917 |         | 7.3            | 30        |
| Tetrahydrofuran                                   | A    | 5.00         | 4.81 | 0.9111963       | 0.8772354 |         | -3.7           | 30        |
| Toluene                                           | A    | 5.00         | 5.27 | 0.9385805       | 0.9896644 |         | 5.4            | 30        |
| 1,2,4-Trichlorobenzene                            | A    | 5.00         | 4.56 | 0.3693275       | 0.3372019 |         | -8.7           | 30        |
| 1,1,1-Trichloroethane                             | A    | 5.00         | 5.11 | 0.5075792       | 0.5183062 |         | 2.1            | 30        |
| 1,1,2-Trichloroethane                             | A    | 5.00         | 5.59 | 0.309655        | 0.3464157 |         | 11.9           | 30        |
| Trichloroethylene                                 | A    | 5.00         | 4.97 | 0.3356598       | 0.3334143 |         | -0.7           | 30        |
| Trichlorofluoromethane (Freon 11)                 | A    | 5.00         | 4.80 | 1.816743        | 1.744034  |         | -4.0           | 30        |
| 1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113) | A    | 5.00         | 4.97 | 1.436582        | 1.427368  |         | -0.6           | 30        |
| 1,2,4-Trimethylbenzene                            | A    | 5.00         | 5.48 | 1.021302        | 1.118844  |         | 9.6            | 30        |
| 1,3,5-Trimethylbenzene                            | A    | 5.00         | 5.56 | 1.055296        | 1.174269  |         | 11.3           | 30        |
| Vinyl Acetate                                     | A    | 5.00         | 4.57 | 1.463541        | 1.338084  |         | -8.6           | 30        |
| Vinyl Chloride                                    | A    | 5.00         | 4.70 | 0.7105757       | 0.6682198 |         | -6.0           | 30        |
| m&p-Xylene                                        | A    | 10.0         | 11.4 | 0.9711506       | 1.105853  |         | 13.9           | 30        |
| o-Xylene                                          | A    | 5.00         | 5.44 | 0.9550518       | 1.039752  |         | 8.9            | 30        |

# Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

\* Values outside of QC limits

**CERTIFICATIONS**
**Certified Analyses included in this Report**

| Analyte                                            | Certifications         |
|----------------------------------------------------|------------------------|
| <b><i>EPA TO-15 in Air</i></b>                     |                        |
| Acetone                                            | AIHA,NY,ME,NH          |
| Benzene                                            | AIHA,FL,NJ,NY,ME,NH,VA |
| Benzyl chloride                                    | AIHA,FL,NJ,NY,ME,NH,VA |
| Bromodichloromethane                               | AIHA,NJ,NY,ME,NH,VA    |
| Bromoform                                          | AIHA,NJ,NY,ME,NH,VA    |
| Bromomethane                                       | AIHA,FL,NJ,NY,ME,NH    |
| 1,3-Butadiene                                      | AIHA,NJ,NY,ME,NH,VA    |
| 2-Butanone (MEK)                                   | AIHA,FL,NJ,NY,ME,NH,VA |
| Carbon Disulfide                                   | AIHA,NJ,NY,ME,NH,VA    |
| Carbon Tetrachloride                               | AIHA,FL,NJ,NY,ME,NH,VA |
| Chlorobenzene                                      | AIHA,FL,NJ,NY,ME,NH,VA |
| Chloroethane                                       | AIHA,FL,NJ,NY,ME,NH,VA |
| Chloroform                                         | AIHA,FL,NJ,NY,ME,NH,VA |
| Chloromethane                                      | AIHA,FL,NJ,NY,ME,NH,VA |
| Cyclohexane                                        | AIHA,NJ,NY,ME,NH,VA    |
| Dibromochloromethane                               | AIHA,NY,ME,NH          |
| 1,2-Dibromoethane (EDB)                            | AIHA,NJ,NY,ME,NH       |
| 1,2-Dichlorobenzene                                | AIHA,FL,NJ,NY,ME,NH,VA |
| 1,3-Dichlorobenzene                                | AIHA,NJ,NY,ME,NH       |
| 1,4-Dichlorobenzene                                | AIHA,FL,NJ,NY,ME,NH,VA |
| Dichlorodifluoromethane (Freon 12)                 | AIHA,NY,ME,NH          |
| 1,1-Dichloroethane                                 | AIHA,FL,NJ,NY,ME,NH,VA |
| 1,2-Dichloroethane                                 | AIHA,FL,NJ,NY,ME,NH,VA |
| 1,1-Dichloroethylene                               | AIHA,FL,NJ,NY,ME,NH,VA |
| cis-1,2-Dichloroethylene                           | AIHA,FL,NY,ME,NH,VA    |
| trans-1,2-Dichloroethylene                         | AIHA,NJ,NY,ME,NH,VA    |
| 1,2-Dichloropropane                                | AIHA,FL,NJ,NY,ME,NH,VA |
| cis-1,3-Dichloropropene                            | AIHA,FL,NJ,NY,ME,NH,VA |
| trans-1,3-Dichloropropene                          | AIHA,NY,ME,NH          |
| 1,2-Dichloro-1,1,2,2-tetrafluoroethane (Freon 114) | AIHA,NJ,NY,ME,NH,VA    |
| 1,4-Dioxane                                        | AIHA,NJ,NY,ME,NH,VA    |
| Ethanol                                            | AIHA                   |
| Ethyl Acetate                                      | AIHA                   |
| Ethylbenzene                                       | AIHA,FL,NJ,NY,ME,NH,VA |
| 4-Ethyltoluene                                     | AIHA                   |
| Heptane                                            | AIHA,NJ,NY,ME,NH,VA    |
| Hexachlorobutadiene                                | AIHA,NJ,NY,ME,NH,VA    |
| Hexane                                             | AIHA,FL,NJ,NY,ME,NH,VA |
| 2-Hexanone (MBK)                                   | AIHA                   |
| Isopropanol                                        | AIHA,NY,ME,NH          |
| Methyl tert-Butyl Ether (MTBE)                     | AIHA,FL,NJ,NY,ME,NH,VA |
| Methylene Chloride                                 | AIHA,FL,NJ,NY,ME,NH,VA |
| 4-Methyl-2-pentanone (MIBK)                        | AIHA,FL,NJ,NY,ME,NH    |
| Naphthalene                                        | NY,ME,NH               |
| Propene                                            | AIHA                   |
| Styrene                                            | AIHA,FL,NJ,NY,ME,NH,VA |
| 1,1,2,2-Tetrachloroethane                          | AIHA,FL,NJ,NY,ME,NH,VA |

**CERTIFICATIONS**
**Certified Analyses included in this Report**

| Analyte                                           | Certifications         |
|---------------------------------------------------|------------------------|
| <b><i>EPA TO-15 in Air</i></b>                    |                        |
| Tetrachloroethylene                               | AIHA,FL,NJ,NY,ME,NH,VA |
| Tetrahydrofuran                                   | AIHA                   |
| Toluene                                           | AIHA,FL,NJ,NY,ME,NH,VA |
| 1,2,4-Trichlorobenzene                            | AIHA,NJ,NY,ME,NH,VA    |
| 1,1,1-Trichloroethane                             | AIHA,FL,NJ,NY,ME,NH,VA |
| 1,1,2-Trichloroethane                             | AIHA,FL,NJ,NY,ME,NH,VA |
| Trichloroethylene                                 | AIHA,FL,NJ,NY,ME,NH,VA |
| Trichlorofluoromethane (Freon 11)                 | AIHA,NY,ME,NH          |
| 1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113) | AIHA,NJ,NY,ME,NH,VA    |
| 1,2,4-Trimethylbenzene                            | AIHA,NJ,NY,ME,NH       |
| 1,3,5-Trimethylbenzene                            | AIHA,NJ,NY,ME,NH       |
| Vinyl Acetate                                     | AIHA,FL,NJ,NY,ME,NH,VA |
| Vinyl Chloride                                    | AIHA,FL,NJ,NY,ME,NH,VA |
| m&p-Xylene                                        | AIHA,FL,NJ,NY,ME,NH,VA |
| o-Xylene                                          | AIHA,FL,NJ,NY,ME,NH,VA |

Con-Test, a Pace Environmental Laboratory, operates under the following certifications and accreditations:

| Code | Description                         | Number        | Expires    |
|------|-------------------------------------|---------------|------------|
| AIHA | AIHA-LAP, LLC - ISO 17025:2017      | 100033        | 03/1/2024  |
| NY   | New York State Department of Health | 10899 NELAP   | 04/1/2024  |
| NH   | New Hampshire Environmental Lab     | 2516 NELAP    | 02/5/2024  |
| NJ   | New Jersey DEP                      | MA007 NELAP   | 06/30/2024 |
| FL   | Florida Department of Health        | E871027 NELAP | 06/30/2024 |
| ME   | State of Maine                      | MA00100       | 06/9/2025  |
| VA   | Commonwealth of Virginia            | 460217        | 12/14/2023 |

Con-Test Pace Analytical  
39 Spruce St  
East Longmeadow, MA 01028

# Canister Samples Chain of Custody Record

9/14/23

2322177

| Client Contact Information                                                                                                                             |                | GES Project Manager: Robert N. Sickler      |           |                                       |                                      | 1 of 1 COCs        |             |       |     |  |  |  |  |                                         |             |                                         |                        |
|--------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|---------------------------------------------|-----------|---------------------------------------|--------------------------------------|--------------------|-------------|-------|-----|--|--|--|--|-----------------------------------------|-------------|-----------------------------------------|------------------------|
| Company: Buckeye Partners                                                                                                                              |                | Phone: 800-220-3069, x4052                  |           |                                       |                                      |                    |             |       |     |  |  |  |  |                                         |             |                                         |                        |
| Address: 625 Elk Street                                                                                                                                |                | Site Contact: Brandon Mikolin (GES)         |           |                                       |                                      |                    |             |       |     |  |  |  |  |                                         |             |                                         |                        |
| City/State/Zip Buffalo, NY 14210                                                                                                                       |                | Pace Contact: Justin Horn                   |           |                                       |                                      |                    |             |       |     |  |  |  |  |                                         |             |                                         |                        |
| Phone: (716) 851-3982                                                                                                                                  |                | Lab is Direct Bill to Buckeye Partners, LLC |           |                                       |                                      |                    |             |       |     |  |  |  |  |                                         |             |                                         |                        |
| FAX:                                                                                                                                                   |                |                                             |           |                                       |                                      |                    |             |       |     |  |  |  |  |                                         |             |                                         |                        |
| Project Name: Buckeye Buffalo Terminal                                                                                                                 |                | Analysis Turnaround Time                    |           |                                       |                                      |                    |             |       |     |  |  |  |  |                                         |             |                                         |                        |
| Site/location:                                                                                                                                         |                | Standard (Specify) 10-day                   |           |                                       |                                      |                    |             |       |     |  |  |  |  |                                         |             |                                         |                        |
| GES Project # 0901876-0420-0406-1109                                                                                                                   |                | Rush (Specify)                              |           |                                       |                                      |                    |             |       |     |  |  |  |  |                                         |             |                                         |                        |
| Sample Identification                                                                                                                                  | Sample Date(s) | Time Start                                  | Time Stop | Canister Vacuum in Field, "Hg (Start) | Canister Vacuum in Field, "Hg (Stop) | Flow Controller ID | Canister ID | TO-15 |     |  |  |  |  | Other (Please specify in notes section) | Sample Type | Other (Please specify in notes section) | Sample Specific Notes: |
| Outdoor SSV-1                                                                                                                                          |                |                                             |           |                                       |                                      |                    |             | X     |     |  |  |  |  |                                         |             |                                         |                        |
| Outdoor Ambient -1                                                                                                                                     |                |                                             |           |                                       |                                      |                    |             | X     |     |  |  |  |  |                                         |             |                                         |                        |
| Office SS -1                                                                                                                                           | 9/14/23        | 0810                                        | 1610      | -28                                   | -5                                   | 3102               | 1060        | X     | 4.4 |  |  |  |  |                                         |             |                                         |                        |
| Office Ambient -1                                                                                                                                      | 9/14/23        | 0800                                        | 1640      | -29                                   | -7                                   | 3253               | 1928        | X     | 7.0 |  |  |  |  |                                         |             |                                         |                        |
| Bathroom SS -1                                                                                                                                         | 9/14/23        | 0820                                        | 1625      | -28                                   | -7                                   | 3045               | 1886        | X     | 7.8 |  |  |  |  |                                         |             |                                         |                        |
| Bathroom Ambient -1                                                                                                                                    | 9/14/23        | 0815                                        | 1620      | -28                                   | -6                                   | 3087               | 1843        | X     | 6.5 |  |  |  |  |                                         |             |                                         |                        |
| Duplicate -1                                                                                                                                           |                |                                             |           |                                       |                                      |                    |             | X     |     |  |  |  |  |                                         |             |                                         |                        |
| Driver Bath Locker Room SS-1                                                                                                                           | 9/14/23        | 0835                                        | 1415      | -30                                   | -2                                   | 5079               | 2023        | X     | 2.4 |  |  |  |  |                                         |             |                                         |                        |
| Driver Bath Locker Room Ambient -1                                                                                                                     | 9/14/23        | 0830                                        | 1645      | -30                                   | -7                                   | 3176               | 2207        | X     | 6.7 |  |  |  |  |                                         |             |                                         |                        |
| Sampled by : Brandon Mikolin                                                                                                                           |                | Temperature (Fahrenheit)                    |           |                                       |                                      |                    |             |       |     |  |  |  |  |                                         |             |                                         |                        |
|                                                                                                                                                        |                | Interior                                    |           | Ambient                               |                                      |                    |             |       |     |  |  |  |  |                                         |             |                                         |                        |
| Start                                                                                                                                                  |                | 69°                                         |           | 51°                                   |                                      |                    |             |       |     |  |  |  |  |                                         |             |                                         |                        |
| Stop                                                                                                                                                   |                | 69°                                         |           | 66°                                   |                                      |                    |             |       |     |  |  |  |  |                                         |             |                                         |                        |
|                                                                                                                                                        |                | Pressure (Inches of Hg)                     |           |                                       |                                      |                    |             |       |     |  |  |  |  |                                         |             |                                         |                        |
|                                                                                                                                                        |                | Interior                                    |           | Ambient                               |                                      |                    |             |       |     |  |  |  |  |                                         |             |                                         |                        |
| Start                                                                                                                                                  |                | 30.14                                       |           | 30.14                                 |                                      |                    |             |       |     |  |  |  |  |                                         |             |                                         |                        |
| Stop                                                                                                                                                   |                | 30.15                                       |           | 30.15                                 |                                      |                    |             |       |     |  |  |  |  |                                         |             |                                         |                        |
| Special Instructions/QC Requirements & Comments: Category B Deliverable                                                                                |                |                                             |           |                                       |                                      |                    |             |       |     |  |  |  |  |                                         |             |                                         |                        |
| Send data to: <a href="mailto:bmikolin@gesonline.com">bmikolin@gesonline.com</a><br><a href="mailto:rsickler@gesonline.com">rsickler@gesonline.com</a> |                |                                             |           |                                       |                                      |                    |             |       |     |  |  |  |  |                                         |             |                                         |                        |
| Canisters Shipped by: Brandon Mikolin to FedEx                                                                                                         |                | Date/Time: 9/14/23 1700                     |           | Canisters Received by:                |                                      |                    |             |       |     |  |  |  |  |                                         |             |                                         |                        |
| Samples Relinquished by:                                                                                                                               |                | Date/Time:                                  |           | Received by:                          |                                      |                    |             |       |     |  |  |  |  |                                         |             |                                         |                        |
| Relinquished by:                                                                                                                                       |                | Date/Time:                                  |           | Received by:                          |                                      |                    |             |       |     |  |  |  |  |                                         |             |                                         |                        |

FedEx® Tracking

[Track Another Shipment](#) [Local Scan Time](#) [Help](#)

## DELIVERED

Monday

9/18/23 at 11:49 AM

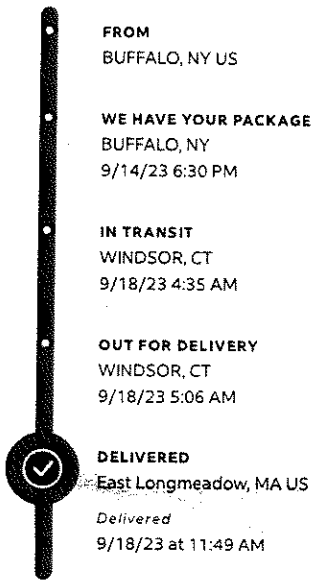
Signed for by: EREVERA

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## TRACKING ID

772462945052 [✎](#) [☆](#)

## DELIVERY STATUS

Delivered [View travel history](#)

Want updates on this shipment? Enter your email and we will do the rest!

YOUR EMAIL

Contestlab39

SUBMIT

✖ Your email is invalid.

[MORE OPTIONS](#)[Manage Delivery](#)

## Shipment facts

 Shipment overview

|                    |                     |
|--------------------|---------------------|
| TRACKING NUMBER    | 772462945052        |
| SHIP DATE ⓘ        | 9/14/23             |
| STANDARD TRANSIT ⓘ | 9/18/23             |
| ACTUAL DELIVERY ⓘ  | 9/18/23 at 11:49 AM |

 [Services](#)



DC#\_Title: ENV-FRM-ELON-0009 v04\_Air Sample Receiving Checklist

Effective Date: 07/13/2023

## Log In Back-Sheet

Client Buckeye Partners  
 Project Buckeye Buffalo Terminal  
 MCP/RCP Required —  
 Deliverable Package Requirement CATB  
 Location Buffalo, NY  
 PWSID# (When Applicable) —  
 Arrival Method FEDEX 772462945052  
 Received By / Date / Time ER 9-18-23 1149  
 Back-Sheet By / Date / Time TPH 9-19-23 1750  
 Temperature Method — # —  
 Temp  $\leq 6^{\circ}\text{C}$  ☐ Actual Temperature —  
 Rush Samples: Yes ☒ No ☐ Notify —  
 Short Hold: Yes ☒ No ☐ Notify —

### Notes regarding Samples/COC outside of SOP:

Login Sample Receipt Checklist – (Rejection Criteria Listing – Using Acceptance Policy)  
 Any False statement will be brought to the attention of the Client – True or False

|                                             | True                                         | False                                                    |
|---------------------------------------------|----------------------------------------------|----------------------------------------------------------|
| Received on Ice                             | <input type="checkbox"/>                     | <input checked="" type="checkbox"/>                      |
| Received in Cooler                          | <input type="checkbox"/>                     | <input checked="" type="checkbox"/>                      |
| Custody Seal: DATE TIME                     | <input type="checkbox"/>                     | <input checked="" type="checkbox"/>                      |
| COC Relinquished                            | <input checked="" type="checkbox"/>          | <input type="checkbox"/>                                 |
| COC/Samples Labels Agree                    | <input checked="" type="checkbox"/>          | <input type="checkbox"/>                                 |
| All Samples in Good Condition               | <input checked="" type="checkbox"/>          | <input type="checkbox"/>                                 |
| Samples Received within Holding Time        | <input checked="" type="checkbox"/>          | <input type="checkbox"/>                                 |
| Is there enough Volume                      | <input checked="" type="checkbox"/>          | <input type="checkbox"/>                                 |
| Proper Media/Container Used                 | <input checked="" type="checkbox"/>          | <input type="checkbox"/>                                 |
| Individually Certified Cans                 | <input checked="" type="checkbox"/> 9        | <input type="checkbox"/>                                 |
| Trip Blanks                                 | <input type="checkbox"/>                     | <input checked="" type="checkbox"/>                      |
| COC Legible                                 | <input checked="" type="checkbox"/>          | <input type="checkbox"/>                                 |
| COC Included: (Check all included)          |                                              |                                                          |
| Client <input checked="" type="checkbox"/>  | Analysis <input checked="" type="checkbox"/> | Sampler Name <input checked="" type="checkbox"/>         |
| Project <input checked="" type="checkbox"/> | IDs <input checked="" type="checkbox"/>      | Collection Date/Time <input checked="" type="checkbox"/> |

| Container   | # | Size | Regulator | Duration | Accessories |      |                  |
|-------------|---|------|-----------|----------|-------------|------|------------------|
| Summa Cans  | 9 | 6L   | 8         | 8hr      | Nut/Ferrule | (4)  | IC Train         |
| Tedlar Bags |   |      |           |          | Tubing      | 12ft |                  |
| TO-17 Tubes |   |      |           |          | T-Connector | 1    | Shipping Charges |
| Radiello    |   |      |           |          | Syringe     |      |                  |
| Pufs/ TO-11 |   |      |           |          | Tedlar      |      |                  |

| Can #'s      | 5    | 10   | 15   | 20 | 25 | 30 | 35 | 40 | 45 | 50 | 55 | 60 | 65 | 70 | 75 | 80 | 85 | 90 | 95 | 100 |
|--------------|------|------|------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|-----|
| 1            | 3102 | 3176 | 3078 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |     |
| 2            | 3253 |      |      |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |     |
| 3            | 3045 | 9052 |      |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |     |
| 4            | 3087 | 9044 |      |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |     |
| Unused Media | 4    | 9    | 14   | 19 | 24 | 29 | 34 | 39 | 44 | 49 | 54 | 59 | 64 | 69 | 74 | 79 | 84 | 89 | 94 | 99  |
| 1            | 1940 | 3569 |      |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |     |
| 2            | 1389 |      |      |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |     |
| 3            | 1325 |      |      |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |     |
| 4            |      |      |      |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |     |

Qualtrax ID: 127034

Page 1 of 1



# Air Sampling Media Certificate of Analysis

Date Analyzed: 6/3/2023 Batch #: J23A153060.D

Certification Type: Batch Certified ☐ Individual Certified ☒

Media Type: Summa Canister ☒ Flow Controllers ☐

Media IDs: BC1060

|  |  |  |
|--|--|--|
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|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |

Note: Two ID's grouped together, for example BC2136/BC3145, represents matched pairs of certified summa canisters and flow controllers.

Units: PPBv

|       |                         |       |                         |       |                           |
|-------|-------------------------|-------|-------------------------|-------|---------------------------|
| <0.80 | Propene                 | <0.04 | Vinyl acetate           | <0.02 | Dibromchloromethane       |
| <0.02 | Dichlorodifluoromethane | <0.20 | Hexane                  | <0.02 | 1,2-Dibromomethane        |
| <0.04 | Chloromethane           | <0.02 | Ethyl acetate           | <0.02 | Tetrachloroethylene       |
| <0.02 | Freon 114               | <0.02 | Chloroform              | <0.02 | Chlorobenzene             |
| <0.02 | Vinyl chloride          | <0.02 | Tetrahydrofuran         | <0.02 | Ethylbenzene              |
| <0.02 | 1,3-Butadiene           | <0.02 | 1,2-Dichloroethane      | <0.04 | m,p-Xylenes               |
| <0.02 | Bromomethane            | <0.02 | 1,1,1-Trichloroethane   | <0.02 | Bromoform                 |
| <0.02 | Chloroethane            | <0.02 | Benzene                 | <0.02 | Styrene                   |
| <0.08 | Acrolein                | <0.02 | Carbon Tetrachloride    | <0.02 | o-Xylene                  |
| <0.80 | Acetone                 | <0.02 | Cyclohexane             | <0.02 | 1,1,2,2-Tetrachloroethane |
| <0.20 | Trichlorofluoromethane  | <0.02 | 1,2-Dichloropropane     | <0.02 | 4-Ethyltoluene            |
| <0.80 | Ethanol                 | <0.02 | Bromodichloromethane    | <0.02 | 1,3,5-Trimethylbenzene    |
| <0.02 | 1,1-Dichloroethylene    | <0.02 | Trichloroethylene       | <0.02 | 1,2,4-Trimethylbenzene    |
| <0.20 | Methylene chloride      | <0.02 | 1,4-Dioxane             | <0.02 | 1,3-Dichlorobenzene       |
| <0.20 | Freon 113               | <0.02 | Methylmethacrylate      | <0.02 | Benzyl chloride           |
| <0.2  | Carbon disulfide        | <0.02 | Heptane                 | <0.02 | 1,4-Dichlorobenzene       |
| <0.02 | t-1,2-Dichloroethylene  | <0.02 | MIBK                    | <0.02 | 1,2-Dichlorobenzene       |
| <0.02 | 1,1-Dichloroethane      | <0.02 | c-1,3-Dichloropropylene | <0.04 | 1,2,4-Trichlorobenzene    |
| <0.02 | MTBE                    | <0.02 | t-1,3-Dichloropropylene | <0.02 | Naphthalene               |
| <0.80 | IPA                     | <0.02 | 1,1,2-Trichloroethylene | <0.02 | Hexachlorobutadiene       |
| <0.20 | 2-Butanone (MEK)        | <0.02 | Toluene                 |       |                           |
| <0.02 | c-1,2-Dichloroethylene  | <0.02 | 2-Hexanone (MBK)        |       |                           |

Special Notes: \_\_\_\_\_

Analyst Initials/Date: CMR 9/26/23



# Air Sampling Media Certificate of Analysis

Date Analyzed: 6/9/2023 Batch #: J23A159040.D

Certification Type: Batch Certified ☐ Individual Certified ☒

Media Type: Summa Canister ☒ Flow Controllers ☐

Media IDs: BC1928

Note: Two ID's grouped together, for example BC2136/BC3145, represents matched pairs of certified summa canisters and flow controllers.

Units: PPBv

|       |                         |       |                         |       |                           |
|-------|-------------------------|-------|-------------------------|-------|---------------------------|
| <0.80 | Propene                 | <0.04 | Vinyl acetate           | <0.02 | Dibromchloromethane       |
| <0.02 | Dichlorodifluoromethane | <0.20 | Hexane                  | <0.02 | 1,2-Dibromomethane        |
| <0.04 | Chloromethane           | <0.02 | Ethyl acetate           | <0.02 | Tetrachloroethylene       |
| <0.02 | Freon 114               | <0.02 | Chloroform              | <0.02 | Chlorobenzene             |
| <0.02 | Vinyl chloride          | <0.02 | Tetrahydrofuran         | <0.02 | Ethylbenzene              |
| <0.02 | 1,3-Butadiene           | <0.02 | 1,2-Dichloroethane      | <0.04 | m,p-Xylenes               |
| <0.02 | Bromomethane            | <0.02 | 1,1,1-Trichloroethane   | <0.02 | Bromoform                 |
| <0.02 | Chloroethane            | <0.02 | Benzene                 | <0.02 | Styrene                   |
| <0.08 | Acrolein                | <0.02 | Carbon Tetrachloride    | <0.02 | o-Xylene                  |
| <0.80 | Acetone                 | <0.02 | Cyclohexane             | <0.02 | 1,1,2,2-Tetrachloroethane |
| <0.20 | Trichlorofluoromethane  | <0.02 | 1,2-Dichloropropane     | <0.02 | 4-Ethyltoluene            |
| <0.80 | Ethanol                 | <0.02 | Bromodichloromethane    | <0.02 | 1,3,5-Trimethylbenzene    |
| <0.02 | 1,1-Dichloroethylene    | <0.02 | Trichloroethylene       | <0.02 | 1,2,4-Trimethylbenzene    |
| <0.20 | Methylene chloride      | <0.02 | 1,4-Dioxane             | <0.02 | 1,3-Dichlorobenzene       |
| <0.20 | Freon 113               | <0.02 | Methylmethacrylate      | <0.02 | Benzyl chloride           |
| <0.2  | Carbon disulfide        | <0.02 | Heptane                 | <0.02 | 1,4-Dichlorobenzene       |
| <0.02 | t-1,2-Dichloroethylene  | <0.02 | MIBK                    | <0.02 | 1,2-Dichlorobenzene       |
| <0.02 | 1,1-Dichloroethane      | <0.02 | c-1,3-Dichloropropylene | <0.04 | 1,2,4-Trichlorobenzene    |
| <0.02 | MTBE                    | <0.02 | t-1,3-Dichloropropylene | <0.02 | Naphthalene               |
| <0.80 | IPA                     | <0.02 | 1,1,2-Trichloroethylene | <0.02 | Hexachlorobutadiene       |
| <0.20 | 2-Butanone (MEK)        | <0.02 | Toluene                 |       |                           |
| <0.02 | c-1,2-Dichloroethylene  | <0.02 | 2-Hexanone (MBK)        |       |                           |

Special Notes:

Analyst Initials/Date: CMR 9/26/23



# Air Sampling Media Certificate of Analysis

Date Analyzed: 6/13/2023 Batch #: J23A163040.D

Certification Type: Batch Certified ☐ Individual Certified ☒

Media Type: Summa Canister ☒ Flow Controllers ☐

Media IDs: BC2023

Note: Two ID's grouped together, for example BC2136/BC3145, represents matched pairs of certified summa canisters and flow controllers.

Units: PPBv

|       |                         |       |                         |       |                           |
|-------|-------------------------|-------|-------------------------|-------|---------------------------|
| <0.80 | Propene                 | <0.04 | Vinyl acetate           | <0.02 | Dibromchloromethane       |
| <0.02 | Dichlorodifluoromethane | <0.20 | Hexane                  | <0.02 | 1,2-Dibromomethane        |
| <0.04 | Chloromethane           | <0.02 | Ethyl acetate           | <0.02 | Tetrachloroethylene       |
| <0.02 | Freon 114               | <0.02 | Chloroform              | <0.02 | Chlorobenzene             |
| <0.02 | Vinyl chloride          | <0.02 | Tetrahydrofuran         | <0.02 | Ethylbenzene              |
| <0.02 | 1,3-Butadiene           | <0.02 | 1,2-Dichloroethane      | <0.04 | m,p-Xylenes               |
| <0.02 | Bromomethane            | <0.02 | 1,1,1-Trichloroethane   | <0.02 | Bromoform                 |
| <0.02 | Chloroethane            | <0.02 | Benzene                 | <0.02 | Styrene                   |
| <0.08 | Acrolein                | <0.02 | Carbon Tetrachloride    | <0.02 | o-Xylene                  |
| <0.80 | Acetone                 | <0.02 | Cyclohexane             | <0.02 | 1,1,2,2-Tetrachloroethane |
| <0.20 | Trichlorofluoromethane  | <0.02 | 1,2-Dichloropropane     | <0.02 | 4-Ethyltoluene            |
| <0.80 | Ethanol                 | <0.02 | Bromodichloromethane    | <0.02 | 1,3,5-Trimethylbenzene    |
| <0.02 | 1,1-Dichloroethylene    | <0.02 | Trichloroethylene       | <0.02 | 1,2,4-Trimethylbenzene    |
| <0.20 | Methylene chloride      | <0.02 | 1,4-Dioxane             | <0.02 | 1,3-Dichlorobenzene       |
| <0.20 | Freon 113               | <0.02 | Methylmethacrylate      | <0.02 | Benzyl chloride           |
| <0.2  | Carbon disulfide        | <0.02 | Heptane                 | <0.02 | 1,4-Dichlorobenzene       |
| <0.02 | t-1,2-Dichloroethylene  | <0.02 | MIBK                    | <0.02 | 1,2-Dichlorobenzene       |
| <0.02 | 1,1-Dichloroethane      | <0.02 | c-1,3-Dichloropropylene | <0.04 | 1,2,4-Trichlorobenzene    |
| <0.02 | MTBE                    | <0.02 | t-1,3-Dichloropropylene | <0.02 | Naphthalene               |
| <0.80 | IPA                     | <0.02 | 1,1,2-Trichloroethylene | <0.02 | Hexachlorobutadiene       |
| <0.20 | 2-Butanone (MEK)        | <0.02 | Toluene                 |       |                           |
| <0.02 | c-1,2-Dichloroethylene  | <0.02 | 2-Hexanone (MBK)        |       |                           |

Special Notes:

Analyst Initials/Date: CMR 9/26/23



# Air Sampling Media Certificate of Analysis

Date Analyzed: 6/12/2023 Batch #: J23A163010.D

Certification Type: Batch Certified ☐ Individual Certified ☒

Media Type: Summa Canister ☒ Flow Controllers ☐

Media IDs: BC1843

Note: Two ID's grouped together, for example BC2136/BC3145, represents matched pairs of certified summa canisters and flow controllers.

Units: PPBv

|       |                         |       |                         |       |                           |
|-------|-------------------------|-------|-------------------------|-------|---------------------------|
| <0.80 | Propene                 | <0.04 | Vinyl acetate           | <0.02 | Dibromchloromethane       |
| <0.02 | Dichlorodifluoromethane | <0.20 | Hexane                  | <0.02 | 1,2-Dibromomethane        |
| <0.04 | Chloromethane           | <0.02 | Ethyl acetate           | <0.02 | Tetrachloroethylene       |
| <0.02 | Freon 114               | <0.02 | Chloroform              | <0.02 | Chlorobenzene             |
| <0.02 | Vinyl chloride          | <0.02 | Tetrahydrofuran         | <0.02 | Ethylbenzene              |
| <0.02 | 1,3-Butadiene           | <0.02 | 1,2-Dichloroethane      | <0.04 | m,p-Xylenes               |
| <0.02 | Bromomethane            | <0.02 | 1,1,1-Trichloroethane   | <0.02 | Bromoform                 |
| <0.02 | Chloroethane            | <0.02 | Benzene                 | <0.02 | Styrene                   |
| <0.08 | Acrolein                | <0.02 | Carbon Tetrachloride    | <0.02 | o-Xylene                  |
| <0.80 | Acetone                 | <0.02 | Cyclohexane             | <0.02 | 1,1,2,2-Tetrachloroethane |
| <0.20 | Trichlorofluoromethane  | <0.02 | 1,2-Dichloropropane     | <0.02 | 4-Ethyltoluene            |
| <0.80 | Ethanol                 | <0.02 | Bromodichloromethane    | <0.02 | 1,3,5-Trimethylbenzene    |
| <0.02 | 1,1-Dichloroethylene    | <0.02 | Trichloroethylene       | <0.02 | 1,2,4-Trimethylbenzene    |
| <0.20 | Methylene chloride      | <0.02 | 1,4-Dioxane             | <0.02 | 1,3-Dichlorobenzene       |
| <0.20 | Freon 113               | <0.02 | Methylmethacrylate      | <0.02 | Benzyl chloride           |
| <0.2  | Carbon disulfide        | <0.02 | Heptane                 | <0.02 | 1,4-Dichlorobenzene       |
| <0.02 | t-1,2-Dichloroethylene  | <0.02 | MIBK                    | <0.02 | 1,2-Dichlorobenzene       |
| <0.02 | 1,1-Dichloroethane      | <0.02 | c-1,3-Dichloropropylene | <0.04 | 1,2,4-Trichlorobenzene    |
| <0.02 | MTBE                    | <0.02 | t-1,3-Dichloropropylene | <0.02 | Naphthalene               |
| <0.80 | IPA                     | <0.02 | 1,1,2-Trichloroethylene | <0.02 | Hexachlorobutadiene       |
| <0.20 | 2-Butanone (MEK)        | <0.02 | Toluene                 |       |                           |
| <0.02 | c-1,2-Dichloroethylene  | <0.02 | 2-Hexanone (MBK)        |       |                           |

Special Notes:

Analyst Initials/Date: CMR 9/26/23



# Air Sampling Media Certificate of Analysis

Date Analyzed: 6/13/2023 Batch #: J23A163035.D

Certification Type: Batch Certified ☐ Individual Certified ☒

Media Type: Summa Canister ☒ Flow Controllers ☐

Media IDs: BC1886

Note: Two ID's grouped together, for example BC2136/BC3145, represents matched pairs of certified summa canisters and flow controllers.

Units: PPBv

|       |                         |       |                         |       |                           |
|-------|-------------------------|-------|-------------------------|-------|---------------------------|
| <0.80 | Propene                 | <0.04 | Vinyl acetate           | <0.02 | Dibromchloromethane       |
| <0.02 | Dichlorodifluoromethane | <0.20 | Hexane                  | <0.02 | 1,2-Dibromomethane        |
| <0.04 | Chloromethane           | <0.02 | Ethyl acetate           | <0.02 | Tetrachloroethylene       |
| <0.02 | Freon 114               | <0.02 | Chloroform              | <0.02 | Chlorobenzene             |
| <0.02 | Vinyl chloride          | <0.02 | Tetrahydrofuran         | <0.02 | Ethylbenzene              |
| <0.02 | 1,3-Butadiene           | <0.02 | 1,2-Dichloroethane      | <0.04 | m,p-Xylenes               |
| <0.02 | Bromomethane            | <0.02 | 1,1,1-Trichloroethane   | <0.02 | Bromoform                 |
| <0.02 | Chloroethane            | <0.02 | Benzene                 | <0.02 | Styrene                   |
| <0.08 | Acrolein                | <0.02 | Carbon Tetrachloride    | <0.02 | o-Xylene                  |
| <0.80 | Acetone                 | <0.02 | Cyclohexane             | <0.02 | 1,1,2,2-Tetrachloroethane |
| <0.20 | Trichlorofluoromethane  | <0.02 | 1,2-Dichloropropane     | <0.02 | 4-Ethyltoluene            |
| <0.80 | Ethanol                 | <0.02 | Bromodichloromethane    | <0.02 | 1,3,5-Trimethylbenzene    |
| <0.02 | 1,1-Dichloroethylene    | <0.02 | Trichloroethylene       | <0.02 | 1,2,4-Trimethylbenzene    |
| <0.20 | Methylene chloride      | <0.02 | 1,4-Dioxane             | <0.02 | 1,3-Dichlorobenzene       |
| <0.20 | Freon 113               | <0.02 | Methylmethacrylate      | <0.02 | Benzyl chloride           |
| <0.2  | Carbon disulfide        | <0.02 | Heptane                 | <0.02 | 1,4-Dichlorobenzene       |
| <0.02 | t-1,2-Dichloroethylene  | <0.02 | MIBK                    | <0.02 | 1,2-Dichlorobenzene       |
| <0.02 | 1,1-Dichloroethane      | <0.02 | c-1,3-Dichloropropylene | <0.04 | 1,2,4-Trichlorobenzene    |
| <0.02 | MTBE                    | <0.02 | t-1,3-Dichloropropylene | <0.02 | Naphthalene               |
| <0.80 | IPA                     | <0.02 | 1,1,2-Trichloroethylene | <0.02 | Hexachlorobutadiene       |
| <0.20 | 2-Butanone (MEK)        | <0.02 | Toluene                 |       |                           |
| <0.02 | c-1,2-Dichloroethylene  | <0.02 | 2-Hexanone (MBK)        |       |                           |

Special Notes:

Analyst Initials/Date: CMR 9/26/23



# Air Sampling Media Certificate of Analysis

Date Analyzed: 6/13/2023 Batch #: J23A163033.D

Certification Type: Batch Certified ☐ Individual Certified ☒

Media Type: Summa Canister ☒ Flow Controllers ☐

Media IDs: BC2207

Note: Two ID's grouped together, for example BC2136/BC3145, represents matched pairs of certified summa canisters and flow controllers.

Units: PPBv

|       |                         |       |                         |       |                           |
|-------|-------------------------|-------|-------------------------|-------|---------------------------|
| <0.80 | Propene                 | <0.04 | Vinyl acetate           | <0.02 | Dibromchloromethane       |
| <0.02 | Dichlorodifluoromethane | <0.20 | Hexane                  | <0.02 | 1,2-Dibromomethane        |
| <0.04 | Chloromethane           | <0.02 | Ethyl acetate           | <0.02 | Tetrachloroethylene       |
| <0.02 | Freon 114               | <0.02 | Chloroform              | <0.02 | Chlorobenzene             |
| <0.02 | Vinyl chloride          | <0.02 | Tetrahydrofuran         | <0.02 | Ethylbenzene              |
| <0.02 | 1,3-Butadiene           | <0.02 | 1,2-Dichloroethane      | <0.04 | m,p-Xylenes               |
| <0.02 | Bromomethane            | <0.02 | 1,1,1-Trichloroethane   | <0.02 | Bromoform                 |
| <0.02 | Chloroethane            | <0.02 | Benzene                 | <0.02 | Styrene                   |
| <0.08 | Acrolein                | <0.02 | Carbon Tetrachloride    | <0.02 | o-Xylene                  |
| <0.80 | Acetone                 | <0.02 | Cyclohexane             | <0.02 | 1,1,2,2-Tetrachloroethane |
| <0.20 | Trichlorofluoromethane  | <0.02 | 1,2-Dichloropropane     | <0.02 | 4-Ethyltoluene            |
| <0.80 | Ethanol                 | <0.02 | Bromodichloromethane    | <0.02 | 1,3,5-Trimethylbenzene    |
| <0.02 | 1,1-Dichloroethylene    | <0.02 | Trichloroethylene       | <0.02 | 1,2,4-Trimethylbenzene    |
| <0.20 | Methylene chloride      | <0.02 | 1,4-Dioxane             | <0.02 | 1,3-Dichlorobenzene       |
| <0.20 | Freon 113               | <0.02 | Methylmethacrylate      | <0.02 | Benzyl chloride           |
| <0.2  | Carbon disulfide        | <0.02 | Heptane                 | <0.02 | 1,4-Dichlorobenzene       |
| <0.02 | t-1,2-Dichloroethylene  | <0.02 | MIBK                    | <0.02 | 1,2-Dichlorobenzene       |
| <0.02 | 1,1-Dichloroethane      | <0.02 | c-1,3-Dichloropropylene | <0.04 | 1,2,4-Trichlorobenzene    |
| <0.02 | MTBE                    | <0.02 | t-1,3-Dichloropropylene | <0.02 | Naphthalene               |
| <0.80 | IPA                     | <0.02 | 1,1,2-Trichloroethylene | <0.02 | Hexachlorobutadiene       |
| <0.20 | 2-Butanone (MEK)        | <0.02 | Toluene                 |       |                           |
| <0.02 | c-1,2-Dichloroethylene  | <0.02 | 2-Hexanone (MBK)        |       |                           |

Special Notes:

Analyst Initials/Date: CMR 9/26/23



## Attachment D – Data Usability Summary Report

---

Buckeye Partners, LP

# Data Validation Report

Buffalo Terminal  
625 Elk Street  
Buffalo, NY 14210

November 17, 2023

Version 1



*Data Validation Report  
Buffalo Buckeye Terminal  
625 Elk Street  
Buffalo, NY 14210*

## **Data Validation Report**

Buffalo Buckeye Terminal

Prepared for:  
Buckeye Partners, LP  
625 Elk Street  
Buffalo, NY 14210

Prepared by:  
Groundwater & Environmental Services, Inc.

701 N Main St., Suite 201

Blacksburg, VA 24060

TEL: 800-220-3068

[www.gesonline.com](http://www.gesonline.com)

GES Project:  
0901876

Date:  
November 17, 2023

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## Tables

Table 1: Data Validation Qualifiers

Table 2: Summa Canister Leak Evaluation

Table 3: Summary of Summa Canister Pressures

Table 4: Bromofluorobenzene Tuning Criteria

## 1 Introduction

Groundwater & Environmental Services, Inc. (GES) is pleased to submit this data validation report regarding the sampling event conducted at the Buckeye/Buffalo terminal (site) on September 14, 2023. Six (6) air samples were collected in 6-Liter Summa Canisters. The samples were sent to Con-Test laboratory Located in East Longmeadow, MA. The samples were analyzed for Volatile Organic Compounds (VOCs) via EPA Method TO-15 using GC/MS in the SIM Mode.

The analytical results were validated using laboratory acceptance criteria, procedures and guidelines contained in the following documents: The United States Environmental Protection Agency (USEPA) Contract Laboratory Program National Functional Guidelines (NFG) for Organic Data Review (USEPA November, 2020). Also referenced for procedures were the Hazardous Waste Support Section EPA Method TO-15 data validation checklist (USEPA, 2016). Items reviewed were sample dilutions, initial and continuing calibration, instrument performance checks, internal standards, system monitoring compounds, method blanks and equipment blanks, and duplicate analyses. Results were qualified as estimated detected ("J"), estimated high ("J+"), estimated low ("J-"), estimated non-detected ("UJ"), non-detect ("U"), or rejected/unusable ("R"), based on the guidelines referenced above.

The following sections outline the criteria which were evaluated for data validity.

## 2 Data Validation Qualifiers

Data validation qualifiers were assigned to various analytes due to compliance issues. **Table 1** lists the analytes, qualifiers, and compliance failures.

**Table 1: Data Validation Qualifiers**

| Sample ID                   | Analytes               | Reported Amount | Qualifier | Compliance Issue |
|-----------------------------|------------------------|-----------------|-----------|------------------|
| Office SS-1                 | Naphthalene            | 0.14            | J-        | LCS Recovery low |
|                             | 1,2,4-Trichlorobenzene | ND              | UJ-       |                  |
| Office Ambient -1           | Naphthalene            | 0.071           | J-        |                  |
|                             | 1,2,4-Trichlorobenzene | ND              | UJ-       |                  |
| Bathroom SS-1               | Naphthalene            | 0.070           | J-        |                  |
|                             | 1,2,4-Trichlorobenzene | ND              | UJ-       |                  |
| Bathroom Ambient -1         | Naphthalene            | 0.16            | J-        |                  |
|                             | 1,2,4-Trichlorobenzene | 0.029           | J-        |                  |
| Driver Bathroom SS-1        | Naphthalene            | 0.14            | J-        |                  |
|                             | 1,2,4-Trichlorobenzene | ND              | UJ-       |                  |
| Driver Bathroom Ambient – 1 | Naphthalene            | ND              | UJ-       |                  |
|                             | 1,2,4-Trichlorobenzene | ND              | UJ-       |                  |

### 3 Sample Receipt

#### 3.1 Pre-sampling Canister Preparation

All canisters used in the sampling were demonstrated by the laboratory to be clean prior to sample collection. Canister leakage was evaluated by comparing field pressure readings vs. laboratory receipt pressure. The difference between the field pressure and laboratory receipt pressure were statistically identical, as the readings all fell within acceptable variance. There were no issues with data due to canister integrity.

**Table 2: Summa Canister Leak Evaluation**

| Sample Name                | SDG        | Canister | Flow Controller | Field Vac./Pres | Receipt Vac./Pres. | RPD <30% |
|----------------------------|------------|----------|-----------------|-----------------|--------------------|----------|
| Office SS-1                | 23I2177-01 | 1060     | 3102            | -5              | -6.9               | 31.9     |
| Office Ambient -1          | 23I2177-02 | 1928     | 3253            | -7              | -7                 | 0.0      |
| Bathroom SS-1              | 23I2177-03 | 1886     | 3045            | -7              | -7.8               | 10.8     |
| Bathroom Ambient -1        | 23I2177-04 | 1843     | 3087            | -6              | -6.5               | 8.0      |
| Driver Bathroom SS-1       | 23I2177-05 | 2023     | 5079            | -2              | -2.4               | 18.2     |
| Driver Bathroom Ambient -1 | 23I2177-06 | 2207     | 3176            | -7              | -6.7               | 4.4      |

#### 3.2 COC and Field Documentation

The COC and field documentation clearly noted the following required information:

- The Region where the samples were taken,
- The Case number,
- The complete list of samples with information on:
  - Sample locations
  - Sample matrix;
  - QC audit samples;
  - Shipping dates;
  - Laboratories involved.
  - Initial/final canister pressure

The COC documentation includes sample descriptions, date(s) of sampling, starting canister pressure, ending canister temperature and time, laboratory receipt pressure, and canister ID. Shipping time was 4 days, with sample arriving at the laboratory on September 18, 2023.

Review of the chain of custody (COC) form and log-in documentation indicates that 6 samples were collected on September 14, 2023 and were shipped for delivery to the laboratory on September 14, 2023. The samples were delivered by Federal Express (the courier used to deliver the samples to the laboratory) September 18, 2023. The samples were shipped appropriately; the pressure upon receipt was acceptable for the detection limits (DL) requested as noted in **Table 2**. There were no compliance issues noted at log-in.

**Table 3: Summary of Summa Canister Pressures**

| Sample Name                 | Lab SDG    | Receipt<br>Vac./Pres. | Acceptable Pressure? |
|-----------------------------|------------|-----------------------|----------------------|
| Office SS-1                 | 23I2177-01 | -5                    | Yes                  |
| Office Ambient -1           | 23I2177-02 | -7                    | Yes                  |
| Bathroom SS-1               | 23I2177-03 | -7                    | Yes                  |
| Bathroom Ambient -1         | 23I2177-04 | -6                    | Yes                  |
| Driver Bathroom SS-1        | 23I2177-05 | -2.4                  | Yes                  |
| Driver Bathroom Ambient - 1 | 23I2177-06 | -6.7                  | Yes                  |

### 3.3 Pre-sampling and Sample Receipt Criteria

All canisters used in the sampling were demonstrated to be clean and leak free prior to sample collect.

## 4 Validation Criteria

### 4.1 Initial Calibration and Continuing Calibration Criteria

A 9-point initial calibration for TO-15 was run on August 2, 2023. An initial calibration verification (ICV) sample was run on the same date. Upon review by GES of the raw data, no analytes were out of compliance in the initial calibration or the ICV.

See further calibration compliance information in the following sections.

#### 4.1.1 Relative Response Factors

The RRF is a measure of the relative response of the instrument detector of an analyte compared to an internal or external standard. NFG limits were used to evaluate the RRF and Mean RRF values in the initial calibration and in the ICV sample. According to the NFG, the RRF and mean RRF values should be equal to or greater than 0.050, with the exception of the analytes noted in Table 15 of the NFG, which require greater than 0.01. All RRF values were greater than 0.05 for the analytes reported.

#### 4.1.2 Percent Relative Standard Deviation (%RSD)

The %RSD is assessed using the initial calibration mean RRF values as compared to the RRF values in the CCV and is a measure of precision. Method TO-15 specifies that the %RSD be less than 30%. All reported analytes had an initial calibration %RSD less than 30%. Upon review of the raw data GES personnel verified that all %RSD values for the ICV and continuing calibration verification (CCV) samples were below the method-recommended criteria.

#### 4.1.3 Percent Difference (%D)

The %D is assessed using the continuing calibration results. Upon review of the raw data, GES personnel verified that the %D calculated between the initial calibration mean RRF and the continuing calibration RRF was below the Method TO-15-recommended  $\pm 30\%$ .

### 4.2 Evaluating Instrument Performance Check Results

GC/MS instrument performance check results were reported for each 12-hour period when samples were analyzed. Abundance acceptance criteria employed by Eurofins for performance check compound Bromofluorobenzene (BFB) met ion abundance acceptance criteria provided in Table 14 of the USEPA Contract Laboratory Program National Functional Guidelines for Superfund Organic Methods Data Review, revised June 2008, as presented in **Table 3**. Using raw GC/MS instrument performance check results provided by the laboratory, GES verified that ion abundance results were within each set of acceptance criteria provided in **Table 3**.

**Table 4: Bromofluorobenzene Tuning Criteria**

| Mass | Ion Abundance Criteria             |
|------|------------------------------------|
| 50   | 8.0 to 40.0% of m/e 95             |
| 75   | 30.0 to 66.0% of m/e 95            |
| 95   | Base Peak, 100% Relative Abundance |
| 96   | 5.0 to 9.0% of m/e 95              |
| 173  | Less than 2.0% of m/e 174          |
| 174  | 50.0 to 120.0% of m/e 95           |
| 175  | 4.0 to 9.0% of m/e 174             |
| 176  | 93.0 to 101.0% of m/e 174          |
| 177  | 5.0 to 9.0% of m/e 176             |

### 4.3 Evaluating Internal Standard Results

According to the NFGs, internal standard performance criteria are employed to ensure that GC/MS sensitivity and response are stable during each analysis. GES personnel reviewed the raw data and verified that each sample was spiked with the applicable internal standard, that the area count results of the internal standards were within the Method TO-15-required  $\pm 40\%$  from the initial calibration range, and that the retention times (RTs) of the internal standards did not

vary by more than the Method TO-15-required  $\pm 20$  seconds from the mean retention time in the initial calibration range.

#### **4.4 Method Blank Samples**

One (1) Method TO-15 laboratory method blank was reported at the recommended frequency of one per analytical batch or one per 20 samples. Method blank results were reported as non-detect by the laboratory. Using raw data, GES verified that all analytes were non-detect in the method blank samples. No qualifications were required based on method blank results.

#### **4.5 Laboratory Accuracy**

Laboratory accuracy is a measure of system bias and can be measured by evaluating laboratory control samples and deuterated monitoring compounds (DMC) percent recoveries.

##### **4.5.1 TO-15 LCS**

One (1) LCS sample was analyzed with the samples reported using TO-15 methodology. The analytical laboratory had established in-house LCS performance criteria (recovery limits) for evaluation of LCS recovery results prior to analysis of samples. Percent recoveries for the analytes in the LCS pair were within 70% to 130%, with the exception of naphthalene at 56.2% and 1,2,4-trichlorobenzene at 59.9%. As a low recovery is indicative of a possible low bias for all associated detected and non-detected results, all naphthalene and 1,2,4-trichlorobenzene results for site samples in are qualified as estimated. These qualifications are listed in **Table 1**. All other recoveries for analytes in the LCS fell within acceptable ranges. No other qualifications were required on the basis of LCS results.

##### **4.5.2 TO-15 Deuterated Monitoring Compounds**

DMCs were run with the samples according to the USEPA Region 2 required usage of DMCs for Method TO-15 (USEPA Region 9, 2000). Although not required, the analytical laboratory established in-house performance criteria (recovery limits) for evaluation of DMC recovery results prior to analysis of samples. Upon review by GES personnel, all DMCs were verified to be within the laboratory-provided criteria for 1,2-Dichloroethane-D<sub>4</sub> (70% to 130%) and for Toluene-D<sub>8</sub> (70% to 130%). No qualifications were required due to DMS recoveries.

#### **4.6 Precision, Measured by Relative Percent Differences (RPDs)**

There was neither laboratory provided duplicates or field generated duplicate samples. The precision could not be evaluated.

#### **4.7 Data Package Completeness**

NYSDEC Category B deliverables were included in the laboratory data package; information required for validation of the data is present.

*Data Validation Report  
Buffalo Buckeye Terminal  
625 Elk Street  
Buffalo, NY 14210*

Please do not hesitate to contact me if you have comments or questions regarding this report.

Sincerely,

A handwritten signature in blue ink, appearing to read "B Janowiak", with a stylized flourish at the end.

Bonnie Janowiak, Ph.D., N.R.C.C.  
Principal Environmental Chemist



## **Attachment E – Product Inventory Photographic Log**

|                                           |                          |                                                                                    |                          |
|-------------------------------------------|--------------------------|------------------------------------------------------------------------------------|--------------------------|
| <b>Client:</b>                            | Buckeye Terminals, LLC   | <b>Project:</b>                                                                    | 09-01876                 |
| <b>Site Name:</b>                         | Buckeye Buffalo Terminal | <b>Site Location:</b>                                                              | Terminal Office Building |
| <b>Image ID:</b>                          | 1                        |  |                          |
| <b>Location:</b>                          | Warehouse                |                                                                                    |                          |
| <b>Direction:</b>                         | NA                       |                                                                                    |                          |
| <b>Date/Time:</b>                         | 2/26/2024                |                                                                                    |                          |
| <b>Comments:</b>                          |                          |                                                                                    |                          |
| Contents of the chemical storage cabinet. |                          |                                                                                    |                          |

|                                                                                    |                          |                                                                                      |                          |
|------------------------------------------------------------------------------------|--------------------------|--------------------------------------------------------------------------------------|--------------------------|
| <b>Client:</b>                                                                     | Buckeye Terminals, LLC   | <b>Project:</b>                                                                      | 09-01876                 |
| <b>Site Name:</b>                                                                  | Buckeye Buffalo Terminal | <b>Site Location:</b>                                                                | Terminal Office Building |
| <b>Image ID:</b>                                                                   | 2                        |  |                          |
| <b>Location:</b>                                                                   | Warehouse                |                                                                                      |                          |
| <b>Direction:</b>                                                                  | NA                       |                                                                                      |                          |
| <b>Date/Time:</b>                                                                  | 2/26/2024                |                                                                                      |                          |
| <b>Comments:</b>                                                                   |                          |                                                                                      |                          |
| Shop Pro – brake cleaner, 23 aerosol cans located in the chemical storage cabinet. |                          |                                                                                      |                          |

|                                                                      |           |                                                                                    |  |
|----------------------------------------------------------------------|-----------|------------------------------------------------------------------------------------|--|
| <b>Client:</b> Buckeye                                               |           | <b>Project:</b> 09-01875                                                           |  |
| <b>Site Name:</b> Buckeye Buffalo Terminal                           |           | <b>Site Location:</b> Terminal Building                                            |  |
| <b>Image ID:</b>                                                     | 3         |  |  |
| <b>Location:</b>                                                     | Warehouse |                                                                                    |  |
| <b>Direction:</b>                                                    | NA        |                                                                                    |  |
| <b>Date/Time:</b>                                                    | 2/26/2024 |                                                                                    |  |
| <b>Comments:</b>                                                     |           |                                                                                    |  |
| WD-40, two (2) aerosol cans located in the chemical storage cabinet. |           |                                                                                    |  |

|                                                                                  |           |                                                                                      |  |
|----------------------------------------------------------------------------------|-----------|--------------------------------------------------------------------------------------|--|
| <b>Client:</b> Buckeye                                                           |           | <b>Project:</b> 09-01875                                                             |  |
| <b>Site Name:</b> Buckeye Buffalo Terminal                                       |           | <b>Site Location:</b> Terminal Building                                              |  |
| <b>Image ID:</b>                                                                 | 4 & 5     |  |  |
| <b>Location:</b>                                                                 | Warehouse |                                                                                      |  |
| <b>Direction:</b>                                                                | NA        |                                                                                      |  |
| <b>Date/Time:</b>                                                                | 2/26/2024 |                                                                                      |  |
| <b>Comments:</b>                                                                 |           |                                                                                      |  |
| Raid – Ant & Roach, one (1) aerosol can located in the chemical storage cabinet. |           |                                                                                      |  |

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| <b>Client:</b> Buckeye                                                                     |           | <b>Project:</b> 09-01875                                                           |  |
| <b>Site Name:</b> Buckeye Buffalo Terminal                                                 |           | <b>Site Location:</b> Terminal Building                                            |  |
| <b>Image ID:</b>                                                                           | 6 & 7     |  |  |
| <b>Location:</b>                                                                           | Warehouse |                                                                                    |  |
| <b>Direction:</b>                                                                          | NA        |                                                                                    |  |
| <b>Date/Time:</b>                                                                          | 2/26/2024 |                                                                                    |  |
| <b>Comments:</b>                                                                           |           |                                                                                    |  |
| Castle – Shop Solv.,<br>One (1) aerosol can located<br>in the chemical storage<br>cabinet. |           |                                                                                    |  |

|                                                                                                       |           |                                                                                      |  |
|-------------------------------------------------------------------------------------------------------|-----------|--------------------------------------------------------------------------------------|--|
| <b>Client:</b> Buckeye                                                                                |           | <b>Project:</b> 09-01875                                                             |  |
| <b>Site Name:</b> Buckeye Buffalo Terminal                                                            |           | <b>Site Location:</b> Terminal Building                                              |  |
| <b>Image ID:</b>                                                                                      | 8 & 9     |  |  |
| <b>Location:</b>                                                                                      | Warehouse |                                                                                      |  |
| <b>Direction:</b>                                                                                     | NA        |                                                                                      |  |
| <b>Date/Time:</b>                                                                                     | 2/26/2024 |                                                                                      |  |
| <b>Comments:</b>                                                                                      |           |                                                                                      |  |
| Griot's Garage – Glass<br>Cleaner, one (1) aerosol can<br>located in the chemical<br>storage cabinet. |           |                                                                                      |  |

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|------------------------------------------------------------------------------------------------|--------------------------|------------------------------------------------------------------------------------|-------------------|
| <b>Client:</b>                                                                                 | Buckeye                  | <b>Project:</b>                                                                    | 09-01875          |
| <b>Site Name:</b>                                                                              | Buckeye Buffalo Terminal | <b>Site Location:</b>                                                              | Terminal Building |
| <b>Image ID:</b>                                                                               | 10                       |  |                   |
| <b>Location:</b>                                                                               | Warehouse                |                                                                                    |                   |
| <b>Direction:</b>                                                                              | NA                       |                                                                                    |                   |
| <b>Date/Time:</b>                                                                              | 2/26/2024                |                                                                                    |                   |
| <b>Comments:</b>                                                                               |                          |                                                                                    |                   |
| <p>Tru-Blu Pipe Thread Sealant, one (1) container located in the chemical storage cabinet.</p> |                          |                                                                                    |                   |

|                                                                                                 |                          |                                                                                                                                                                           |                   |
|-------------------------------------------------------------------------------------------------|--------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|
| <b>Client:</b>                                                                                  | Buckeye                  | <b>Project:</b>                                                                                                                                                           | 09-01875          |
| <b>Site Name:</b>                                                                               | Buckeye Buffalo Terminal | <b>Site Location:</b>                                                                                                                                                     | Terminal Building |
| <b>Image ID:</b>                                                                                | 11 & 12                  |   |                   |
| <b>Location:</b>                                                                                | Warehouse                |                                                                                                                                                                           |                   |
| <b>Direction:</b>                                                                               | NA                       |                                                                                                                                                                           |                   |
| <b>Date/Time:</b>                                                                               | 2/26/2024                |                                                                                                                                                                           |                   |
| <b>Comments:</b>                                                                                |                          |                                                                                                                                                                           |                   |
| <p>Invisible Glass – Glass Cleaner, one (1) bottle located in the chemical storage cabinet.</p> |                          |                                                                                                                                                                           |                   |

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| <b>Client:</b> Buckeye                                                                                                      |           | <b>Project:</b> 09-01875                                                             |  |
| <b>Site Name:</b> Buckeye Buffalo Terminal                                                                                  |           | <b>Site Location:</b> Terminal Building                                              |  |
| <b>Image ID:</b>                                                                                                            | 13        |    |  |
| <b>Location:</b>                                                                                                            | Warehouse |                                                                                      |  |
| <b>Direction:</b>                                                                                                           | NA        |                                                                                      |  |
| <b>Date/Time:</b>                                                                                                           | 2/26/2024 |                                                                                      |  |
| <b>Comments:</b>                                                                                                            |           |                                                                                      |  |
| <p>Blue Monster PTFE Pipe Thread Sealant, one (1) container located in the chemical storage cabinet.</p>                    |           |                                                                                      |  |
| <b>Client:</b> Buckeye                                                                                                      |           | <b>Project:</b> 09-01875                                                             |  |
| <b>Site Name:</b> Buckeye Buffalo Terminal                                                                                  |           | <b>Site Location:</b> Terminal Building                                              |  |
| <b>Image ID:</b>                                                                                                            | 14        |  |  |
| <b>Location:</b>                                                                                                            | Warehouse |                                                                                      |  |
| <b>Direction:</b>                                                                                                           | NA        |                                                                                      |  |
| <b>Date/Time:</b>                                                                                                           | 2/26/2024 |                                                                                      |  |
| <b>Comments:</b>                                                                                                            |           |                                                                                      |  |
| <p>Bostik Never-Seez -- Anti-Seize and lubricating compound, one (1) container located in the chemical storage cabinet.</p> |           |                                                                                      |  |

|                                                                                                                                                             |           |                                                                                      |  |
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| <b>Client:</b> Buckeye                                                                                                                                      |           | <b>Project:</b> 09-01875                                                             |  |
| <b>Site Name:</b> Buckeye Buffalo Terminal                                                                                                                  |           | <b>Site Location:</b> Terminal Building                                              |  |
| <b>Image ID:</b>                                                                                                                                            | 15        |    |  |
| <b>Location:</b>                                                                                                                                            | Warehouse |                                                                                      |  |
| <b>Direction:</b>                                                                                                                                           | NA        |                                                                                      |  |
| <b>Date/Time:</b>                                                                                                                                           | 2/26/2024 |                                                                                      |  |
| <b>Comments:</b><br><br>Unknown compound, one (1) container located in the chemical storage cabinet.                                                        |           |                                                                                      |  |
| <b>Client:</b> Buckeye                                                                                                                                      |           | <b>Project:</b> 09-01875                                                             |  |
| <b>Site Name:</b> Buckeye Buffalo Terminal                                                                                                                  |           | <b>Site Location:</b> Terminal Building                                              |  |
| <b>Image ID:</b>                                                                                                                                            | 16        |  |  |
| <b>Location:</b>                                                                                                                                            | Warehouse |                                                                                      |  |
| <b>Direction:</b>                                                                                                                                           | NA        |                                                                                      |  |
| <b>Date/Time:</b>                                                                                                                                           | 2/26/2024 |                                                                                      |  |
| <b>Comments:</b><br><br>Bostik Never-Seez -- Anti-Seize and lubricating compound, regular grade, one (1) container located in the chemical storage cabinet. |           |                                                                                      |  |

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| <b>Client:</b> Buckeye                                                                                  |           | <b>Project:</b> 09-01875                                                             |  |
| <b>Site Name:</b> Buckeye Buffalo Terminal                                                              |           | <b>Site Location:</b> Terminal Building                                              |  |
| <b>Image ID:</b>                                                                                        | 17        |    |  |
| <b>Location:</b>                                                                                        | Warehouse |                                                                                      |  |
| <b>Direction:</b>                                                                                       | NA        |                                                                                      |  |
| <b>Date/Time:</b>                                                                                       | 2/26/2024 |                                                                                      |  |
| <b>Comments:</b>                                                                                        |           |                                                                                      |  |
| <p>Oatey Purple Primer, one (1) container located in the chemical storage cabinet.</p>                  |           |                                                                                      |  |
| <b>Client:</b> Buckeye                                                                                  |           | <b>Project:</b> 09-01875                                                             |  |
| <b>Site Name:</b> Buckeye Buffalo Terminal                                                              |           | <b>Site Location:</b> Terminal Building                                              |  |
| <b>Image ID:</b>                                                                                        | 18        |  |  |
| <b>Location:</b>                                                                                        | Warehouse |                                                                                      |  |
| <b>Direction:</b>                                                                                       | NA        |                                                                                      |  |
| <b>Date/Time:</b>                                                                                       | 2/26/2024 |                                                                                      |  |
| <b>Comments:</b>                                                                                        |           |                                                                                      |  |
| <p>Permatex – Blue RTV Silicone Gasket Maker, one (1) tube located in the chemical storage cabinet.</p> |           |                                                                                      |  |

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| <b>Client:</b> Buckeye                                                                               |           | <b>Project:</b> 09-01875                                                             |  |
| <b>Site Name:</b> Buckeye Buffalo Terminal                                                           |           | <b>Site Location:</b> Terminal Building                                              |  |
| <b>Image ID:</b>                                                                                     | 19        |    |  |
| <b>Location:</b>                                                                                     | Warehouse |                                                                                      |  |
| <b>Direction:</b>                                                                                    | NA        |                                                                                      |  |
| <b>Date/Time:</b>                                                                                    | 2/26/2024 |                                                                                      |  |
| <b>Comments:</b>                                                                                     |           |                                                                                      |  |
| <p>Big Shot Blaster, four (4) aerosol cans located in the chemical storage cabinet.</p>              |           |                                                                                      |  |
| <b>Client:</b> Buckeye                                                                               |           | <b>Project:</b> 09-01875                                                             |  |
| <b>Site Name:</b> Buckeye Buffalo Terminal                                                           |           | <b>Site Location:</b> Terminal Building                                              |  |
| <b>Image ID:</b>                                                                                     | 20        |  |  |
| <b>Location:</b>                                                                                     | Warehouse |                                                                                      |  |
| <b>Direction:</b>                                                                                    | NA        |                                                                                      |  |
| <b>Date/Time:</b>                                                                                    | 2/26/2024 |                                                                                      |  |
| <b>Comments:</b>                                                                                     |           |                                                                                      |  |
| <p>Blaster – Garage Door Lubricant, one (1) aerosol can located in the chemical storage cabinet.</p> |           |                                                                                      |  |

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| <b>Client:</b> Buckeye                                                                                        |           | <b>Project:</b> 09-01875                                                             |  |
| <b>Site Name:</b> Buckeye Buffalo Terminal                                                                    |           | <b>Site Location:</b> Terminal Building                                              |  |
| <b>Image ID:</b>                                                                                              | 21        |    |  |
| <b>Location:</b>                                                                                              | Warehouse |                                                                                      |  |
| <b>Direction:</b>                                                                                             | NA        |                                                                                      |  |
| <b>Date/Time:</b>                                                                                             | 2/26/2024 |                                                                                      |  |
| <b>Comments:</b>                                                                                              |           |                                                                                      |  |
| <p>Spectracide – Wasp &amp; Hornet Killer, four (4) aerosol cans located in the chemical storage cabinet.</p> |           |                                                                                      |  |
| <b>Client:</b> Buckeye                                                                                        |           | <b>Project:</b> 09-01875                                                             |  |
| <b>Site Name:</b> Buckeye Buffalo Terminal                                                                    |           | <b>Site Location:</b> Terminal Building                                              |  |
| <b>Image ID:</b>                                                                                              | 22        |  |  |
| <b>Location:</b>                                                                                              | Warehouse |                                                                                      |  |
| <b>Direction:</b>                                                                                             | NA        |                                                                                      |  |
| <b>Date/Time:</b>                                                                                             | 2/26/2024 |                                                                                      |  |
| <b>Comments:</b>                                                                                              |           |                                                                                      |  |
| <p>Do it Best - Wasp and Hornet Killer, one (1) aerosol can located in the chemical storage cabinet.</p>      |           |                                                                                      |  |

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|---------------------------------------------------------------------------|-----------|------------------------------------------------------------------------------------|--|
| <b>Client:</b> Buckeye                                                    |           | <b>Project:</b> 09-01875                                                           |  |
| <b>Site Name:</b> Buckeye Buffalo Terminal                                |           | <b>Site Location:</b> Terminal Building                                            |  |
| <b>Image ID:</b>                                                          | 23        |  |  |
| <b>Location:</b>                                                          | Warehouse |                                                                                    |  |
| <b>Direction:</b>                                                         | NA        |                                                                                    |  |
| <b>Date/Time:</b>                                                         | 2/26/2024 |                                                                                    |  |
| <b>Comments:</b>                                                          |           |                                                                                    |  |
| Cable Clean, one (1) aerosol can located in the chemical storage cabinet. |           |                                                                                    |  |

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| <b>Client:</b> Buckeye                                                                            |           | <b>Project:</b> 09-01875                                                             |  |
| <b>Site Name:</b> Buckeye Buffalo Terminal                                                        |           | <b>Site Location:</b> Terminal Building                                              |  |
| <b>Image ID:</b>                                                                                  | 24        |  |  |
| <b>Location:</b>                                                                                  | Warehouse |                                                                                      |  |
| <b>Direction:</b>                                                                                 | NA        |                                                                                      |  |
| <b>Date/Time:</b>                                                                                 | 2/26/2024 |                                                                                      |  |
| <b>Comments:</b>                                                                                  |           |                                                                                      |  |
| Fault-Finder – Group 1 Cleaner 1071, one (1) aerosol can located in the chemical storage cabinet. |           |                                                                                      |  |

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|---------------------------------------------------------------------------------------------------|-----------|--------------------------------------------------------------------------------------|--|
| <b>Client:</b> Buckeye                                                                            |           | <b>Project:</b> 09-01875                                                             |  |
| <b>Site Name:</b> Buckeye Buffalo Terminal                                                        |           | <b>Site Location:</b> Terminal Building                                              |  |
| <b>Image ID:</b>                                                                                  | 25        |    |  |
| <b>Location:</b>                                                                                  | Warehouse |                                                                                      |  |
| <b>Direction:</b>                                                                                 | NA        |                                                                                      |  |
| <b>Date/Time:</b>                                                                                 | 2/26/2024 |                                                                                      |  |
| <b>Comments:</b>                                                                                  |           |                                                                                      |  |
| Fault-Finder Group 1 Penetrant 1072, one (1) aerosol can located in the chemical storage cabinet. |           |                                                                                      |  |
| <b>Client:</b> Buckeye                                                                            |           | <b>Project:</b> 09-01875                                                             |  |
| <b>Site Name:</b> Buckeye Buffalo Terminal                                                        |           | <b>Site Location:</b> Terminal Building                                              |  |
| <b>Image ID:</b>                                                                                  | 26        |  |  |
| <b>Location:</b>                                                                                  | Warehouse |                                                                                      |  |
| <b>Direction:</b>                                                                                 | NA        |                                                                                      |  |
| <b>Date/Time:</b>                                                                                 | 2/26/2024 |                                                                                      |  |
| <b>Comments:</b>                                                                                  |           |                                                                                      |  |
| Liquid Wrench – Chain & Cable Lube, one (1) aerosol can located in the chemical storage cabinet.  |           |                                                                                      |  |

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|---------------------------------------------------------------------------------------------------|-----------|--------------------------------------------------------------------------------------|--|
| <b>Client:</b> Buckeye                                                                            |           | <b>Project:</b> 09-01875                                                             |  |
| <b>Site Name:</b> Buckeye Buffalo Terminal                                                        |           | <b>Site Location:</b> Terminal Building                                              |  |
| <b>Image ID:</b>                                                                                  | 27        |    |  |
| <b>Location:</b>                                                                                  | Warehouse |                                                                                      |  |
| <b>Direction:</b>                                                                                 | NA        |                                                                                      |  |
| <b>Date/Time:</b>                                                                                 | 2/26/2024 |                                                                                      |  |
| <b>Comments:</b>                                                                                  |           |                                                                                      |  |
| Fault-Finder Group 1 Developer 1073, one (1) aerosol can located in the chemical storage cabinet. |           |                                                                                      |  |
| <b>Client:</b> Buckeye                                                                            |           | <b>Project:</b> 09-01875                                                             |  |
| <b>Site Name:</b> Buckeye Buffalo Terminal                                                        |           | <b>Site Location:</b> Terminal Building                                              |  |
| <b>Image ID:</b>                                                                                  | 28        |  |  |
| <b>Location:</b>                                                                                  | Warehouse |                                                                                      |  |
| <b>Direction:</b>                                                                                 | NA        |                                                                                      |  |
| <b>Date/Time:</b>                                                                                 | 2/26/2024 |                                                                                      |  |
| <b>Comments:</b>                                                                                  |           |                                                                                      |  |
| QD Electronic Cleaner, two (2) aerosol cans located in the chemical storage cabinet.              |           |                                                                                      |  |

|                                                                                                                             |           |                                                                                      |  |
|-----------------------------------------------------------------------------------------------------------------------------|-----------|--------------------------------------------------------------------------------------|--|
| <b>Client:</b> Buckeye                                                                                                      |           | <b>Project:</b> 09-01875                                                             |  |
| <b>Site Name:</b> Buckeye Buffalo Terminal                                                                                  |           | <b>Site Location:</b> Terminal Building                                              |  |
| <b>Image ID:</b>                                                                                                            | 29        |    |  |
| <b>Location:</b>                                                                                                            | Warehouse |                                                                                      |  |
| <b>Direction:</b>                                                                                                           | NA        |                                                                                      |  |
| <b>Date/Time:</b>                                                                                                           | 2/26/2024 |                                                                                      |  |
| <b>Comments:</b><br><br>CarQuest – Belt Dressing, two (2) aerosol cans located in the chemical storage cabinet.             |           |                                                                                      |  |
| <b>Client:</b> Buckeye                                                                                                      |           | <b>Project:</b> 09-01875                                                             |  |
| <b>Site Name:</b> Buckeye Buffalo Terminal                                                                                  |           | <b>Site Location:</b> Terminal Building                                              |  |
| <b>Image ID:</b>                                                                                                            | 30        |  |  |
| <b>Location:</b>                                                                                                            | Warehouse |                                                                                      |  |
| <b>Direction:</b>                                                                                                           | NA        |                                                                                      |  |
| <b>Date/Time:</b>                                                                                                           | 2/26/2024 |                                                                                      |  |
| <b>Comments:</b><br><br>CarQuest - Battery Terminal Protector, one (1) aerosol can located in the chemical storage cabinet. |           |                                                                                      |  |

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| <b>Client:</b> Buckeye                                                                                     |           | <b>Project:</b> 09-01875                                                             |  |
| <b>Site Name:</b> Buckeye Buffalo Terminal                                                                 |           | <b>Site Location:</b> Terminal Building                                              |  |
| <b>Image ID:</b>                                                                                           | 31        |    |  |
| <b>Location:</b>                                                                                           | Warehouse |                                                                                      |  |
| <b>Direction:</b>                                                                                          | NA        |                                                                                      |  |
| <b>Date/Time:</b>                                                                                          | 2/26/2024 |                                                                                      |  |
| <b>Comments:</b>                                                                                           |           |                                                                                      |  |
| <p>Gumout – Carb/choke and parts cleaner, one (1) aerosol can located in the chemical storage cabinet.</p> |           |                                                                                      |  |
| <b>Client:</b> Buckeye                                                                                     |           | <b>Project:</b> 09-01875                                                             |  |
| <b>Site Name:</b> Buckeye Buffalo Terminal                                                                 |           | <b>Site Location:</b> Terminal Building                                              |  |
| <b>Image ID:</b>                                                                                           | 32        |  |  |
| <b>Location:</b>                                                                                           | Warehouse |                                                                                      |  |
| <b>Direction:</b>                                                                                          | NA        |                                                                                      |  |
| <b>Date/Time:</b>                                                                                          | 2/26/2024 |                                                                                      |  |
| <b>Comments:</b>                                                                                           |           |                                                                                      |  |
| <p>Starting fluid, two (2) aerosol cans located in the chemical storage cabinet.</p>                       |           |                                                                                      |  |

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| <b>Client:</b> Buckeye                                                                                              |           | <b>Project:</b> 09-01875                                                             |  |
| <b>Site Name:</b> Buckeye Buffalo Terminal                                                                          |           | <b>Site Location:</b> Terminal Building                                              |  |
| <b>Image ID:</b>                                                                                                    | 33        |    |  |
| <b>Location:</b>                                                                                                    | Warehouse |                                                                                      |  |
| <b>Direction:</b>                                                                                                   | NA        |                                                                                      |  |
| <b>Date/Time:</b>                                                                                                   | 2/26/2024 |                                                                                      |  |
| <b>Comments:</b>                                                                                                    |           |                                                                                      |  |
| <p>Goo Gone, one (1) bottle located in the chemical storage cabinet.</p>                                            |           |                                                                                      |  |
| <b>Client:</b> Buckeye                                                                                              |           | <b>Project:</b> 09-01875                                                             |  |
| <b>Site Name:</b> Buckeye Buffalo Terminal                                                                          |           | <b>Site Location:</b> Terminal Building                                              |  |
| <b>Image ID:</b>                                                                                                    | 34        |  |  |
| <b>Location:</b>                                                                                                    | Warehouse |                                                                                      |  |
| <b>Direction:</b>                                                                                                   | NA        |                                                                                      |  |
| <b>Date/Time:</b>                                                                                                   | 2/26/2024 |                                                                                      |  |
| <b>Comments:</b>                                                                                                    |           |                                                                                      |  |
| <p>NOCO Remove+ Battery Cleaner and Acid Detector, one (1) aerosol can located in the chemical storage cabinet.</p> |           |                                                                                      |  |

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|--------------------------------------------------------------------------------|-----------|------------------------------------------------------------------------------------|--|
| <b>Client:</b> Buckeye                                                         |           | <b>Project:</b> 09-01875                                                           |  |
| <b>Site Name:</b> Buckeye Buffalo Terminal                                     |           | <b>Site Location:</b> Terminal Building                                            |  |
| <b>Image ID:</b>                                                               | 35        |  |  |
| <b>Location:</b>                                                               | Warehouse |                                                                                    |  |
| <b>Direction:</b>                                                              | NA        |                                                                                    |  |
| <b>Date/Time:</b>                                                              | 2/26/2024 |                                                                                    |  |
| <b>Comments:</b>                                                               |           |                                                                                    |  |
| <p>Purple Power, four (4) bottles located in the chemical storage cabinet.</p> |           |                                                                                    |  |

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| <b>Client:</b> Buckeye                                                                                 |           | <b>Project:</b> 09-01875                                                             |  |
| <b>Site Name:</b> Buckeye Buffalo Terminal                                                             |           | <b>Site Location:</b> Terminal Building                                              |  |
| <b>Image ID:</b>                                                                                       | 36        |  |  |
| <b>Location:</b>                                                                                       | Warehouse |                                                                                      |  |
| <b>Direction:</b>                                                                                      | NA        |                                                                                      |  |
| <b>Date/Time:</b>                                                                                      | 2/26/2024 |                                                                                      |  |
| <b>Comments:</b>                                                                                       |           |                                                                                      |  |
| <p>Lysol, All purpose cleaner plus bleach, one (1) bottle located in the chemical storage cabinet.</p> |           |                                                                                      |  |

|                                                                                               |           |                                         |  |
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| <b>Client:</b> Buckeye                                                                        |           | <b>Project:</b> 09-01875                |  |
| <b>Site Name:</b> Buckeye Buffalo Terminal                                                    |           | <b>Site Location:</b> Terminal Building |  |
| <b>Image ID:</b>                                                                              | 37        |                                         |  |
| <b>Location:</b>                                                                              | Warehouse |                                         |  |
| <b>Direction:</b>                                                                             | NA        |                                         |  |
| <b>Date/Time:</b>                                                                             | 2/26/2024 |                                         |  |
| <b>Comments:</b>                                                                              |           |                                         |  |
| Ben's Tick and Insect repellent, one (1) aerosol can located in the chemical storage cabinet. |           |                                         |  |

|                                                                               |           |                                         |  |
|-------------------------------------------------------------------------------|-----------|-----------------------------------------|--|
| <b>Client:</b> Buckeye                                                        |           | <b>Project:</b> 09-01875                |  |
| <b>Site Name:</b> Buckeye Buffalo Terminal                                    |           | <b>Site Location:</b> Terminal Building |  |
| <b>Image ID:</b>                                                              | 38        |                                         |  |
| <b>Location:</b>                                                              | Warehouse |                                         |  |
| <b>Direction:</b>                                                             | NA        |                                         |  |
| <b>Date/Time:</b>                                                             | 2/26/2024 |                                         |  |
| <b>Comments:</b>                                                              |           |                                         |  |
| Boss Hydraulic Fluid, one (1) bottle located in the chemical storage cabinet. |           |                                         |  |

|                                                                                                          |           |                                                                                    |  |
|----------------------------------------------------------------------------------------------------------|-----------|------------------------------------------------------------------------------------|--|
| <b>Client:</b> Buckeye                                                                                   |           | <b>Project:</b> 09-01875                                                           |  |
| <b>Site Name:</b> Buckeye Buffalo Terminal                                                               |           | <b>Site Location:</b> Terminal Building                                            |  |
| <b>Image ID:</b>                                                                                         | 39        |  |  |
| <b>Location:</b>                                                                                         | Warehouse |                                                                                    |  |
| <b>Direction:</b>                                                                                        | NA        |                                                                                    |  |
| <b>Date/Time:</b>                                                                                        | 2/26/2024 |                                                                                    |  |
| <b>Comments:</b>                                                                                         |           |                                                                                    |  |
| <p>Prestone Concentrate Antifreeze/coolant, two (2) bottles located in the chemical storage cabinet.</p> |           |                                                                                    |  |

|                                                                                                           |           |                                                                                      |  |
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| <b>Client:</b> Buckeye                                                                                    |           | <b>Project:</b> 09-01875                                                             |  |
| <b>Site Name:</b> Buckeye Buffalo Terminal                                                                |           | <b>Site Location:</b> Terminal Building                                              |  |
| <b>Image ID:</b>                                                                                          | 40        |  |  |
| <b>Location:</b>                                                                                          | Warehouse |                                                                                      |  |
| <b>Direction:</b>                                                                                         | NA        |                                                                                      |  |
| <b>Date/Time:</b>                                                                                         | 2/26/2024 |                                                                                      |  |
| <b>Comments:</b>                                                                                          |           |                                                                                      |  |
| <p>A/C Pro Ultra Synthetic A/C Recharge, one (1) aerosol can located in the chemical storage cabinet.</p> |           |                                                                                      |  |

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| <b>Client:</b> Buckeye                                                            |           | <b>Project:</b> 09-01875                                                           |  |
| <b>Site Name:</b> Buckeye Buffalo Terminal                                        |           | <b>Site Location:</b> Terminal Building                                            |  |
| <b>Image ID:</b>                                                                  | 41        |  |  |
| <b>Location:</b>                                                                  | Warehouse |                                                                                    |  |
| <b>Direction:</b>                                                                 | NA        |                                                                                    |  |
| <b>Date/Time:</b>                                                                 | 2/26/2024 |                                                                                    |  |
| <b>Comments:</b>                                                                  |           |                                                                                    |  |
| Miscellaneous containers of various oils located in the chemical storage cabinet. |           |                                                                                    |  |

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| <b>Client:</b> Buckeye                                                                    |           | <b>Project:</b> 09-01875                                                             |  |
| <b>Site Name:</b> Buckeye Buffalo Terminal                                                |           | <b>Site Location:</b> Terminal Building                                              |  |
| <b>Image ID:</b>                                                                          | 42        |  |  |
| <b>Location:</b>                                                                          | Warehouse |                                                                                      |  |
| <b>Direction:</b>                                                                         | NA        |                                                                                      |  |
| <b>Date/Time:</b>                                                                         | 2/26/2024 |                                                                                      |  |
| <b>Comments:</b>                                                                          |           |                                                                                      |  |
| Quaker State SAW 5W-30 Motor Oil, one (1) bottle located in the chemical storage cabinet. |           |                                                                                      |  |

|                                                                                                                                 |           |                                                                                      |  |
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| <b>Client:</b> Buckeye Terminals, LLC                                                                                           |           | <b>Project:</b> 09-01876                                                             |  |
| <b>Site Name:</b> Buckeye Buffalo Terminal                                                                                      |           | <b>Site Location:</b> Terminal Office Building                                       |  |
| <b>Image ID:</b>                                                                                                                | 43        |    |  |
| <b>Location:</b>                                                                                                                | Warehouse |                                                                                      |  |
| <b>Direction:</b>                                                                                                               | NA        |                                                                                      |  |
| <b>Date/Time:</b>                                                                                                               | 2/26/2024 |                                                                                      |  |
| <b>Comments:</b><br><br>Castrol Mercon V, automatic transmission fluid, one (1) bottle located in the chemical storage cabinet. |           |                                                                                      |  |
| <b>Client:</b> Buckeye                                                                                                          |           | <b>Project:</b> 09-01875                                                             |  |
| <b>Site Name:</b> Buckeye Buffalo Terminal                                                                                      |           | <b>Site Location:</b> Terminal Building                                              |  |
| <b>Image ID:</b>                                                                                                                | 44        |  |  |
| <b>Location:</b>                                                                                                                | Warehouse |                                                                                      |  |
| <b>Direction:</b>                                                                                                               | NA        |                                                                                      |  |
| <b>Date/Time:</b>                                                                                                               | 2/26/2024 |                                                                                      |  |
| <b>Comments:</b><br><br>Isopropyl Alcohol 1%, first aid antiseptic, one (1) bottle located in the chemical storage cabinet.     |           |                                                                                      |  |

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| <b>Client:</b> Buckeye Terminals, LLC                                                           |           | <b>Project:</b> 09-01876                                                           |  |
| <b>Site Name:</b> Buckeye Buffalo Terminal                                                      |           | <b>Site Location:</b> Terminal Office Building                                     |  |
| <b>Image ID:</b>                                                                                | 45        |  |  |
| <b>Location:</b>                                                                                | Warehouse |                                                                                    |  |
| <b>Direction:</b>                                                                               | NA        |                                                                                    |  |
| <b>Date/Time:</b>                                                                               | 2/26/2024 |                                                                                    |  |
| <b>Comments:</b>                                                                                |           |                                                                                    |  |
| <p>Diesel Engine Starting Fluid, one (1) container located in the chemical storage cabinet.</p> |           |                                                                                    |  |

|                                                                                                                                                                                                 |           |                                                                                      |  |
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| <b>Client:</b> Buckeye Terminals, LLC                                                                                                                                                           |           | <b>Project:</b> 09-01876                                                             |  |
| <b>Site Name:</b> Buckeye Buffalo Terminal                                                                                                                                                      |           | <b>Site Location:</b> Terminal Office Building                                       |  |
| <b>Image ID:</b>                                                                                                                                                                                | 46        |  |  |
| <b>Location:</b>                                                                                                                                                                                | Warehouse |                                                                                      |  |
| <b>Direction:</b>                                                                                                                                                                               | NA        |                                                                                      |  |
| <b>Date/Time:</b>                                                                                                                                                                               | 2/26/2024 |                                                                                      |  |
| <b>Comments:</b>                                                                                                                                                                                |           |                                                                                      |  |
| <p>Valvoline SAE 30 motor oil, three (3) bottles. Valvoline SAE 10W-30 motor oil, one (1) bottle. Valvoline SAE-20W motor oil, one (1) bottle. All located in the chemical storage cabinet.</p> |           |                                                                                      |  |

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| <b>Client:</b> Buckeye Terminals, LLC                                                                                                                      |           | <b>Project:</b> 09-01876                                                           |  |
| <b>Site Name:</b> Buckeye Buffalo Terminal                                                                                                                 |           | <b>Site Location:</b> Terminal Office Building                                     |  |
| <b>Image ID:</b>                                                                                                                                           | 47        |  |  |
| <b>Location:</b>                                                                                                                                           | Warehouse |                                                                                    |  |
| <b>Direction:</b>                                                                                                                                          | NA        |                                                                                    |  |
| <b>Date/Time:</b>                                                                                                                                          | 2/26/2024 |                                                                                    |  |
| <b>Comments:</b>                                                                                                                                           |           |                                                                                    |  |
| <p>High performance lubricants<br/>                 – HP Premium aluminum complex grease, four (4) containers located in the chemical storage cabinet.</p> |           |                                                                                    |  |