



September 5, 2025

Megan Kuczka
Environmental Program Specialist 2
New York State Department of Environmental Conservation
700 Delaware Avenue
Buffalo, NY 14209

Re: SSD Corrective Measures Report
Site Name: Buffalo Color Corporation Site Area C
Site No.: C915231
Site Address: 229 Elk Street
Buffalo, New York 14210

Dear Ms. Kuczka:

On behalf of South Buffalo Development Corporation, LLC (SBD), Inventum Engineering, P.C. (Inventum) is pleased to submit this Sub-Slab Depressurization (SSD) System Corrective Measures Report for the former Buffalo Color Corporation (BCC) Area C Brownfield Cleanup Program Site (BCP Site No. C915231). The 6.03-acre Area C Site is located at 229 Elk Street in the City of Buffalo, County of Erie, New York and is one of five areas that comprised the former BCC. BCC produced dyes and organic chemicals until its bankruptcy in 2005.

Remedial activities conducted at the Site are documented in the December 2010 Area C Final Engineering Report (FER) and December 2010 Area C Site Management Plan (SMP)¹. Additional remedial activities were conducted in accordance with the August 2019 redevelopment Remedial Action Work Plan (RAWP) to upgrade the existing remedial actions to meet the requirements for Restricted-Residential development. Included was the design, construction, and operation of a sub-slab depressurization (SSD) system, which has been in operation since building occupancy was approved in December 2020.

Background

Post-construction communication testing of the SSD was completed in October 2021 and January 2023. Indoor air sampling was conducted in March 2023 in accordance with the June 16, 2022, NYSDEC approved *Indoor Air Sampling Work Plan* (IAWP). The results of the March 2023 indoor air sampling were reported in a September 2023 *Indoor Air Sampling Report*, and based on those results, additional sub-slab and indoor air sampling was completed in March 2024 during the 2023-2024 heating season.

The results of the March 2024 sub-slab and indoor air sampling program were reported to the NYSDEC in a letter dated September 6, 2024. Co-located indoor air and sub-slab samples were

¹ The FER and SMP are currently being revised to document additional remedial activities and institutional controls/engineering controls put in place since 2010 to allow for Restricted-Residential use. The FER/SMP revisions include an Operations and Maintenance Plan for the SSD system.

collected at four (4) indoor locations (Area C-01, Area C-02, Area C-03, and Area C-04) and one (1) outdoor location (Area C-OA). Relevant tables and figures from the letter report are included for reference in Attachment A.

A general summary of the March 2024 sub-slab and indoor air sampling program is provided below:

- Carbon tetrachloride, Ethylbenzene, Methylene Chloride, o-Xylene, p/m-Xylene, and Tetrachloroethene (PCE) were detected in indoor air samples at concentrations above their respective guideline concentrations in the New York State Department of Health (NYSDOH) soil vapor intrusion guidance document².
- PCE was detected in sub-slab samples in all samples at concentrations above the guideline concentration in the NYSDOH guidance document.
- The following compounds were detected in co-located sub-slab and indoor air sample locations at concentrations that fall within a NYSDOH matrix action recommendation to *Identify Source(s) and Resample or Mitigate*:
 - o Matrix B – Methylene Chloride – Area C-01, Area C-02, Area C-03, and Area C-04
 - o Matrix D – Ethylbenzene – Area C-02 and Area C-03
 - o Matrix E – m-Xylene – Area C-01, Area C-02, Area C-03, and Area C-04
 - o Matrix E – p-Xylene – Area C-01, Area C-02, area C-03, and Area C-04
- The following compounds were detected in co-located sub-slab and indoor air sample locations at concentrations that fall within a NYSDOH matrix action recommendation to *Mitigate*:
 - o Matrix B – Tetrachloroethene – Area C-01, Area C-02, Area C-03, and Area C-04

Inventum submitted an *SSD Corrective Measures Work Plan* (CMWP) to NYSDEC on December 31, 2024, which was approved by NYSDEC in a letter dated January 9, 2025. The CMWP included the installation of five (5) additional sub-slab test points and one (1) additional round of co-located sub-slab and indoor air samples at the same four (4) locations and one (1) outdoor location as sampled in March 2024. The additional test points were installed by Inventum and OSC on January 23, 2025. The additional sub-slab and indoor air samples were collected on February 25, 2025. Photographs collected during implementation of the CMWP are provided in Attachment B. The results and summary of the CMWP sub-slab and indoor air sampling program are provided below.

Corrective Measures Sampling Results

Test Port Installation

Five (5) additional sub-slab test points (Test Port #6 through Test Port #10) were installed at the locations shown on Figure 1. Inventum utilized a Vapor Pin® system for installation (Attachment

² Final Guidance for Evaluating Soil Vapor Intrusion in the State of New York, New York State Department of Health, Center for Environmental Health Bureau of Environmental Exposure Investigation. October 2006.



C). Only personnel directly associated with the vapor point installation were in the basement during the installation. A photoionization detector (PID) was used to measure and record any VOC readings. There were no recorded PID readings above 0 parts per million (ppm) during the installation.

Sample Collection

Indoor air and sub-slab samples were collected on February 25, 2025, in general accordance with the following guidance document:

- Final Guidance for Evaluation Soil Vapor Intrusion in the State of New York, New York State Department of Health (NYSDOH), Center for Environmental Health Bureau of Environmental Exposure Investigation, October 2006.

Co-located indoor air and sub-slab samples were collected at four (4) indoor locations (Area C-01, Area C-02, Area C-03, and Area C-04) and one (1) outdoor location (Area C-0A) as shown on Figure 1 and photographs in Attachment B. One (1) 8-hour sample was collected at each sub-slab and indoor air sample location in a laboratory certified clean Summa® canister and submitted to Pace Analytical Laboratories of Buffalo, New York for VOC analysis using EPA method TO-15/TO-15 SIM.

The laboratory data report is provided as Attachment D and EQUiS files were submitted to NYSDEC on August 26, 2025. The analytical data package received a third-party data validation review by Vali-Data of WNY, LLC. A data usability summary report (DUSR) is provided in Attachment E. The data are acceptable for use. Several quality control samples were qualified as estimated due to target analytes outside quality control limits.

A helium leak detection test was conducted at each location prior to sampling to test for short circuiting between the sub-slab and the indoor air space at the test port sample location. The test port in Area C-01 passed without any modifications needed. Sub-slab sample ports at Area C-02, Area C-03, and Area C-04 passed the helium detection test following installation of a water dam using a VOC free clay.

Samples were collected between 7:30 AM and 4:30 PM. The inlets of the indoor and outdoor air sample collection canisters were elevated approximately 3 feet above the basement surface. Sub-slab samples were collected from Test Port #5 (Area C-01), Test Port #4 (Area C-02), Test Port #3 (Area C-03), and Test Port #2 (Area C-04). Each location was screened with a PID prior to and after sample collection. A product inventory survey was conducted at each sample location (Table 1). Safety Data Sheets (SDS), if available, for specific products identified in the product inventory are included in Attachment F.

The outdoor sample (Area C-0A) was located on the northwest corner of the building. Outside weather conditions on the day of sampling between the hours of 7:30 AM and 4:30 PM included an average temperature of 37 degrees F, relative humidity of 78-percent, winds coming from the northeast at an average spec of 11.75 miles per hour (mph), and light rain and snow. The



basement is unconditioned space, but the building heating supply for the upper floors was active during sampling. Basement temperatures were between 65- and 70-degrees F.

Area C-01 indoor air and sub-slab samples were collected in the southern central section of the basement below the unoccupied 2nd floor dwelling unit. There were no chemicals noted in the vicinity of the sample location and the area was clear of any construction materials. The area was being utilized for storage of freshly washed dishes and dry materials in plastic crates. PID readings in the sample area prior to collection were non-detect.

Area C-02 indoor air and sub-slab samples were collected from the eastern portion of the basement. Shut and sealed containers of latex paints, spray paints, xylene-based paint thinners, epoxy floor coating, floor sealant, Quikrete, multi surface cleaners, Clean Sweep, and weed killer were stored in the vicinity of sample Area C-02. Dry cleaned table clothes and sheets were also stored in the vicinity. PID readings in sample area prior to collection were non-detect.

Area C-03 indoor air and sub-slab samples were collected from the northeastern portion of the basement. Plastic folding tables, glassware, and decorations were stored around the sample location. No chemicals or paints were noted in the immediate vicinity of Area C-03. PID readings in the sample area prior to collection were non-detect.

Area C-04 indoor air and sub-slab samples were collected from the northern area of the basement adjacent to Fan #4. Recently painted event props were drying in the area, and sealed enamel paint cans and spray paints were being temporarily stored nearby. Rich's Catering also stores a large quantity of alcohol adjacent to the sampling location. PID readings in the sample area prior to collection were non-detect.

The basement exhaust fan, utility fans, and dehumidifiers were not in operation during sample collection.

Results

Benzene, Carbon Tetrachloride, Ethylbenzene, Methylene Chloride, o-Xylene, p/m-Xylene, and PCE were detected in all four of the indoor air samples at concentration above their respective guideline concentration in the NYSDOH guidance document (Table 2). 1,2,4-Trimethylbenzene was detected in the indoor air sample from Area C-01 above the respective guideline concentration. None of the other matrix analytes were detected at concentrations above their respective indoor air guideline concentration.

Benzene, n-Hexane, Naphthalene, p/m-Xylene, PCE, and Toluene were detected in all four sub-slab samples at concentrations below their respective sub-slab guideline concentrations. 1,2,4-trimethylbenzene, Cyclohexane, Ethylbenzene, Heptane, Methylene Chloride, and o-Xylene were also detected at concentrations below their respective sub-slab guideline concentrations, but not at all locations.

A summary of the sampling results is provided in Table 2. Table 3 summarizes the recommended actions for each sample location against the six NYSDOH matrices (Matrix A through Matrix F).



Those analytes detected in an indoor air sample (Carbon Tetrachloride, Methylene chloride, PCE, 1,2,4-Trimethylbenzene, Benzene, Ethylbenzene, o-Xylene, and p/m-Xylene) at concentrations above their respective guideline concentration are further discussed below.

Carbon tetrachloride was detected in the outdoor air sample at a similar concentration (0.453 micrograms per cubic meter [$\mu\text{g}/\text{m}^3$]) to the four indoor air samples (0.415 $\mu\text{g}/\text{m}^3$ to 0.522 $\mu\text{g}/\text{m}^3$). These results are similar to the March 2024 samples (Attachment A). The indoor air and sub-slab detections should be considered indicative of background levels and the Matrix A recommendation for all locations is *No Further Action* (Table 3).

Methylene chloride concentration in the indoor air samples (7.47 $\mu\text{g}/\text{m}^3$ to 17.6 $\mu\text{g}/\text{m}^3$) were similar in magnitude to the concentrations in the sub-slab samples (3.24 $\mu\text{g}/\text{m}^3$ to 10.7 $\mu\text{g}/\text{m}^3$). Methylene chloride was not detected in the outdoor sample. Methylene chloride concentrations in the March 2024 samples were on the same order of magnitude (Attachment A). The Matrix B recommendation for Area C-02 and Area C-03 is to *Identify Source(s) or Resample or Mitigate* (Table 3). Paint thinners were identified in the product inventory and are a well-known contributing occupational source of Methylene chloride. The recommendation for all other areas is *No Further Action*.

PCE concentrations in the indoor air samples (104 $\mu\text{g}/\text{m}^3$ to 133 $\mu\text{g}/\text{m}^3$) were higher than the concentrations in the sub-slab samples (67 $\mu\text{g}/\text{m}^3$ to 88.2 $\mu\text{g}/\text{m}^3$). The indoor air samples from March 2024 contained a similar magnitude and range of PCE concentrations (130 $\mu\text{g}/\text{m}^3$ to 143 $\mu\text{g}/\text{m}^3$; Attachment A). PCE was also detected in the outdoor air sample (0.773 $\mu\text{g}/\text{m}^3$) indicating some background influence. The Matrix B recommendation for all locations is to *Identify Source(s) or Resample or Mitigate* (Table 3). PCE has not been detected in groundwater samples from routine monitoring conducted as part of ongoing SMP. PCE was also not detected in soils beneath the cover system that were left in place following completion of remedial actions on the BCP Site³. Corrective actions are recommended in further sections of this report to increase vacuum levels in the sub-slab and further mitigate PCE in indoor air due to potential subsurface sources.

1,2,4-Trimethylbenzene was detected in sample Area C-04 (3.14 $\mu\text{g}/\text{m}^3$) and in the outdoor air sample (2.27 $\mu\text{g}/\text{m}^3$) above the NYSDOH indoor air guideline concentration. 1,2,4-Trimethylbenzene was not detected in the Area C-04 co-located sub-slab sample. The Matrix D recommendation for all locations is *No Further Action* (Table 3).

Benzene concentrations in the indoor air samples (2.07 $\mu\text{g}/\text{m}^3$ to 2.61 $\mu\text{g}/\text{m}^3$) were similar in magnitude to the concentrations in the sub-slab samples (1.95 $\mu\text{g}/\text{m}^3$ to 4.34 $\mu\text{g}/\text{m}^3$). Benzene was detected in indoor air and sub-slab samples during the March 2024 sampling (Attachment A), but not at concentrations above NYSDOH guideline values. The Matrix D recommendation for all locations is *No Further Action* (Table 3).

Ethylbenzene concentrations in the indoor air samples (6.52 $\mu\text{g}/\text{m}^3$ to 9.99 $\mu\text{g}/\text{m}^3$) were higher than concentrations in the sub-slab samples (1.12 $\mu\text{g}/\text{m}^3$ to 4.65 $\mu\text{g}/\text{m}^3$). Ethylbenzene was not

³ See Table 1 – Remaining Soil Exceedances. *Site Management Plan. Former Buffalo Color Corporation Site – Area C. NYSDEC Site Number C915231. Mactec 2010.*



detected in the outdoor air sample. The Matrix D recommendation for all locations is *No Further Action* (Table 3).

O-Xylene concentrations in the indoor air samples ($4.18 \mu\text{g}/\text{m}^3$ to $6.56 \mu\text{g}/\text{m}^3$) were higher than the concentrations in the sub-slab samples ($0.916 \mu\text{g}/\text{m}^3$ to $2.36 \mu\text{g}/\text{m}^3$). O—Xylene was not detected in the outdoor air sample. The Matrix D recommendation for all locations is *No Further Action* (Table 3).

P/M-Xylene concentrations in the indoor air samples ($20.7 \mu\text{g}/\text{m}^3$ to $32.9 \mu\text{g}/\text{m}^3$) were higher than the concentrations in the sub-slab samples ($1.82 \mu\text{g}/\text{m}^3$ to $11.4 \mu\text{g}/\text{m}^3$). P/M-Xylene was not detected in the outdoor air sample. The magnitude and range of detections in the indoor air samples were similar to those in March 2024 samples ($28.1 \mu\text{g}/\text{m}^3$ to $37.6 \mu\text{g}/\text{m}^3$; Attachment A). The concentrations in the sub-slab samples were identifiably less than the March 2024 samples ($29.5 \mu\text{g}/\text{m}^3$ to $34.6 \mu\text{g}/\text{m}^3$; Attachment A). The Matrix E recommendation for all locations is to *Identify Source(s) or Resample or Mitigate* (Table 3). Xylene based paint thinners were identified in the product inventory and are likely to contribute to Xylene detections in indoor air.

Indoor air sample data was also compared to the NYS Fuel Oil Study upper fence levels and the 90th percentile of the EPA Building Assessment Survey Evaluation (BASE) study (Table 4). Ethylbenzene (all locations), Methylene chloride (one location), p/m-Xylene (all locations), Tetrahydrofuran (all locations), and PCE (all locations) were detected at concentrations above the fuel oil study upper fence level. Ethanol (all locations), Ethylbenzene (all locations), Methylene chloride (two locations), p/m-Xylene (three locations), and PCE (all locations) were detected at concentrations above the BASE study 90th percentile value.

Recommendations

Methylene Chloride (Area C-02 and Area C-03), PCE (all areas), and p/m-Xylene (all areas) were identified as constituents detected in indoor air samples and sub-slab samples at concentrations requiring actions to *Identify Source(s) or Resample or Mitigate*. The product inventory (Table 1; Attachment F) identifies several commercial products utilized and stored in the basement that contain Methylene Chloride and p/m-Xylene (paint thinners, spray paints, sealants) and can contribute to detections of these compounds in indoor air. This is particularly true for unconditioned space with minimal mechanical ventilation. The small fresh air fan installed in 2024 in the southeast corner of the basement (Figure 3) provides approximately 230 cubic feet per minute (CFM) and the exhaust fan has a rated capacity of 469 CFM. This equates to approximately 0.14 air exchanges per hour (ACH) based on approximate room dimensions⁴ and exhaust fan capacity.

Pressure differentials from the SSD system sub-slab test ports and manometer taps in the vent piping are provided in Table 5 and on Figure 3. Vacuum levels in all of the vent risers indicate the

⁴ Assumes a footprint of 20,140 square feet which is the 1st floor commercial space square footage (27,140 sq ft) on the buildings City of Buffalo Certificate of Occupancy (Issued 12/22/2020 – Certificate No. 202405) minus the estimated square footage (7,000 sq ft) of the solid concrete foundation support structures that span the height of the basement. Assumes an average ceiling height of ± 10 -feet.



fans are working as designed. Pressure differentials from the test ports indicate that the ROI in the western and northern half of the building is likely limited to between 20 and 25 feet from groundwater saturation in the slab subbase. This is evidenced by consistent vacuum levels near Fan #4 at Test Port #2 (5 feet away) and Test Port #7 (20 feet away), but no recorded vacuum in Test Port #6 (28 feet away) or Test Port #8 (46 feet away). The static groundwater level in the vicinity of the building is approximately 6.5 feet below ground surface (bgs)⁵. There are areas with minor surficial cracking in the enamel surface of the slab (Attachment B). PID readings in these areas were non-detect.

Inventum proposes the following corrective actions to increase vacuum levels in the sub-slab and provide additional clarity on the source (sub-slab contamination vs. occupational sources) of VOCs in indoor air.

Existing inline Fan #1, Fan #4, and Fan #6 will be replaced with models capable of providing higher suction and higher flow rates such as a Fan Tech Rn 4E4 or RadonAway GX5A (Attachment G). Following installation, weekly pressure differential readings will be collected from all vent risers and all ten (10) sub-slab test port locations (Figure 3) and documented in the November 2025 Periodic Review Report (PRR). Running the higher suction capacity fans will be used to determine if all fans should be replaced, or if warranted, the number and location of additional combined water and soil vapor collection sumps.

To the extent practicable, products identified as containing, or having the potential to contain, VOCs will be removed from the basement and no products identified as containing, or having the potential to contain, VOCs will be used for a period of 6-months.

Following the 6-month acclimation period, one (1) additional round of co-located sub-slab and indoor air samples will be collected. Sub-slab and indoor air samples will be collected at the same four (4) indoor locations and one (1) outdoor location as in February 2025 (Area C-01, Area C-02, Area C-03, Area C-04, and Area C-OA) to see if removal of the occupational sources and increased sub-slab communication measures have had an impact on mitigation measures. Samples will be collected during the 2025-2026 heating season (November 15, 2025, to March 31, 2026). One duplicate sample will be collected.

Sub-slab and indoor air samples will be collected in general accordance with the NYSDOH guidance document. One (1) 8-hour sample will be collected at each sub-slab and indoor location in a laboratory certified clean Summa® canister and submitted to Pace Analytical Laboratories of Buffalo, New York for VOC analysis (including naphthalene) using EPA Method TO-15/TO-15-SIM. Matrix A and C compounds as listed within the NYSDOH guidance document will utilize a reporting limit of 0.20 µg/m³. Matrix B, D, E, and F compounds will utilize a reporting limit of 1.0 µg/m³. Sub-slab samples will be collected from the permanent SSD sample port installed adjacent to each of the indoor air sample locations. One to three volumes (probe and tubing) will be purged prior to collecting the samples.

⁵ Inventum Engineering, P.C. February 2025. Buffalo Color Corporation Site Area C Site Management Periodic Review Report. 229 Elk St. NYSDC Site Number C915231.



Schedule and Reporting

The proposed corrective actions will be implemented in accordance with the following schedule:

- Installation of new fans within 45 days of NYSDEC approval;
- Removal of all VOC containing materials/products within 60 days of NYSDEC approval;
- Collection of proposed sub-slab, indoor air, and outdoor air samples 6-months following removal of all VOC containing materials and prior to the end of the 2025-2026 heating season (i.e. no later than March 31, 2026); and
- Submittal of a Corrective Action Data Report within 30 days of receipt of final validated laboratory analytical data packages.

The Corrective Action Data Report will include, at minimum:

- Summary of weekly sub-slab vacuum and manometer vacuum readings;
- Summary of sub-slab, indoor, and outdoor sampling data and comparison to NYSDOH guidance document matrices;
- An updated product inventory and, if available, copies of all safety data sheets;
- Final laboratory data packages included EQUIS submittals and a Data Usability Summary Report (DUSR); and
- An evaluation, if necessary, of additional corrective actions.

As always, please do not hesitate to contact me directly at 571.217.3627 with any questions or comments.

Respectfully submitted,

Todd Waldrop



Project Director

Ecc: Andrea Caprio - NYSDEC
 Eugene Melnyk - NYSDEC
 Teresa Mucha - NYSDEC
 Jacquelyn Nealon - NYSDOH
 Charlotte Bethoney - NYSDOH
 John Yensan – OSC, Inc.
 Jon Williams – OSC, Inc.
 John Black – Inventum Engineering



Tables





Table 1
Buffalo Color Corporation Area C
BCP Site #C915231
February 2025 Sampling
Product Inventory Log

Location	Product Description	SDS Available (a)	VOC Constituents (b,c)	Quantity	Condition	Ambient PID Reading
Area C-04	Beer and liquor overstock room	No	Ethanol, methanol, acetaldehyde, ethyl acetate, fusel alcohols.	A large quantity	UO	0.0
Area C-04	BEHR Premium Plus Paint and Primer. A small paint station has been set up where they are painting decorations.	Yes	Low-VOC or VOC-Exempt	1	U	0.0
Area C-04	Rust-Oleum Paint and Primer	Yes	Propane, n-butane, n-butyl acetate, trimethylbenzene, ethylbenzene, xylenes.	8	U	0.0
Area C-04	Scotchgard Fabric Water Shield	Yes	Propane, isobutane, n-butane	5	UO	0.0
Area C-01	Clean glasses/dishes are stored within 5 feet of the test port	No	Possible trace levels of limonene, pinene, linalool, ethanol, isopropanol, butoxyethanol, citral, hexanal, benzyl acetate.	A large quantity	Clean	0.0
Area C-01	Totes filled with clean chair covers and cover spandex within 5 feet of the test port	No	Possible traces of perchloroethylene, nonane, decane, toluene, xylene	4	Clean	0.0
Area C-02	Various 5-gallon buckets of paint used for building interior	No	May possibly contain propylene glycol, ethylene glycol, texanol, butyl acetate, formaldehyde	18	U	0.0
Area C-02	BEHR Concrete and Garage Epoxy Coating	Yes	Xylene, toluene, ethylbenzene, glycol ethers, acetone, methyl ethyl ketone	1	U	0.0
Area C-02	Scuff Defense Stain Blocking Paint and Primer	Yes	Xylene, toluene, ethylbenzene, glycol ethers, acetone, methyl ethyl ketone	1	U	0.0
Area C-02	C-36E Floor Primer	Yes	Low-VOC or VOC-Exempt	1	U	0.0
Area C-02	Sherwin-Williams Paint Thinner	Yes	Toluene, xylene, acetone, ethylbenzene, methyl ethyl ketone, mineral spirits, hexane, naphthalene, cyclohexane, benzene	1	U	0.0
Area C-02	Sherwin-Williams Paint Thinner	Yes	Toluene, xylene, acetone, ethylbenzene, methyl ethyl ketone, mineral spirits, hexane, naphtha, cyclohexane, benzene	1	U	0.0
Area C-02	Latex paint	No	Possibly contains ethylene glycol, propylene glycol, texanol, ammonia, acetone, butyl acetate, methyl isobutyl ketone, toluene, xylene, formaldehyde (trace), diethylene glycol monobutyl ether	15	U	0.0
Area C-02	Wet Look Sealer for Interior and Exterior	Yes	Low-VOC or VOC-Exempt	2	U	0.0
Area C-02	XYPEX Concrete Water Proofing "Patch N Plug"	Yes	Low-VOC or VOC-Exempt	1	U	0.0
Area C-02	Euroweld 2.0 (7732-18-5)	No	Low-VOC or VOC-Exempt	1	U	0.0
Area C-02	CLR	Yes	Low-VOC or VOC-Exempt	2	U	0.0
Area C-02	Simple Green	Yes	Low-VOC or VOC-Exempt	1	U	0.0
Area C-02	Outdoor concrete cleaner	No	Possibly contains ethanol, isopropyl alcohol, ethylene glycol, 2-butoxyethanol, sodium hypochlorite, limonene, glycol ethers, d-limonene, methanol	1	U	0.0
Area C-02	Vinegar	No	Low-VOC or VOC-Exempt	3	UO	0.0
Area C-02	Spray paint	No	Possibly contains acetone, toluene, xylene, ethylbenzene, methyl ethyl ketone, butyl acetate, isopropyl alcohol, propane, butane, ethanol, methanol, mineral spirits, naphthalene	~10	UO	0.0
Area C-02	Protectosil Chem-trete B5M400	Yes	Isobutyltrimethoxysilane, methanol, ethanol	2	U	0.0
Area C-02	Silicon Caulk	No	Low-VOC or VOC-Exempt	12	Majority UO	0.0
Area C-02	Clean Sweep	Yes	Low-VOC or VOC-Exempt	2	U	0.0
Area C-02	Quickrete	Yes	Low-VOC or VOC-Exempt	3	2 UO	0.0
Area C-02	Dozens of dry cleaned sheets, spandex, and table dressings	No	Possible traces of perchloroethylene, nonane, decane, toluene, xylene	A large quantity	Clean	0.0
Area C-03	Tables, glassware, and decorations	No	-	A large quantity	Clean	0.0

Notes:
"U" = Used; "UO" = Unopened; "PID" = Photoionization Detector
a/Safety Data Sheets (SDS), if available, accessed from manufacturer's website.
b/Products that are known to have little to no VOCs and do not ecplictly list present VOCs are noted as" Low-VOC of VOC-Exempt"
c/ Constituent data from Safety Data Sheets (SDS) and/or general google search.



Table 2
Buffalo Color Corporation Site Area C
BCP Site #C915231
February 2025 Basement Indoor Air Sub-Slab Sampling - All Results

ANALYTE	CAS	NYSDOH Indoor Air Vapor Concentration Criteria (a)						NYSDOH Sub-slab Vapor Concentration Criteria (a)						SAMPLE ID:	AA-TESTPORT2-02252025	SS-TESTPORT2-02252025	AA-TESTPORT99-02252025	SS-TESTPORT99-02252025	AA-TESTPORT3-02252025	SS-TESTPORT3-02252025	AA-TESTPORT4-02252025	SS-TESTPORT4-02252025	AA-TESTPORT5-02252025	SS-TESTPORT5-02252025	AA-OUTDOOR-02252025											
														LAB ID:	L2510462-10	L2510462-10	L2510462-10	L2510462-10	L2510462-10	L2510462-10	L2510462-10	L2510462-10	L2510462-10	L2510462-10												
		COLLECTION DATE:	2/25/2025						2/25/2025						2/25/2025						2/25/2025						2/25/2025									
		SAMPLE LOCATION:	Area C-04						Area C-04 (a)						Area C-03						Area C-02						Area C-01						NE Corner			
		SAMPLE INTERVAL: UNITS	INDOOR AIR		SOIL VAPOR		INDOOR AIR		SOIL VAPOR		INDOOR AIR		SOIL VAPOR		INDOOR AIR		SOIL VAPOR		INDOOR AIR		SOIL VAPOR		INDOOR AIR		SOIL VAPOR		OUTDOOR AIR									
VOLATILE ORGANICS IN AIR																																				
1,1,1-Trichloroethane	71-55-6		3						100					µg/m³	0.431		<0.335	U	0.409		<0.335	U	0.496		<0.335	U	0.535		<0.335	U	<0.032	U				
1,1,2,2-Tetrachloroethane	79-34-5													µg/m³	<0.357	U	<0.357	U	<0.357	U	<0.357	U	<0.357	U	<0.357	U	<0.357	U	<0.357	U	<0.357	U				
1,1,2-Trichloroethane	79-00-5													µg/m³	<0.318	U	<0.318	U	<0.318	U	<0.318	U	<0.318	U	<0.318	U	<0.318	U	<0.318	U	<0.318	U				
1,1-Dichloroethane	75-34-3													µg/m³	<0.23	U	<0.23	U	<0.23	U	<0.23	U	<0.23	U	<0.23	U	<0.23	U	<0.23	U	<0.23	U				
1,1-Dichloroethene	75-35-4	0.2						6						µg/m³	<0.031	U	<0.225	U	<0.031	U	<0.225	U	<0.031	U	<0.225	U	<0.031	U	<0.225	U	<0.031	U				
1,2,4-Trichlorobenzene	120-82-1													µg/m³	<0.108	U	<0.108	U	<0.108	U	<0.108	U	<0.108	U	<0.108	U	<0.108	U	<0.108	U	-					
1,2,4-Trimethylbenzene	95-63-6				2						60			µg/m³	3.14		<0.284	U	<0.284	U	<0.284	U	<0.284	U	<0.284	U	1.23		<0.284	U	<0.284	U	2.27			
1,2-Dibromoethane	106-93-4													µg/m³	<0.418	U	<0.418	U	<0.418	U	<0.418	U	<0.418	U	<0.418	U	<0.418	U	<0.418	U	<0.418	U				
1,2-Dichlorobenzene	95-50-1													µg/m³	<0.372	U	<0.372	U	<0.372	U	<0.372	U	<0.372	U	<0.372	U	<0.372	U	<0.372	U	<0.372	U				
1,2-Dichloroethane	107-06-2													µg/m³	<0.319	U	<0.319	U	<0.319	U	<0.319	U	<0.319	U	<0.319	U	<0.319	U	<0.319	U	<0.319	U				
1,2-Dichloropropane	78-87-5													µg/m³	<0.292	U	<0.292	U	<0.292	U	<0.292	U	<0.292	U	<0.292	U	<0.292	U	<0.292	U	<0.292	U				
1,3,5-Trimethylbenzene	108-67-8				2						60			µg/m³	1.23		<0.295	U	<0.295	U	<0.295	U	<0.295	U	<0.295	U	<0.295	U	<0.295	U	<0.295	U				
1,3-Butadiene	106-99-0													µg/m³	0.535		0.513		0.473		0.575		0.597		0.507		0.569		<0.137	U	<0.137	U				
1,3-Dichlorobenzene	541-73-1													µg/m³	<0.467	U	<0.467	U	<0.467	U	<0.467	U	<0.467	U	<0.467	U	<0.467	U	<0.467	U	<0.467	U				
1,4-Dichlorobenzene	106-46-7													µg/m³	<0.497	U	<0.497	U	<0.497	U	<0.497	U	<0.497	U	<0.497	U	<0.497	U	<0.497	U	<0.497	U				
1,4-Dioxane	123-91-1													µg/m³	<0.194	U	<0.194	U	<0.194	U	<0.194	U	<0.194	U	<0.194	U	<0.194	U	<0.194	U	<0.194	U				
2,2,4-Trimethylpentane	540-84-1				2						60			µg/m³	<0.323	U	<0.323	U	<0.323	U	<0.323	U	<0.323	U	<0.323	U	<0.323	U	<0.323	U	<0.323	U				
2-Butanone	78-93-3													µg/m³	9.79		11.8		5.57		13.7		6.34		49.3		7.02		9.32		4.84		7.67		<0.292	U
2-Hexanone	591-78-6													µg/m³	<0.374	U	4.14		<0.374	U	5.25		1.39		11.2		<0.374	U	8.52		<0.374	U	5.08		<0.374	U
3-Chloropropene	107-05-1													µg/m³	<0.269	U	<0.269	U	<0.269	U	<0.269	U	<0.269	U	<0.269	U	<0.269	U	<0.269	U	<0.269	U				
4-Ethyltoluene	622-96-8													µg/m³	1.09		<0.272	U	<0.272	U	<0.272	U	<0.272	U	<0.272	U	<0.272	U	<0.272	U	<0.272	U				
4-Methyl-2-pentanone	108-10-1													µg/m³	<0.779	U	<0.779	U	<0.779	U	<0.779	U	<0.779	U	3.01		<0.779	U	<0.779	U	<0.779	U	<0.779	U		
Acetone	67-64-1													µg/m³	52.7		58.4		32.1		57		33.3		132		39		20.5		26.4		5.8		7.22	
Benzene	71-43-2				2						60			µg/m³	2.27		2.08		2.07		1.95		2.32		2.21		2.11		2.09		2.61		4.34		<0.205	U
Benzyl chloride	100-44-7													µg/m³	<0.486	U	<0.486	U	<0.486	U	<0.486	U	<0.486	U	<0.486	U	<0.486	U	<0.486	U	<0.486	U	<0.486	U		
Bromodichloromethane	75-27-4													µg/m³	<0.462	U	<0.462	U	<0.462	U	<0.462	U	<0.462	U	2.98		<0.462	U	<0.462	U	<0.462	U	<0.462	U		
Bromoform	75-25-2													µg/m³	<0.616	U	<0.616	U	<0.616	U	<0.616	U	<0.616	U	<0.616	U	<0.616	U	<0.616	U	<0.616	U	<0.616	U		
Bromomethane	74-83-9													µg/m³	<0.212	U	<0.212	U	<0.212	U	<0.212	U	<0.212	U	<0.212	U	<0.212	U	<0.212	U	<0.212	U	<0.212	U		
Carbon disulfide	75-15-0													µg/m³	<0.145	U	<0.145	U	<0.145	U	<0.145	U	<0.145	U	0.807		<0.145	U	<0.145	U	<0.145	U	<0.145	U		
Carbon tetrachloride	56-23-5	0.2						6						µg/m³	0.434		<0.432	U	0.415		<0.432	U	0.478		<0.432	U	0.522		<0.432	U	0.428		<0.432	U	0.453	
Chlorobenzene	108-90-7													µg/m³	<0.238	U	<0.238	U	<0.238	U	<0.238	U	<0.238	U	<0.238	U	<0.238	U	<0.238	U	<0.238	U	<0.238	U		
Chloroethane	75-00-3													µg/m³	<0.171	U	<0.171	U	<0.171	U	<0.171	U	<0.171	U	<0.171	U	<0.171	U	<0.171	U	<0.171	U	<0.171	U		
Chloroform	67-66-3													µg/m³	<0.27	U	<0.27	U	<0.27	U	<0.27	U	<0.27	U	6.54		<0.27	U	<0.27	U	<0.27	U	<0.27	U	<0.27	U
Chloromethane	74-87-3													µg/m³	0.776	J	0.876	J	0.861	J	0.863	J	0.82	J	<0.171	U	1.11		<0.171	U	0.923	J	<0.171	U	1.09	J



Table 2
Buffalo Color Corporation Site Area C
BCP Site #C915231
February 2025 Basement Indoor Air Sub-Slab Sampling - All Results

ANALYTE	CAS	NYSDOH Indoor Air Vapor Concentration Criteria (a)						NYSDOH Sub-slab Vapor Concentration Criteria (a)						SAMPLE ID:	AA-TESTPORT2-02252025	SS-TESTPORT2-02252025	AA-TESTPORT99-02252025	SS-TESTPORT99-02252025	AA-TESTPORT3-02252025	SS-TESTPORT3-02252025	AA-TESTPORT4-02252025	SS-TESTPORT4-02252025	AA-TESTPORT5-02252025	SS-TESTPORT5-02252025	AA-OUTDOOR-02252025											
														LAB ID:	L2510462-10	L2510462-10	L2510462-10	L2510462-10	L2510462-10	L2510462-10	L2510462-10	L2510462-10	L2510462-10	L2510462-10												
		COLLECTION DATE:	2/25/2025			2/25/2025			2/25/2025			2/25/2025			2/25/2025			2/25/2025			2/25/2025															
		SAMPLE LOCATION:	Area C-04			Area C-04 (a)			Area C-03			Area C-02			Area C-01			NE Corner																		
		SAMPLE INTERVAL:																																		
UNITS	INDOOR AIR			SOIL VAPOR			INDOOR AIR			SOIL VAPOR			INDOOR AIR			SOIL VAPOR			INDOOR AIR			SOIL VAPOR			OUTDOOR AIR											
VOLATILE ORGANICS IN AIR																																				
cis-1,2-Dichloroethene	156-59-2	0.2						6						µg/m³	<0.04	U	<0.236	U	<0.04	U	<0.236	U	<0.04	U	<0.236	U	<0.04	U	<0.236	U	<0.04	U				
cis-1,3-Dichloropropene	10061-01-5													µg/m³	<0.306	U	<0.306	U	<0.306	U	<0.306	U	<0.306	U	<0.306	U	<0.306	U	<0.306	U	<0.306	U				
Cyclohexane	110-82-7				2							60		µg/m³	1.37		1.97		1.7		1.95		1.41		<0.251	U	1.02		<0.251	U	1.03		1.43		<0.251	U
Dibromochloromethane	124-48-1													µg/m³	<0.482	U	<0.482	U	<0.482	U	<0.482	U	<0.482	U	<0.482	U	<0.482	U	<0.482	U	<0.482	U	<0.482	U		
Dichlorodifluoromethane	75-71-8													µg/m³	2.33		2.37		2.43		2.5		2.38		2.28		2.65		2.37		2.33		2.34		2.34	
Ethanol	64-17-5													µg/m³	626	J	803	J	654	J	854	J	603	J	49	J	447	J	36.7	J	505	J	22.6	J	<3.28	U
Ethyl Acetate	141-78-6													µg/m³	3.71		<1.07	U	3.42		<1.07	U	2.99		7.68		3.15		<1.07	U	5.19		<1.07	U	<1.07	U
Ethylbenzene	100-41-4				2							60		µg/m³	8.82		4.65		8.86		4.43		9.99		<0.25	U	7.69		1.12		6.52		<0.25	U	<0.25	U
Freon-113	76-13-1													µg/m³	<0.388	U	<0.388	U	<0.388	U	<0.388	U	<0.388	U	<0.388	U	<0.388	U	<0.388	U	<0.388	U	<0.388	U	<0.388	U
Freon-114	76-14-2													µg/m³	<0.352	U	<0.352	U	<0.352	U	<0.352	U	<0.352	U	<0.352	U	<0.352	U	<0.352	U	<0.352	U	<0.352	U	<0.552	U
Heptane	142-82-5					6						200		µg/m³	1.69		2.54		1.72		2.61		1.71		1.81		1.4	J	<0.339	U	1.54		<0.339	U	<0.339	U
Hexachlorobutadiene	87-68-3													µg/m³	<0.647	U	<0.647	U	<0.647	U	<0.647	U	<0.647	U	<0.647	U	<0.647	U	<0.647	U	<0.647	U	<0.647	U	<0.647	U
Isopropanol	67-63-0													µg/m³	13.2	J	8.41	J	18.4	J	4.3	J	3.91	J	45.2	J	4.3	J	5.26	J	4.67	J	2.46	J	<0.669	U
Methyl tert butyl ether	1634-04-4													µg/m³	<0.162	U	<0.162	U	<0.162	U	<0.162	U	<0.162	U	<0.162	U	<0.162	U	<0.162	U	<0.162	U	<0.162	U	<0.162	U
Methylene chloride	75-09-2		3									100		µg/m³	9.76		10.5		9.45		10.7		11		3.24		17.6		<0.434	U	7.47		5.84		<0.434	U
n-Hexane	110-54-3						6						200	µg/m³	1.88		3.28		7.05		2.66		1.88		17.8		1.96		1.93		2.03		1.41		0.983	
Naphthalene	91-20-3											60		µg/m³	1.03		0.603		0.535		0.393		1.34		0.461		<0.262	U	1.15		0.467		0.54		<0.262	U
o-Xylene	95-47-6				2							60		µg/m³	6.17		2.36		5.73		2.19		6.56		0.916		4.78		0.925		4.18		<0.27	U	<0.27	U
p/m-Xylene	179601-23-1						6						200	µg/m³	29.6		11.4		28.8		10.8		32.9		3.05		27.4		3.66		20.7		1.82		<0.543	U
Styrene	100-42-5													µg/m³	<0.254	U	<0.254	U	<0.254	U	<0.254	U	<0.254	U	<0.254	U	<0.254	U	<0.254	U	<0.254	U	<0.254	U	<0.254	U
Tertiary butyl Alcohol	75-65-0													µg/m³	1.93		2		1.65		2.11		1.6		4.67		<0.4	U	<0.4	U	<0.4	U	<0.4	U	<0.4	U
Tetrachloroethene	127-18-4		3									100		µg/m³	123		84.1		125		82.1		133		67		123		88.2		104		71.9		0.773	
Tetrahydrofuran	109-99-9													µg/m³	10		7.85		9.08		14.2		8.88		2.65		11	J	2.73		7.23		<0.345	U	2.45	
Toluene	108-88-3						10						300	µg/m³	1.41		1.82		1.55		3		1.2		1.41		1.03		2.34		1.66		1.65		0.757	
trans-1,2-Dichloroethene	156-60-5													µg/m³	<0.299	U	<0.299	U	<0.299	U	<0.299	U	<0.299	U	<0.299	U	<0.299	U	<0.299	U	<0.299	U	<0.299	U	<0.299	U
trans-1,3-Dichloropropene	10061-02-6													µg/m³	<0.355	U	<0.355	U	<0.355	U	<0.355	U	<0.355	U	<0.355	U	<0.355	U	<0.355	U	<0.355	U	<0.355	U	<0.355	U
Trichloroethene	79-01-6	0.2						6						µg/m³	<0.032	U	<0.295	U	<0.032	U	<0.295	U	<0.032	U	<0.295	U	0.129		<0.295	U	<0.032	U	<0.295	U	<0.032	U
Trichlorofluoromethane	75-69-4													µg/m³	1.26	U	1.23		1.27		1.29		1.22		<0.442	U	1.75		1.16		1.17		1.14		<0.442	U
Vinyl bromide	593-60-2				0.2								6	µg/m³	<0.316	U	<0.316	U	<0.316	U	<0.316	U	<0.316	U	<0.316	U	<0.316	U	<0.316	U	<0.316	U	<0.316	U	<0.316	U
Vinyl chloride	75-01-4												6	µg/m³	<0.023	U	<0.149	U	<0.023	U	<0.149	U	<0.023	U	<0.149	U	<0.023	U	<0.149	U	<0.023	U	<0.149	U	<0.023	U

* Comparison is not performed on parameters with non-numeric criteria.

NY-IAC-A: New York DOH Matrix A Indoor Air Concentrations Criteria per Guidance for Evaluating Soil Vapor Intrusion, October 2006, and updated May 2017.
NY-IAC-B: New York DOH Matrix B Indoor Air Concentrations Criteria per Guidance for Evaluating Soil Vapor Intrusion, October 2006, and updated May 2017.
NY-IAC-C: New York DOH Matrix C Indoor Air Concentrations Criteria per Guidance for Evaluating Soil Vapor Intrusion, October 2006, and updated May 2017.
NY-SSC-A: New York DOH Matrix A Sub-slab Vapor Concentrations Criteria per Guidance for Evaluating Soil Vapor Intrusion, October 2006, and updated May 2017.
NY-SSC-B: New York DOH Matrix B Sub-slab Vapor Concentrations Criteria per Guidance for Evaluating Soil Vapor Intrusion, October 2006, and updated May 2017.
NY-SSC-C: New York DOH Matrix C Sub-slab Vapor Concentrations Criteria per Guidance for Evaluating Soil Vapor Intrusion, October 2006, and updated May 2017.
a/ Duplicate IA/SS sample collected at location shown.

Bolded results indicate reportable detection; Yellow highlighted results indicate exceedance of Sub-Slab Criteria; Green highlighted results indicate exceedance of Indoor Air Criteria.

"-" Comparative criteria not available; "U" - analyte not detected above reporting limit shown

ug/m3 = micrograms per cubic meter



Table 3
Buffalo Color Corporation Site Area C
BCP Site #C915231
February 2025 Basement Indoor Sub-Slab Sampling
NYSDOH Matrix Action Summary

Matrix A Analytes	Recommended Matrix Action at Sample Location			
	No Further Action	Monitor	Identify Source(s) and Resample or Mitigate	Mitigate
Trichloroethene (TCE)	Area C-01 Area C-02 Area C-03 Area C-04	N/A	N/A	N/A
cis-1,2-Dichloroethene (DCE)	Area C-01 Area C-02 Area C-03 Area C-04	N/A	N/A	N/A
1,1-Dichloroethene (1,1-DCE)	Area C-01 Area C-02 Area C-03 Area C-04	N/A	N/A	N/A
Carbon Tetrachloride	Area C-01 Area C-02 Area C-03 Area C-04	N/A	N/A	N/A

Matrix B Analytes	Recommended Matrix Action at Sample Location			
	No Further Action	Monitor	Identify Source(s) and Resample or Mitigate	Mitigate
Tetrachloroethene (PCE)	N/A	N/A	Area C-01 Area C-02 Area C-03 Area C-04	N/A
1,1,1-Trichloroethane (1,1,1-TCA)	Area C-01 Area C-02 Area C-03 Area C-04	N/A	N/A	N/A
Methylene Chloride	Area C-01 Area C-04	N/A	Area C-02 Area C-03	N/A

Matrix C Analytes	Recommended Matrix Action at Sample Location			
	No Further Action	Monitor	Identify Source(s) and Resample or Mitigate	Mitigate
Vinyl Chloride	Area C-01 Area C-02 Area C-03 Area C-04	N/A	N/A	N/A



Table 3
Buffalo Color Corporation Site Area C
BCP Site #C915231
February 2025 Basement Indoor Sub-Slab Sampling
NYSDOH Matrix Action Summary

Matrix D Analytes	Recommended Matrix Action at Sample Location			
	No Further Action	Monitor	Identify Source(s) and Resample or Mitigate	Mitigate
Benzene	Area C-01 Area C-02 Area C-03 Area C-04	N/A	N/A	N/A
Ethylbenzene	Area C-01 Area C-02 Area C-03 Area C-04	N/A	N/A	N/A
Naphthalene	Area C-01 Area C-02 Area C-03 Area C-04	N/A	N/A	N/A
Cyclohexane	Area C-01 Area C-02 Area C-03 Area C-04	N/A	N/A	N/A
Isooctane (2,2,4-trimethylpentane)	Area C-01 Area C-02 Area C-03 Area C-04	N/A	N/A	N/A
1,2,4-trimethylbenzene	Area C-01 Area C-02 Area C-03 Area C-04	N/A	N/A	N/A
1,3,5-trimethylbenzene	Area C-01 Area C-02 Area C-03 Area C-04	N/A	N/A	N/A
o-xylene	Area C-01 Area C-02 Area C-03 Area C-04	N/A	N/A	N/A

Matrix E Analytes	Recommended Matrix Action at Sample Location			
	No Further Action	Monitor	Identify Source(s) and Resample or Mitigate	Mitigate
m-Xylene	N/A	N/A	Area C-01 Area C-02 Area C-03 Area C-04	N/A
p-Xylene	N/A	N/A	Area C-01 Area C-02 Area C-03 Area C-04	N/A
Heptane	Area C-01 Area C-02 Area C-03 Area C-04	N/A	N/A	N/A
Hexane	Area C-01 Area C-02 Area C-03 Area C-04	N/A	N/A	N/A

Matrix F Analytes	Recommended Matrix Action at Sample Location			
	No Further Action	Monitor	Identify Source(s) and Resample or Mitigate	Mitigate
Toluene	Area C-01 Area C-02 Area C-03 Area C-04	N/A	N/A	N/A

"N/A" = No samples meet criteria for noted recommended matrix action



Table 4
Buffalo Color Corporation Area C
BCP Site #C915231
February 2025 Sampling
NYS Fuel Oil study - EPA BASE Study

ANALYTE (a)	CAS	NYSDOH Fuel Oil Study Upper Fence (µg/m3) (b)	EPA BASE Database 90th Percentile (µg/m3) (c)	SAMPLE ID:	AA-TESTPORT2-02252025		AA-TESTPORT3-02252025		AA-TESTPORT4-02252025		AA-TESTPORT5-02252026		AA-TESTPORT99-02252025	
				LAB ID:	L2510462-10		L2510462-10		L2510462-10		L2510462-10		L2510462-10	
				COLLECTION DATE:	2/25/2025		2/25/2025		2/25/2025		2/25/2025		2/25/2025	
				SAMPLE LOCATION:	Area C-04		Area C-03		Area C-02		Area C-01		Area C-04	
				SAMPLE INTERVAL:	INDOOR AIR		INDOOR AIR		INDOOR AIR		INDOOR AIR		INDOOR AIR	
				UNITS										
VOLATILE ORGANICS IN AIR														
1,1,2,2-Tetrachloroethane	79-34-5	0.38	-	µg/m ³	<0.357	U	<0.357	U	<0.357	U	<0.357	U	<0.357	U
1,1,2-Trichloroethane	79-00-5	0.38	<1.5	µg/m ³	<0.318	U	<0.318	U	<0.318	U	<0.318	U	<0.318	U
1,1-Dichloroethane	75-34-3	0.38	<0.7	µg/m ³	<0.23	U	<0.23	U	<0.23	U	<0.23	U	<0.23	U
1,2,4-Trichlorobenzene	120-82-1	0.47	<6.8	µg/m ³	<0.108	U	<0.108	U	<0.108	U	<0.108	U	<0.108	U
1,2,4-Trimethylbenzene	95-63-6	9.8	9.5	µg/m ³	3.14		<0.284	U	<0.284	U	<0.284	U	<0.284	U
1,2-Dibromoethane	106-93-4	0.38	<1.5	µg/m ³	<0.418	U	<0.418	U	<0.418	U	<0.418	U	<0.418	U
1,2-Dichlorobenzene	95-50-1	0.48	<1.2	µg/m ³	<0.372	U	<0.372	U	<0.372	U	<0.372	U	<0.372	U
1,2-Dichloroethane	107-06-2	0.37	<0.9	µg/m ³	<0.319	U	<0.319	U	<0.319	U	<0.319	U	<0.319	U
1,2-Dichloropropane	78-87-5	0.39	<1.6	µg/m ³	<0.292	U	<0.292	U	<0.292	U	<0.292	U	<0.292	U
1,3,5-Trimethylbenzene	108-67-8	3.9	3.7	µg/m ³	1.23		<0.295	U	<0.295	U	<0.295	U	<0.295	U
1,3-Butadiene	106-99-0	-	<3.0	µg/m ³	0.535		0.597		0.569		0.639		0.473	
1,3-Dichlorobenzene	541-73-1	0.46	<2.4	µg/m ³	<0.467	U	<0.467	U	<0.467	U	<0.467	U	<0.467	U
1,4-Dichlorobenzene	106-46-7	1.2	5.5	µg/m ³	<0.497	U	<0.497	U	<0.497	U	<0.497	U	<0.497	U
1,4-Dioxane	123-91-1	-	-	µg/m ³	<0.194	U	<0.194	U	<0.194	U	<0.194	U	<0.194	U
2,2,4-Trimethylpentane	540-84-1	-	-	µg/m ³	<0.323	U	<0.323	U	<0.323	U	<0.323	U	<0.323	U
2-Butanone	78-93-3	16	12	µg/m ³	9.79		6.34		7.02		4.84		5.57	
2-Hexanone	591-78-6	-	-	µg/m ³	<0.374	U	1.39		<0.374	U	<0.374	U	<0.374	U
3-Chloropropene	107-05-1	-	-	µg/m ³	<0.269	U	<0.269	U	<0.269	U	<0.269	U	<0.269	U
4-Ethyltoluene	622-96-8	-	3.6	µg/m ³	1.09		<0.272	U	<0.272	U	<0.272	U	<0.272	U
4-Methyl-2-pentanone	108-10-1	1.9	6	µg/m ³	<0.779	U	<0.779	U	<0.779	U	<0.779	U	<0.779	U
Acetone	67-64-1	115	98.9	µg/m ³	52.7		33.3		39		26.4		32.1	
Benzene	71-43-2	13	9.4	µg/m ³	2.27		2.32		2.11		2.61		2.07	
Benzyl chloride	100-44-7	-	<6.8	µg/m ³	<0.486	U	<0.486	U	<0.486	U	<0.486	U	<0.486	U
Bromodichloromethane	75-27-4	-	-	µg/m ³	<0.462	U	<0.462	U	<0.462	U	<0.462	U	<0.462	U
Bromoform	75-25-2	-	-	µg/m ³	<0.616	U	<0.616	U	<0.616	U	<0.616	U	<0.616	U
Bromomethane	74-83-9	0.48	<1.7	µg/m ³	<0.212	U	<0.212	U	<0.212	U	<0.212	U	<0.212	U
Carbon disulfide	75-15-0	-	4.2	µg/m ³	<0.145	U	<0.145	U	<0.145	U	<0.145	U	<0.145	U
Chlorobenzene	108-90-7	0.41	<0.9	µg/m ³	<0.238	U	<0.238	U	<0.238	U	<0.238	U	<0.238	U
Chloroethane	75-00-3	0.39	<1.1	µg/m ³	<0.171	U	<0.171	U	<0.171	U	<0.171	U	<0.171	U
Chloroform	67-66-3	1.2	1.1	µg/m ³	<0.27	U	<0.27	U	<0.27	U	<0.27	U	<0.27	U
Chloromethane	74-87-3	4.2	3.7	µg/m ³	0.776	J	0.82	J	1.11		0.923	J	0.861	J
cis-1,3-Dichloropropene	10061-01-5	0.38	<2.3	µg/m ³	<0.306	U	<0.306	U	<0.306	U	<0.306	U	<0.306	U
Cyclohexane	110-82-7	6.3	-	µg/m ³	1.37		1.41		1.02		1.03		1.7	
Dibromochloromethane	124-48-1	-	-	µg/m ³	<0.482	U	<0.482	U	<0.482	U	<0.482	U	<0.482	U
Dichlorodifluoromethane	75-71-8	10	16.5	µg/m ³	2.33		2.38		2.65		2.33		2.43	
Ethanol	64-17-5	1300	210	µg/m ³	626	J	603	J	447		505	J	654	J
Ethyl Acetate	141-78-6	-	5.4	µg/m ³	3.71		2.99		3.15		5.19		3.42	
Ethylbenzene	100-41-4	6.4	5.7	µg/m ³	8.82		9.99		7.69		6.52		8.86	
Freon-113	76-13-1	2.5	-	µg/m ³	<0.388	U	<0.388	U	<0.388	U	<0.388	U	<0.388	U
Freon-114	76-14-2	0.42	-	µg/m ³	<0.352	U	<0.352	U	<0.352	U	<0.352	U	<0.352	U
Heptane	142-82-5	18	-	µg/m ³	1.69		1.71		1.4	J	1.54		1.72	
Hexachlorobutadiene	87-68-3	0.49	<6.8	µg/m ³	<0.647	U	<0.647	U	<0.647	U	<0.647	U	<0.647	U
Isopropanol	67-63-0	-	-	µg/m ³	13.2	J	3.91	J	4.3	J	4.67	J	18.4	J
Methyl tert butyl ether	1634-04-4	14	11.5	µg/m ³	<0.162	U	<0.162	U	<0.162	U	<0.162	U	<0.162	U
Methylene chloride	75-09-2	16	10	µg/m ³	9.76		11		17.6		7.47		9.45	
n-Hexane	110-54-3	14	10.2	µg/m ³	1.88		1.88		1.96		2.03		7.05	
o-Xylene	95-47-6	7.1	7.9	µg/m ³	6.17		6.56		4.78		4.18		5.73	
p/m-Xylene	179601-23-1	11	22.2	µg/m ³	29.6		32.9		27.4		20.7		28.8	
Styrene	100-42-5	1.4	1.9	µg/m ³	<0.254	U	<0.254	U	<0.254	U	<0.254	U	<0.254	U
Tertiary butyl Alcohol	75-65-0	-	-	µg/m ³	1.93		1.6		<0.4	U	<0.4	U	1.65	
Tetrahydrofuran	109-99-9	0.78	-	µg/m ³	10		8.88		11	J	7.23		9.08	
Toluene	108-88-3	57	43	µg/m ³	1.41		1.2		1.03		1.66		1.55	
trans-1,2-Dichloroethene	156-60-5	-	-	µg/m ³	<0.299	U	<0.299	U	<0.299	U	<0.299	U	<0.299	U
trans-1,3-Dichloropropene	10061-02-6	-	<1.3	µg/m ³	<0.355	U	<0.355	U	<0.355	U	<0.355	U	<0.355	U
Trichlorofluoromethane	75-69-4	12	18.1	µg/m ³	1.26		1.22		1.75		1.17		1.27	
Vinyl bromide	593-60-2	-	-	µg/m ³	<0.316	U	<0.316	U	<0.316	U	<0.316	U	<0.316	U
VOLATILE ORGANICS IN AIR BY SIM														
1,1,1-Trichloroethane	71-55-6	2.5	20.6	µg/m ³	0.431		0.496		0.535		0.311		0.409	
1,1-Dichloroethene	75-35-4	0.4	<1.4	µg/m ³	<0.031	U	<0.031	U	<0.031	U	<0.031	U	<0.031	U
1,2,4-Trichlorobenzene	120-82-1	0.47	<6.8	µg/m ³	<0.108	U	<0.108	U	-		<0.108	U	<0.108	U
Carbon tetrachloride	56-23-5	1.3	<1.3	µg/m ³	0.434		0.478		0.522		0.428		0.415	
cis-1,2-Dichloroethene	156-59-2	0.41	<1.9	µg/m ³	<0.04	U	<0.04	U	0.083		<0.04	U	<0.04	U
Naphthalene	91-20-3	-	5.1	µg/m ³	1.03		1.34		-		0.467		0.535	
Tetrachloroethene	127-18-4	2.5	15.9	µg/m ³	123		133		123		104		125	
Trichloroethene	79-01-6	0.46	4.2	µg/m ³	<0.032	U	<0.032	U	0.129		<0.032	U	<0.032	U
Vinyl chloride	75-01-4	0.37	<1.9	µg/m ³	<0.023	U	<0.023	U	<0.023	U	<0.023	U	<0.023	U

* Comparison is not performed on parameters with non-numeric criteria. "-" comparative criteria not available from reference source shown.

(a) Only indoor air sample results shown.

(b) NYSDOH Summary of Indoor and Outdoor Levels of VOCs from Fuel Oil Heated Homes in NYS, 1997-2003, Revised November 14, 2005. Table C1 (Appendix C) of NYSDOH Guidance Document referenced in (a). Sample results with detectable concentrations greater than upper fence value shown are highlighted in yellow.

(c) Building Assessment Survey Evaluation (BASE) database, SUMMA canister Method. Table C2 (Appendix C) of NYSDOH Guidance Document. Sample results with detectable concentrations greater than 90th percentile value are highlighted in orange.

Bolded results indicate reportable detection. If results exceed both comparative criteria the highest comparative criteria is highlighted.

"U" - analyte not detected above reporting limit shown; "J" - Estimated value. Result below the reporting limit but above the method detection limit.

ug/m3 = micrograms per cubic meter



Table 5
Buffalo Color Corporation Area C
BCP Site #C915231
Test Port and Manometer Vacuum Levels

Manometer Vacuum Readings (wci)						
Date	Fan #1	Fan #2	Fan #3	Fan #4	Fan #5	Fan #6
6/6/2024	-0.758	-0.073	-0.809	-0.181	-0.206	-0.039
6/14/2024	-0.797	-0.102	-0.851	-0.039	-0.209	-0.065
6/21/2024	-0.786	-0.102	-0.842	-0.038	-0.201	-0.062
7/10/2024	-0.793	-0.104	-0.803	-0.037	-0.202	-0.059
7/19/2024	-0.810	-0.102	-0.858	-0.036	-0.209	-0.064
7/26/2024	-0.809	-0.103	-0.852	-0.039	-0.205	-0.069
8/2/2024	-0.807	-0.106	-0.862	-0.039	-0.211	-0.060
8/9/2024	-0.798	-0.105	-0.855	-0.039	-0.209	-0.059
8/19/2024	-0.807	-0.106	-0.861	-0.037	-0.211	-0.061
8/28/2024	-0.76	-0.069	-0.839	-0.147	-0.205	-0.042
9/11/2024	-0.487	-0.227	-0.534	-0.039	-0.115	-0.076
9/20/2024	-0.786	-0.094	-0.857	-0.033	-0.216	-0.06
10/10/2024	-0.42	-0.203	-0.481	-0.174	-0.101	-0.067
10/18/2024	-0.764	-0.067	-0.833	-0.15	-0.209	-0.032
10/23/2024	-0.763	-0.073	-0.853	-0.175	-0.205	-0.065
10/30/2024	-0.774	-0.082	-0.854	-0.175	-0.209	-0.075
11/6/2024	-1.223	-0.064	0	-0.152	0	-0.086
11/11/2024	-0.729	-0.07	-0.803	-0.148	-0.203	-0.052
11/22/2024	-0.732	-0.066	-0.809	-0.147	-0.196	-0.063
12/3/2024	-0.746	-0.064	-0.804	-0.144	-0.194	-0.027
12/10/2024	-0.738	-0.064	-0.802	-0.147	-0.198	-0.03
12/30/2024	-0.767	-0.094	-0.838	-0.16	-0.209	-0.058
1/9/2025	-0.77	-0.077	-0.839	-0.146	-0.203	-0.044
1/21/2025	-0.773	-0.078	-0.838	-0.149	-0.201	-0.038
1/28/2025	-0.757	-0.075	-0.837	-0.153	-0.205	-0.04
2/4/2025	-0.763	-0.075	-0.838	-0.154	-0.203	-0.043
2/12/2025	-0.77	-0.071	-0.84	-0.149	-0.203	-0.038
2/18/2025	-0.78	-0.093	-0.861	-0.153	-0.205	-0.063
2/24/2025	-0.763	-0.078	-0.842	-0.151	-0.204	-0.046
3/3/2025	-0.784	-0.087	-0.859	-0.153	-0.209	-0.047
3/13/2025	-0.767	-0.068	-0.843	-0.147	-0.202	-0.031
3/24/2025	-0.77	-0.079	-0.859	-0.152	-0.21	-0.053
4/4/2025	-0.774	-0.072	-0.862	-0.148	-0.202	-0.033
4/9/2025	-0.783	-0.078	-0.872	-0.15	-0.203	-0.036
4/18/2025	-0.783	-0.075	-0.856	-0.15	-0.205	-0.037
5/7/2025	-0.794	-0.081	-0.882	-0.15	-0.209	-0.047
5/21/2025	-0.757	-0.075	-0.85	-0.149	-0.201	-0.041
6/5/2025	-0.762	-0.063	-0.851	-0.147	-0.202	-0.046
6/17/2025	-0.77	-0.069	-0.864	-0.152	-0.202	-0.048
7/11/2025	-0.935	-0.096	-1.039	-0.048	-0.278	-0.086
7/14/2025	-0.883	-0.062	-0.986	-0.14	-0.245	-0.052
7/24/2025	-0.841	-0.098	-0.95	-0.038	-0.23	-0.109
7/31/2025	-0.943	-0.112	-1.058	-0.032	-0.265	-0.078
8/6/2025	-0.827	-0.083	-0.93	-0.038	-0.211	-0.084
8/18/2025	-0.913	-0.102	-1.042	-0.035	-0.254	-0.072
Maximum	-1.223	-0.227	-1.058	-0.181	-0.278	-0.109

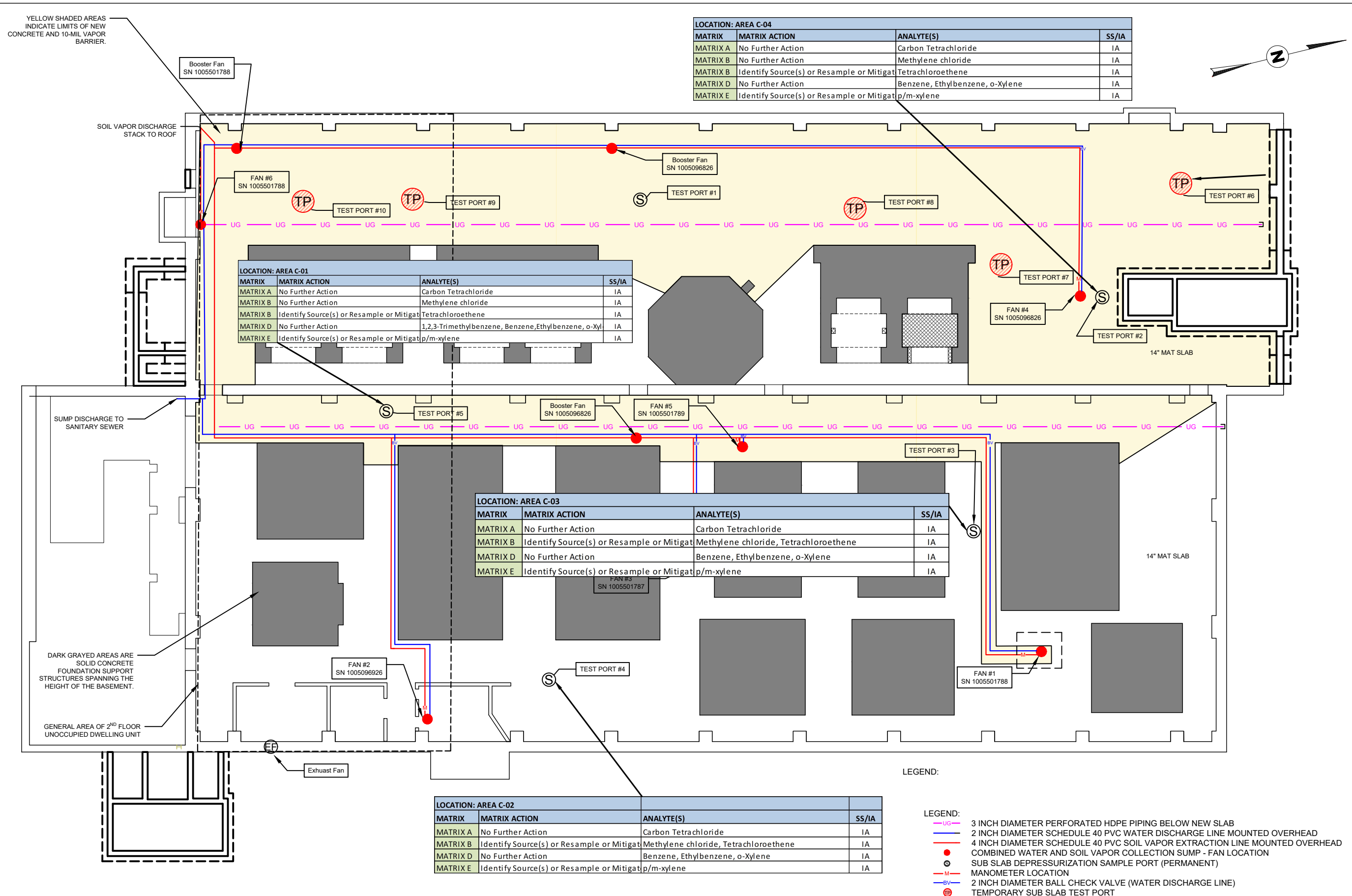
"wci" = inches of water column
a/ All vacuum readings collected with a Series 475 Mark III Digital manometer

Sub-Slab Test Port Vacuum Readings (wci)										
Date	Test Port #1	Test Port #2	Test Port #3	Test Port #4	Test Port #5	Test Port #6	Test Port #7	Test Port #8	Test Port #9	Test Port #10
6/4/2024	0	-0.021	-0.030	-0.010	-0.021	Test Port #'s 6, 7, 8, 9, and 10 were installed February 2025 as part of the corrective measures program.				
6/14/2024	0	0	-0.030	-0.012	-0.021					
6/21/2024	0	0	-0.030	-0.012	-0.021					
7/10/2024	0	0	-0.033	-0.013	-0.023					
7/19/2024	0	0	-0.034	-0.013	-0.024					
7/26/2024	0	0	-0.035	-0.013	-0.024					
8/2/2024	0	0	-0.037	-0.014	-0.026					
8/9/2024	0	0	-0.038	-0.014	-0.025					
8/19/2024	0	0	-0.039	-0.014	-0.026					
8/28/2024	0	0	-0.037	-0.01	-0.025					
9/11/2024	0	0	-0.023	-0.023	-0.017					
9/20/2024	0	0	-0.039	-0.013	-0.026					
10/10/2024	0	0	-0.021	-0.021	-0.017					
10/18/2024	0	0	-0.033	-0.009	-0.022					
10/23/2024	0	0	-0.035	-0.013	-0.022					
10/30/2024	0	0	-0.034	-0.01	0					
11/6/2024	0	0	-0.019	-0.009	0					
11/11/2024	0	0	-0.032	-0.009	-0.021					
11/24/2024	0	0	-0.031	-0.009	-0.018					
12/3/2024	0	0	-0.029	0	-0.017					
12/10/2024	0	0	-0.028	0	-0.017					
12/30/2024	0	0	-0.036	-0.015	-0.024					
1/9/2025	0	0	-0.032	-0.013	-0.022					
1/21/2025	0	0	-0.030	-0.012	-0.02					
1/28/2025	0	0	-0.031	-0.013	-0.021	0	-0.013	0	0	-0.01
2/4/2025	0	-0.021	-0.032	-0.013	-0.022	0	-0.014	0	0	-0.011
2/12/2025	0	-0.02	-0.030	-0.012	-0.021	0	-0.012	0	0	-0.009
2/18/2025	0	-0.023	-0.033	-0.015	-0.022	0	-0.014	0	-0.009	-0.011
2/24/2025	0	-0.021	-0.033	-0.014	-0.022	0	-0.014	0	-0.009	-0.011
3/3/2025	0	-0.021	-0.033	-0.013	-0.022	0	-0.013	0	0	-0.01
3/13/2025	0	-0.019	-0.030	-0.01	-0.019	0	-0.011	0	0	-0.009
3/24/2025	0	-0.02	(b)	-0.01	-0.02	0	-0.011	0	0	0
4/4/2025	0	-0.019	(b)	-0.011	-0.019	0	-0.011	0	0	-0.009
4/9/2025	0	-0.018	(b)	-0.011	-0.018	0	-0.011	0	0	0
4/18/2025	0	-0.019	(b)	-0.011	-0.02	0	-0.011	0	0	0
5/7/2025	0	-0.021	(b)	-0.012	-0.019	0	-0.012	0	0	-0.011
5/21/2025	0	-0.02	(b)	-0.011	-0.021	0	-0.011	0	0	-0.01
6/5/2025	0	-0.021	(b)	-0.012	-0.02	0	-0.013	0	0	-0.011
6/17/2025	0	-0.022	(b)	-0.012	-0.021	0	-0.013	0	0	-0.011
7/11/2025	0	-0.010	(b)	-0.018	-0.031	0	0	0	-0.013	-0.020
7/14/2025	0	-0.021	(b)	-0.014	-0.030	0	-0.013	0	-0.009	-0.014
7/24/2025	0	-0.011	(b)	-0.018	-0.030	0	0	0	-0.013	-0.023
7/31/2025	0	-0.009	(b)	-0.019	-0.033	0	0	0	-0.010	-0.018
8/6/2025	0	-0.009	(b)	-0.016	-0.029	0	0	0	-0.012	-0.021
8/18/2025	0	0	(b)	0	-0.031	0	0	0	-0.01	-0.018

"wci" = inches of water column
a/ All vacuum readings collected with a Series 475 Mark III Digital manometer
b/ No reading reported. Sub-slab vacuum at test port confirmed, but readings on Digital manometer will not stabilize.

Figure





LOCATION: AREA C-04			
MATRIX	MATRIX ACTION	ANALYTE(S)	SS/IA
MATRIX A	No Further Action	Carbon Tetrachloride	IA
MATRIX B	No Further Action	Methylene chloride	IA
MATRIX B	Identify Source(s) or Resample or Mitigate	Tetrachloroethene	IA
MATRIX D	No Further Action	Benzene, Ethylbenzene, o-Xylene	IA
MATRIX E	Identify Source(s) or Resample or Mitigate	p/m-xylene	IA

LOCATION: AREA C-01			
MATRIX	MATRIX ACTION	ANALYTE(S)	SS/IA
MATRIX A	No Further Action	Carbon Tetrachloride	IA
MATRIX B	No Further Action	Methylene chloride	IA
MATRIX B	Identify Source(s) or Resample or Mitigate	Tetrachloroethene	IA
MATRIX D	No Further Action	1,2,3-Trimethylbenzene, Benzene, Ethylbenzene, o-Xyl	IA
MATRIX E	Identify Source(s) or Resample or Mitigate	p-m-xylene	IA

LOCATION: AREA C-03			
MATRIX	MATRIX ACTION	ANALYTE(S)	SS/IA
MATRIX A	No Further Action	Carbon Tetrachloride	IA
MATRIX B	Identify Source(s) or Resample or Mitigate	Methylene chloride, Tetrachloroethene	IA
MATRIX D	No Further Action	Benzene, Ethylbenzene, o-Xylene	IA
MATRIX E	Identify Source(s) or Resample or Mitigate	p/m-xylene	IA

LOCATION: AREA C-02			
MATRIX	MATRIX ACTION	ANALYTE(S)	SS/IA
MATRIX A	No Further Action	Carbon Tetrachloride	IA
MATRIX B	Identify Source(s) or Resample or Mitigate	Methylene chloride, Tetrachloroethene	IA
MATRIX D	No Further Action	Benzene, Ethylbenzene, o-Xylene	IA
MATRIX E	Identify Source(s) or Resample or Mitigate	p/m-xylene	IA

LEGEND:

- LEGEND:**
-  3 INCH DIAMETER PERFORATED HDPE PIPING BELOW NEW SLAB
 -  2 INCH DIAMETER SCHEDULE 40 PVC WATER DISCHARGE LINE MOUNTED OVERHEAD
 - 4 INCH DIAMETER SCHEDULE 40 PVC SOIL VAPOR EXTRACTION LINE MOUNTED OVERHEAD
 -  COMBINED WATER AND SOIL VAPOR COLLECTION SUMP - FAN LOCATION
 -  SUB SLAB DEPRESSURIZATION SAMPLE PORT (PERMANENT)
 -  MANOMETER LOCATION
 -  2 INCH DIAMETER BALL CHECK VALVE (WATER DISCHARGE LINE)
 -  TEMPORARY SUB SLAB TEST PORT

**Sub-Slab and Indoor Air Sampling -
February 2025
Matrix Actions**

INVENTUM ENGINEERING
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FIGURE 2



Attachment A – September 2024 Data Report Tables and Figures



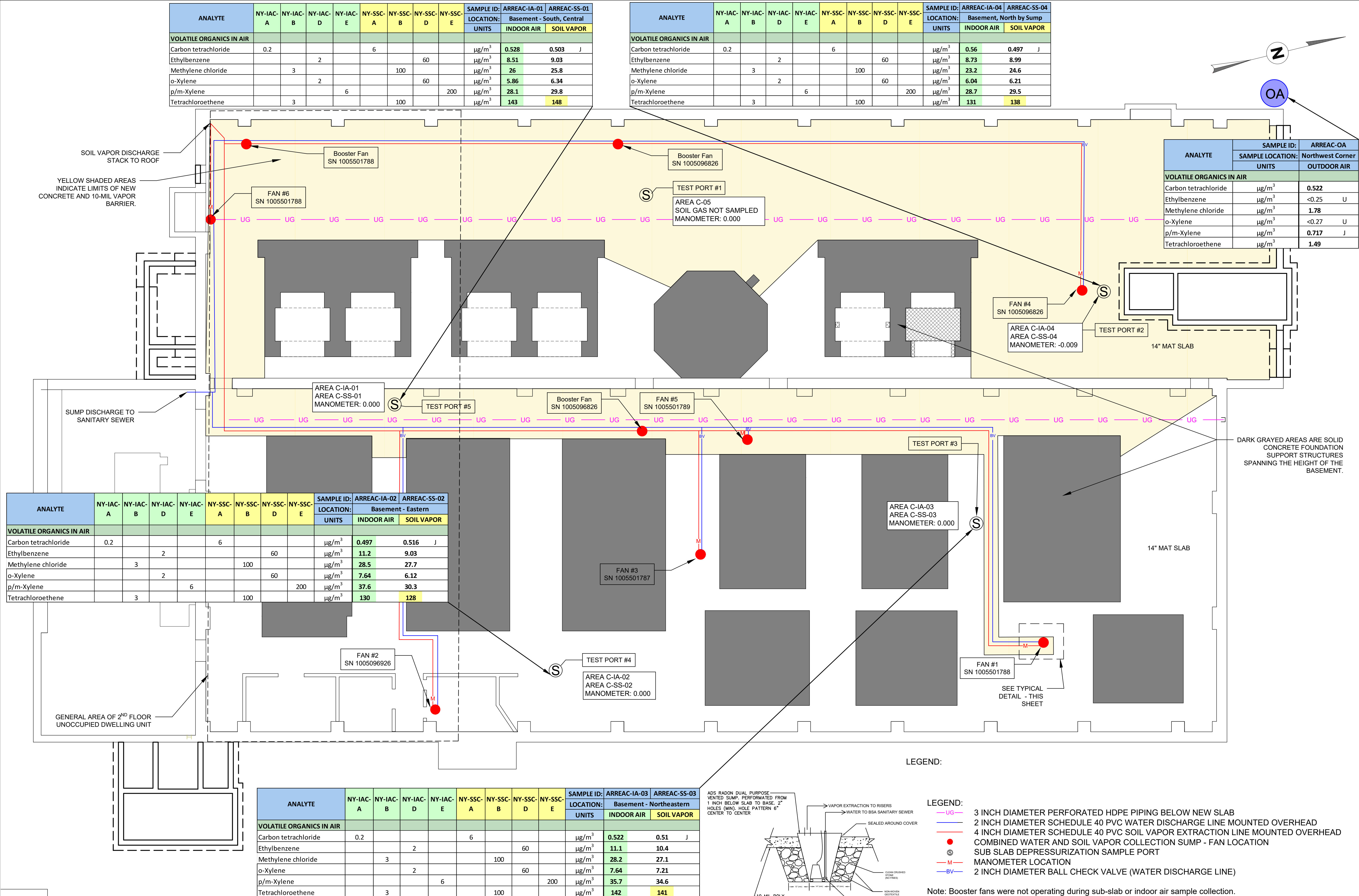
ANALYTE	NY-IAC-A	NY-IAC-B	NY-IAC-D	NY-IAC-E	NY-SSC-A	NY-SSC-B	NY-SSC-D	NY-SSC-E	SAMPLE ID:	ARREAC-IA-01	ARREAC-SS-01
	LOCATION:								Basement - South, Central		
	UNITS	INDOOR AIR	SOIL		VAPOR						
VOLATILE ORGANICS IN AIR											
Carbon tetrachloride	0.2			6					µg/m ³	0.528	0.503
Ethylbenzene			2				60		µg/m ³	8.51	9.03
Methylene chloride		3			100				µg/m ³	26	25.8
o-Xylene			2				60		µg/m ³	5.86	6.34
p/m-Xylene				6				200	µg/m ³	28.1	29.8
Tetrachloroethene		3			100				µg/m ³	143	148

ANALYTE	NY-IAC-A	NY-IAC-B	NY-IAC-D	NY-IAC-E	NY-SSC-A	NY-SSC-B	NY-SSC-D	NY-SSC-E	SAMPLE ID:	ARREAC-IA-04	ARREAC-SS-04
									LOCATION:	Basement, North by Sump	
									UNITS	INDOOR AIR	SOIL VAPOR
VOLATILE ORGANICS IN AIR											
Carbon tetrachloride	0.2				6				µg/m ³	0.56	0.497 J
Ethylbenzene			2				60		µg/m ³	8.73	8.99
Methylene chloride		3				100			µg/m ³	23.2	24.6
o-Xylene			2				60		µg/m ³	6.04	6.21
p-m-Xylene				6				200	µg/m ³	28.7	29.5
Tetrachloroethene		3				100			µg/m ³	131	138

ANALYTE	SAMPLE ID:	ARREA- OA
	SAMPLE LOCATION:	Northwest Corner
	UNITS	OUTDOOR AIR
VOLATILE ORGANICS IN AIR		
Carbon tetrachloride	µg/m ³	0.522
Ethylbenzene	µg/m ³	<0.25 U
Methylene chloride	µg/m ³	1.78
o-Xylene	µg/m ³	<0.27 U
p/m-Xylene	µg/m ³	0.717 J
Tetrachloroethene	µg/m ³	1.49

ANALYTE	NY-IAC-A	NY-IAC-B	NY-IAC-D	NY-IAC-E	NY-SSC-A	NY-SSC-B	NY-SSC-D	NY-SSC-E	SAMPLE ID:	ARREAC-IA-02	ARREAC-SS-02
									LOCATION:	Basement	Eastern
									UNITS	INDOOR AIR	SOIL VAPOR
VOLATILE ORGANICS IN AIR											
Carbon tetrachloride	0.2				6				µg/m ³	0.497	0.516 J
Ethylbenzene			2				60		µg/m ³	11.2	9.03
Methylene chloride		3				100			µg/m ³	28.5	27.7
o-Xylene			2				60		µg/m ³	7.64	6.12
p/m-Xylene				6				200	µg/m ³	37.6	30.3
Tetrachloroethene		3				100			µg/m ³	130	128

ANALYTE	NY-IAC-A	NY-IAC-B	NY-IAC-D	NY-IAC-E	NY-SSC-A	NY-SSC-B	NY-SSC-D	NY-SSC-E	SAMPLE ID:	ARREAC-IA-03	ARREAC-SS-03
									LOCATION:	Basement - Northeastern	
									UNITS	INDOOR AIR	SOIL VAPOR
VOLATILE ORGANICS IN AIR											
Carbon tetrachloride	0.2				6				µg/m ³	0.522	0.51 J
Ethylbenzene			2				60		µg/m ³	11.1	10.4
Methylene chloride		3				100			µg/m ³	28.2	27.1
o-Xylene			2				60		µg/m ³	7.64	7.21
p/m-Xylene				6				200	µg/m ³	35.7	34.6
Tetrachloroethene		3				100			µg/m ³	142	141



DRAWING BY	T. WALDROP
CHECKED	J. BLACK
APPROVED	J. BLACK
PROPERTY OF INVENTUM ENGINEERING	
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**Supplemental Sub-Slab and Indoor Air
Sampling Program - March 2024**
Buffalo Color Corporation Site Area C
Erie County, Site No. C915231

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HERNDON, VIRGINIA 20170
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FIGURE 1

D

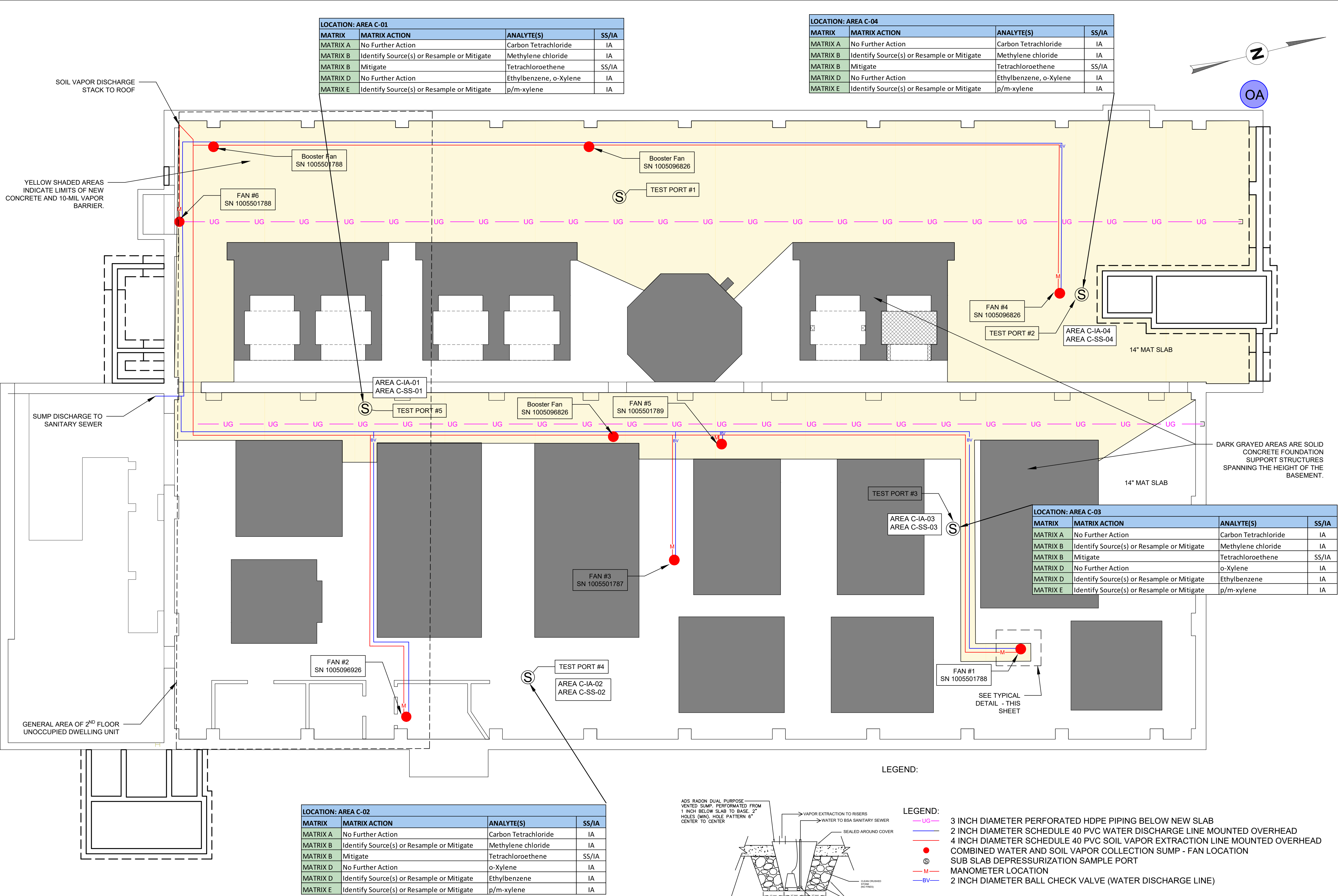




Table 1
Former Buffalo Color - Area C
BCP Site #C915231
Basement Indoor Air Sub-Slab Sampling - All Results

ANALYTE	NYSDOH Indoor Air Vapor Concentration Criteria (a)						NYSDOH Sub-slab Vapor Concentration Criteria (a)						SAMPLE ID:	ARREAC-IA-01	ARREAC-SS-01	ARREAC-IA-02	ARREAC-SS-02	ARREAC-IA-03	ARREAC-SS-03	ARREAC-IA-04	ARREAC-SS-04	ARREAC-OA																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																			
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Table 1
Former Buffalo Color - Area C
BCP Site #C915231
Basement Indoor Air Sub-Slab Sampling - All Results

ANALYTE	NYSDOH Indoor Air Vapor Concentration Criteria (a)						NYSDOH Sub-slab Vapor Concentration Criteria (a)						SAMPLE ID:		ARREAC-IA-01	ARREAC-SS-01	ARREAC-IA-02	ARREAC-SS-02	ARREAC-IA-03	ARREAC-SS-03	ARREAC-IA-04	ARREAC-SS-04	ARREAC-OA						
													LAB ID:		L2416214-01	L2416214-02	L2416214-03	L2416214-04	L2416214-05	L2416214-06	L2416214-07	L2416214-08	L2416214-09						
	COLLECTION DATE:		3/25/2024			3/25/2024			3/25/2024			3/25/2024			3/25/2024														
	SAMPLE LOCATION:		Basement - South, Central			Basement - Eastern			Basement - Northeastern			Basement, North by Sump			Northwest Corner														
	SAMPLE INTERVAL:		INDOOR AIR		SOIL VAPOR		INDOOR AIR		SOIL VAPOR		INDOOR AIR		SOIL VAPOR		INDOOR AIR		SOIL VAPOR		OUTDOOR AIR										
UNITS																													
VOLATILE ORGANICS IN AIR																													
cis-1,2-Dichloroethene	0.2						6						µg/m³	<0.04	U	<0.236	U	<0.04	U	<0.236	U	<0.04	U	<0.236	U	<0.04	U		
cis-1,3-Dichloropropene													µg/m³	<0.306	U	<0.306	U	<0.306	U	<0.306	U	<0.306	U	<0.306	U	<0.306	U		
Cyclohexane				2						60			µg/m³	1.71		1.7		1.42		1.73		1.92		1.77		1.92		1.11	
Dibromochloromethane													µg/m³	<0.482	U	<0.482	U	<0.482	U	<0.482	U	<0.482	U	<0.482	U	<0.482	U	<0.482	U
Dichlorodifluoromethane													µg/m³	2.82		2.8		2.76		2.76		2.89		2.78		2.86		2.82	
Ethanol													µg/m³	906		784		718		852		820		814		914		795	
Ethyl Acetate													µg/m³	3.78		4.22		3.86		3.93		3.89		4.29		3.93		4	
Ethylbenzene				2						60			µg/m³	8.51		9.03		11.2		9.03		11.1		10.4		8.73		8.99	
Freon-113													µg/m³	0.636	J	0.628	J	0.667	J	0.621	J	0.659	J	0.644	J	0.651	J	0.644	J
Freon-114													µg/m³	<0.352	U	<0.352	U	<0.352	U	<0.352	U	<0.352	U	<0.352	U	<0.352	U	<0.352	U
Heptane					6						200		µg/m³	2.18		2.36		1.99		2.17		2.4		2.38		2.5		2.52	
Hexachlorobutadiene													µg/m³	<0.647	U	<0.647	U	<0.647	U	<0.647	U	<0.647	U	<0.647	U	<0.647	U	<0.647	U
Isopropanol													µg/m³	3.15		4.08		3.05		5.58		3.81		5.19		4.55		4.03	
Methyl tert butyl ether													µg/m³	<0.162	U	<0.162	U	<0.162	U	<0.162	U	<0.162	U	<0.162	U	<0.162	U	<0.162	U
Methylene chloride		3						100					µg/m³	26		25.8		28.5		27.7		28.2		27.1		23.2		24.6	
n-Hexane					6						200		µg/m³	1.99		2.11		1.79		1.88		2.1		2.13		2.22		2.24	
Naphthalene				2						60			µg/m³	<0.409	U	0.456	J	0.498	J	1.32		<0.409	U	0.461	J	<0.409	U	<0.409	U
o-Xylene				2						60			µg/m³	5.86		6.34		7.64		6.12		7.64		7.21		6.04		6.21	
p/m-Xylene					6						200		µg/m³	28.1		29.8		37.6		30.3		35.7		34.6		28.7		29.5	
Styrene													µg/m³	1.11		1.15		1.16		1.32		1.32		1.21		1.34		1.11	
Tertiary butyl Alcohol													µg/m³	2.86		3.12		2.6		2.66		3.58		<0.4	U	3.06		2.93	
Tetrachloroethene		3						100					µg/m³	143		148		130		128		142		141		131		138	
Tetrahydrofuran													µg/m³	10.2		9		8.7		9.88		11		9.7		9.35		8.85	
Toluene						10					300		µg/m³	1.85		2.13		1.76		1.97		2.35		2.22		1.93		1.99	
trans-1,2-Dichloroethene													µg/m³	<0.299	U	<0.299	U	<0.299	U	<0.299	U	<0.299	U	<0.299	U	<0.299	U	<0.299	U
trans-1,3-Dichloropropene													µg/m³	<0.355	U	<0.355	U	<0.355	U	<0.355	U	<0.355	U	<0.355	U	<0.355	U	<0.355	U
Trichloroethene	0.2						6						µg/m³	0.102	J	<0.295	U	0.118		<0.295	U	0.134		<0.295	U	0.097	J	<0.295	U
Trichlorofluoromethane													µg/m³	2.64		2.62		2.54		2.42		3.02		2.88		2.64		2.65	
Vinyl bromide													µg/m³	<0.316	U	<0.316	U	<0.316	U	<0.316	U	<0.316	U	<0.316	U	<0.316	U	<0.316	U
Vinyl chloride			0.2						6				µg/m³	<0.023	U	<0.149	U	<0.023	U	<0.149	U	<0.023	U	<0.149	U	<0.023	U	<0.149	U

* Comparison is not performed on parameters with non-numeric criteria.

NY-IAC-A: New York DOH Matrix A Indoor Air Concentrations Criteria per Guidance for Evaluating Soil Vapor Intrusion, October 2006, and updated May 2017.
NY-IAC-B: New York DOH Matrix B Indoor Air Concentrations Criteria per Guidance for Evaluating Soil Vapor Intrusion, October 2006, and updated May 2017.
NY-IAC-C: New York DOH Matrix C Indoor Air Concentrations Criteria per Guidance for Evaluating Soil Vapor Intrusion, October 2006, and updated May 2017.
NY-SSC-A: New York DOH Matrix A Sub-slab Vapor Concentrations Criteria per Guidance for Evaluating Soil Vapor Intrusion, October 2006, and updated May 2017.
NY-SSC-B: New York DOH Matrix B Sub-slab Vapor Concentrations Criteria per Guidance for Evaluating Soil Vapor Intrusion, October 2006, and updated May 2017.
NY-SSC-C: New York DOH Matrix C Sub-slab Vapor Concentrations Criteria per Guidance for Evaluating Soil Vapor Intrusion, October 2006, and updated May 2017.

Bolded results indicate reportable detection; Yellow highlighted results indicate exceedance of Sub-Slab Criteria; Green highlighted results indicate exceedance of Indoor Air Criteria.

"-" Comparative criteria not available; "U" - analyte not detected above reporting limit shown
ug/m3 = micrograms per cubic meter



Table 2
Former Buffalo Color - Area C
BCP Site #C915231
Basement Indoor Sub-Slab Sampling
NYSDOH Matrix Action Summary

Matrix A Analytes	Recommended Matrix Action at Sample Location			
	No Further Action	Monitor	Identify Source(s) and Resample or Mitigate	Mitigate
Trichloroethene (TCE)	Area C-01 Area C-02 Area C-03 Area C-04	N/A	N/A	N/A
cis-1,2-Dichloroethene (DCE)	Area C-01 Area C-02 Area C-03 Area C-04	N/A	N/A	N/A
1,1-Dichloroethene (1,1-DCE)	Area C-01 Area C-02 Area C-03 Area C-04	N/A	N/A	N/A
Carbon Tetrachloride	Area C-01 Area C-02 Area C-03 Area C-04	N/A	N/A	N/A

Matrix B Analytes	Recommended Matrix Action at Sample Location			
	No Further Action	Monitor	Identify Source(s) and Resample or Mitigate	Mitigate
Tetrachloroethene (PCE)	N/A	N/A	N/A	Area C-01 Area C-02 Area C-03 Area C-04
1,1,1-Trichloroethane (1,1,1-TCA)	Area C-01 Area C-02 Area C-03 Area C-04	N/A	N/A	N/A
Methylene Chloride	N/A	N/A	Area C-01 Area C-02 Area C-03 Area C-04	N/A

Matrix C Analytes	Recommended Matrix Action at Sample Location			
	No Further Action	Monitor	Identify Source(s) and Resample or Mitigate	Mitigate
Vinyl Chloride	Area C-01 Area C-02 Area C-03 Area C-04	N/A	N/A	N/A



Table 2
Former Buffalo Color - Area C
BCP Site #C915231
Basement Indoor Sub-Slab Sampling
NYSDOH Matrix Action Summary

Matrix D Analytes	Recommended Matrix Action at Sample Location			
	No Further Action	Monitor	Identify Source(s) and Resample or Mitigate	Mitigate
Benzene	Area C-01 Area C-02 Area C-03 Area C-04	N/A	N/A	N/A
Ethylbenzene	Area C-01 Area C-04	N/A	Area C-02 Area C-03	N/A
Naphthalene	Area C-01 Area C-02 Area C-03 Area C-04	N/A	N/A	N/A
Cyclohexane	Area C-01 Area C-02 Area C-03 Area C-04	N/A	N/A	N/A
Isooctane (2,2,4-trimethylpentane)	Area C-01 Area C-02 Area C-03 Area C-04	N/A	N/A	N/A
1,2,4-trimethylbenzene	Area C-01 Area C-02 Area C-03 Area C-04	N/A	N/A	N/A
1,3,5-trimethylbenzene	Area C-01 Area C-02 Area C-03 Area C-04	N/A	N/A	N/A
o-xylene	Area C-01 Area C-02 Area C-03 Area C-04	N/A	N/A	N/A

Matrix E Analytes	Recommended Matrix Action at Sample Location			
	No Further Action	Monitor	Identify Source(s) and Resample or Mitigate	Mitigate
m-Xylene	N/A	N/A	Area C-01 Area C-02 Area C-03 Area C-04	N/A
p-Xylene	N/A	N/A	Area C-01 Area C-02 Area C-03 Area C-04	N/A
Heptane	Area C-01 Area C-02 Area C-03 Area C-04	N/A	N/A	N/A
Hexane	Area C-01 Area C-02 Area C-03 Area C-04	N/A	N/A	N/A

Matrix F Analytes	Recommended Matrix Action at Sample Location			
	No Further Action	Monitor	Identify Source(s) and Resample or Mitigate	Mitigate
Toluene	Area C-01 Area C-02 Area C-03 Area C-04	N/A	N/A	N/A

"N/A" = No samples meet criteria for noted recommended matrix action



Table 3
Former Buffalo Color - Area C
BCP Site #C915231
NYS Fuel Oil study - EPA BASE Study

ANALYTE (a)	CAS	NYSDOH Fuel Oil Study Upper Fence (µg/m3) (b)	EPA BASE Database 90th Percentile (µg/m3) (c)	SAMPLE ID:	ARREAC-IA-01		ARREAC-IA-02		ARREAC-IA-03		ARREAC-IA-04	
				LAB ID:	L2416214-01		L2416214-03		L2416214-05		L2416214-07	
				COLLECTION DATE:	3/25/2024		3/25/2024		3/25/2024		3/25/2024	
				SAMPLE LOCATION:	Basement - South, Central		Basement - Eastern		Basement - Northeastern		Basement, North by Sump	
				SAMPLE INTERVAL:	INDOOR AIR		INDOOR AIR		INDOOR AIR		INDOOR AIR	
				UNITS								
VOLATILE ORGANICS IN AIR												
1,1,2,2-Tetrachloroethane	79-34-5	0.4	-	µg/m³	<0.357	U	<0.357	U	<0.357	U	<0.357	U
1,1,2-Trichloroethane	79-00-5	0.4	<1.5	µg/m³	<0.318	U	<0.318	U	<0.318	U	<0.318	U
1,1-Dichloroethane	75-34-3	0.4	<0.7	µg/m³	0.344	J	0.364	J	0.603	J	0.393	J
1,2,4-Trichlorobenzene	120-82-1	0.5	<6.8	µg/m³	<0.742	U	<0.742	U	<0.742	U	<0.742	U
1,2-Dibromoethane	106-93-4	0.4	<1.5	µg/m³	<0.418	U	<0.418	U	<0.418	U	<0.418	U
1,2-Dichlorobenzene	95-50-1	0.5	<1.2	µg/m³	<0.372	U	<0.372	U	<0.372	U	<0.372	U
1,2-Dichloroethane	107-06-2	0.4	<0.9	µg/m³	<0.319	U	<0.319	U	<0.319	U	<0.319	U
1,2-Dichloropropane	78-87-5	0.4	<1.6	µg/m³	<0.292	U	<0.292	U	<0.292	U	<0.292	U
1,3-Butadiene	106-99-0	-	<3.0	µg/m³	<0.137	U	<0.137	U	<0.137	U	<0.137	U
1,3-Dichlorobenzene	541-73-1	0.5	<2.4	µg/m³	<0.467	U	<0.467	U	<0.467	U	<0.467	U
1,4-Dichlorobenzene	106-46-7	1.2	5.5	µg/m³	<0.497	U	<0.497	U	<0.497	U	<0.497	U
1,4-Dioxane	123-91-1	-	-	µg/m³	<0.194	U	<0.194	U	<0.194	U	<0.194	U
2-Butanone	78-93-3	16	12	µg/m³	8.82		7.85		12		8.35	
2-Hexanone	591-78-6	-	-	µg/m³	1.3		1.13		1.61		0.938	
3-Chloropropene	107-05-1	-	-	µg/m³	<0.269	U	<0.269	U	<0.269	U	<0.269	U
4-Ethyltoluene	622-96-8	-	3.6	µg/m³	<0.272	U	<0.272	U	<0.272	U	<0.272	U
4-Methyl-2-pentanone	108-10-1	1.9	6	µg/m³	<0.779	U	<0.779	U	<0.779	U	<0.779	U
Acetone	67-64-1	115	98.9	µg/m³	58		52		68.2		54.4	
Benzyl chloride	100-44-7	-	<6.8	µg/m³	<0.486	U	<0.486	U	<0.486	U	<0.486	U
Bromodichloromethane	75-27-4	-	-	µg/m³	<0.462	U	<0.462	U	<0.462	U	<0.462	U
Bromoform	75-25-2	-	-	µg/m³	<0.616	U	<0.616	U	<0.616	U	<0.616	U
Bromomethane	74-83-9	0.5	<1.7	µg/m³	<0.212	U	<0.212	U	0.322	J	<0.212	U
Carbon disulfide	75-15-0	-	4.2	µg/m³	0.557	J	0.551	J	0.682		0.607	J
Chlorobenzene	108-90-7	0.4	<0.9	µg/m³	<0.238	U	<0.238	U	0.267	J	<0.238	U
Chloroethane	75-00-3	0.4	<1.1	µg/m³	<0.171	U	<0.171	U	<0.171	U	<0.171	U
Chloroform	67-66-3	1.2	1.1	µg/m³	0.41	J	0.469	J	0.498	J	0.425	J
Chloromethane	74-87-3	4.2	3.7	µg/m³	1.19		1.12		1.18		1.21	
cis-1,3-Dichloropropene	10061-01-5	0.4	<2.3	µg/m³	<0.306	U	<0.306	U	<0.306	U	<0.306	U
Dibromochloromethane	124-48-1	-	-	µg/m³	<0.482	U	<0.482	U	<0.482	U	<0.482	U
Dichlorodifluoromethane	75-71-8	10	16.5	µg/m³	2.82		2.76		2.89		2.86	
Ethanol	64-17-5	1300	210	µg/m³	906		718		820		914	
Ethyl Acetate	141-78-6	-	5.4	µg/m³	3.78		3.86		3.89		3.93	
Freon-113	76-13-1	2.5	-	µg/m³	0.636	J	0.667	J	0.659	J	0.651	J
Freon-114	76-14-2	0.4	-	µg/m³	<0.352	U	<0.352	U	<0.352	U	<0.352	U
Hexachlorobutadiene	87-68-3	0.5	<6.8	µg/m³	<0.647	U	<0.647	U	<0.647	U	<0.647	U
Isopropanol	67-63-0	-	-	µg/m³	3.15		3.05		3.81		4.55	
Methyl tert butyl ether	1634-04-4	14	11.5	µg/m³	<0.162	U	<0.162	U	<0.162	U	<0.162	U
Styrene	100-42-5	1.4	1.9	µg/m³	1.11		1.16		1.32		1.34	
Tertiary butyl Alcohol	75-65-0	-	-	µg/m³	2.86		2.6		3.58		3.06	
Tetrahydrofuran	109-99-9	0.8	-	µg/m³	10.2		8.7		11		9.35	
trans-1,2-Dichloroethene	156-60-5	-	-	µg/m³	<0.299	U	<0.299	U	<0.299	U	<0.299	U
trans-1,3-Dichloropropene	10061-02-6	-	<1.3	µg/m³	<0.355	U	<0.355	U	<0.355	U	<0.355	U
Trichlorofluoromethane	75-69-4	12	18.1	µg/m³	2.64		2.54		3.02		2.64	
Vinyl bromide	593-60-2	-	-	µg/m³	<0.316	U	<0.316	U	<0.316	U	<0.316	U

* Comparison is not performed on parameters with non-numeric criteria. "-" comparative criteria not available from reference source shown.

- (a) Analytes on the New York DOH Matrices contained in the Guidance for Evaluating Soil Vapor Intrusion, October 2006, and Updated May 2017 are not shown or included in the tabulation and comparison to the NYS Fuel Oil Study Upper Fence or the 90th Percent of the EPA BASE Study. Only indoor air sample results shown.
- (b) NYSDOH Summary of Indoor and Outdoor Levels of VOCs from Fuel Oil Heated Homes in NYS, 1997-2003, Revised November 14, 2005. Table C1 (Appendix C) of NYSDOH Guidance Document referenced in (a). Sample results with detectable concentrations greater than upper fence value shown are highlighted in yellow.
- (c) Building Assessment Survey Evaluation (BASE) database, SUMMA canister Method. Table C2 (Appendix C) of NYSDOH Guidance Document referenced in (a). Sample results with detectable concentrations greater than 90th percentile value are highlighted in orange.
- Bolded results indicate reportable detection
- "U" - analyte not detected above reporting limit shown; "J" - Estimated value. Result below the reporting limit but above the method detection limit.
- ug/m3 = micrograms per cubic meter



Table 4
Former Buffalo Color - Area C
BCP Site #C915231
Test Port and Manometer Vacuum Levels

Manometer Vacuum Readings (wci)						
Date	Fan #1	Fan #2	Fan #3	Fan #4	Fan #5	Fan #6
6/6/2024	-0.758	-0.073	-0.809	-0.181	-0.206	-0.039
6/14/2024	-0.797	-0.102	-0.851	-0.039	-0.209	-0.065
6/21/2024	-0.786	-0.102	-0.842	-0.038	-0.201	-0.062
7/10/2024	-0.793	-0.104	-0.803	-0.037	-0.202	-0.059
7/19/2024	-0.810	-0.102	-0.858	-0.036	-0.209	-0.064
7/26/2024	-0.809	-0.103	-0.852	-0.039	-0.205	-0.069
8/2/2024	-0.807	-0.106	-0.862	-0.039	-0.211	-0.060
8/9/2024	-0.798	-0.105	-0.855	-0.039	-0.209	-0.059

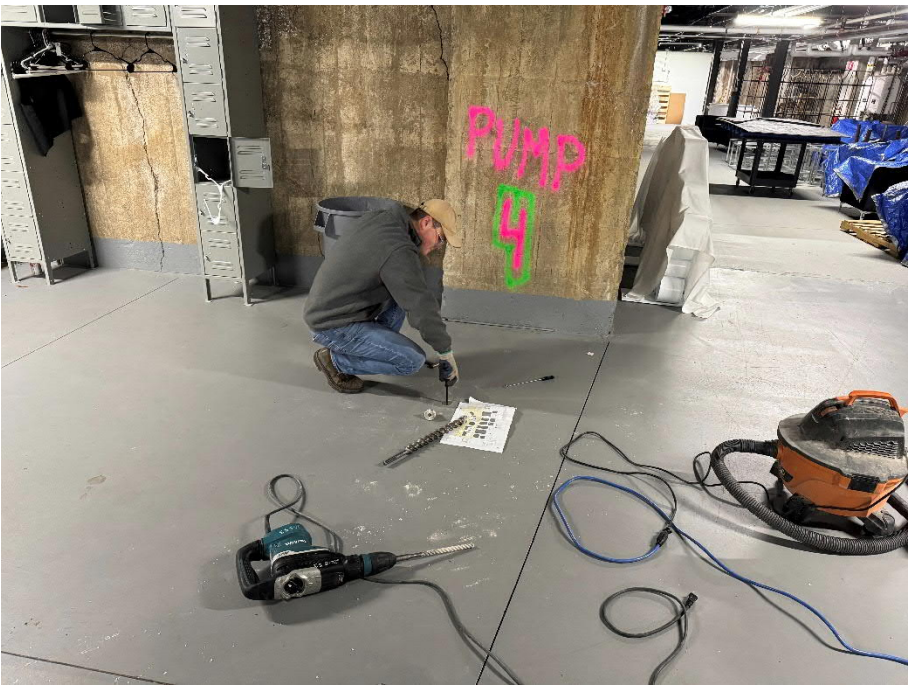
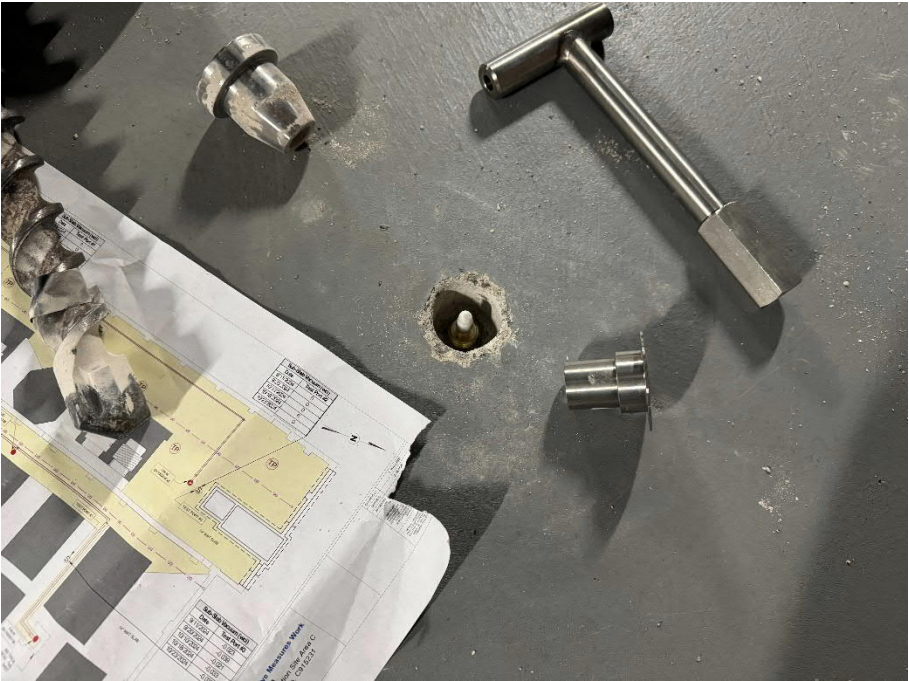
Sub-Slab Test Port Vacuum Readings (wci)					
Date	Test Port #1	Test Port #2	Test Port #3	Test Port #4	Test Port #5
6/4/2024	0	-0.021	-0.030	-0.010	-0.021
6/14/2024	0	0	-0.030	-0.012	-0.021
6/21/2024	0	0	-0.030	-0.012	-0.021
7/10/2024	0	0	-0.033	-0.013	-0.023
7/19/2024	0	0	-0.034	-0.013	-0.024
7/26/2024	0	0	-0.035	-0.013	-0.024
8/2/2024	0	0	-0.037	-0.014	-0.026
8/9/2024	0	0	-0.038	-0.014	-0.025

"wci" = inches of water column

a/ All vacuum readings collected with a Series 475 Mark III Digital manometer

Attachment B – Photolog

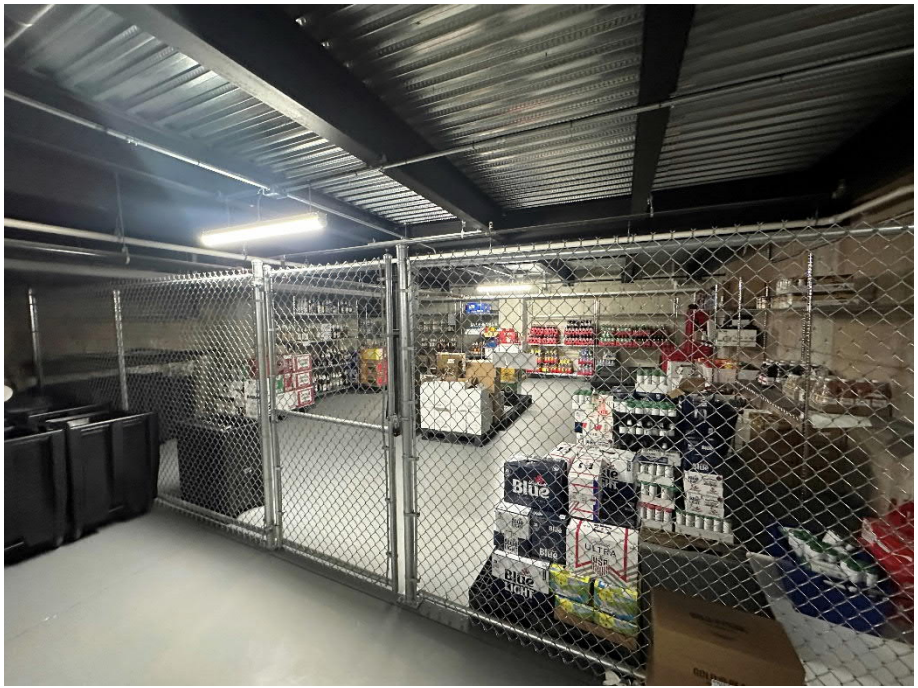


Client Name: South Buffalo Development LLC.	Date of Site Visit: 01/23/2025	Project: Buffalo Color - Area C
Photo No. 1		
Description: After using a hammer drill to drill a shallow hole into the sub slab, a hand drill was used to fully drill through. This method was used at all new locations.		
Client Name: South Buffalo Development LLC.	Date of Site Visit: 01/23/2025	Project: Buffalo Color - Area C
Photo No. 2		
Description: This image depicts a fully installed temporary vapor pin. This is how test port 6, 7, 8, 9, and 10 were installed.		

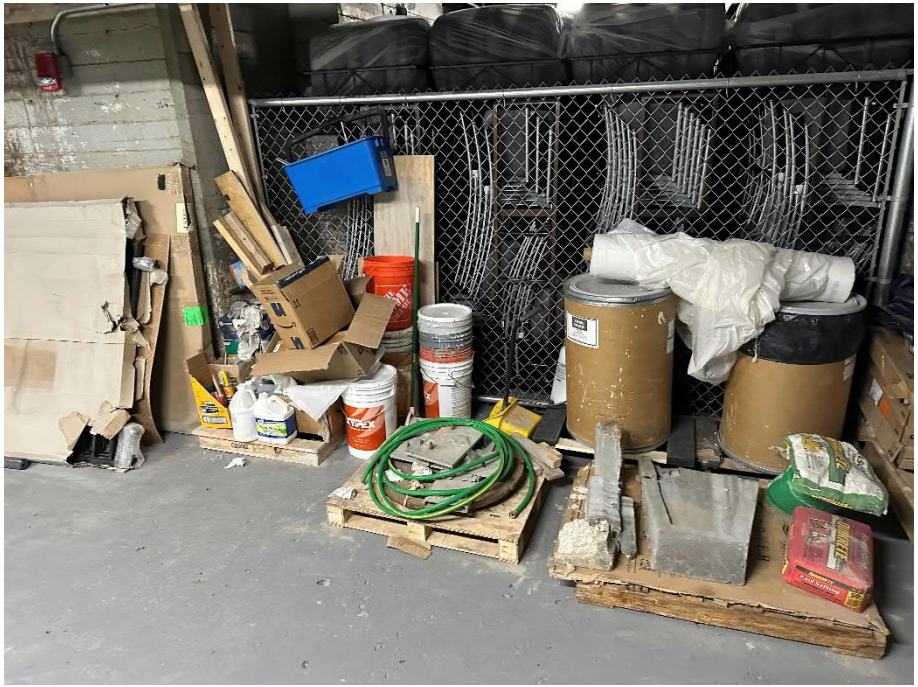


Client Name: South Buffalo Development LLC.	Date of Site Visit: 02/24/2025	Project: Buffalo Color - Area C
Photo No. 3		
Description: Inventum Engineering conducted a helium detection test on Test Ports 1, 2, 3, 4, and 5. This image shows the test being conducted on Test Port 2. Sample Location Area C-04.		
Client Name: South Buffalo Development LLC.	Date of Site Visit: 02/24/2025	Project: Buffalo Color - Area C
Photo No. 4		
Description: An image showing how our helium detection test was set up at Test Port 1. Sample Location		

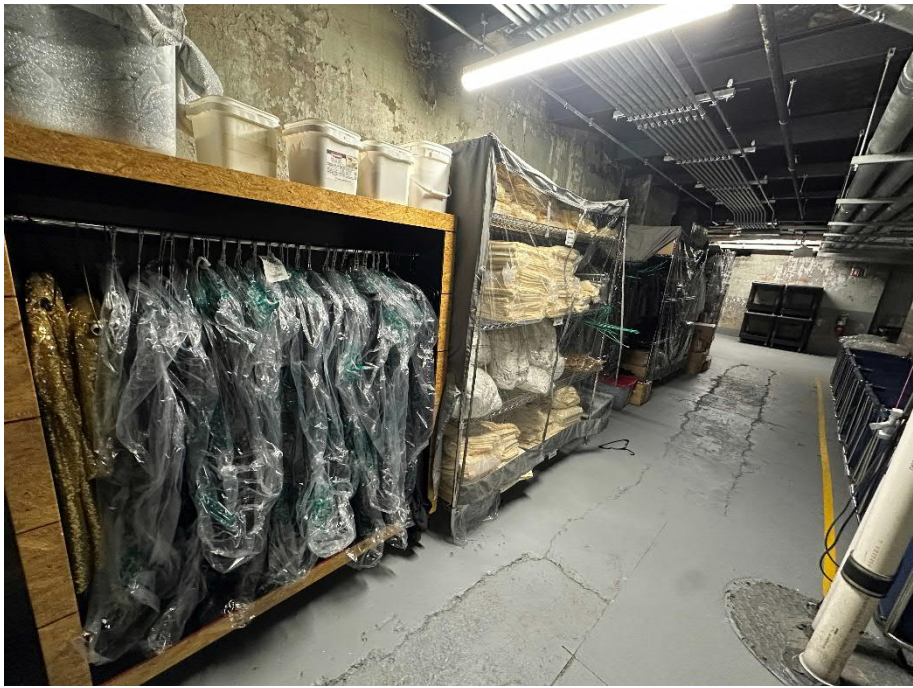


Client Name: South Buffalo Development LLC.	Date of Site Visit: 02/25/2025	Project: Buffalo Color - Area C
Photo No. 5 Description: This is located in the same area as Test Port 2. Sample Location Area C-04 The area acts as storage for all of Rich's Catering's alcohol for events. All liquor is sealed.		
Client Name: South Buffalo Development LLC.	Date of Site Visit: 02/25/2025	Project: Buffalo Color - Area C
Photo No. 6 Description: Located approximately 15 feet away from Test Port 2. Sample Location Area C-04. The station has a paint roller pan, a can of paint, and some freshly painted props.		



Client Name: South Buffalo Development LLC.	Date of Site Visit: 02/25/2025	Project: Buffalo Color - Area C
Photo No. 7 Description: Storage area that Test Port 4 is located in. Sample Location Area C-02. This area contains a lot of paint, sealer, paint thinner, and concrete filler.		
Client Name: South Buffalo Development LLC.	Date of Site Visit: 02/25/2025	Project: Buffalo Color - Area C
Photo No. 8 Description: Various pallets of cleaning products, quickcrete, clean sweep, and various upkeep products.		



Client Name: South Buffalo Development LLC.	Date of Site Visit: 02/25/2025	Project: Buffalo Color - Area C
Photo No. 9 Description: Fresh linens for Rich's Renaissance Catering that were laundered by Colvin Cleaners.		
Client Name: South Buffalo Development LLC.	Date of Site Visit: 02/25/2025	Project: Buffalo Color - Area C
Photo No. 10 Description: A duplicate sample for ambient air and sub slab vapors were taken here at Test Port 2. Sample Location Area C-04		



Client Name: South Buffalo Development LLC.	Date of Site Visit: 02/25/2025	Project: Buffalo Color - Area C
Photo No. 11		
Description: A depiction of the sampling set up for Test Port 4. Sample Location Area C-2 The set up for this test port reflects the set up for Test Ports 3 and 5 as well.		
Client Name: South Buffalo Development LLC.	Date of Site Visit: 02/25/2025	Project: Buffalo Color - Area C
Photo No. 12		
Description: Surficial cracking of enamel surface. Typical of all areas.		



Client Name: South Buffalo Development LLC.	Date of Site Visit: 02/25/2025	Project: Buffalo Color - Area C
Photo No. 13		
Description: Surficial cracking of enamel surface. Typical of all areas.		
Client Name: South Buffalo Development LLC.	Date of Site Visit: 02/25/2025	Project: Buffalo Color - Area C
Photo No. 14		
Description: Surficial cracking of enamel surface. Typical of all areas.		



Attachment C – Vapor Pint Standard Operating Procedures



Vapor Pin®

Standard Operating Procedure

Installation and Extraction

Vapor Pin® Sampling Device

Scope & Purpose

Scope

This standard operating procedure describes the installation and extraction of the Vapor Pin® Sampling Device for use in sub-slab soil-gas sampling.

Purpose

The purpose of this procedure is to assure good quality control in field operations and uniformity between field personnel in the use of the Vapor Pin® Sampling Device.

Equipment Needed

- Vapor Pin® Sampling Device
- Vapor Pin® Sleeves
- Vapor Pin® Cap
- Installation/Extraction Tool
- Rotary Hammer Drill
 - 5/8-Inch (16mm) diameter hammer bit
 - 1½-Inch (38mm) diameter hammer bit for flush mount applications
- ¾-Inch (19mm) diameter bottle brush
- Wet/Dry Vacuum with HEPA filter (optional)
- Dead Blow Hammer
- VOC-free hole patching material (hydraulic cement) and a putty knife or trowel
 - This is for repairing the hole following the extraction of the Vapor Pin® Sampling Device

Installation Procedure

1. Check for buried obstacles (pipes, electrical lines, etc.) prior to proceeding.
2. Set up wet/dry vacuum to collect drill cuttings.
3. For a temporary installation, drill a 5/8-inch (16mm) diameter hole through the slab and approximately 1-inch (25mm) into the underlying soil to form a void. The hole must be 5/8-inch (16mm) in diameter to ensure a seal.
 - If a flush mount installation is required, drill a 1½-inch (38mm) diameter hole at least 1¾-inches (45mm) into the slab. We highly recommend using the Stainless Steel Drilling Guide and to reference the Standard Operating Procedure Drilling Guide & Secure Cover.
4. Remove the drill bit, brush the hole with the bottle brush and remove the loose cuttings with the vacuum.
5. Assemble the Vapor Pin® Sampling Device and Vapor Pin® Sleeve (Figure 1).
6. Place the lower end of the Vapor Pin® Sampling Device assembly into the drilled hole. Place the small hole located in the handle of the Installation/Extraction Tool, over the Vapor Pin® to protect the barb fitting and tap the Vapor Pin® into place using a dead blow hammer (Figure 2). Make sure the Installation/Extraction Tool is aligned parallel to the Vapor Pin® to avoid damaging the barb.
 - During installation, the Vapor Pin® Sleeve may form a slight bulge between the slab and the Vapor Pin® Sampling Device shoulder.
7. Place the Vapor Pin® Cap on the Vapor Pin® to prevent vapor loss prior to sampling (Figure 3).
8. For flush mount installations, cover the Vapor Pin® with a flush mount cover, using either the plastic cover or the optional Stainless Steel Secure Cover (Figure 4).
9. Allow 20 minutes or more (consult applicable guidance for your situation) for the sub-slab soil-gas conditions to re-equilibrate prior to sampling.

Standard Operating Procedure

Installation and Extraction

Figure 1.



Figure 2.



Figure 3.



Figure 4.



Sampling

1. Remove the Vapor Pin® Cap and connect your sample tubing to the barb fitting of the Vapor Pin® Sampling Device.
2. Create a connection by using a short piece of Tygon™ tubing to join the Vapor Pin® Sampling Device with the Nylaflow tubing (Figure 5). Put the Nylaflow tubing as close to the Vapor Pin® Sampling Device as possible to minimize contact between soil gas and Tygon™ tubing. You do not **have** to use Nylaflow tubing, any stiff tubing will suffice.
3. Prior to sampling, conduct a leak test in accordance with applicable guidance. If a leak test is not specified, refer to the SOP Leak Testing the Vapor Pin® Sampling Device, via Mechanical Means (Figure 6). For flush-mount installations, distilled water can be poured directly into the 1½ inch (38mm) hole.

Figure 5.



Figure 6.



Figure 7.



Extraction Procedure & Reuse Notes

1. Remove the protective cap, and thread the Installation/Extraction Tool onto the Vapor Pin® Sampling Device (Figure 7). Turn the tool clockwise continuously, don't stop turning, the Vapor Pin® Sampling Device will feed into the bottom of the Installation/Extraction Tool and will extract from the hole like a wine cork, **DO NOT PULL!**
2. Fill the void with hydraulic cement and smooth with a trowel or putty knife.
3. Prior to reuse, remove the silicon Vapor Pin® Sleeve and Vapor Pin® Cap and discard. Decontaminate the Vapor Pin® Sampling Device in a Alconox® solution, then heat in an oven to a temperature of 265° F (130°C). For Stainless – ½ hour, Brass 8 minutes.

VaporPin®

Standard Operating Procedure

Leak Testing the Vapor Pin® Sampling Device Via Water Dam

Scope & Purpose

Scope

The operating procedure describes the methodology to test a Vapor Pin® Sampling Device or equivalent sub-slab sampling device for leakage of indoor air.

Purpose

The purpose of this procedure is to assess the potential for indoor air to leak past the Vapor Pin® Sampling Device.

Equipment Needed

- Water Dam
- Distilled water
- VOC free modeling clay or equivalent
- Vapor Pin® Sampling Device and associated sample tubing

Procedure

1. Drill a 5/8-inch (16mm) hole in the concrete slab and install the Vapor Pin® Sampling Device as per the Standard Operating Procedure (SOP).
2. Clean the slab within a 2-inch radius of the Vapor Pin® Sampling Device to remove dust. Avoid wetting the concrete or wait until the concrete is dry before proceeding and avoid cleaning with VOC-containing substances. A whisk broom or shop vacuum is recommended. Remaining dust can be picked up with a piece of scrap modeling clay.
3. Roll a 1-inch diameter ball of modeling clay between your palms to form a “snake” approximately 7 inches long and press it against the end of the water dam. Push the water dam gently against the slab to form a seal with the concrete.
4. Attach the sample tubing to the top of the Vapor Pin® Sampling Device and pour enough distilled water into the water dam to immerse the base of the Vapor Pin® and the tubing connection at the top of the Vapor Pin® Sampling Device.
5. Purge the sample point as required by the data quality objectives. Concrete will absorb some of the water, which is normal; however, if water is lost to the sub-slab, stop, remove the water from the water dam, and reposition the Vapor Pin® Sampling Device to stop the leakage. Reseat the leak test equipment, if needed.
6. If the Vapor Pin® Sampling Device is installed in the flush-mount configuration, the larger hole can be filled with water in place of the water dam modeling clay.

Figure 1. Water dam used for leak detection



Attachment D – Laboratory Data Report





ANALYTICAL REPORT

Lab Number:	L2510462
Client:	Inventum Engineering 441 Carlisle Drive Suite C Herndon, NY 20170
ATTN:	Todd Waldrop
Phone:	(571) 752-6562
Project Name:	SOUTH BUFFALO DEVELOPMENT LLC
Project Number:	BUFFALO COLOR-AREA C
Report Date:	06/05/25

The original project report/data package is held by Pace Analytical Services. This report/data package is paginated and should be reproduced only in its entirety. Pace Analytical Services holds no responsibility for results and/or data that are not consistent with the original.

Certifications & Approvals: NH ELAP (2249).

120 Forbes Boulevard, Mansfield, MA 02048-1806
508-822-9300 (Fax) 508-822-3288 800-624-9220 - www.pacelabs.com



Project Name: SOUTH BUFFALO DEVELOPMENT LLC**Project Number:** BUFFALO COLOR-AREA C**Lab Number:** L2510462**Report Date:** 06/05/25

Lab Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2510462-01	AA-TESTPORT2-02252025	AIR	140 LEE STREET, BUFFALO	02/25/25 15:50	02/25/25
L2510462-02	SS-TESTPORT2-02252025	SOIL_VAPOR	140 LEE STREET, BUFFALO	02/25/25 15:43	02/25/25
L2510462-03	AA-TESTPORT3-02252025	AIR	140 LEE STREET, BUFFALO	02/25/25 14:29	02/25/25
L2510462-04	SS-TESTPORT3-02252025	SOIL_VAPOR	140 LEE STREET, BUFFALO	02/25/25 15:57	02/25/25
L2510462-05	AA-TESTPORT4-02252025	AIR	140 LEE STREET, BUFFALO	02/25/25 15:55	02/25/25
L2510462-06	SS-TESTPORT4-02252025	SOIL_VAPOR	140 LEE STREET, BUFFALO	02/25/25 15:56	02/25/25
L2510462-07	AA-TESTPORT5-02252025	AIR	140 LEE STREET, BUFFALO	02/25/25 15:59	02/25/25
L2510462-08	SS-TESTPORT5-02252025	SOIL_VAPOR	140 LEE STREET, BUFFALO	02/25/25 16:00	02/25/25
L2510462-09	AA-OUTDOOR-02252025	AIR	140 LEE STREET, BUFFALO	02/25/25 15:45	02/25/25
L2510462-10	AA-TESTPORT99-02252025	AIR	140 LEE STREET, BUFFALO	02/25/25 15:50	02/25/25
L2510462-11	SS-TESTPORT99-02252025	SOIL_VAPOR	140 LEE STREET, BUFFALO	02/25/25 15:51	02/25/25

Project Name: SOUTH BUFFALO DEVELOPMENT LLC
Project Number: BUFFALO COLOR-AREA C

Lab Number: L2510462
Report Date: 06/05/25

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Pace Lab Number and meet NELAP requirements for all NELAP accredited parameters unless otherwise noted in the following narrative. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. Tentatively Identified Compounds (TICs), if requested, are reported for compounds identified to be present and are not part of the method/program Target Compound List, even if only a subset of the TCL are being reported. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively.

When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances, the specific failure is not narrated but noted in the associated QC Outlier Summary Report, located directly after the Case Narrative. QC information is also incorporated in the Data Usability Assessment table (Format 11) of our Data Merger tool, where it can be reviewed in conjunction with the sample result, associated regulatory criteria and any associated data usability implications.

Soil/sediments and solids are reported on a dry weight basis unless otherwise noted. Tissues are reported "as received" or on a wet weight basis, unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

HOLD POLICY - For samples submitted on hold, Pace's policy is to hold samples (with the exception of Air canisters) free of charge for 21 calendar days from the date the project is completed. After 21 calendar days, we will dispose of all samples submitted including those put on hold unless you have contacted your Pace Project Manager and made arrangements for Pace to continue to hold the samples. Air canisters will be disposed after 3 business days from the date the project is completed.

Please contact Project Management at 800-624-9220 with any questions.

Project Name: SOUTH BUFFALO DEVELOPMENT LLC
Project Number: BUFFALO COLOR-AREA C

Lab Number: L2510462
Report Date: 06/05/25

Case Narrative (continued)

Report Revision

June 5, 2025 the report has been amended to report the full NY TO15 list for the L2510462-02 sample.

Volatile Organics in Air

Canisters were released from the laboratory on February 18 and 21, 2025. The canister certification data is provided as an addendum.

The WG2040290-3 LCS recovery associated with L2510462-01, -02, -03, -04, -06, -07, -08, -09, -10, and -11 is above the upper 130% acceptance limit for bromoform (136%). All samples associated with this LCS do not have reportable amounts of this analyte. The WG2040290-3 LCS recovery associated with L2510462-01, -02, -03, -04, -06, -07, -08, -09, -10, and -11 is below the acceptance limit for chloromethane and hexachlorobutadiene. All samples associated with this LCS that have reportable amounts of this analyte will be reporting with low bias. WG2040290-3: The [CCAL or LCS] associated with WG2040290-3 did not meet the acceptance criteria for the [full scan] analysis. The associated compound(s) for those samples were reported from the [SIM] analysis. The WG2042684-3 LCS recovery associated with L2510462-05 is above the upper 130% acceptance limit for bromodichloromethane (131%). All samples associated with this LCS do not have reportable amounts of this analyte.

The WG2042684-2 CC recovery associated with L2510462-05 is below acceptance limit for Isopropyl Alcohol. All samples associated with this CC that have reportable amounts of this analyte will be reported with low bias.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature:  Christopher J. Anderson

Title: Technical Director/Representative

Date: 06/05/25

AIR

Project Name: SOUTH BUFFALO DEVELOPMENT LLC**Lab Number:** L2510462**Project Number:** BUFFALO COLOR-AREA C**Report Date:** 06/05/25**SAMPLE RESULTS**

Lab ID: L2510462-01
 Client ID: AA-TESTPORT2-02252025
 Sample Location: 140 LEE STREET, BUFFALO

Date Collected: 02/25/25 15:50
 Date Received: 02/25/25
 Field Prep: Not Specified

Sample Depth:
 Matrix: Air
 Analytical Method: 48,TO-15
 Analytical Date: 03/13/25 20:02
 Analyst: TPH

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Air Lab								
Dichlorodifluoromethane	0.471	0.200	--	2.33	0.989	--		1
Chloromethane	0.376	0.200	--	0.776	0.413	--		1
Freon-114	ND	0.200	--	ND	1.40	--		1
1,3-Butadiene	0.242	0.200	--	0.535	0.442	--		1
Bromomethane	ND	0.200	--	ND	0.777	--		1
Chloroethane	ND	0.200	--	ND	0.528	--		1
Ethanol	332	5.00	--	626	9.42	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acetone	22.2	1.00	--	52.7	2.38	--		1
Trichlorofluoromethane	0.224	0.200	--	1.26	1.12	--		1
Isopropanol	5.38	1.00	--	13.2	2.46	--		1
Tertiary butyl Alcohol	0.638	0.500	--	1.93	1.52	--		1
Methylene chloride	2.81	0.500	--	9.76	1.74	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	ND	0.200	--	ND	0.623	--		1
Freon-113	ND	0.200	--	ND	1.53	--		1
trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
1,1-Dichloroethane	ND	0.200	--	ND	0.809	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
2-Butanone	3.32	0.500	--	9.79	1.47	--		1
Ethyl Acetate	1.03	0.500	--	3.71	1.80	--		1
Chloroform	ND	0.200	--	ND	0.977	--		1
Tetrahydrofuran	3.39	0.500	--	10.0	1.47	--		1



Project Name: SOUTH BUFFALO DEVELOPMENT LLC**Lab Number:** L2510462**Project Number:** BUFFALO COLOR-AREA C**Report Date:** 06/05/25**SAMPLE RESULTS**

Lab ID: L2510462-01

Date Collected: 02/25/25 15:50

Client ID: AA-TESTPORT2-02252025

Date Received: 02/25/25

Sample Location: 140 LEE STREET, BUFFALO

Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Air Lab								
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1
n-Hexane	0.533	0.200	--	1.88	0.705	--		1
Benzene	0.710	0.200	--	2.27	0.639	--		1
Cyclohexane	0.398	0.200	--	1.37	0.688	--		1
1,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
Bromodichloromethane	ND	0.200	--	ND	1.34	--		1
1,4-Dioxane	ND	0.200	--	ND	0.721	--		1
2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--		1
Heptane	0.413	0.200	--	1.69	0.820	--		1
cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Toluene	0.374	0.200	--	1.41	0.754	--		1
2-Hexanone	ND	0.200	--	ND	0.820	--		1
Dibromochloromethane	ND	0.200	--	ND	1.70	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1
Chlorobenzene	ND	0.200	--	ND	0.921	--		1
Ethylbenzene	2.03	0.200	--	8.82	0.869	--		1
p/m-Xylene	6.82	0.400	--	29.6	1.74	--		1
Bromoform	ND	0.200	--	ND	2.07	--		1
Styrene	ND	0.200	--	ND	0.852	--		1
1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
o-Xylene	1.42	0.200	--	6.17	0.869	--		1
4-Ethyltoluene	0.222	0.200	--	1.09	0.983	--		1
1,3,5-Trimethylbenzene	0.251	0.200	--	1.23	0.983	--		1



Project Name: SOUTH BUFFALO DEVELOPMENT LLC**Lab Number:** L2510462**Project Number:** BUFFALO COLOR-AREA C**Report Date:** 06/05/25**SAMPLE RESULTS**

Lab ID: L2510462-01

Date Collected: 02/25/25 15:50

Client ID: AA-TESTPORT2-02252025

Date Received: 02/25/25

Sample Location: 140 LEE STREET, BUFFALO

Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Air Lab								
1,2,4-Trimethylbenzene	0.638	0.200	--	3.14	0.983	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	92		60-140
Bromochloromethane	93		60-140
chlorobenzene-d5	90		60-140



Project Name: SOUTH BUFFALO DEVELOPMENT LLC**Lab Number:** L2510462**Project Number:** BUFFALO COLOR-AREA C**Report Date:** 06/05/25**SAMPLE RESULTS**

Lab ID: L2510462-01
 Client ID: AA-TESTPORT2-02252025
 Sample Location: 140 LEE STREET, BUFFALO

Date Collected: 02/25/25 15:50
 Date Received: 02/25/25
 Field Prep: Not Specified

Sample Depth:
 Matrix: Air
 Analytical Method: 48,TO-15-SIM
 Analytical Date: 03/13/25 20:02
 Analyst: TPH

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Air Lab								
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1,1-Trichloroethane	0.079	0.020	--	0.431	0.109	--		1
Carbon tetrachloride	0.069	0.020	--	0.434	0.126	--		1
Trichloroethene	ND	0.020	--	ND	0.107	--		1
Tetrachloroethene	18.1	0.020	--	123	0.136	--		1
1,2,4-Trichlorobenzene	ND	0.050	--	ND	0.371	--		1
Naphthalene	0.196	0.050	--	1.03	0.262	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-difluorobenzene	102		60-140
bromochloromethane	96		60-140
chlorobenzene-d5	98		60-140



Project Name: SOUTH BUFFALO DEVELOPMENT LLC**Lab Number:** L2510462**Project Number:** BUFFALO COLOR-AREA C**Report Date:** 06/05/25**SAMPLE RESULTS**

Lab ID: L2510462-02
 Client ID: SS-TESTPORT2-02252025
 Sample Location: 140 LEE STREET, BUFFALO

Date Collected: 02/25/25 15:43
 Date Received: 02/25/25
 Field Prep: Not Specified

Sample Depth:
 Matrix: Soil_Vapor
 Analytical Method: 48,TO-15
 Analytical Date: 03/14/25 00:41
 Analyst: TPH

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Air Lab								
Dichlorodifluoromethane	0.480	0.200	--	2.37	0.989	--		1
Chloromethane	0.424	0.200	--	0.876	0.413	--		1
Freon-114	ND	0.200	--	ND	1.40	--		1
Vinyl chloride	ND	0.200	--	ND	0.511	--		1
1,3-Butadiene	0.232	0.200	--	0.513	0.442	--		1
Bromomethane	ND	0.200	--	ND	0.777	--		1
Chloroethane	ND	0.200	--	ND	0.528	--		1
Ethanol	426	5.00	--	803	9.42	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acetone	24.6	1.00	--	58.4	2.38	--		1
Trichlorofluoromethane	0.218	0.200	--	1.23	1.12	--		1
Isopropanol	3.42	1.00	--	8.41	2.46	--		1
1,1-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Tertiary butyl Alcohol	0.659	0.500	--	2.00	1.52	--		1
Methylene chloride	3.02	0.500	--	10.5	1.74	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	ND	0.200	--	ND	0.623	--		1
Freon-113	ND	0.200	--	ND	1.53	--		1
trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
1,1-Dichloroethane	ND	0.200	--	ND	0.809	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
2-Butanone	4.00	0.500	--	11.8	1.47	--		1
cis-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1



Project Name: SOUTH BUFFALO DEVELOPMENT LLC**Lab Number:** L2510462**Project Number:** BUFFALO COLOR-AREA C**Report Date:** 06/05/25**SAMPLE RESULTS**

Lab ID: L2510462-02

Date Collected: 02/25/25 15:43

Client ID: SS-TESTPORT2-02252025

Date Received: 02/25/25

Sample Location: 140 LEE STREET, BUFFALO

Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Air Lab								
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1
Chloroform	ND	0.200	--	ND	0.977	--		1
Tetrahydrofuran	2.66	0.500	--	7.85	1.47	--		1
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1
n-Hexane	0.930	0.200	--	3.28	0.705	--		1
1,1,1-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Benzene	0.651	0.200	--	2.08	0.639	--		1
Carbon tetrachloride	ND	0.200	--	ND	1.26	--		1
Cyclohexane	0.573	0.200	--	1.97	0.688	--		1
1,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
Bromodichloromethane	ND	0.200	--	ND	1.34	--		1
1,4-Dioxane	ND	0.200	--	ND	0.721	--		1
Trichloroethene	ND	0.200	--	ND	1.07	--		1
2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--		1
Heptane	0.620	0.200	--	2.54	0.820	--		1
cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Toluene	0.482	0.200	--	1.82	0.754	--		1
2-Hexanone	1.01	0.200	--	4.14	0.820	--		1
Dibromochloromethane	ND	0.200	--	ND	1.70	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1
Tetrachloroethene	12.4	0.200	--	84.1	1.36	--		1
Chlorobenzene	ND	0.200	--	ND	0.921	--		1
Ethylbenzene	1.07	0.200	--	4.65	0.869	--		1



Project Name: SOUTH BUFFALO DEVELOPMENT LLC**Lab Number:** L2510462**Project Number:** BUFFALO COLOR-AREA C**Report Date:** 06/05/25**SAMPLE RESULTS**

Lab ID: L2510462-02

Date Collected: 02/25/25 15:43

Client ID: SS-TESTPORT2-02252025

Date Received: 02/25/25

Sample Location: 140 LEE STREET, BUFFALO

Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Air Lab								
p/m-Xylene	2.62	0.400	--	11.4	1.74	--		1
Bromoform	ND	0.200	--	ND	2.07	--		1
Styrene	ND	0.200	--	ND	0.852	--		1
1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
o-Xylene	0.544	0.200	--	2.36	0.869	--		1
4-Ethyltoluene	ND	0.200	--	ND	0.983	--		1
1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
1,2,4-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Naphthalene	ND	0.190	--	ND	0.996	--		1
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	83		60-140
Bromochloromethane	88		60-140
chlorobenzene-d5	78		60-140



Project Name: SOUTH BUFFALO DEVELOPMENT LLC**Lab Number:** L2510462**Project Number:** BUFFALO COLOR-AREA C**Report Date:** 06/05/25**SAMPLE RESULTS**

Lab ID: L2510462-02

Client ID: SS-TESTPORT2-02252025

Sample Location: 140 LEE STREET, BUFFALO

Date Collected: 02/25/25 15:43

Date Received: 02/25/25

Field Prep: Not Specified

Sample Depth:

Matrix: Soil_Vapor

Analytical Method: 48,TO-15-SIM

Analytical Date: 03/14/25 00:41

Analyst: TPH

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Air Lab								
1,2,4-Trichlorobenzene	ND	0.050	--	ND	0.371	--		1
Naphthalene	0.115	0.050	--	0.603	0.262	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-difluorobenzene	91		60-140
bromochloromethane	91		60-140
chlorobenzene-d5	85		60-140



Project Name: SOUTH BUFFALO DEVELOPMENT LLC**Lab Number:** L2510462**Project Number:** BUFFALO COLOR-AREA C**Report Date:** 06/05/25**SAMPLE RESULTS**

Lab ID: L2510462-03
 Client ID: AA-TESTPORT3-02252025
 Sample Location: 140 LEE STREET, BUFFALO

Date Collected: 02/25/25 14:29
 Date Received: 02/25/25
 Field Prep: Not Specified

Sample Depth:
 Matrix: Air
 Analytical Method: 48,TO-15
 Analytical Date: 03/13/25 20:42
 Analyst: TPH

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Air Lab								
Dichlorodifluoromethane	0.481	0.200	--	2.38	0.989	--		1
Chloromethane	0.397	0.200	--	0.820	0.413	--		1
Freon-114	ND	0.200	--	ND	1.40	--		1
1,3-Butadiene	0.270	0.200	--	0.597	0.442	--		1
Bromomethane	ND	0.200	--	ND	0.777	--		1
Chloroethane	ND	0.200	--	ND	0.528	--		1
Ethanol	320	5.00	--	603	9.42	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acetone	14.0	1.00	--	33.3	2.38	--		1
Trichlorofluoromethane	0.217	0.200	--	1.22	1.12	--		1
Isopropanol	1.59	1.00	--	3.91	2.46	--		1
Tertiary butyl Alcohol	0.529	0.500	--	1.60	1.52	--		1
Methylene chloride	3.18	0.500	--	11.0	1.74	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	ND	0.200	--	ND	0.623	--		1
Freon-113	ND	0.200	--	ND	1.53	--		1
trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
1,1-Dichloroethane	ND	0.200	--	ND	0.809	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
2-Butanone	2.15	0.500	--	6.34	1.47	--		1
Ethyl Acetate	0.831	0.500	--	2.99	1.80	--		1
Chloroform	ND	0.200	--	ND	0.977	--		1
Tetrahydrofuran	3.01	0.500	--	8.88	1.47	--		1



Project Name: SOUTH BUFFALO DEVELOPMENT LLC**Lab Number:** L2510462**Project Number:** BUFFALO COLOR-AREA C**Report Date:** 06/05/25**SAMPLE RESULTS**

Lab ID: L2510462-03

Date Collected: 02/25/25 14:29

Client ID: AA-TESTPORT3-02252025

Date Received: 02/25/25

Sample Location: 140 LEE STREET, BUFFALO

Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Air Lab								
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1
n-Hexane	0.533	0.200	--	1.88	0.705	--		1
Benzene	0.727	0.200	--	2.32	0.639	--		1
Cyclohexane	0.411	0.200	--	1.41	0.688	--		1
1,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
Bromodichloromethane	ND	0.200	--	ND	1.34	--		1
1,4-Dioxane	ND	0.200	--	ND	0.721	--		1
2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--		1
Heptane	0.417	0.200	--	1.71	0.820	--		1
cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Toluene	0.318	0.200	--	1.20	0.754	--		1
2-Hexanone	0.339	0.200	--	1.39	0.820	--		1
Dibromochloromethane	ND	0.200	--	ND	1.70	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1
Chlorobenzene	ND	0.200	--	ND	0.921	--		1
Ethylbenzene	2.30	0.200	--	9.99	0.869	--		1
p/m-Xylene	7.57	0.400	--	32.9	1.74	--		1
Bromoform	ND	0.200	--	ND	2.07	--		1
Styrene	ND	0.200	--	ND	0.852	--		1
1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
o-Xylene	1.51	0.200	--	6.56	0.869	--		1
4-Ethyltoluene	ND	0.200	--	ND	0.983	--		1
1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1



Project Name: SOUTH BUFFALO DEVELOPMENT LLC**Lab Number:** L2510462**Project Number:** BUFFALO COLOR-AREA C**Report Date:** 06/05/25**SAMPLE RESULTS**

Lab ID: L2510462-03

Date Collected: 02/25/25 14:29

Client ID: AA-TESTPORT3-02252025

Date Received: 02/25/25

Sample Location: 140 LEE STREET, BUFFALO

Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Air Lab								
1,2,4-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	87		60-140
Bromochloromethane	92		60-140
chlorobenzene-d5	85		60-140



Project Name: SOUTH BUFFALO DEVELOPMENT LLC**Lab Number:** L2510462**Project Number:** BUFFALO COLOR-AREA C**Report Date:** 06/05/25**SAMPLE RESULTS**

Lab ID: L2510462-03
 Client ID: AA-TESTPORT3-02252025
 Sample Location: 140 LEE STREET, BUFFALO

Date Collected: 02/25/25 14:29
 Date Received: 02/25/25
 Field Prep: Not Specified

Sample Depth:
 Matrix: Air
 Analytical Method: 48,TO-15-SIM
 Analytical Date: 03/13/25 20:42
 Analyst: TPH

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Air Lab								
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1,1-Trichloroethane	0.091	0.020	--	0.496	0.109	--		1
Carbon tetrachloride	0.076	0.020	--	0.478	0.126	--		1
Trichloroethene	ND	0.020	--	ND	0.107	--		1
Tetrachloroethene	19.6	0.020	--	133	0.136	--		1
1,2,4-Trichlorobenzene	ND	0.050	--	ND	0.371	--		1
Naphthalene	0.255	0.050	--	1.34	0.262	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-difluorobenzene	96		60-140
bromochloromethane	96		60-140
chlorobenzene-d5	93		60-140



Project Name: SOUTH BUFFALO DEVELOPMENT LLC**Lab Number:** L2510462**Project Number:** BUFFALO COLOR-AREA C**Report Date:** 06/05/25**SAMPLE RESULTS**

Lab ID: L2510462-04
 Client ID: SS-TESTPORT3-02252025
 Sample Location: 140 LEE STREET, BUFFALO

Date Collected: 02/25/25 15:57
 Date Received: 02/25/25
 Field Prep: Not Specified

Sample Depth:
 Matrix: Soil_Vapor
 Analytical Method: 48,TO-15
 Analytical Date: 03/14/25 01:20
 Analyst: TPH

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Air Lab								
Dichlorodifluoromethane	0.461	0.200	--	2.28	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
Freon-114	ND	0.200	--	ND	1.40	--		1
Vinyl chloride	ND	0.200	--	ND	0.511	--		1
1,3-Butadiene	0.229	0.200	--	0.507	0.442	--		1
Bromomethane	ND	0.200	--	ND	0.777	--		1
Chloroethane	ND	0.200	--	ND	0.528	--		1
Ethanol	26.0	5.00	--	49.0	9.42	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acetone	55.4	1.00	--	132	2.38	--		1
Trichlorofluoromethane	ND	0.200	--	ND	1.12	--		1
Isopropanol	18.4	1.00	--	45.2	2.46	--		1
1,1-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Tertiary butyl Alcohol	1.54	0.500	--	4.67	1.52	--		1
Methylene chloride	0.932	0.500	--	3.24	1.74	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	0.259	0.200	--	0.807	0.623	--		1
Freon-113	ND	0.200	--	ND	1.53	--		1
trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
1,1-Dichloroethane	ND	0.200	--	ND	0.809	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
2-Butanone	16.7	0.500	--	49.3	1.47	--		1
cis-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1



Project Name: SOUTH BUFFALO DEVELOPMENT LLC**Lab Number:** L2510462**Project Number:** BUFFALO COLOR-AREA C**Report Date:** 06/05/25**SAMPLE RESULTS**

Lab ID: L2510462-04

Date Collected: 02/25/25 15:57

Client ID: SS-TESTPORT3-02252025

Date Received: 02/25/25

Sample Location: 140 LEE STREET, BUFFALO

Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Air Lab								
Ethyl Acetate	2.13	0.500	--	7.68	1.80	--		1
Chloroform	1.34	0.200	--	6.54	0.977	--		1
Tetrahydrofuran	0.900	0.500	--	2.65	1.47	--		1
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1
n-Hexane	5.06	0.200	--	17.8	0.705	--		1
1,1,1-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Benzene	0.692	0.200	--	2.21	0.639	--		1
Carbon tetrachloride	ND	0.200	--	ND	1.26	--		1
Cyclohexane	ND	0.200	--	ND	0.688	--		1
1,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
Bromodichloromethane	0.445	0.200	--	2.98	1.34	--		1
1,4-Dioxane	ND	0.200	--	ND	0.721	--		1
Trichloroethene	ND	0.200	--	ND	1.07	--		1
2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--		1
Heptane	0.442	0.200	--	1.81	0.820	--		1
cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
4-Methyl-2-pentanone	0.734	0.500	--	3.01	2.05	--		1
trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Toluene	0.374	0.200	--	1.41	0.754	--		1
2-Hexanone	2.74	0.200	--	11.2	0.820	--		1
Dibromochloromethane	ND	0.200	--	ND	1.70	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1
Tetrachloroethene	9.88	0.200	--	67.0	1.36	--		1
Chlorobenzene	ND	0.200	--	ND	0.921	--		1
Ethylbenzene	ND	0.200	--	ND	0.869	--		1



Project Name: SOUTH BUFFALO DEVELOPMENT LLC
Project Number: BUFFALO COLOR-AREA C

Lab Number: L2510462
Report Date: 06/05/25

SAMPLE RESULTS

Lab ID: L2510462-04
 Client ID: SS-TESTPORT3-02252025
 Sample Location: 140 LEE STREET, BUFFALO

Date Collected: 02/25/25 15:57
 Date Received: 02/25/25
 Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Air Lab								
p/m-Xylene	0.702	0.400	--	3.05	1.74	--		1
Bromoform	ND	0.200	--	ND	2.07	--		1
Styrene	ND	0.200	--	ND	0.852	--		1
1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
o-Xylene	0.211	0.200	--	0.916	0.869	--		1
4-Ethyltoluene	ND	0.200	--	ND	0.983	--		1
1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
1,2,4-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	91		60-140
Bromochloromethane	93		60-140
chlorobenzene-d5	84		60-140



Project Name: SOUTH BUFFALO DEVELOPMENT LLC**Lab Number:** L2510462**Project Number:** BUFFALO COLOR-AREA C**Report Date:** 06/05/25**SAMPLE RESULTS**

Lab ID: L2510462-04
 Client ID: SS-TESTPORT3-02252025
 Sample Location: 140 LEE STREET, BUFFALO

Date Collected: 02/25/25 15:57
 Date Received: 02/25/25
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil_Vapor
 Analytical Method: 48,TO-15-SIM
 Analytical Date: 03/14/25 01:20
 Analyst: TPH

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Air Lab								
1,2,4-Trichlorobenzene	ND	0.050	--	ND	0.371	--		1
Naphthalene	0.088	0.050	--	0.461	0.262	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-difluorobenzene	100		60-140
bromochloromethane	96		60-140
chlorobenzene-d5	91		60-140



Project Name: SOUTH BUFFALO DEVELOPMENT LLC**Lab Number:** L2510462**Project Number:** BUFFALO COLOR-AREA C**Report Date:** 06/05/25**SAMPLE RESULTS**

Lab ID: L2510462-05
 Client ID: AA-TESTPORT4-02252025
 Sample Location: 140 LEE STREET, BUFFALO

Date Collected: 02/25/25 15:55
 Date Received: 02/25/25
 Field Prep: Not Specified

Sample Depth:
 Matrix: Air
 Analytical Method: 48,TO-15
 Analytical Date: 03/20/25 11:46
 Analyst: KJD

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Air Lab								
Dichlorodifluoromethane	0.536	0.200	--	2.65	0.989	--		1
Chloromethane	0.537	0.200	--	1.11	0.413	--		1
Freon-114	ND	0.200	--	ND	1.40	--		1
1,3-Butadiene	0.257	0.200	--	0.569	0.442	--		1
Bromomethane	ND	0.200	--	ND	0.777	--		1
Chloroethane	ND	0.200	--	ND	0.528	--		1
Ethanol	237	5.00	--	447	9.42	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acetone	16.4	1.00	--	39.0	2.38	--		1
Trichlorofluoromethane	0.311	0.200	--	1.75	1.12	--		1
Isopropanol	1.75	1.00	--	4.30	2.46	--		1
Tertiary butyl Alcohol	ND	0.500	--	ND	1.52	--		1
Methylene chloride	5.08	0.500	--	17.6	1.74	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	ND	0.200	--	ND	0.623	--		1
Freon-113	ND	0.200	--	ND	1.53	--		1
trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
1,1-Dichloroethane	ND	0.200	--	ND	0.809	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
2-Butanone	2.38	0.500	--	7.02	1.47	--		1
Ethyl Acetate	0.874	0.500	--	3.15	1.80	--		1
Chloroform	ND	0.200	--	ND	0.977	--		1
Tetrahydrofuran	3.72	0.500	--	11.0	1.47	--		1



Project Name: SOUTH BUFFALO DEVELOPMENT LLC**Lab Number:** L2510462**Project Number:** BUFFALO COLOR-AREA C**Report Date:** 06/05/25**SAMPLE RESULTS**

Lab ID: L2510462-05

Date Collected: 02/25/25 15:55

Client ID: AA-TESTPORT4-02252025

Date Received: 02/25/25

Sample Location: 140 LEE STREET, BUFFALO

Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Air Lab								
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1
n-Hexane	0.556	0.200	--	1.96	0.705	--		1
Benzene	0.659	0.200	--	2.11	0.639	--		1
Cyclohexane	0.296	0.200	--	1.02	0.688	--		1
1,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
Bromodichloromethane	ND	0.200	--	ND	1.34	--		1
1,4-Dioxane	ND	0.200	--	ND	0.721	--		1
2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--		1
Heptane	0.341	0.200	--	1.40	0.820	--		1
cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Toluene	0.272	0.200	--	1.03	0.754	--		1
2-Hexanone	ND	0.200	--	ND	0.820	--		1
Dibromochloromethane	ND	0.200	--	ND	1.70	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1
Chlorobenzene	ND	0.200	--	ND	0.921	--		1
Ethylbenzene	1.77	0.200	--	7.69	0.869	--		1
p/m-Xylene	6.30	0.400	--	27.4	1.74	--		1
Bromoform	ND	0.200	--	ND	2.07	--		1
Styrene	ND	0.200	--	ND	0.852	--		1
1,1,1,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
o-Xylene	1.10	0.200	--	4.78	0.869	--		1
4-Ethyltoluene	ND	0.200	--	ND	0.983	--		1
1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1



Project Name: SOUTH BUFFALO DEVELOPMENT LLC**Lab Number:** L2510462**Project Number:** BUFFALO COLOR-AREA C**Report Date:** 06/05/25**SAMPLE RESULTS**

Lab ID: L2510462-05

Date Collected: 02/25/25 15:55

Client ID: AA-TESTPORT4-02252025

Date Received: 02/25/25

Sample Location: 140 LEE STREET, BUFFALO

Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Air Lab								
1,2,4-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Naphthalene	ND	0.190	--	ND	0.996	--		1
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	91		60-140
Bromochloromethane	89		60-140
chlorobenzene-d5	85		60-140



Project Name: SOUTH BUFFALO DEVELOPMENT LLC**Lab Number:** L2510462**Project Number:** BUFFALO COLOR-AREA C**Report Date:** 06/05/25**SAMPLE RESULTS**

Lab ID: L2510462-05
 Client ID: AA-TESTPORT4-02252025
 Sample Location: 140 LEE STREET, BUFFALO

Date Collected: 02/25/25 15:55
 Date Received: 02/25/25
 Field Prep: Not Specified

Sample Depth:
 Matrix: Air
 Analytical Method: 48,TO-15-SIM
 Analytical Date: 03/20/25 11:46
 Analyst: KJD

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Air Lab								
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
cis-1,2-Dichloroethene	0.021	0.020	--	0.083	0.079	--		1
1,1,1-Trichloroethane	0.098	0.020	--	0.535	0.109	--		1
Carbon tetrachloride	0.083	0.020	--	0.522	0.126	--		1
Trichloroethene	0.024	0.020	--	0.129	0.107	--		1
Tetrachloroethene	18.2	0.020	--	123	0.136	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-difluorobenzene	91		60-140
bromochloromethane	91		60-140
chlorobenzene-d5	85		60-140



Project Name: SOUTH BUFFALO DEVELOPMENT LLC**Lab Number:** L2510462**Project Number:** BUFFALO COLOR-AREA C**Report Date:** 06/05/25**SAMPLE RESULTS**

Lab ID: L2510462-06
 Client ID: SS-TESTPORT4-02252025
 Sample Location: 140 LEE STREET, BUFFALO

Date Collected: 02/25/25 15:56
 Date Received: 02/25/25
 Field Prep: Not Specified

Sample Depth:
 Matrix: Soil_Vapor
 Analytical Method: 48,TO-15
 Analytical Date: 03/14/25 02:01
 Analyst: TPH

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Air Lab								
Dichlorodifluoromethane	0.479	0.200	--	2.37	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
Freon-114	ND	0.200	--	ND	1.40	--		1
Vinyl chloride	ND	0.200	--	ND	0.511	--		1
1,3-Butadiene	ND	0.200	--	ND	0.442	--		1
Bromomethane	ND	0.200	--	ND	0.777	--		1
Chloroethane	ND	0.200	--	ND	0.528	--		1
Ethanol	19.5	5.00	--	36.7	9.42	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acetone	8.64	1.00	--	20.5	2.38	--		1
Trichlorofluoromethane	0.207	0.200	--	1.16	1.12	--		1
Isopropanol	2.14	1.00	--	5.26	2.46	--		1
1,1-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Tertiary butyl Alcohol	ND	0.500	--	ND	1.52	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	ND	0.200	--	ND	0.623	--		1
Freon-113	ND	0.200	--	ND	1.53	--		1
trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
1,1-Dichloroethane	ND	0.200	--	ND	0.809	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
2-Butanone	3.16	0.500	--	9.32	1.47	--		1
cis-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1



Project Name: SOUTH BUFFALO DEVELOPMENT LLC**Lab Number:** L2510462**Project Number:** BUFFALO COLOR-AREA C**Report Date:** 06/05/25**SAMPLE RESULTS**

Lab ID: L2510462-06

Date Collected: 02/25/25 15:56

Client ID: SS-TESTPORT4-02252025

Date Received: 02/25/25

Sample Location: 140 LEE STREET, BUFFALO

Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Air Lab								
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1
Chloroform	ND	0.200	--	ND	0.977	--		1
Tetrahydrofuran	0.925	0.500	--	2.73	1.47	--		1
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1
n-Hexane	0.549	0.200	--	1.93	0.705	--		1
1,1,1-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Benzene	0.653	0.200	--	2.09	0.639	--		1
Carbon tetrachloride	ND	0.200	--	ND	1.26	--		1
Cyclohexane	ND	0.200	--	ND	0.688	--		1
1,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
Bromodichloromethane	ND	0.200	--	ND	1.34	--		1
1,4-Dioxane	ND	0.200	--	ND	0.721	--		1
Trichloroethene	ND	0.200	--	ND	1.07	--		1
2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--		1
Heptane	ND	0.200	--	ND	0.820	--		1
cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Toluene	0.622	0.200	--	2.34	0.754	--		1
2-Hexanone	2.08	0.200	--	8.52	0.820	--		1
Dibromochloromethane	ND	0.200	--	ND	1.70	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1
Tetrachloroethene	13.0	0.200	--	88.2	1.36	--		1
Chlorobenzene	ND	0.200	--	ND	0.921	--		1
Ethylbenzene	0.258	0.200	--	1.12	0.869	--		1



Project Name: SOUTH BUFFALO DEVELOPMENT LLC**Lab Number:** L2510462**Project Number:** BUFFALO COLOR-AREA C**Report Date:** 06/05/25**SAMPLE RESULTS**

Lab ID: L2510462-06

Date Collected: 02/25/25 15:56

Client ID: SS-TESTPORT4-02252025

Date Received: 02/25/25

Sample Location: 140 LEE STREET, BUFFALO

Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Air Lab								
p/m-Xylene	0.843	0.400	--	3.66	1.74	--		1
Bromoform	ND	0.200	--	ND	2.07	--		1
Styrene	ND	0.200	--	ND	0.852	--		1
1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
o-Xylene	0.213	0.200	--	0.925	0.869	--		1
4-Ethyltoluene	ND	0.200	--	ND	0.983	--		1
1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
1,2,4-Trimethylbenzene	0.251	0.200	--	1.23	0.983	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	81		60-140
Bromochloromethane	87		60-140
chlorobenzene-d5	73		60-140



Project Name: SOUTH BUFFALO DEVELOPMENT LLC**Lab Number:** L2510462**Project Number:** BUFFALO COLOR-AREA C**Report Date:** 06/05/25**SAMPLE RESULTS**

Lab ID: L2510462-06
 Client ID: SS-TESTPORT4-02252025
 Sample Location: 140 LEE STREET, BUFFALO

Date Collected: 02/25/25 15:56
 Date Received: 02/25/25
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil_Vapor
 Analytical Method: 48,TO-15-SIM
 Analytical Date: 03/14/25 02:01
 Analyst: TPH

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Air Lab								
1,2,4-Trichlorobenzene	ND	0.050	--	ND	0.371	--		1
Naphthalene	0.220	0.050	--	1.15	0.262	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-difluorobenzene	90		60-140
bromochloromethane	90		60-140
chlorobenzene-d5	81		60-140



Project Name: SOUTH BUFFALO DEVELOPMENT LLC**Lab Number:** L2510462**Project Number:** BUFFALO COLOR-AREA C**Report Date:** 06/05/25**SAMPLE RESULTS**

Lab ID: L2510462-07
 Client ID: AA-TESTPORT5-02252025
 Sample Location: 140 LEE STREET, BUFFALO

Date Collected: 02/25/25 15:59
 Date Received: 02/25/25
 Field Prep: Not Specified

Sample Depth:
 Matrix: Air
 Analytical Method: 48,TO-15
 Analytical Date: 03/13/25 22:01
 Analyst: TPH

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Air Lab								
Dichlorodifluoromethane	0.472	0.200	--	2.33	0.989	--		1
Chloromethane	0.447	0.200	--	0.923	0.413	--		1
Freon-114	ND	0.200	--	ND	1.40	--		1
1,3-Butadiene	0.289	0.200	--	0.639	0.442	--		1
Bromomethane	ND	0.200	--	ND	0.777	--		1
Chloroethane	ND	0.200	--	ND	0.528	--		1
Ethanol	268	5.00	--	505	9.42	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acetone	11.1	1.00	--	26.4	2.38	--		1
Trichlorofluoromethane	0.208	0.200	--	1.17	1.12	--		1
Isopropanol	1.90	1.00	--	4.67	2.46	--		1
Tertiary butyl Alcohol	ND	0.500	--	ND	1.52	--		1
Methylene chloride	2.15	0.500	--	7.47	1.74	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	ND	0.200	--	ND	0.623	--		1
Freon-113	ND	0.200	--	ND	1.53	--		1
trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
1,1-Dichloroethane	ND	0.200	--	ND	0.809	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
2-Butanone	1.64	0.500	--	4.84	1.47	--		1
Ethyl Acetate	1.44	0.500	--	5.19	1.80	--		1
Chloroform	ND	0.200	--	ND	0.977	--		1
Tetrahydrofuran	2.45	0.500	--	7.23	1.47	--		1



Project Name: SOUTH BUFFALO DEVELOPMENT LLC**Lab Number:** L2510462**Project Number:** BUFFALO COLOR-AREA C**Report Date:** 06/05/25**SAMPLE RESULTS**

Lab ID: L2510462-07

Date Collected: 02/25/25 15:59

Client ID: AA-TESTPORT5-02252025

Date Received: 02/25/25

Sample Location: 140 LEE STREET, BUFFALO

Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Air Lab								
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1
n-Hexane	0.577	0.200	--	2.03	0.705	--		1
Benzene	0.818	0.200	--	2.61	0.639	--		1
Cyclohexane	0.300	0.200	--	1.03	0.688	--		1
1,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
Bromodichloromethane	ND	0.200	--	ND	1.34	--		1
1,4-Dioxane	ND	0.200	--	ND	0.721	--		1
2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--		1
Heptane	0.376	0.200	--	1.54	0.820	--		1
cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Toluene	0.440	0.200	--	1.66	0.754	--		1
2-Hexanone	ND	0.200	--	ND	0.820	--		1
Dibromochloromethane	ND	0.200	--	ND	1.70	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1
Chlorobenzene	ND	0.200	--	ND	0.921	--		1
Ethylbenzene	1.50	0.200	--	6.52	0.869	--		1
p/m-Xylene	4.77	0.400	--	20.7	1.74	--		1
Bromoform	ND	0.200	--	ND	2.07	--		1
Styrene	ND	0.200	--	ND	0.852	--		1
1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
o-Xylene	0.963	0.200	--	4.18	0.869	--		1
4-Ethyltoluene	ND	0.200	--	ND	0.983	--		1
1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1



Project Name: SOUTH BUFFALO DEVELOPMENT LLC**Lab Number:** L2510462**Project Number:** BUFFALO COLOR-AREA C**Report Date:** 06/05/25**SAMPLE RESULTS**

Lab ID: L2510462-07

Date Collected: 02/25/25 15:59

Client ID: AA-TESTPORT5-02252025

Date Received: 02/25/25

Sample Location: 140 LEE STREET, BUFFALO

Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Air Lab								
1,2,4-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	88		60-140
Bromochloromethane	93		60-140
chlorobenzene-d5	83		60-140



Project Name: SOUTH BUFFALO DEVELOPMENT LLC**Lab Number:** L2510462**Project Number:** BUFFALO COLOR-AREA C**Report Date:** 06/05/25**SAMPLE RESULTS**

Lab ID: L2510462-07
 Client ID: AA-TESTPORT5-02252025
 Sample Location: 140 LEE STREET, BUFFALO

Date Collected: 02/25/25 15:59
 Date Received: 02/25/25
 Field Prep: Not Specified

Sample Depth:
 Matrix: Air
 Analytical Method: 48,TO-15-SIM
 Analytical Date: 03/13/25 22:01
 Analyst: TPH

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Air Lab								
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1,1-Trichloroethane	0.057	0.020	--	0.311	0.109	--		1
Carbon tetrachloride	0.068	0.020	--	0.428	0.126	--		1
Trichloroethene	ND	0.020	--	ND	0.107	--		1
Tetrachloroethene	15.3	0.020	--	104	0.136	--		1
1,2,4-Trichlorobenzene	ND	0.050	--	ND	0.371	--		1
Naphthalene	0.089	0.050	--	0.467	0.262	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-difluorobenzene	97		60-140
bromochloromethane	95		60-140
chlorobenzene-d5	91		60-140



Project Name: SOUTH BUFFALO DEVELOPMENT LLC**Lab Number:** L2510462**Project Number:** BUFFALO COLOR-AREA C**Report Date:** 06/05/25**SAMPLE RESULTS**

Lab ID: L2510462-08
 Client ID: SS-TESTPORT5-02252025
 Sample Location: 140 LEE STREET, BUFFALO

Date Collected: 02/25/25 16:00
 Date Received: 02/25/25
 Field Prep: Not Specified

Sample Depth:
 Matrix: Soil_Vapor
 Analytical Method: 48,TO-15
 Analytical Date: 03/14/25 02:40
 Analyst: TPH

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Air Lab								
Dichlorodifluoromethane	0.474	0.200	--	2.34	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
Freon-114	ND	0.200	--	ND	1.40	--		1
Vinyl chloride	ND	0.200	--	ND	0.511	--		1
1,3-Butadiene	ND	0.200	--	ND	0.442	--		1
Bromomethane	ND	0.200	--	ND	0.777	--		1
Chloroethane	ND	0.200	--	ND	0.528	--		1
Ethanol	12.0	5.00	--	22.6	9.42	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acetone	2.44	1.00	--	5.80	2.38	--		1
Trichlorofluoromethane	0.202	0.200	--	1.14	1.12	--		1
Isopropanol	1.00	1.00	--	2.46	2.46	--		1
1,1-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Tertiary butyl Alcohol	ND	0.500	--	ND	1.52	--		1
Methylene chloride	1.68	0.500	--	5.84	1.74	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	ND	0.200	--	ND	0.623	--		1
Freon-113	ND	0.200	--	ND	1.53	--		1
trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
1,1-Dichloroethane	ND	0.200	--	ND	0.809	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
2-Butanone	2.60	0.500	--	7.67	1.47	--		1
cis-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1



Project Name: SOUTH BUFFALO DEVELOPMENT LLC**Lab Number:** L2510462**Project Number:** BUFFALO COLOR-AREA C**Report Date:** 06/05/25**SAMPLE RESULTS**

Lab ID: L2510462-08

Date Collected: 02/25/25 16:00

Client ID: SS-TESTPORT5-02252025

Date Received: 02/25/25

Sample Location: 140 LEE STREET, BUFFALO

Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Air Lab								
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1
Chloroform	ND	0.200	--	ND	0.977	--		1
Tetrahydrofuran	ND	0.500	--	ND	1.47	--		1
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1
n-Hexane	0.399	0.200	--	1.41	0.705	--		1
1,1,1-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Benzene	1.36	0.200	--	4.34	0.639	--		1
Carbon tetrachloride	ND	0.200	--	ND	1.26	--		1
Cyclohexane	0.414	0.200	--	1.43	0.688	--		1
1,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
Bromodichloromethane	ND	0.200	--	ND	1.34	--		1
1,4-Dioxane	ND	0.200	--	ND	0.721	--		1
Trichloroethene	ND	0.200	--	ND	1.07	--		1
2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--		1
Heptane	ND	0.200	--	ND	0.820	--		1
cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Toluene	0.439	0.200	--	1.65	0.754	--		1
2-Hexanone	1.24	0.200	--	5.08	0.820	--		1
Dibromochloromethane	ND	0.200	--	ND	1.70	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1
Tetrachloroethene	10.6	0.200	--	71.9	1.36	--		1
Chlorobenzene	ND	0.200	--	ND	0.921	--		1
Ethylbenzene	ND	0.200	--	ND	0.869	--		1



Project Name: SOUTH BUFFALO DEVELOPMENT LLC**Lab Number:** L2510462**Project Number:** BUFFALO COLOR-AREA C**Report Date:** 06/05/25**SAMPLE RESULTS**

Lab ID: L2510462-08

Date Collected: 02/25/25 16:00

Client ID: SS-TESTPORT5-02252025

Date Received: 02/25/25

Sample Location: 140 LEE STREET, BUFFALO

Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Air Lab								
p/m-Xylene	0.418	0.400	--	1.82	1.74	--		1
Bromoform	ND	0.200	--	ND	2.07	--		1
Styrene	ND	0.200	--	ND	0.852	--		1
1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
o-Xylene	ND	0.200	--	ND	0.869	--		1
4-Ethyltoluene	ND	0.200	--	ND	0.983	--		1
1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
1,2,4-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	88		60-140
Bromochloromethane	90		60-140
chlorobenzene-d5	80		60-140



Project Name: SOUTH BUFFALO DEVELOPMENT LLC**Lab Number:** L2510462**Project Number:** BUFFALO COLOR-AREA C**Report Date:** 06/05/25**SAMPLE RESULTS**

Lab ID: L2510462-08

Client ID: SS-TESTPORT5-02252025

Sample Location: 140 LEE STREET, BUFFALO

Date Collected: 02/25/25 16:00

Date Received: 02/25/25

Field Prep: Not Specified

Sample Depth:

Matrix: Soil_Vapor

Analytical Method: 48,TO-15-SIM

Analytical Date: 03/14/25 02:40

Analyst: TPH

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Air Lab								
1,2,4-Trichlorobenzene	ND	0.050	--	ND	0.371	--		1
Naphthalene	0.103	0.050	--	0.540	0.262	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-difluorobenzene	97		60-140
bromochloromethane	93		60-140
chlorobenzene-d5	88		60-140



Project Name: SOUTH BUFFALO DEVELOPMENT LLC**Lab Number:** L2510462**Project Number:** BUFFALO COLOR-AREA C**Report Date:** 06/05/25**SAMPLE RESULTS**

Lab ID: L2510462-09
 Client ID: AA-OUTDOOR-02252025
 Sample Location: 140 LEE STREET, BUFFALO

Date Collected: 02/25/25 15:45
 Date Received: 02/25/25
 Field Prep: Not Specified

Sample Depth:
 Matrix: Air
 Analytical Method: 48,TO-15
 Analytical Date: 03/13/25 22:41
 Analyst: TPH

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Air Lab								
Dichlorodifluoromethane	0.473	0.200	--	2.34	0.989	--		1
Chloromethane	0.530	0.200	--	1.09	0.413	--		1
Freon-114	ND	0.200	--	ND	1.40	--		1
1,3-Butadiene	ND	0.200	--	ND	0.442	--		1
Bromomethane	ND	0.200	--	ND	0.777	--		1
Chloroethane	ND	0.200	--	ND	0.528	--		1
Ethanol	ND	5.00	--	ND	9.42	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acetone	3.04	1.00	--	7.22	2.38	--		1
Trichlorofluoromethane	ND	0.200	--	ND	1.12	--		1
Isopropanol	ND	1.00	--	ND	2.46	--		1
Tertiary butyl Alcohol	ND	0.500	--	ND	1.52	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	ND	0.200	--	ND	0.623	--		1
Freon-113	ND	0.200	--	ND	1.53	--		1
trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
1,1-Dichloroethane	ND	0.200	--	ND	0.809	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1
Chloroform	ND	0.200	--	ND	0.977	--		1
Tetrahydrofuran	0.832	0.500	--	2.45	1.47	--		1



Project Name: SOUTH BUFFALO DEVELOPMENT LLC**Lab Number:** L2510462**Project Number:** BUFFALO COLOR-AREA C**Report Date:** 06/05/25**SAMPLE RESULTS**

Lab ID: L2510462-09

Date Collected: 02/25/25 15:45

Client ID: AA-OUTDOOR-02252025

Date Received: 02/25/25

Sample Location: 140 LEE STREET, BUFFALO

Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Air Lab								
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1
n-Hexane	0.279	0.200	--	0.983	0.705	--		1
Benzene	ND	0.200	--	ND	0.639	--		1
Cyclohexane	ND	0.200	--	ND	0.688	--		1
1,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
Bromodichloromethane	ND	0.200	--	ND	1.34	--		1
1,4-Dioxane	ND	0.200	--	ND	0.721	--		1
2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--		1
Heptane	ND	0.200	--	ND	0.820	--		1
cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Toluene	0.201	0.200	--	0.757	0.754	--		1
2-Hexanone	ND	0.200	--	ND	0.820	--		1
Dibromochloromethane	ND	0.200	--	ND	1.70	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1
Chlorobenzene	ND	0.200	--	ND	0.921	--		1
Ethylbenzene	ND	0.200	--	ND	0.869	--		1
p/m-Xylene	ND	0.400	--	ND	1.74	--		1
Bromoform	ND	0.200	--	ND	2.07	--		1
Styrene	ND	0.200	--	ND	0.852	--		1
1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
o-Xylene	ND	0.200	--	ND	0.869	--		1
4-Ethyltoluene	ND	0.200	--	ND	0.983	--		1
1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1



Project Name: SOUTH BUFFALO DEVELOPMENT LLC**Lab Number:** L2510462**Project Number:** BUFFALO COLOR-AREA C**Report Date:** 06/05/25**SAMPLE RESULTS**

Lab ID: L2510462-09

Date Collected: 02/25/25 15:45

Client ID: AA-OUTDOOR-02252025

Date Received: 02/25/25

Sample Location: 140 LEE STREET, BUFFALO

Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Air Lab								
1,2,4-Trimethylbenzene	0.462	0.200	--	2.27	0.983	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	91		60-140
Bromochloromethane	91		60-140
chlorobenzene-d5	84		60-140



Project Name: SOUTH BUFFALO DEVELOPMENT LLC**Lab Number:** L2510462**Project Number:** BUFFALO COLOR-AREA C**Report Date:** 06/05/25**SAMPLE RESULTS**

Lab ID: L2510462-09
 Client ID: AA-OUTDOOR-02252025
 Sample Location: 140 LEE STREET, BUFFALO

Date Collected: 02/25/25 15:45
 Date Received: 02/25/25
 Field Prep: Not Specified

Sample Depth:
 Matrix: Air
 Analytical Method: 48,TO-15-SIM
 Analytical Date: 03/13/25 22:41
 Analyst: TPH

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Air Lab								
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Carbon tetrachloride	0.072	0.020	--	0.453	0.126	--		1
Trichloroethene	ND	0.020	--	ND	0.107	--		1
Tetrachloroethene	0.114	0.020	--	0.773	0.136	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-difluorobenzene	100		60-140
bromochloromethane	94		60-140
chlorobenzene-d5	93		60-140



Project Name: SOUTH BUFFALO DEVELOPMENT LLC**Lab Number:** L2510462**Project Number:** BUFFALO COLOR-AREA C**Report Date:** 06/05/25**SAMPLE RESULTS**

Lab ID: L2510462-10
 Client ID: AA-TESTPORT99-02252025
 Sample Location: 140 LEE STREET, BUFFALO

Date Collected: 02/25/25 15:50
 Date Received: 02/25/25
 Field Prep: Not Specified

Sample Depth:
 Matrix: Air
 Analytical Method: 48,TO-15
 Analytical Date: 03/13/25 23:20
 Analyst: TPH

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Air Lab								
Dichlorodifluoromethane	0.492	0.200	--	2.43	0.989	--		1
Chloromethane	0.417	0.200	--	0.861	0.413	--		1
Freon-114	ND	0.200	--	ND	1.40	--		1
1,3-Butadiene	0.214	0.200	--	0.473	0.442	--		1
Bromomethane	ND	0.200	--	ND	0.777	--		1
Chloroethane	ND	0.200	--	ND	0.528	--		1
Ethanol	347	5.00	--	654	9.42	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acetone	13.5	1.00	--	32.1	2.38	--		1
Trichlorofluoromethane	0.226	0.200	--	1.27	1.12	--		1
Isopropanol	7.48	1.00	--	18.4	2.46	--		1
Tertiary butyl Alcohol	0.543	0.500	--	1.65	1.52	--		1
Methylene chloride	2.72	0.500	--	9.45	1.74	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	ND	0.200	--	ND	0.623	--		1
Freon-113	ND	0.200	--	ND	1.53	--		1
trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
1,1-Dichloroethane	ND	0.200	--	ND	0.809	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
2-Butanone	1.89	0.500	--	5.57	1.47	--		1
Ethyl Acetate	0.949	0.500	--	3.42	1.80	--		1
Chloroform	ND	0.200	--	ND	0.977	--		1
Tetrahydrofuran	3.08	0.500	--	9.08	1.47	--		1



Project Name: SOUTH BUFFALO DEVELOPMENT LLC**Lab Number:** L2510462**Project Number:** BUFFALO COLOR-AREA C**Report Date:** 06/05/25**SAMPLE RESULTS**

Lab ID: L2510462-10

Date Collected: 02/25/25 15:50

Client ID: AA-TESTPORT99-02252025

Date Received: 02/25/25

Sample Location: 140 LEE STREET, BUFFALO

Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Air Lab								
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1
n-Hexane	2.00	0.200	--	7.05	0.705	--		1
Benzene	0.648	0.200	--	2.07	0.639	--		1
Cyclohexane	0.494	0.200	--	1.70	0.688	--		1
1,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
Bromodichloromethane	ND	0.200	--	ND	1.34	--		1
1,4-Dioxane	ND	0.200	--	ND	0.721	--		1
2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--		1
Heptane	0.420	0.200	--	1.72	0.820	--		1
cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Toluene	0.411	0.200	--	1.55	0.754	--		1
2-Hexanone	ND	0.200	--	ND	0.820	--		1
Dibromochloromethane	ND	0.200	--	ND	1.70	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1
Chlorobenzene	ND	0.200	--	ND	0.921	--		1
Ethylbenzene	2.04	0.200	--	8.86	0.869	--		1
p/m-Xylene	6.62	0.400	--	28.8	1.74	--		1
Bromoform	ND	0.200	--	ND	2.07	--		1
Styrene	ND	0.200	--	ND	0.852	--		1
1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
o-Xylene	1.32	0.200	--	5.73	0.869	--		1
4-Ethyltoluene	ND	0.200	--	ND	0.983	--		1
1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1



Project Name: SOUTH BUFFALO DEVELOPMENT LLC**Lab Number:** L2510462**Project Number:** BUFFALO COLOR-AREA C**Report Date:** 06/05/25**SAMPLE RESULTS**

Lab ID: L2510462-10

Date Collected: 02/25/25 15:50

Client ID: AA-TESTPORT99-02252025

Date Received: 02/25/25

Sample Location: 140 LEE STREET, BUFFALO

Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Air Lab								
1,2,4-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	87		60-140
Bromochloromethane	89		60-140
chlorobenzene-d5	80		60-140



Project Name: SOUTH BUFFALO DEVELOPMENT LLC
Project Number: BUFFALO COLOR-AREA C

Lab Number: L2510462
Report Date: 06/05/25

SAMPLE RESULTS

Lab ID: L2510462-10
 Client ID: AA-TESTPORT99-02252025
 Sample Location: 140 LEE STREET, BUFFALO

Date Collected: 02/25/25 15:50
 Date Received: 02/25/25
 Field Prep: Not Specified

Sample Depth:
 Matrix: Air
 Analytical Method: 48,TO-15-SIM
 Analytical Date: 03/13/25 23:20
 Analyst: TPH

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Air Lab								
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1,1-Trichloroethane	0.075	0.020	--	0.409	0.109	--		1
Carbon tetrachloride	0.066	0.020	--	0.415	0.126	--		1
Trichloroethene	ND	0.020	--	ND	0.107	--		1
Tetrachloroethene	18.4	0.020	--	125	0.136	--		1
1,2,4-Trichlorobenzene	ND	0.050	--	ND	0.371	--		1
Naphthalene	0.102	0.050	--	0.535	0.262	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-difluorobenzene	95		60-140
bromochloromethane	92		60-140
chlorobenzene-d5	87		60-140



Project Name: SOUTH BUFFALO DEVELOPMENT LLC
Project Number: BUFFALO COLOR-AREA C

Lab Number: L2510462
Report Date: 06/05/25

SAMPLE RESULTS

Lab ID: L2510462-11
 Client ID: SS-TESTPORT99-02252025
 Sample Location: 140 LEE STREET, BUFFALO

Date Collected: 02/25/25 15:51
 Date Received: 02/25/25
 Field Prep: Not Specified

Sample Depth:
 Matrix: Soil_Vapor
 Analytical Method: 48,TO-15
 Analytical Date: 03/14/25 03:21
 Analyst: TPH

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Air Lab								
Dichlorodifluoromethane	0.506	0.200	--	2.50	0.989	--		1
Chloromethane	0.418	0.200	--	0.863	0.413	--		1
Freon-114	ND	0.200	--	ND	1.40	--		1
Vinyl chloride	ND	0.200	--	ND	0.511	--		1
1,3-Butadiene	0.260	0.200	--	0.575	0.442	--		1
Bromomethane	ND	0.200	--	ND	0.777	--		1
Chloroethane	ND	0.200	--	ND	0.528	--		1
Ethanol	453	5.00	--	854	9.42	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acetone	24.0	1.00	--	57.0	2.38	--		1
Trichlorofluoromethane	0.230	0.200	--	1.29	1.12	--		1
Isopropanol	1.75	1.00	--	4.30	2.46	--		1
1,1-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Tertiary butyl Alcohol	0.695	0.500	--	2.11	1.52	--		1
Methylene chloride	3.07	0.500	--	10.7	1.74	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	ND	0.200	--	ND	0.623	--		1
Freon-113	ND	0.200	--	ND	1.53	--		1
trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
1,1-Dichloroethane	ND	0.200	--	ND	0.809	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
2-Butanone	4.63	0.500	--	13.7	1.47	--		1
cis-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1



Project Name: SOUTH BUFFALO DEVELOPMENT LLC**Lab Number:** L2510462**Project Number:** BUFFALO COLOR-AREA C**Report Date:** 06/05/25**SAMPLE RESULTS**

Lab ID: L2510462-11

Date Collected: 02/25/25 15:51

Client ID: SS-TESTPORT99-02252025

Date Received: 02/25/25

Sample Location: 140 LEE STREET, BUFFALO

Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Air Lab								
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1
Chloroform	ND	0.200	--	ND	0.977	--		1
Tetrahydrofuran	4.81	0.500	--	14.2	1.47	--		1
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1
n-Hexane	0.754	0.200	--	2.66	0.705	--		1
1,1,1-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Benzene	0.609	0.200	--	1.95	0.639	--		1
Carbon tetrachloride	ND	0.200	--	ND	1.26	--		1
Cyclohexane	0.566	0.200	--	1.95	0.688	--		1
1,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
Bromodichloromethane	ND	0.200	--	ND	1.34	--		1
1,4-Dioxane	ND	0.200	--	ND	0.721	--		1
Trichloroethene	ND	0.200	--	ND	1.07	--		1
2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--		1
Heptane	0.636	0.200	--	2.61	0.820	--		1
cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Toluene	0.797	0.200	--	3.00	0.754	--		1
2-Hexanone	1.28	0.200	--	5.25	0.820	--		1
Dibromochloromethane	ND	0.200	--	ND	1.70	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1
Tetrachloroethene	12.1	0.200	--	82.1	1.36	--		1
Chlorobenzene	ND	0.200	--	ND	0.921	--		1
Ethylbenzene	1.02	0.200	--	4.43	0.869	--		1



Project Name: SOUTH BUFFALO DEVELOPMENT LLC
Project Number: BUFFALO COLOR-AREA C

Lab Number: L2510462
Report Date: 06/05/25

SAMPLE RESULTS

Lab ID: L2510462-11
 Client ID: SS-TESTPORT99-02252025
 Sample Location: 140 LEE STREET, BUFFALO

Date Collected: 02/25/25 15:51
 Date Received: 02/25/25
 Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Air Lab								
p/m-Xylene	2.49	0.400	--	10.8	1.74	--		1
Bromoform	ND	0.200	--	ND	2.07	--		1
Styrene	ND	0.200	--	ND	0.852	--		1
1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
o-Xylene	0.505	0.200	--	2.19	0.869	--		1
4-Ethyltoluene	ND	0.200	--	ND	0.983	--		1
1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
1,2,4-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	86		60-140
Bromochloromethane	87		60-140
chlorobenzene-d5	79		60-140



Project Name: SOUTH BUFFALO DEVELOPMENT LLC**Lab Number:** L2510462**Project Number:** BUFFALO COLOR-AREA C**Report Date:** 06/05/25**SAMPLE RESULTS**

Lab ID: L2510462-11
 Client ID: SS-TESTPORT99-02252025
 Sample Location: 140 LEE STREET, BUFFALO

Date Collected: 02/25/25 15:51
 Date Received: 02/25/25
 Field Prep: Not Specified

Sample Depth:
 Matrix: Soil_Vapor
 Analytical Method: 48,TO-15-SIM
 Analytical Date: 03/14/25 03:21
 Analyst: TPH

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Air Lab								
1,2,4-Trichlorobenzene	ND	0.050	--	ND	0.371	--		1
Naphthalene	0.075	0.050	--	0.393	0.262	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-difluorobenzene	94		60-140
bromochloromethane	89		60-140
chlorobenzene-d5	86		60-140



Project Name: SOUTH BUFFALO DEVELOPMENT LLC**Lab Number:** L2510462**Project Number:** BUFFALO COLOR-AREA C**Report Date:** 06/05/25

Method Blank Analysis Batch Quality Control

Analytical Method: 48,TO-15

Analytical Date: 03/13/25 18:42

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Air Lab for sample(s): 01-04,06-11 Batch: WG2040290-4								
Dichlorodifluoromethane	ND	0.200	--	ND	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
Freon-114	ND	0.200	--	ND	1.40	--		1
Vinyl chloride	ND	0.200	--	ND	0.511	--		1
1,3-Butadiene	ND	0.200	--	ND	0.442	--		1
Bromomethane	ND	0.200	--	ND	0.777	--		1
Chloroethane	ND	0.200	--	ND	0.528	--		1
Ethanol	ND	5.00	--	ND	9.42	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acetone	ND	1.00	--	ND	2.38	--		1
Trichlorofluoromethane	ND	0.200	--	ND	1.12	--		1
Isopropanol	ND	1.00	--	ND	2.46	--		1
1,1-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Tertiary butyl Alcohol	ND	0.500	--	ND	1.52	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	ND	0.200	--	ND	0.623	--		1
Freon-113	ND	0.200	--	ND	1.53	--		1
trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
1,1-Dichloroethane	ND	0.200	--	ND	0.809	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1
cis-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1
Chloroform	ND	0.200	--	ND	0.977	--		1



Project Name: SOUTH BUFFALO DEVELOPMENT LLC**Lab Number:** L2510462**Project Number:** BUFFALO COLOR-AREA C**Report Date:** 06/05/25

Method Blank Analysis Batch Quality Control

Analytical Method: 48,TO-15

Analytical Date: 03/13/25 18:42

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Air Lab for sample(s): 01-04,06-11 Batch: WG2040290-4								
Tetrahydrofuran	ND	0.500	--	ND	1.47	--		1
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1
n-Hexane	ND	0.200	--	ND	0.705	--		1
1,1,1-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Benzene	ND	0.200	--	ND	0.639	--		1
Carbon tetrachloride	ND	0.200	--	ND	1.26	--		1
Cyclohexane	ND	0.200	--	ND	0.688	--		1
1,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
Bromodichloromethane	ND	0.200	--	ND	1.34	--		1
1,4-Dioxane	ND	0.200	--	ND	0.721	--		1
Trichloroethene	ND	0.200	--	ND	1.07	--		1
2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--		1
Heptane	ND	0.200	--	ND	0.820	--		1
cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Toluene	ND	0.200	--	ND	0.754	--		1
2-Hexanone	ND	0.200	--	ND	0.820	--		1
Dibromochloromethane	ND	0.200	--	ND	1.70	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1
Tetrachloroethene	ND	0.200	--	ND	1.36	--		1
Chlorobenzene	ND	0.200	--	ND	0.921	--		1
Ethylbenzene	ND	0.200	--	ND	0.869	--		1
p/m-Xylene	ND	0.400	--	ND	1.74	--		1



Project Name: SOUTH BUFFALO DEVELOPMENT LLC**Lab Number:** L2510462**Project Number:** BUFFALO COLOR-AREA C**Report Date:** 06/05/25

Method Blank Analysis Batch Quality Control

Analytical Method: 48,TO-15

Analytical Date: 03/13/25 18:42

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Air Lab for sample(s): 01-04,06-11 Batch: WG2040290-4								
Bromoform	ND	0.200	--	ND	2.07	--		1
Styrene	ND	0.200	--	ND	0.852	--		1
1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
o-Xylene	ND	0.200	--	ND	0.869	--		1
4-Ethyltoluene	ND	0.200	--	ND	0.983	--		1
1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
1,2,4-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Naphthalene	ND	0.190	--	ND	0.996	--		1
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1



Project Name: SOUTH BUFFALO DEVELOPMENT LLC**Lab Number:** L2510462**Project Number:** BUFFALO COLOR-AREA C**Report Date:** 06/05/25

Method Blank Analysis Batch Quality Control

Analytical Method: 48,TO-15-SIM

Analytical Date: 03/13/25 19:22

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Air Lab for sample(s): 01-04,06-11 Batch: WG2040291-4								
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Carbon tetrachloride	ND	0.020	--	ND	0.126	--		1
Trichloroethene	ND	0.020	--	ND	0.107	--		1
Tetrachloroethene	ND	0.020	--	ND	0.136	--		1
1,2,4-Trichlorobenzene	ND	0.050	--	ND	0.371	--		1
Naphthalene	ND	0.050	--	ND	0.262	--		1



Project Name: SOUTH BUFFALO DEVELOPMENT LLC**Lab Number:** L2510462**Project Number:** BUFFALO COLOR-AREA C**Report Date:** 06/05/25

Method Blank Analysis Batch Quality Control

Analytical Method: 48,TO-15

Analytical Date: 03/19/25 17:59

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Air Lab for sample(s): 05 Batch: WG2042684-4								
Dichlorodifluoromethane	ND	0.200	--	ND	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
Freon-114	ND	0.200	--	ND	1.40	--		1
Vinyl chloride	ND	0.200	--	ND	0.511	--		1
1,3-Butadiene	ND	0.200	--	ND	0.442	--		1
Bromomethane	ND	0.200	--	ND	0.777	--		1
Chloroethane	ND	0.200	--	ND	0.528	--		1
Ethanol	ND	5.00	--	ND	9.42	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acetone	ND	1.00	--	ND	2.38	--		1
Trichlorofluoromethane	ND	0.200	--	ND	1.12	--		1
Isopropanol	ND	1.00	--	ND	2.46	--		1
1,1-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Tertiary butyl Alcohol	ND	0.500	--	ND	1.52	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	ND	0.200	--	ND	0.623	--		1
Freon-113	ND	0.200	--	ND	1.53	--		1
trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
1,1-Dichloroethane	ND	0.200	--	ND	0.809	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1
cis-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1
Chloroform	ND	0.200	--	ND	0.977	--		1



Project Name: SOUTH BUFFALO DEVELOPMENT LLC**Lab Number:** L2510462**Project Number:** BUFFALO COLOR-AREA C**Report Date:** 06/05/25

Method Blank Analysis Batch Quality Control

Analytical Method: 48,TO-15

Analytical Date: 03/19/25 17:59

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Air Lab for sample(s): 05 Batch: WG2042684-4								
Tetrahydrofuran	ND	0.500	--	ND	1.47	--		1
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1
n-Hexane	ND	0.200	--	ND	0.705	--		1
1,1,1-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Benzene	ND	0.200	--	ND	0.639	--		1
Carbon tetrachloride	ND	0.200	--	ND	1.26	--		1
Cyclohexane	ND	0.200	--	ND	0.688	--		1
1,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
Bromodichloromethane	ND	0.200	--	ND	1.34	--		1
1,4-Dioxane	ND	0.200	--	ND	0.721	--		1
Trichloroethene	ND	0.200	--	ND	1.07	--		1
2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--		1
Heptane	ND	0.200	--	ND	0.820	--		1
cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Toluene	ND	0.200	--	ND	0.754	--		1
2-Hexanone	ND	0.200	--	ND	0.820	--		1
Dibromochloromethane	ND	0.200	--	ND	1.70	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1
Tetrachloroethene	ND	0.200	--	ND	1.36	--		1
Chlorobenzene	ND	0.200	--	ND	0.921	--		1
Ethylbenzene	ND	0.200	--	ND	0.869	--		1
p/m-Xylene	ND	0.400	--	ND	1.74	--		1



Project Name: SOUTH BUFFALO DEVELOPMENT LLC**Lab Number:** L2510462**Project Number:** BUFFALO COLOR-AREA C**Report Date:** 06/05/25

Method Blank Analysis Batch Quality Control

Analytical Method: 48,TO-15

Analytical Date: 03/19/25 17:59

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Air Lab for sample(s): 05 Batch: WG2042684-4								
Bromoform	ND	0.200	--	ND	2.07	--		1
Styrene	ND	0.200	--	ND	0.852	--		1
1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
o-Xylene	ND	0.200	--	ND	0.869	--		1
4-Ethyltoluene	ND	0.200	--	ND	0.983	--		1
1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
1,2,4-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Naphthalene	ND	0.190	--	ND	0.996	--		1
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1



Project Name: SOUTH BUFFALO DEVELOPMENT LLC**Lab Number:** L2510462**Project Number:** BUFFALO COLOR-AREA C**Report Date:** 06/05/25

Method Blank Analysis Batch Quality Control

Analytical Method: 48,TO-15-SIM

Analytical Date: 03/19/25 18:38

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Air Lab for sample(s): 05 Batch: WG2042685-4								
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Carbon tetrachloride	ND	0.020	--	ND	0.126	--		1
Trichloroethene	ND	0.020	--	ND	0.107	--		1
Tetrachloroethene	ND	0.020	--	ND	0.136	--		1



Lab Control Sample Analysis **Batch Quality Control**

Project Name: SOUTH BUFFALO DEVELOPMENT LLC

Lab Number: L2510462

Project Number: BUFFALO COLOR-AREA C

Report Date: 06/05/25

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics in Air - Mansfield Air Lab Associated sample(s): 01-04,06-11 Batch: WG2040290-3								
Dichlorodifluoromethane	98		-		70-130	-		
Chloromethane	67	Q	-		70-130	-		
Freon-114	95		-		70-130	-		
Vinyl chloride	104		-		70-130	-		
1,3-Butadiene	92		-		70-130	-		
Bromomethane	102		-		70-130	-		
Chloroethane	102		-		70-130	-		
Ethanol	76		-		40-160	-		
Vinyl bromide	94		-		70-130	-		
Acetone	93		-		40-160	-		
Trichlorofluoromethane	74		-		70-130	-		
Isopropanol	82		-		40-160	-		
1,1-Dichloroethene	94		-		70-130	-		
Tertiary butyl Alcohol	80		-		70-130	-		
Methylene chloride	75		-		70-130	-		
3-Chloropropene	87		-		70-130	-		
Carbon disulfide	114		-		70-130	-		
Freon-113	97		-		70-130	-		
trans-1,2-Dichloroethene	96		-		70-130	-		
1,1-Dichloroethane	84		-		70-130	-		
Methyl tert butyl ether	105		-		70-130	-		
2-Butanone	89		-		70-130	-		
cis-1,2-Dichloroethene	84		-		70-130	-		

Lab Control Sample Analysis **Batch Quality Control**

Project Name: SOUTH BUFFALO DEVELOPMENT LLC

Lab Number: L2510462

Project Number: BUFFALO COLOR-AREA C

Report Date: 06/05/25

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics in Air - Mansfield Air Lab Associated sample(s): 01-04,06-11 Batch: WG2040290-3								
Ethyl Acetate	101		-		70-130	-		
Chloroform	89		-		70-130	-		
Tetrahydrofuran	96		-		70-130	-		
1,2-Dichloroethane	72		-		70-130	-		
n-Hexane	121		-		70-130	-		
1,1,1-Trichloroethane	92		-		70-130	-		
Benzene	109		-		70-130	-		
Carbon tetrachloride	93		-		70-130	-		
Cyclohexane	123		-		70-130	-		
1,2-Dichloropropane	96		-		70-130	-		
Bromodichloromethane	115		-		70-130	-		
1,4-Dioxane	111		-		70-130	-		
Trichloroethene	106		-		70-130	-		
2,2,4-Trimethylpentane	122		-		70-130	-		
Heptane	107		-		70-130	-		
cis-1,3-Dichloropropene	120		-		70-130	-		
4-Methyl-2-pentanone	101		-		70-130	-		
trans-1,3-Dichloropropene	120		-		70-130	-		
1,1,2-Trichloroethane	107		-		70-130	-		
Toluene	101		-		70-130	-		
2-Hexanone	102		-		70-130	-		
Dibromochloromethane	130		-		70-130	-		
1,2-Dibromoethane	112		-		70-130	-		

Lab Control Sample Analysis **Batch Quality Control**

Project Name: SOUTH BUFFALO DEVELOPMENT LLC

Lab Number: L2510462

Project Number: BUFFALO COLOR-AREA C

Report Date: 06/05/25

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics in Air - Mansfield Air Lab Associated sample(s): 01-04,06-11 Batch: WG2040290-3								
Tetrachloroethene	104		-		70-130	-		
Chlorobenzene	105		-		70-130	-		
Ethylbenzene	101		-		70-130	-		
p/m-Xylene	103		-		70-130	-		
Bromoform	136	Q	-		70-130	-		
Styrene	107		-		70-130	-		
1,1,2,2-Tetrachloroethane	104		-		70-130	-		
o-Xylene	106		-		70-130	-		
4-Ethyltoluene	114		-		70-130	-		
1,3,5-Trimethylbenzene	103		-		70-130	-		
1,2,4-Trimethylbenzene	102		-		70-130	-		
Benzyl chloride	96		-		70-130	-		
1,3-Dichlorobenzene	98		-		70-130	-		
1,4-Dichlorobenzene	100		-		70-130	-		
1,2-Dichlorobenzene	96		-		70-130	-		
1,2,4-Trichlorobenzene	71		-		70-130	-		
Naphthalene	67	Q	-		70-130	-		
Hexachlorobutadiene	50	Q	-		70-130	-		

Lab Control Sample Analysis **Batch Quality Control**

Project Name: SOUTH BUFFALO DEVELOPMENT LLC

Lab Number: L2510462

Project Number: BUFFALO COLOR-AREA C

Report Date: 06/05/25

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics in Air by SIM - Mansfield Air Lab Associated sample(s): 01-04,06-11 Batch: WG2040291-3								
Vinyl chloride	93		-		70-130	-		25
1,1-Dichloroethene	91		-		70-130	-		25
cis-1,2-Dichloroethene	76		-		70-130	-		25
1,1,1-Trichloroethane	95		-		70-130	-		25
Carbon tetrachloride	99		-		70-130	-		25
Trichloroethene	106		-		70-130	-		25
Tetrachloroethene	105		-		70-130	-		25
1,2,4-Trichlorobenzene	103		-		70-130	-		25
Naphthalene	95		-		70-130	-		25

Lab Control Sample Analysis **Batch Quality Control**

Project Name: SOUTH BUFFALO DEVELOPMENT LLC

Lab Number: L2510462

Project Number: BUFFALO COLOR-AREA C

Report Date: 06/05/25

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics in Air - Mansfield Air Lab Associated sample(s): 05 Batch: WG2042684-3								
Dichlorodifluoromethane	106		-		70-130	-		
Chloromethane	96		-		70-130	-		
Freon-114	111		-		70-130	-		
Vinyl chloride	100		-		70-130	-		
1,3-Butadiene	105		-		70-130	-		
Bromomethane	112		-		70-130	-		
Chloroethane	101		-		70-130	-		
Ethanol	71		-		40-160	-		
Vinyl bromide	114		-		70-130	-		
Acetone	121		-		40-160	-		
Trichlorofluoromethane	105		-		70-130	-		
Isopropanol	63		-		40-160	-		
1,1-Dichloroethene	125		-		70-130	-		
Tertiary butyl Alcohol	95		-		70-130	-		
Methylene chloride	110		-		70-130	-		
3-Chloropropene	121		-		70-130	-		
Carbon disulfide	114		-		70-130	-		
Freon-113	118		-		70-130	-		
trans-1,2-Dichloroethene	127		-		70-130	-		
1,1-Dichloroethane	119		-		70-130	-		
Methyl tert butyl ether	116		-		70-130	-		
2-Butanone	116		-		70-130	-		
cis-1,2-Dichloroethene	121		-		70-130	-		

Lab Control Sample Analysis **Batch Quality Control**

Project Name: SOUTH BUFFALO DEVELOPMENT LLC

Lab Number: L2510462

Project Number: BUFFALO COLOR-AREA C

Report Date: 06/05/25

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics in Air - Mansfield Air Lab Associated sample(s): 05 Batch: WG2042684-3								
Ethyl Acetate	119		-		70-130	-		
Chloroform	119		-		70-130	-		
Tetrahydrofuran	126		-		70-130	-		
1,2-Dichloroethane	130		-		70-130	-		
n-Hexane	117		-		70-130	-		
1,1,1-Trichloroethane	120		-		70-130	-		
Benzene	106		-		70-130	-		
Carbon tetrachloride	124		-		70-130	-		
Cyclohexane	118		-		70-130	-		
1,2-Dichloropropane	116		-		70-130	-		
Bromodichloromethane	131	Q	-		70-130	-		
1,4-Dioxane	120		-		70-130	-		
Trichloroethene	118		-		70-130	-		
2,2,4-Trimethylpentane	125		-		70-130	-		
Heptane	125		-		70-130	-		
cis-1,3-Dichloropropene	114		-		70-130	-		
4-Methyl-2-pentanone	121		-		70-130	-		
trans-1,3-Dichloropropene	120		-		70-130	-		
1,1,2-Trichloroethane	121		-		70-130	-		
Toluene	106		-		70-130	-		
2-Hexanone	108		-		70-130	-		
Dibromochloromethane	122		-		70-130	-		
1,2-Dibromoethane	105		-		70-130	-		

Lab Control Sample Analysis **Batch Quality Control**

Project Name: SOUTH BUFFALO DEVELOPMENT LLC

Lab Number: L2510462

Project Number: BUFFALO COLOR-AREA C

Report Date: 06/05/25

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics in Air - Mansfield Air Lab Associated sample(s): 05 Batch: WG2042684-3								
Tetrachloroethene	106		-		70-130	-		
Chlorobenzene	104		-		70-130	-		
Ethylbenzene	110		-		70-130	-		
p/m-Xylene	112		-		70-130	-		
Bromoform	119		-		70-130	-		
Styrene	104		-		70-130	-		
1,1,2,2-Tetrachloroethane	112		-		70-130	-		
o-Xylene	113		-		70-130	-		
4-Ethyltoluene	112		-		70-130	-		
1,3,5-Trimethylbenzene	114		-		70-130	-		
1,2,4-Trimethylbenzene	112		-		70-130	-		
Benzyl chloride	88		-		70-130	-		
1,3-Dichlorobenzene	114		-		70-130	-		
1,4-Dichlorobenzene	114		-		70-130	-		
1,2-Dichlorobenzene	122		-		70-130	-		
1,2,4-Trichlorobenzene	105		-		70-130	-		
Naphthalene	82		-		70-130	-		
Hexachlorobutadiene	97		-		70-130	-		

Lab Control Sample Analysis **Batch Quality Control**

Project Name: SOUTH BUFFALO DEVELOPMENT LLC

Lab Number: L2510462

Project Number: BUFFALO COLOR-AREA C

Report Date: 06/05/25

Parameter	LCS %Recovery	Qual	LCSD %Recovery	Qual	%Recovery Limits	RPD	Qual	RPD Limits
Volatile Organics in Air by SIM - Mansfield Air Lab Associated sample(s): 05 Batch: WG2042685-3								
Vinyl chloride	105		-		70-130	-		25
1,1-Dichloroethene	100		-		70-130	-		25
cis-1,2-Dichloroethene	119		-		70-130	-		25
1,1,1-Trichloroethane	122		-		70-130	-		25
Carbon tetrachloride	123		-		70-130	-		25
Trichloroethene	121		-		70-130	-		25
Tetrachloroethene	104		-		70-130	-		25

Lab Duplicate Analysis

Batch Quality Control

Project Name: SOUTH BUFFALO DEVELOPMENT LLC
Project Number: BUFFALO COLOR-AREA C

Lab Number: L2510462
Report Date: 06/05/25

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Volatile Organics in Air - Mansfield Air Lab Associated sample(s): 01-04,06-11 QC Batch ID: WG2040290-5 QC Sample: L2510462-10 Client ID: AA-TESTPORT99-02252025						
Dichlorodifluoromethane	0.492	0.483	ppbV	2		25
Chloromethane	0.417	0.399	ppbV	4		25
Freon-114	ND	ND	ppbV	NC		25
1,3-Butadiene	0.214	0.243	ppbV	13		25
Bromomethane	ND	ND	ppbV	NC		25
Chloroethane	ND	ND	ppbV	NC		25
Ethanol	347	332	ppbV	4		25
Vinyl bromide	ND	ND	ppbV	NC		25
Acetone	13.5	13.1	ppbV	3		25
Trichlorofluoromethane	0.226	0.223	ppbV	1		25
Isopropanol	7.48	8.01	ppbV	7		25
Tertiary butyl Alcohol	0.543	0.541	ppbV	0		25
Methylene chloride	2.72	2.70	ppbV	1		25
3-Chloropropene	ND	ND	ppbV	NC		25
Carbon disulfide	ND	ND	ppbV	NC		25
Freon-113	ND	ND	ppbV	NC		25
trans-1,2-Dichloroethene	ND	ND	ppbV	NC		25
1,1-Dichloroethane	ND	ND	ppbV	NC		25
Methyl tert butyl ether	ND	ND	ppbV	NC		25
2-Butanone	1.89	1.88	ppbV	1		25
Ethyl Acetate	0.949	0.942	ppbV	1		25

Lab Duplicate Analysis Batch Quality Control

Project Name: SOUTH BUFFALO DEVELOPMENT LLC

Project Number: BUFFALO COLOR-AREA C

Lab Number: L2510462

Report Date: 06/05/25

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Volatile Organics in Air - Mansfield Air Lab Associated sample(s): 01-04,06-11 QC Batch ID: WG2040290-5 QC Sample: L2510462-10 Client ID: AA-TESTPORT99-02252025						
Chloroform	ND	ND	ppbV	NC		25
Tetrahydrofuran	3.08	3.06	ppbV	1		25
1,2-Dichloroethane	ND	ND	ppbV	NC		25
n-Hexane	2.00	2.17	ppbV	8		25
Benzene	0.648	0.668	ppbV	3		25
Cyclohexane	0.494	0.492	ppbV	0		25
1,2-Dichloropropane	ND	ND	ppbV	NC		25
Bromodichloromethane	ND	ND	ppbV	NC		25
1,4-Dioxane	ND	ND	ppbV	NC		25
2,2,4-Trimethylpentane	ND	ND	ppbV	NC		25
Heptane	0.420	0.427	ppbV	2		25
cis-1,3-Dichloropropene	ND	ND	ppbV	NC		25
4-Methyl-2-pentanone	ND	ND	ppbV	NC		25
trans-1,3-Dichloropropene	ND	ND	ppbV	NC		25
1,1,2-Trichloroethane	ND	ND	ppbV	NC		25
Toluene	0.411	0.427	ppbV	4		25
2-Hexanone	ND	ND	ppbV	NC		25
Dibromochloromethane	ND	ND	ppbV	NC		25
1,2-Dibromoethane	ND	ND	ppbV	NC		25
Chlorobenzene	ND	ND	ppbV	NC		25
Ethylbenzene	2.04	2.11	ppbV	3		25

Lab Duplicate Analysis

Batch Quality Control

Project Name: SOUTH BUFFALO DEVELOPMENT LLC

Project Number: BUFFALO COLOR-AREA C

Lab Number: L2510462

Report Date: 06/05/25

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Volatile Organics in Air - Mansfield Air Lab Associated sample(s): 01-04,06-11 QC Batch ID: WG2040290-5 QC Sample: L2510462-10 Client ID: AA-TESTPORT99-02252025						
p/m-Xylene	6.62	6.80	ppbV	3		25
Bromoform	ND	ND	ppbV	NC		25
Styrene	ND	ND	ppbV	NC		25
1,1,2,2-Tetrachloroethane	ND	ND	ppbV	NC		25
o-Xylene	1.32	1.36	ppbV	3		25
4-Ethyltoluene	ND	ND	ppbV	NC		25
1,3,5-Trimethylbenzene	ND	ND	ppbV	NC		25
1,2,4-Trimethylbenzene	ND	ND	ppbV	NC		25
Benzyl chloride	ND	ND	ppbV	NC		25
1,3-Dichlorobenzene	ND	ND	ppbV	NC		25
1,4-Dichlorobenzene	ND	ND	ppbV	NC		25
1,2-Dichlorobenzene	ND	ND	ppbV	NC		25
Hexachlorobutadiene	ND	ND	ppbV	NC		25

Lab Duplicate Analysis

Batch Quality Control

Project Name: SOUTH BUFFALO DEVELOPMENT LLC
Project Number: BUFFALO COLOR-AREA C

Lab Number: L2510462
Report Date: 06/05/25

Parameter	Native Sample	Duplicate Sample	Units	RPD	Qual	RPD Limits
Volatile Organics in Air by SIM - Mansfield Air Lab Associated sample(s): 01-04,06-11 QC Batch ID: WG2040291-5 QC Sample: L2510462-10 Client ID: AA-TESTPORT99-02252025						
Vinyl chloride	ND	ND	ppbV	NC		25
1,1-Dichloroethene	ND	ND	ppbV	NC		25
cis-1,2-Dichloroethene	ND	ND	ppbV	NC		25
1,1,1-Trichloroethane	0.075	0.076	ppbV	1		25
Carbon tetrachloride	0.066	0.070	ppbV	6		25
Trichloroethene	ND	ND	ppbV	NC		25
Tetrachloroethene	18.4	18.5	ppbV	1		25
1,2,4-Trichlorobenzene	ND	ND	ppbV	NC		25
Naphthalene	0.102	0.103	ppbV	1		25

Project Name: SOUTH BUFFALO DEVELOPMENT LLC

Serial_No: 06052516:25
Lab Number: L2510462

Project Number: BUFFALO COLOR-AREA C

Report Date: 06/05/25

Canister and Flow Controller Information

Samplenum	Client ID	Media ID	Media Type	Date Prepared	Bottle Order	Cleaning Batch ID	Can Leak Check	Initial Pressure (in. Hg)	Pressure on Receipt	Flow Controller Leak Chk	Flow Out mL/min	Flow In	% RPD
L2510462-01	AA-TESTPORT2-02252025	01812	Flow 5	02/21/25	508938		-	-	-	Pass	4.5	4.6	2
L2510462-01	AA-TESTPORT2-02252025	3748	2.7L Can	02/18/25	507278	L2507964-02	Pass	-29.8	-6.7	-	-	-	-
L2510462-02	SS-TESTPORT2-02252025	02144	Flow 2	02/21/25	508938		-	-	-	Pass	4.5	5.1	13
L2510462-02	SS-TESTPORT2-02252025	490	2.7L Can	02/18/25	507278	L2507964-02	Pass	-29.8	-2.9	-	-	-	-
L2510462-03	AA-TESTPORT3-02252025	01132	Flow 2	02/21/25	508938		-	-	-	Pass	4.5	6.0	29
L2510462-03	AA-TESTPORT3-02252025	239	2.7L Can	02/18/25	507278	L2507964-02	Pass	-29.8	-3.4	-	-	-	-
L2510462-04	SS-TESTPORT3-02252025	01637	Flow 1	02/21/25	508938		-	-	-	Pass	4.5	4.9	9
L2510462-04	SS-TESTPORT3-02252025	461	2.7L Can	02/18/25	507278	L2507964-02	Pass	-29.0	-7.4	-	-	-	-
L2510462-05	AA-TESTPORT4-02252025	02829	Flow 5	02/21/25	508938		-	-	-	Pass	4.2	4.3	2
L2510462-05	AA-TESTPORT4-02252025	3708	2.7L Can	02/18/25	507278	L2507964-02	Pass	-29.8	-9.1	-	-	-	-
L2510462-06	SS-TESTPORT4-02252025	01425	Flow 5	02/21/25	508938		-	-	-	Pass	4.6	4.9	6
L2510462-06	SS-TESTPORT4-02252025	2181	2.7L Can	02/18/25	507278	L2507964-02	Pass	-29.7	-3.9	-	-	-	-
L2510462-07	AA-TESTPORT5-02252025	0482	Flow 5	02/21/25	508938		-	-	-	Pass	4.5	4.7	4
L2510462-07	AA-TESTPORT5-02252025	2998	2.7L Can	02/18/25	507278	L2506480-02	Pass	-29.5	-5.2	-	-	-	-
L2510462-08	SS-TESTPORT5-02252025	01277	Flow 5	02/21/25	508938		-	-	-	Pass	4.5	4.9	9

Project Name: SOUTH BUFFALO DEVELOPMENT LLC

Lab Number: Serial_No:06052516:25
L2510462

Project Number: BUFFALO COLOR-AREA C

Report Date: 06/05/25

Canister and Flow Controller Information

Samplenum	Client ID	Media ID	Media Type	Date Prepared	Bottle Order	Cleaning Batch ID	Can Leak Check	Initial Pressure (in. Hg)	Pressure on Receipt	Flow Controller Leak Chk	Flow Out mL/min	Flow In	% RPD
L2510462-08	SS-TESTPORT5-02252025	174	2.7L Can	02/18/25	507278	L2507964-02	Pass	-29.6	-5.2	-	-	-	-
L2510462-09	AA-OUTDOOR-02252025	02160	Flow 5	02/21/25	508938		-	-	-	Pass	4.4	4.2	5
L2510462-09	AA-OUTDOOR-02252025	407	2.7L Can	02/18/25	507278	L2507964-02	Pass	-29.7	-4.0	-	-	-	-
L2510462-10	AA-TESTPORT99-02252025	02789	Flow 5	02/21/25	508938		-	-	-	Pass	4.5	4.6	2
L2510462-10	AA-TESTPORT99-02252025	2613	2.7L Can	02/18/25	507278	L2507964-02	Pass	-29.0	-4.7	-	-	-	-
L2510462-11	SS-TESTPORT99-02252025	02071	Flow 5	02/21/25	508938		-	-	-	Pass	4.5	4.7	4
L2510462-11	SS-TESTPORT99-02252025	3168	2.7L Can	02/18/25	507278	L2507964-02	Pass	-29.9	-4.9	-	-	-	-

Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L2506480
Report Date: 06/05/25

Air Canister Certification Results

Lab ID: L2506480-02
Client ID: CAN 537 SHELF 3
Sample Location:

Date Collected: 02/05/25 18:00
Date Received: 02/06/25
Field Prep: Not Specified

Sample Depth:
Matrix: Air
Analytical Method: 48,TO-15
Analytical Date: 02/06/25 20:45
Analyst: JFI

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Air Lab								
Chlorodifluoromethane	ND	0.200	--	ND	0.707	--		1
Propylene	ND	0.500	--	ND	0.861	--		1
Propane	ND	0.500	--	ND	0.902	--		1
Dichlorodifluoromethane	ND	0.200	--	ND	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
Freon-114	ND	0.200	--	ND	1.40	--		1
Methanol	ND	5.00	--	ND	6.55	--		1
Vinyl chloride	ND	0.200	--	ND	0.511	--		1
1,3-Butadiene	ND	0.200	--	ND	0.442	--		1
Butane	ND	0.200	--	ND	0.475	--		1
Bromomethane	ND	0.200	--	ND	0.777	--		1
Chloroethane	ND	0.200	--	ND	0.528	--		1
Ethanol	ND	5.00	--	ND	9.42	--		1
Dichlorofluoromethane	ND	0.200	--	ND	0.842	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acrolein	ND	0.500	--	ND	1.15	--		1
Acetone	ND	1.00	--	ND	2.38	--		1
Acetonitrile	ND	0.200	--	ND	0.336	--		1
Trichlorofluoromethane	ND	0.200	--	ND	1.12	--		1
Isopropanol	ND	1.00	--	ND	2.46	--		1
Acrylonitrile	ND	0.500	--	ND	1.09	--		1
Pentane	ND	0.200	--	ND	0.590	--		1
Ethyl ether	ND	0.200	--	ND	0.606	--		1
1,1-Dichloroethene	ND	0.200	--	ND	0.793	--		1



Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L2506480
Report Date: 06/05/25

Air Canister Certification Results

Lab ID: L2506480-02
Client ID: CAN 537 SHELF 3
Sample Location:

Date Collected: 02/05/25 18:00
Date Received: 02/06/25
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Air Lab								
Tertiary butyl Alcohol	ND	0.500	--	ND	1.52	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	ND	0.200	--	ND	0.623	--		1
Freon-113	ND	0.200	--	ND	1.53	--		1
trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
1,1-Dichloroethane	ND	0.200	--	ND	0.809	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
Vinyl acetate	ND	1.00	--	ND	3.52	--		1
Xylenes, total	ND	0.600	--	ND	0.869	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1
cis-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1
Chloroform	ND	0.200	--	ND	0.977	--		1
Tetrahydrofuran	ND	0.500	--	ND	1.47	--		1
2,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1
n-Hexane	ND	0.200	--	ND	0.705	--		1
Diisopropyl ether	ND	0.200	--	ND	0.836	--		1
tert-Butyl Ethyl Ether	ND	0.200	--	ND	0.836	--		1
1,2-Dichloroethene (total)	ND	1.00	--	ND	1.00	--		1
1,1,1-Trichloroethane	ND	0.200	--	ND	1.09	--		1
1,1-Dichloropropene	ND	0.200	--	ND	0.908	--		1
Benzene	ND	0.200	--	ND	0.639	--		1
Carbon tetrachloride	ND	0.200	--	ND	1.26	--		1
Cyclohexane	ND	0.200	--	ND	0.688	--		1
tert-Amyl Methyl Ether	ND	0.200	--	ND	0.836	--		1



Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L2506480
Report Date: 06/05/25

Air Canister Certification Results

Lab ID: L2506480-02
Client ID: CAN 537 SHELF 3
Sample Location:

Date Collected: 02/05/25 18:00
Date Received: 02/06/25
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Air Lab								
Dibromomethane	ND	0.200	--	ND	1.42	--		1
1,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
Bromodichloromethane	ND	0.200	--	ND	1.34	--		1
1,4-Dioxane	ND	0.200	--	ND	0.721	--		1
Trichloroethene	ND	0.200	--	ND	1.07	--		1
2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--		1
Methyl Methacrylate	ND	0.500	--	ND	2.05	--		1
Heptane	ND	0.200	--	ND	0.820	--		1
cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Toluene	ND	0.200	--	ND	0.754	--		1
1,3-Dichloropropane	ND	0.200	--	ND	0.924	--		1
2-Hexanone	ND	0.200	--	ND	0.820	--		1
Dibromochloromethane	ND	0.200	--	ND	1.70	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1
Butyl acetate	ND	0.500	--	ND	2.38	--		1
Octane	ND	0.200	--	ND	0.934	--		1
Tetrachloroethene	ND	0.200	--	ND	1.36	--		1
1,1,1,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
Chlorobenzene	ND	0.200	--	ND	0.921	--		1
Ethylbenzene	ND	0.200	--	ND	0.869	--		1
p/m-Xylene	ND	0.400	--	ND	1.74	--		1
Bromoform	ND	0.200	--	ND	2.07	--		1
Styrene	ND	0.200	--	ND	0.852	--		1
1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1



Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L2506480
Report Date: 06/05/25

Air Canister Certification Results

Lab ID: L2506480-02
Client ID: CAN 537 SHELF 3
Sample Location:

Date Collected: 02/05/25 18:00
Date Received: 02/06/25
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Air Lab								
o-Xylene	ND	0.200	--	ND	0.869	--		1
1,2,3-Trichloropropane	ND	0.200	--	ND	1.21	--		1
Nonane	ND	0.200	--	ND	1.05	--		1
Isopropylbenzene	ND	0.200	--	ND	0.983	--		1
Bromobenzene	ND	0.200	--	ND	0.793	--		1
2-Chlorotoluene	ND	0.200	--	ND	1.04	--		1
n-Propylbenzene	ND	0.200	--	ND	0.983	--		1
4-Chlorotoluene	ND	0.200	--	ND	1.04	--		1
4-Ethyltoluene	ND	0.200	--	ND	0.983	--		1
1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
tert-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2,4-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
Decane	ND	0.200	--	ND	1.16	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
sec-Butylbenzene	ND	0.200	--	ND	1.10	--		1
p-Isopropyltoluene	ND	0.200	--	ND	1.10	--		1
1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
n-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2-Dibromo-3-chloropropane	ND	0.200	--	ND	1.93	--		1
Undecane	ND	0.200	--	ND	1.28	--		1
Dodecane	ND	0.200	--	ND	1.39	--		1
1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Naphthalene	ND	0.200	--	ND	0.996	--		1
1,2,3-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1



Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L2506480
Report Date: 06/05/25

Air Canister Certification Results

Lab ID: L2506480-02
 Client ID: CAN 537 SHELF 3
 Sample Location:

Date Collected: 02/05/25 18:00
 Date Received: 02/06/25
 Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Air Lab								

Results	Qualifier	Units	RDL	Dilution Factor
Tentatively Identified Compounds				
No Tentatively Identified Compounds				

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	100		60-140
Bromochloromethane	101		60-140
chlorobenzene-d5	101		60-140



Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L2506480
Report Date: 06/05/25

Air Canister Certification Results

Lab ID: L2506480-02
Client ID: CAN 537 SHELF 3
Sample Location:

Date Collected: 02/05/25 18:00
Date Received: 02/06/25
Field Prep: Not Specified

Sample Depth:
Matrix: Air
Analytical Method: 48,TO-15-SIM
Analytical Date: 02/06/25 20:45
Analyst: JFI

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Air Lab								
Dichlorodifluoromethane	ND	0.200	--	ND	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
Freon-114	ND	0.050	--	ND	0.349	--		1
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,3-Butadiene	ND	0.020	--	ND	0.044	--		1
Bromomethane	ND	0.020	--	ND	0.078	--		1
Chloroethane	ND	0.100	--	ND	0.264	--		1
Acrolein	ND	0.050	--	ND	0.115	--		1
Acetone	ND	1.00	--	ND	2.38	--		1
Trichlorofluoromethane	ND	0.050	--	ND	0.281	--		1
Acrylonitrile	ND	0.500	--	ND	1.09	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
Freon-113	ND	0.050	--	ND	0.383	--		1
trans-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1-Dichloroethane	ND	0.020	--	ND	0.081	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Chloroform	ND	0.020	--	ND	0.098	--		1
1,2-Dichloroethane	ND	0.020	--	ND	0.081	--		1
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Benzene	ND	0.100	--	ND	0.319	--		1
Carbon tetrachloride	ND	0.020	--	ND	0.126	--		1



Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L2506480
Report Date: 06/05/25

Air Canister Certification Results

Lab ID: L2506480-02
Client ID: CAN 537 SHELF 3
Sample Location:

Date Collected: 02/05/25 18:00
Date Received: 02/06/25
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Air Lab								
1,2-Dichloropropane	ND	0.020	--	ND	0.092	--		1
Bromodichloromethane	ND	0.020	--	ND	0.134	--		1
1,4-Dioxane	ND	0.100	--	ND	0.360	--		1
Trichloroethene	ND	0.020	--	ND	0.107	--		1
cis-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
1,1,2-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Toluene	ND	0.100	--	ND	0.377	--		1
Dibromochloromethane	ND	0.020	--	ND	0.170	--		1
1,2-Dibromoethane	ND	0.020	--	ND	0.154	--		1
Tetrachloroethene	ND	0.020	--	ND	0.136	--		1
1,1,1,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1
Chlorobenzene	ND	0.100	--	ND	0.461	--		1
Ethylbenzene	ND	0.020	--	ND	0.087	--		1
p/m-Xylene	ND	0.040	--	ND	0.174	--		1
Bromoform	ND	0.020	--	ND	0.207	--		1
Styrene	ND	0.020	--	ND	0.085	--		1
1,1,1,2,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1
o-Xylene	ND	0.020	--	ND	0.087	--		1
Isopropylbenzene	ND	0.200	--	ND	0.983	--		1
4-Ethyltoluene	ND	0.020	--	ND	0.098	--		1
1,3,5-Trimethybenzene	ND	0.020	--	ND	0.098	--		1
1,2,4-Trimethylbenzene	ND	0.020	--	ND	0.098	--		1
Benzyl chloride	ND	0.100	--	ND	0.518	--		1
1,3-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
1,4-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1



Project Name: BATCH CANISTER CERTIFICATION**Lab Number:** L2506480**Project Number:** CANISTER QC BAT**Report Date:** 06/05/25**Air Canister Certification Results**

Lab ID: L2506480-02

Date Collected: 02/05/25 18:00

Client ID: CAN 537 SHELF 3

Date Received: 02/06/25

Sample Location:

Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Air Lab								
sec-Butylbenzene	ND	0.200	--	ND	1.10	--		1
p-Isopropyltoluene	ND	0.200	--	ND	1.10	--		1
1,2-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
n-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2,4-Trichlorobenzene	ND	0.050	--	ND	0.371	--		1
Naphthalene	ND	0.050	--	ND	0.262	--		1
1,2,3-Trichlorobenzene	ND	0.050	--	ND	0.371	--		1
Hexachlorobutadiene	ND	0.050	--	ND	0.533	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-difluorobenzene	93		60-140
bromochloromethane	97		60-140
chlorobenzene-d5	97		60-140



Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L2507964
Report Date: 06/05/25

Air Canister Certification Results

Lab ID: L2507964-02
Client ID: CAN 3440 SHELF 8
Sample Location:

Date Collected: 02/12/25 18:00
Date Received: 02/13/25
Field Prep: Not Specified

Sample Depth:
Matrix: Air
Analytical Method: 48,TO-15
Analytical Date: 02/13/25 22:39
Analyst: JFI

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Air Lab								
Chlorodifluoromethane	ND	0.200	--	ND	0.707	--		1
Propylene	ND	0.500	--	ND	0.861	--		1
Propane	ND	0.500	--	ND	0.902	--		1
Dichlorodifluoromethane	ND	0.200	--	ND	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
Freon-114	ND	0.200	--	ND	1.40	--		1
Methanol	ND	5.00	--	ND	6.55	--		1
Vinyl chloride	ND	0.200	--	ND	0.511	--		1
1,3-Butadiene	ND	0.200	--	ND	0.442	--		1
Butane	ND	0.200	--	ND	0.475	--		1
Bromomethane	ND	0.200	--	ND	0.777	--		1
Chloroethane	ND	0.200	--	ND	0.528	--		1
Ethanol	ND	5.00	--	ND	9.42	--		1
Dichlorofluoromethane	ND	0.200	--	ND	0.842	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acrolein	ND	0.500	--	ND	1.15	--		1
Acetone	ND	1.00	--	ND	2.38	--		1
Acetonitrile	ND	0.200	--	ND	0.336	--		1
Trichlorofluoromethane	ND	0.200	--	ND	1.12	--		1
Isopropanol	ND	1.00	--	ND	2.46	--		1
Acrylonitrile	ND	0.500	--	ND	1.09	--		1
Pentane	ND	0.200	--	ND	0.590	--		1
Ethyl ether	ND	0.200	--	ND	0.606	--		1
1,1-Dichloroethene	ND	0.200	--	ND	0.793	--		1



Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L2507964
Report Date: 06/05/25

Air Canister Certification Results

Lab ID: L2507964-02
Client ID: CAN 3440 SHELF 8
Sample Location:

Date Collected: 02/12/25 18:00
Date Received: 02/13/25
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Air Lab								
Tertiary butyl Alcohol	ND	0.500	--	ND	1.52	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	ND	0.200	--	ND	0.623	--		1
Freon-113	ND	0.200	--	ND	1.53	--		1
trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
1,1-Dichloroethane	ND	0.200	--	ND	0.809	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
Vinyl acetate	ND	1.00	--	ND	3.52	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1
Xylenes, total	ND	0.600	--	ND	0.869	--		1
cis-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1
Chloroform	ND	0.200	--	ND	0.977	--		1
Tetrahydrofuran	ND	0.500	--	ND	1.47	--		1
2,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1
n-Hexane	ND	0.200	--	ND	0.705	--		1
Diisopropyl ether	ND	0.200	--	ND	0.836	--		1
tert-Butyl Ethyl Ether	ND	0.200	--	ND	0.836	--		1
1,2-Dichloroethene (total)	ND	1.00	--	ND	1.00	--		1
1,1,1-Trichloroethane	ND	0.200	--	ND	1.09	--		1
1,1-Dichloropropene	ND	0.200	--	ND	0.908	--		1
Benzene	ND	0.200	--	ND	0.639	--		1
Carbon tetrachloride	ND	0.200	--	ND	1.26	--		1
Cyclohexane	ND	0.200	--	ND	0.688	--		1
tert-Amyl Methyl Ether	ND	0.200	--	ND	0.836	--		1



Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L2507964
Report Date: 06/05/25

Air Canister Certification Results

Lab ID: L2507964-02
Client ID: CAN 3440 SHELF 8
Sample Location:

Date Collected: 02/12/25 18:00
Date Received: 02/13/25
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Air Lab								
Dibromomethane	ND	0.200	--	ND	1.42	--		1
1,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
Bromodichloromethane	ND	0.200	--	ND	1.34	--		1
1,4-Dioxane	ND	0.200	--	ND	0.721	--		1
Trichloroethene	ND	0.200	--	ND	1.07	--		1
2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--		1
Methyl Methacrylate	ND	0.500	--	ND	2.05	--		1
Heptane	ND	0.200	--	ND	0.820	--		1
cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Toluene	ND	0.200	--	ND	0.754	--		1
1,3-Dichloropropane	ND	0.200	--	ND	0.924	--		1
2-Hexanone	ND	0.200	--	ND	0.820	--		1
Dibromochloromethane	ND	0.200	--	ND	1.70	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1
Butyl acetate	ND	0.500	--	ND	2.38	--		1
Octane	ND	0.200	--	ND	0.934	--		1
Tetrachloroethene	ND	0.200	--	ND	1.36	--		1
1,1,1,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
Chlorobenzene	ND	0.200	--	ND	0.921	--		1
Ethylbenzene	ND	0.200	--	ND	0.869	--		1
p/m-Xylene	ND	0.400	--	ND	1.74	--		1
Bromoform	ND	0.200	--	ND	2.07	--		1
Styrene	ND	0.200	--	ND	0.852	--		1
1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1



Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L2507964
Report Date: 06/05/25

Air Canister Certification Results

Lab ID: L2507964-02
Client ID: CAN 3440 SHELF 8
Sample Location:

Date Collected: 02/12/25 18:00
Date Received: 02/13/25
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Air Lab								
o-Xylene	ND	0.200	--	ND	0.869	--		1
1,2,3-Trichloropropane	ND	0.200	--	ND	1.21	--		1
Nonane	ND	0.200	--	ND	1.05	--		1
Isopropylbenzene	ND	0.200	--	ND	0.983	--		1
Bromobenzene	ND	0.200	--	ND	0.793	--		1
2-Chlorotoluene	ND	0.200	--	ND	1.04	--		1
n-Propylbenzene	ND	0.200	--	ND	0.983	--		1
4-Chlorotoluene	ND	0.200	--	ND	1.04	--		1
4-Ethyltoluene	ND	0.200	--	ND	0.983	--		1
1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
tert-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2,4-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
Decane	ND	0.200	--	ND	1.16	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
sec-Butylbenzene	ND	0.200	--	ND	1.10	--		1
p-Isopropyltoluene	ND	0.200	--	ND	1.10	--		1
1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
n-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2-Dibromo-3-chloropropane	ND	0.200	--	ND	1.93	--		1
Undecane	ND	0.200	--	ND	1.28	--		1
Dodecane	ND	0.200	--	ND	1.39	--		1
1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Naphthalene	ND	0.200	--	ND	0.996	--		1
1,2,3-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1



Project Name: BATCH CANISTER CERTIFICATION**Lab Number:** L2507964**Project Number:** CANISTER QC BAT**Report Date:** 06/05/25**Air Canister Certification Results**

Lab ID: L2507964-02

Date Collected: 02/12/25 18:00

Client ID: CAN 3440 SHELF 8

Date Received: 02/13/25

Sample Location:

Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Air Lab								

Results	Qualifier	Units	RDL	Dilution Factor
Tentatively Identified Compounds				

No Tentatively Identified Compounds

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	90		60-140
Bromochloromethane	95		60-140
chlorobenzene-d5	88		60-140



Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L2507964
Report Date: 06/05/25

Air Canister Certification Results

Lab ID: L2507964-02
Client ID: CAN 3440 SHELF 8
Sample Location:

Date Collected: 02/12/25 18:00
Date Received: 02/13/25
Field Prep: Not Specified

Sample Depth:
Matrix: Air
Analytical Method: 48,TO-15-SIM
Analytical Date: 02/13/25 22:39
Analyst: JFI

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Air Lab								
Dichlorodifluoromethane	ND	0.200	--	ND	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
Freon-114	ND	0.050	--	ND	0.349	--		1
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,3-Butadiene	ND	0.020	--	ND	0.044	--		1
Bromomethane	ND	0.020	--	ND	0.078	--		1
Chloroethane	ND	0.100	--	ND	0.264	--		1
Acrolein	ND	0.050	--	ND	0.115	--		1
Acetone	ND	1.00	--	ND	2.38	--		1
Trichlorofluoromethane	ND	0.050	--	ND	0.281	--		1
Acrylonitrile	ND	0.500	--	ND	1.09	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
Freon-113	ND	0.050	--	ND	0.383	--		1
trans-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1-Dichloroethane	ND	0.020	--	ND	0.081	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Chloroform	ND	0.020	--	ND	0.098	--		1
1,2-Dichloroethane	ND	0.020	--	ND	0.081	--		1
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Benzene	ND	0.100	--	ND	0.319	--		1
Carbon tetrachloride	ND	0.020	--	ND	0.126	--		1



Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L2507964
Report Date: 06/05/25

Air Canister Certification Results

Lab ID: L2507964-02
Client ID: CAN 3440 SHELF 8
Sample Location:

Date Collected: 02/12/25 18:00
Date Received: 02/13/25
Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Air Lab								
1,2-Dichloropropane	ND	0.020	--	ND	0.092	--		1
Bromodichloromethane	ND	0.020	--	ND	0.134	--		1
1,4-Dioxane	ND	0.100	--	ND	0.360	--		1
Trichloroethene	ND	0.020	--	ND	0.107	--		1
cis-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
1,1,2-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Toluene	ND	0.100	--	ND	0.377	--		1
Dibromochloromethane	ND	0.020	--	ND	0.170	--		1
1,2-Dibromoethane	ND	0.020	--	ND	0.154	--		1
Tetrachloroethene	ND	0.020	--	ND	0.136	--		1
1,1,1,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1
Chlorobenzene	ND	0.100	--	ND	0.461	--		1
Ethylbenzene	ND	0.020	--	ND	0.087	--		1
p/m-Xylene	ND	0.040	--	ND	0.174	--		1
Bromoform	ND	0.020	--	ND	0.207	--		1
Styrene	ND	0.020	--	ND	0.085	--		1
1,1,1,2,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1
o-Xylene	ND	0.020	--	ND	0.087	--		1
Isopropylbenzene	ND	0.200	--	ND	0.983	--		1
4-Ethyltoluene	ND	0.020	--	ND	0.098	--		1
1,3,5-Trimethybenzene	ND	0.020	--	ND	0.098	--		1
1,2,4-Trimethylbenzene	ND	0.020	--	ND	0.098	--		1
Benzyl chloride	ND	0.100	--	ND	0.518	--		1
1,3-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
1,4-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1



Project Name: BATCH CANISTER CERTIFICATION**Lab Number:** L2507964**Project Number:** CANISTER QC BAT**Report Date:** 06/05/25**Air Canister Certification Results**

Lab ID: L2507964-02

Date Collected: 02/12/25 18:00

Client ID: CAN 3440 SHELF 8

Date Received: 02/13/25

Sample Location:

Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Air Lab								
sec-Butylbenzene	ND	0.200	--	ND	1.10	--		1
p-Isopropyltoluene	ND	0.200	--	ND	1.10	--		1
1,2-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
n-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2,4-Trichlorobenzene	ND	0.050	--	ND	0.371	--		1
Naphthalene	ND	0.050	--	ND	0.262	--		1
1,2,3-Trichlorobenzene	ND	0.050	--	ND	0.371	--		1
Hexachlorobutadiene	ND	0.050	--	ND	0.533	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-difluorobenzene	90		60-140
bromochloromethane	95		60-140
chlorobenzene-d5	88		60-140



Project Name: SOUTH BUFFALO DEVELOPMENT LLC**Lab Number:** L2510462**Project Number:** BUFFALO COLOR-AREA C**Report Date:** 06/05/25**Sample Receipt and Container Information**

Were project specific reporting limits specified?

YES

Cooler Information**Cooler** **Custody Seal**

NA Absent

Container Information

Container ID	Container Type	Cooler	Initial pH	Final pH	Temp deg C	Pres	Seal	Frozen Date/Time	Analysis(*)
L2510462-01A	Canister - 2.7L (Batch Certified)	NA	NA			Y	Absent		TO15-SIM(30),TO15-LL(30)
L2510462-02A	Canister - 2.7L (Batch Certified)	NA	NA			Y	Absent		TO15-LL(30),TO15-SIM(30)
L2510462-03A	Canister - 2.7L (Batch Certified)	NA	NA			Y	Absent		TO15-SIM(30),TO15-LL(30)
L2510462-04A	Canister - 2.7L (Batch Certified)	NA	NA			Y	Absent		TO15-LL(30),TO15-SIM(30)
L2510462-05A	Canister - 2.7L (Batch Certified)	NA	NA			Y	Absent		TO15-LL(30),TO15-SIM(30)
L2510462-06A	Canister - 2.7L (Batch Certified)	NA	NA			Y	Absent		TO15-LL(30),TO15-SIM(30)
L2510462-07A	Canister - 2.7L (Batch Certified)	NA	NA			Y	Absent		TO15-SIM(30),TO15-LL(30)
L2510462-08A	Canister - 2.7L (Batch Certified)	NA	NA			Y	Absent		TO15-LL(30),TO15-SIM(30)
L2510462-09A	Canister - 2.7L (Batch Certified)	NA	NA			Y	Absent		TO15-SIM(30),TO15-LL(30)
L2510462-10A	Canister - 2.7L (Batch Certified)	NA	NA			Y	Absent		TO15-LL(30),TO15-SIM(30)
L2510462-11A	Canister - 2.7L (Batch Certified)	NA	NA			Y	Absent		TO15-SIM(30),TO15-LL(30)

Project Name: SOUTH BUFFALO DEVELOPMENT LLC
Project Number: BUFFALO COLOR-AREA C

Lab Number: L2510462
Report Date: 06/05/25

GLOSSARY

Acronyms

DL	- Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the limit of quantitation (LOQ). The DL includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
EDL	- Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).
EMPC	- Estimated Maximum Possible Concentration: The concentration that results from the signal present at the retention time of an analyte when the ions meet all of the identification criteria except the ion abundance ratio criteria. An EMPC is a worst-case estimate of the concentration.
EPA	- Environmental Protection Agency.
LCS	- Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LCSD	- Laboratory Control Sample Duplicate: Refer to LCS.
LFB	- Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LOD	- Limit of Detection: This value represents the level to which a target analyte can reliably be detected for a specific analyte in a specific matrix by a specific method. The LOD includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
LOQ	- Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.) Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
MDL	- Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
MS	- Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available. For Method 332.0, the spike recovery is calculated using the native concentration, including estimated values.
MSD	- Matrix Spike Sample Duplicate: Refer to MS.
NA	- Not Applicable.
NC	- Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.
NDPA/DPA	- N-Nitrosodiphenylamine/Diphenylamine.
NI	- Not Ignitable.
NP	- Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.
NR	- No Results: Term is utilized when 'No Target Compounds Requested' is reported for the analysis of Volatile or Semivolatile Organic TIC only requests.
RL	- Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
RPD	- Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.
SRM	- Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.
STLP	- Semi-dynamic Tank Leaching Procedure per EPA Method 1315.
TEF	- Toxic Equivalency Factors: The values assigned to each dioxin and furan to evaluate their toxicity relative to 2,3,7,8-TCDD.
TEQ	- Toxic Equivalent: The measure of a sample's toxicity derived by multiplying each dioxin and furan by its corresponding TEF and then summing the resulting values.
TIC	- Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

Report Format: Data Usability Report



Project Name: SOUTH BUFFALO DEVELOPMENT LLC
Project Number: BUFFALO COLOR-AREA C

Lab Number: L2510462
Report Date: 06/05/25

Footnotes

- 1 - The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Chlordane: The target compound Chlordane (CAS No. 57-74-9) is reported for GC ECD analyses. Per EPA, this compound "refers to a mixture of chlordane isomers, other chlorinated hydrocarbons and numerous other components." (Reference: USEPA Toxicological Review of Chlordane, In Support of Summary Information on the Integrated Risk Information System (IRIS), December 1997.)

Difference: With respect to Total Oxidizable Precursor (TOP) Assay analysis, the difference is defined as the Post-Treatment value minus the Pre-Treatment value.

Final pH: As it pertains to Sample Receipt & Container Information section of the report, Final pH reflects pH of container determined after adjustment at the laboratory, if applicable. If no adjustment required, value reflects Initial pH.

Frozen Date/Time: With respect to Volatile Organics in soil, Frozen Date/Time reflects the date/time at which associated Reagent Water-preserved vials were initially frozen. Note: If frozen date/time is beyond 48 hours from sample collection, value will be reflected in 'bold'.

Gasoline Range Organics (GRO): Gasoline Range Organics (GRO) results include all chromatographic peaks eluting from Methyl tert butyl ether through Naphthalene, with the exception of GRO analysis in support of State of Ohio programs, which includes all chromatographic peaks eluting from Hexane through Dodecane.

Initial pH: As it pertains to Sample Receipt & Container Information section of the report, Initial pH reflects pH of container determined upon receipt, if applicable.

PAH Total: With respect to Alkylated PAH analyses, the 'PAHs, Total' result is defined as the summation of results for all or a subset of the following compounds: Naphthalene, C1-C4 Naphthalenes, 2-Methylnaphthalene, 1-Methylnaphthalene, Biphenyl, Acenaphthylene, Acenaphthene, Fluorene, C1-C3 Fluorenes, Phenanthrene, C1-C4 Phenanthrenes/Anthracenes, Anthracene, Fluoranthene, Pyrene, C1-C4 Fluoranthenes/Pyrenes, Benz(a)anthracene, Chrysene, C1-C4 Chrysenes, Benzo(b)fluoranthene, Benzo(j)+(k)fluoranthene, Benzo(e)pyrene, Benzo(a)pyrene, Perylene, Indeno(1,2,3-cd)pyrene, Dibenz(ah)+(ac)anthracene, Benzo(g,h,i)perylene. If a 'Total' result is requested, the results of its individual components will also be reported.

PFAS Total: With respect to PFAS analyses, the 'PFAS, Total (5)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA and PFOS. In addition, the 'PFAS, Total (6)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA, PFDA and PFOS. For MassDEP DW compliance analysis only, the 'PFAS, Total (6)' result is defined as the summation of results at or above the RL. Note: If a 'Total' result is requested, the results of its individual components will also be reported.

Total: With respect to Organic analyses, a 'Total' result is defined as the summation of results for individual isomers or Aroclors. If a 'Total' result is requested, the results of its individual components will also be reported. This is applicable to 'Total' results for methods 8260, 8081 and 8082.

Data Qualifiers

- A** - Spectra identified as "Aldol Condensates" are byproducts of the extraction/concentration procedures when acetone is introduced in the process.
- B** - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).
- C** - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.
- D** - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.
- E** - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.
- F** - The ratio of quantifier ion response to qualifier ion response falls outside of the laboratory criteria. Results are considered to be an estimated maximum concentration.
- G** - The concentration may be biased high due to matrix interferences (i.e. co-elution) with non-target compound(s). The result should be considered estimated.
- H** - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.
- I** - The lower value for the two columns has been reported due to obvious interference.
- J** - Estimated value. This represents an estimated concentration for Tentatively Identified Compounds (TICs).
- M** - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.

Report Format: Data Usability Report



Project Name: SOUTH BUFFALO DEVELOPMENT LLC
Project Number: BUFFALO COLOR-AREA C

Lab Number: L2510462
Report Date: 06/05/25

Data Qualifiers

- ND** - Not detected at the reporting limit (RL) for the sample.
- NJ** - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.
- P** - The RPD between the results for the two columns exceeds the method-specified criteria.
- Q** - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)
- R** - Analytical results are from sample re-analysis.
- RE** - Analytical results are from sample re-extraction.
- S** - Analytical results are from modified screening analysis.
- V** - The surrogate associated with this target analyte has a recovery outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)
- Z** - The batch matrix spike and/or duplicate associated with this target analyte has a recovery/RPD outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)

Project Name: SOUTH BUFFALO DEVELOPMENT LLC
Project Number: BUFFALO COLOR-AREA C

Lab Number: L2510462
Report Date: 06/05/25

REFERENCES

- 48 Compendium of Methods for the Determination of Toxic Organic Compounds in Ambient Air. Second Edition. EPA/625/R-96/010b, January 1999.

LIMITATION OF LIABILITIES

Pace Analytical Services performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Pace Analytical Services shall be to re-perform the work at it's own expense. In no event shall Pace Analytical Services be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Pace Analytical Services.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.



Pace Analytical Services LLCFacility: **Northeast**Department: **Quality Assurance**Title: **Certificate/Approval Program Summary**ID No.: **17873**

Revision 27

Published Date: 01/24/2025

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Certification Information**The following analytes are not included in our Primary NELAP Scope of Accreditation:****Westborough Facility – 8 Walkup Dr. Westborough, MA 01581****EPA 624.1:** m/p-xylene, o-xylene, Naphthalene**EPA 625.1:** alpha-Terpineol**EPA 8260D:** NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene; SCM: Iodomethane (methyl iodide), 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.**EPA 8270E:** NPW: Dimethylnaphthalene, 1,4-Diphenylhydrazine, alpha-Terpineol, Azobenzene; SCM: Dimethylnaphthalene, 1,4-Diphenylhydrazine.**SM4500:** NPW: Amenable Cyanide; SCM: Total Phosphorus, TKN, NO₂, NO₃.**Mansfield Facility – 320 Forbes Blvd. Mansfield, MA 02048****SM 2540D:** TSS.**EPA TO-15:** Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene,

3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.

MADEP-APH.**Nonpotable Water:** EPA RSK-175 Dissolved Gases**Biological Tissue Matrix:** EPA 3050B**Mansfield Facility – 120 Forbes Blvd. Mansfield, MA 02048****EPA TO-15:** Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene,

3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.

Nonpotable Water: EPA RSK-175 Dissolved Gases**The following test method is not included in our New Jersey Secondary NELAP Scope of Accreditation:****Mansfield Facility – 320 Forbes Blvd. Mansfield, MA 02048****Determination of Selected Perfluorinated Alkyl Substances by Solid Phase Extraction and Liquid Chromatography/Tandem Mass Spectrometry Isotope Dilution (via Alpha SOP 23528)****The following analytes are included in our Massachusetts DEP Scope of Accreditation****Westborough Facility – 8 Walkup Dr. Westborough, MA 01581*****Drinking Water*****EPA 300.0:** Chloride, Nitrate-N, Fluoride, Sulfate; **EPA 353.2:** Nitrate-N, Nitrite-N; **SM4500NO3-F:** Nitrate-N, Nitrite-N; **SM4500F-C, SM4500CN-CE, EPA 180.1, SM2130B, SM4500Cl-D, SM2320B, SM2540C, SM4500H-B, SM4500NO2-B****EPA 524.2:** THMs and VOCs; **EPA 504.1:** EDB, DBCP.**Microbiology:** SM9215B; SM9223-P/A, SM9223B-Colilert-QT, SM9222D.***Non-Potable Water*****SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2320B, SM4500CL-E, SM4500F-BC, SM4500NH3-BH:** Ammonia-N and Kjeldahl-N, **EPA 350.1:** Ammonia-N, **LCHAT 10-107-06-1-B:** Ammonia-N, **EPA 351.1, SM4500NO3-F, EPA 353.2:** Nitrate-N, **SM4500P-E, SM4500P-B, E, SM4500SO4-E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, EPA 420.1, SM4500-CN-CE, SM2540D, EPA 300:** Chloride, Sulfate, Nitrate.**EPA 624.1:** Volatile Halocarbons & Aromatics,**EPA 608.3:** Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs**EPA 625.1:** SVOC (Acid/Base/Neutral Extractables).**Microbiology:** SM9223B-Colilert-QT; Enterolert-QT, EPA 1600, EPA 1603, SM9222D.**Mansfield Facility – 320 Forbes Blvd. Mansfield, MA 02048*****Drinking Water*****EPA 200.7:** Al, Ba, Cd, Cr, Cu, Fe, Mn, Ni, Na, Ag, Ca, Zn. **EPA 200.8:** Al, Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn. **EPA 245.1 Hg.** **EPA 522, EPA 537.1.*****Non-Potable Water*****EPA 200.7:** Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, TL, Ti, V, Zn.**EPA 200.8:** Al, Sb, As, Be, Cd, Cr, Cu, Fe, Pb, Mn, Ni, K, Se, Ag, Na, TL, Zn.**EPA 245.1 Hg.****SM2340B**

Pace Analytical Services LLCID No.:**17873**Facility: **Northeast**

Revision 27

Department: **Quality Assurance**

Published Date: 01/24/2025

Title: **Certificate/Approval Program Summary**

Page 2 of 2

Certification IDs:**Westborough Facility – 8 Walkup Dr. Westborough, MA 01581**

CT PH-0826, IL 200077, IN C-MA-03, KY JY98045, ME MA00086, MD 348, MA M-MA086, NH 2064, NJ MA935, NY 11148, NC (DW) 25700, NC (NPW/SCM) 666, OR MA-1316, PA 68-03671, RI LAO00065, TX T104704476, VT VT-0935, VA 460195

Mansfield Facility – 320 Forbes Blvd. Mansfield, MA 02048

CT PH-0825, ANAB/DoD L2474, IL 200081, IN C-MA-04, KY KY98046, LA 3090, ME MA00030, MI 9110, MN 025-999-495, NH 2062, NJ MA015, NY 11627, NC (NPW/SCM) 685, OR MA-0262, PA 68-02089, RI LAO00299, TX T-104704419, VT VT-0015, VA 460194, WA C954

Mansfield Facility – 120 Forbes Blvd. Mansfield, MA 02048

ANAB/DoD L2474, ME MA01156, MN 025-999-498, NH 2249, NJ MA025, NY 12191, OR 4203, TX T104704583, VA 460311, WA C1104.

For a complete listing of analytes and methods, please contact your Project Manager.

AIR ANALYSIS

PAGE 1 OF 2

CHAIN OF CUSTODY

320 Forbes Blvd, Mansfield, MA 02048
TEL: 508-822-9300 FAX: 508-822-3288

Client Information

Client: Inventum EngineeringAddress: 441 Carlisle Dr. Suite CHerndon, VAPhone: (518) 844-5745Fax: Todd.Waldrop@inventumeng.comEmail: Austin.Oare@inventumeng.com☐ These samples have been previously analyzed by Alpha

Other Project Specific Requirements/Comments:

Project-Specific Target Compound List: ☐

Project Information

Project Name: South Buffalo Development LLCProject Location: 140 Lee Street, BuffaloProject #: Buffalo Color - Area CProject Manager: Todd Waldrop

ALPHA Quote #:

Turn-Around Time

☒ Standard☐ RUSH (only confirmed if pre-approved!)

Date Due:

Time:

Date Rec'd in Lab: 2/26/25

Report Information - Data Deliverables

☐ FAX☒ ADEx

Criteria Checker:

(Default based on Regulatory Criteria Indicated)

Other Formats:

☒ EMAIL (standard pdf report)☐ Additional Deliverables:

Report to: (if different than Project Manager)

ALPHA Job #: L2510462

Billing Information

☒ Same as Client info

PO #:

Regulatory Requirements/Report Limits

State/Fed Program Res / Comm

NY

All Columns Below Must Be Filled Out

ALPHA Lab ID (Lab Use Only)	Sample ID	COLLECTION			Initial Vacuum	Final Vacuum	Sample Matrix*	Sampler's Initials	Can Size	ID Can	ID - Flow Controller	ANALYSIS					Sample Comments (i.e. PID)
		End Date	Start Time	End Time								TO-15	TO-15 SIM	APH	Fixed Gases	Sulfides & Mercaptans by TO-15	
<u>W0462-01</u>	<u>AA-TESTPORT2-02252025</u>	<u>2/25/25</u>	<u>7:49</u>	<u>3:50</u>	<u>-29.92</u>	<u>-5.22</u>	<u>AA</u>	<u>AO</u>	<u>2.7L</u>	<u>3748</u>	<u>01912</u>	☒	☒				<u>Indoor</u>
<u>02</u>	<u>SS-TESTPORT2-02252025</u>	<u>2/25/25</u>	<u>7:48</u>	<u>3:43</u>	<u>-29.11</u>	<u>-3.03</u>	<u>SV</u>	<u>AO</u>	<u>2.7L</u>	<u>0490</u>	<u>02144</u>	☒	☒				<u>Sub-Slab</u>
<u>03</u>	<u>AA-TESTPORT3-02252025</u>	<u>2/25/25</u>	<u>7:57</u>	<u>2:29</u>	<u>-29.43</u>	<u>-2.90</u>	<u>AA</u>	<u>AO</u>	<u>2.7L</u>	<u>0239</u>	<u>01132</u>	☒	☒				<u>Indoor</u>
<u>04</u>	<u>SS-TESTPORT3-02252025</u>	<u>2/25/25</u>	<u>7:57</u>	<u>3:57</u>	<u>-29.10</u>	<u>-7.7</u>	<u>SV</u>	<u>AO</u>	<u>2.7L</u>	<u>0461</u>	<u>01637</u>	☒	☒				<u>Subslab</u>
<u>05</u>	<u>AA-TESTPORT4-02252025</u>	<u>2/25/25</u>	<u>7:54</u>	<u>3:55</u>	<u>-25.92</u>	<u>-5.34</u>	<u>AA</u>	<u>AO</u>	<u>2.7L</u>	<u>3708</u>	<u>02829</u>	☒	☒				<u>Indoor</u>
<u>06</u>	<u>SS-TESTPORT4-02252025</u>	<u>2/25/25</u>	<u>7:55</u>	<u>3:56</u>	<u>-29.35</u>	<u>-4.09</u>	<u>SV</u>	<u>AO</u>	<u>2.7L</u>	<u>2181</u>	<u>01425</u>	☒	☒				<u>Sub-Slab</u>
<u>07</u>	<u>AA-TESTPORT5-02252025</u>	<u>2/25/25</u>	<u>7:50</u>	<u>3:59</u>	<u>-29.06</u>	<u>-4.78</u>	<u>AA</u>	<u>AO</u>	<u>2.7L</u>	<u>2998</u>	<u>0482</u>	☒	☒				<u>Indoor</u>
<u>08</u>	<u>SS-TESTPORT5-02252025</u>	<u>2/25/25</u>	<u>7:53</u>	<u>4:00</u>	<u>-28.99</u>	<u>-5.52</u>	<u>SV</u>	<u>AO</u>	<u>2.7L</u>	<u>0174</u>	<u>01277</u>	☒	☒				<u>Sub-slab</u>
<u>09</u>	<u>AA-OUTDOOR-02252025</u>	<u>2/25/25</u>	<u>7:44</u>	<u>3:45</u>	<u>-29.00</u>	<u>-5.07</u>	<u>AA</u>	<u>AO</u>	<u>2.7L</u>	<u>0407</u>	<u>02160</u>	☒	☒				<u>Outdoor</u>
<u>10</u>	<u>AA-TESTPORT99-02252025</u>	<u>2/25/25</u>	<u>7:49</u>	<u>3:50</u>	<u>-27.91</u>	<u>-3.90</u>	<u>AA</u>	<u>AO</u>	<u>2.7L</u>	<u>2613</u>	<u>02789</u>	☒	☒				<u>Indoor</u>

*SAMPLE MATRIX CODES

AA = Ambient Air (Indoor/Outdoor)

SV = Soil Vapor/Landfill Gas/SVE

Other = Please Specify

Container Type

Relinquished By:

Date/Time

Received By:

Date/Time:

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. All samples submitted are subject to Alpha's Terms and Conditions. See reverse side.

Email: <u>Austin.Care@inventumeng.com</u>		☒ Standard	☐ RUSH (only confirmed if pre-approved!)
☐ These samples have been previously analyzed by Alpha		Date Due:	Time:
Other Project Specific Requirements/Comments:			
Project-Specific Target Compound List: ☐			

[illegible]

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. All samples submitted are subject to Alpha's Terms and Conditions. See reverse side.

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Chen's Place 2/20/85	0320	Chen's Place	2/20/85	0510
Chen's Place 2/20/85	0510	Chen's Place	2/20/85	0510

Attachment E – Data Usability Summary Report



Data Usability Summary Report

Vali-Data of WNY, LLC
20 Hickory Grove Spur
Fulton, NY 13069

Buffalo Color, 140 Lee St., Buffalo, NY
Pace Analytical Services SDG#L2510462
March 30, 2025
Sampling date: 2/25/2025

Prepared by:
Jodi Zimmerman
Vali-Data of WNY, LLC
20 Hickory Grove Spur
Fulton, NY 13069

Buffalo Color, 140 Lee St., Buffalo, NY
SDG# L2510462

DELIVERABLES

This Data Usability Summary Report (DUSR) was prepared by evaluating the analytical data package for Inventum Engineering, project located at Buffalo Color, 140 Lee St., Buffalo, NY, Pace Analytical Services SDG#L2510462 submitted to Vali-Data of WNY, LLC on March 28, 2025. This DUSR has been prepared in general compliance with NYSDEC Analytical Services Protocols and USEPA National Functional Guidelines (SOP NO. HW-31, revision 6). The laboratory performed the analysis using Compendium of Methods for the Determination of Toxic Organic Compounds, Compendium Method TO-15, January 1999.

DUSR ID	Sample ID	Laboratory ID
1	AA-TESTPORT2-02252025	L2510462-01
2	SS-TESTPORT2-02252025	L2510462-02
3	AA-TESTPORT3-02252025	L2510462-03
4	SS-TESTPORT3-02252025	L2510462-04
5	AA-TESTPORT4-02252025	L2510462-05
6	SS-TESTPORT4-02252025	L2510462-06
7	AA-TESTPORT5-02252025	L2510462-07
8	SS-TESTPORT5-02252025	L2510462-08
9	AA-OUTDOOR-02252025	L2510462-09
10	AA-TESTPORT99-02252025	L2510462-10
11	SS-TESTPORT99-02252025	L2510462-11

VOLATILE ORGANIC COMPOUNDS

The following items/criteria were reviewed for this analytical suite:

- Data Completeness
- Narrative and Data Reporting Forms
- Chain of Custody and Traffic Reports
- Holding Times
- Internal Standard (IS) Area Performance
- Method Blank
- Field Duplicate Sample Precision
- Laboratory Control Samples
- MS/MSD/Duplicate
- Compound Quantitation
- Initial Calibration
- Continuing Calibration
- GC/MS Performance Check
- Canister Certification Blanks

The items listed above were technically in compliance with the method and SOP criteria with

Buffalo Color, 140 Lee St., Buffalo, NY

SDG# L2510462

the exceptions discussed in the text below. The data have been reviewed according to the procedures outlined above and qualified accordingly.

OVERALL EVALUATION OF DATA AND POTENTIAL USABILITY ISSUES

The data are acceptable for use except where qualified below in Laboratory Control Samples, Initial Calibration and Continuing Calibration.

The concentration of all target analytes was recorded to the reporting limits.

DATA COMPLETENESS

All criteria were met.

NARRATIVE AND DATA REPORTING FORMS

All criteria were met except the full NYS list of target analytes was not recorded on the Form 1 for DUSR ID#2. Updated pages are attached.

CHAIN OF CUSTODY AND TRAFFIC REPORTS

All criteria were met.

HOLDING TIMES

All holding times were met.

INTERNAL STANDARD (IS)

All criteria were met.

METHOD BLANK

All criteria were met.

FIELD DUPLICATE SAMPLE PRECISION

All criteria were met except 4-Ethyltoluene, 1,3,5-Trimethylbenzene and 1,2,4-Trimethylbenzene were detected in DUSR ID#1 but were not detected in #10. 2-Hexanone was detected in DUSR ID#11 but was not detected in #2.

LABORATORY CONTROL SAMPLES

All criteria were met except a few target analytes were outside QC limits in a laboratory control sample and should be qualified as estimated.

LCS ID	Target Analyte	%Rec	Qualifier	Associated Sample
WG2040290	Naphthalene	67	UJ	2
WG2040290	Chloromethane	67	UJ/J	1-4, 6-11
WG2040290	Hexachlorobutadiene	50	UJ	1-4, 6-11

The %Rec of some target analytes was outside QC limits, high in the laboratory control samples but were not detected in the associated samples, so no further action is required.

Buffalo Color, 140 Lee St., Buffalo, NY

SDG# L2510462

MS/MSD/DUPLICATE

No MS/MSD was acquired.

All criteria were met for the laboratory duplicate.

COMPOUND QUANTITATION

All criteria were met except Naphthalene was not monitored for DUSR ID#9.

INITIAL CALIBRATION

All criteria were met except several target analytes were outside QC limits in the initial calibrations and/or the initial calibration verifications and should be qualified as estimated in the associated blanks, spikes and samples.

ICal/ICV instrument	Target Analyte	%RSD/%D	Qualifier	Associated Sample
ICal Airlab15	Isopropanol	30.4	UJ/J	WG2040290, 1-4, 6-11
ICV Airlab15	Ethanol	-32.2	UJ/J	WG2040290, 1-4, 6-11
ICal Airlab16	Benzyl chloride	37.1	UJ/J	WG2042684, 5
ICV Airlab16	Tetrahydrofuran	-36.1	UJ/J	WG2042684, 5
ICV Airlab16	Heptane	-30.4	UJ/J	WG2042684, 5
ICV Airlab16	Dibromochloromethane	-43.1	UJ/J	WG2042684, 5
ICV Airlab16	Bromoform	-47.8	UJ/J	WG2042684, 5

Several average RRF values should be reported on Form 6 with an E1. Hand calculations confirmed this. This does not affect the usability of the data.

CONTINUING CALIBRATION

All criteria were met except several target analytes were outside QC limits in the continuing calibrations and should be qualified as estimated in the associated samples, blanks and spikes.

CCal ID	Target Analyte	%D	Qualifier	Associated Sample
WG2040290-2	Chloromethane	32.9	UJ/J	WG2040290, 1-4, 6-11
WG2040290-2	Bromoform	-35.7	UJ/J	WG2040290, 1-4, 6-11
WG2040290-2	Naphthalene	32.9	UJ/J	WG2040290, 2
WG2040290-2	Hexachlorobutadiene	50.2	UJ/J	WG2040290, 1-4, 6-11
WG2042684-2	Isopropanol	35.4	UJ/J	WG2042684, 5

GC/MS PERFORMANCE CHECK

All criteria were met.

CANISTER CERTIFICATION BLANKS

All criteria were met.

Project Name: SOUTH BUFFALO DEVELOPMENT LLC
Project Number: BUFFALO COLOR-AREA C

Lab Number: L2510462
Report Date: 03/20/25

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Pace Lab Number and meet NELAP requirements for all NELAP accredited parameters unless otherwise noted in the following narrative. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. Tentatively Identified Compounds (TICs), if requested, are reported for compounds identified to be present and are not part of the method/program Target Compound List, even if only a subset of the TCL are being reported. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively. When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. All specific QC information is also incorporated in the Data Usability format of our Data Merger tool where it can be reviewed along with any associated usability implications. Soil/sediments, solids and tissues are reported on a dry weight basis unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances the specific failure is not narrated but noted in the associated QC table. The information is also incorporated in the Data Usability format of our Data Merger tool where it can be reviewed along with any associated usability implications.

Please see the associated ADEx data file for a comparison of laboratory reporting limits that were achieved with the regulatory Numerical Standards requested on the Chain of Custody.

HOLD POLICY

For samples submitted on hold, Pace's policy is to hold samples (with the exception of Air canisters) free of charge for 21 calendar days from the date the project is completed. After 21 calendar days, we will dispose of all samples submitted including those put on hold unless you have contacted your Client Service Representative and made arrangements for Pace to continue to hold the samples. Air canisters will be disposed after 3 business days from the date the project is completed.

Please contact Client Services at 800-624-9220 with any questions.

Project Name: SOUTH BUFFALO DEVELOPMENT LLC
Project Number: BUFFALO COLOR-AREA C

Lab Number: L2510462
Report Date: 03/20/25

Case Narrative (continued)

Volatile Organics in Air

Canisters were released from the laboratory on February 18 and 21, 2025. The canister certification data is provided as an addendum.

The WG2040290-3 LCS recovery associated with L2510462-01, -02, -03, -04, -06, -07, -08, -09, -10, and -11 is above the upper 130% acceptance limit for bromoform (136%). All samples associated with this LCS do not have reportable amounts of this analyte. The WG2040290-3 LCS recovery associated with L2510462-01, -02, -03, -04, -06, -07, -08, -09, -10, and -11 is below the acceptance limit for chloromethane and hexachlorobutadiene. All samples associated with this LCS that have reportable amounts of this analyte will be reporting with low bias. WG2040290-3: The [CCAL or LCS] associated with WG2040290-3 did not meet the acceptance criteria for the [full scan] analysis. The associated compound(s) for those samples were reported from the [SIM] analysis. The WG2042684-3 LCS recovery associated with L2510462-05 is above the upper 130% acceptance limit for bromodichloromethane (131%). All samples associated with this LCS do not have reportable amounts of this analyte.

The WG2042684-2 CC recovery associated with L2510462-05 is below acceptance limit for Isopropyl Alcohol. All samples associated with this CC that have reportable amounts of this analyte will be reported with low bias.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature: 

Report Date: 03/20/25

Title: Technical Director/Representative



Laboratory Control Sample Summary

Form 3

Air Volatiles

Client : Inventum Engineering Lab Number : L2510462
 Project Name : SOUTH BUFFALO DEVELOPMENT LLC Project Number : BUFFALO COLOR-AREA C
 Matrix (Level) : AIR (LOW)
 LCS Sample ID : WG2040290-3 Analysis Date : 03/13/25 13:45 File ID : r1648684
 LCSD Sample ID : Analysis Date : File ID :

Parameter	Laboratory Control Sample			Laboratory Control Duplicate			RPD	Recovery Limits	RPD Limit
	True (ppbV)	Found (ppbV)	%R	True (ppbV)	Found (ppbV)	%R			
Dichlorodifluoromethane	10	9.81	98				-	70-130	-
Chloromethane	10	6.70	67 Q				-	70-130	-
Freon-114	10	9.51	95				-	70-130	-
Vinyl chloride	10	10.4	104				-	70-130	-
1,3-Butadiene	10	9.22	92				-	70-130	-
Bromomethane	10	10.2	102				-	70-130	-
Chloroethane	10	10.2	102				-	70-130	-
Ethanol	50	37.9	76				-	40-160	-
Vinyl bromide	10	9.35	94				-	70-130	-
Acetone	50	46.6	93				-	40-160	-
Trichlorofluoromethane	10	7.38	74				-	70-130	-
Isopropanol	25	20.5	82				-	40-160	-
1,1-Dichloroethene	10	9.36	94				-	70-130	-
Tertiary butyl Alcohol	10	7.98	80				-	70-130	-
Methylene chloride	10	7.51	75				-	70-130	-
3-Chloropropene	10	8.72	87				-	70-130	-
Carbon disulfide	10	11.4	114				-	70-130	-
Freon-113	10	9.71	97				-	70-130	-
trans-1,2-Dichloroethene	10	9.65	96				-	70-130	-
1,1-Dichloroethane	10	8.42	84				-	70-130	-
Methyl tert butyl ether	10	10.5	105				-	70-130	-
2-Butanone	10	8.88	89				-	70-130	-
cis-1,2-Dichloroethene	10	8.44	84				-	70-130	-
Ethyl Acetate	10	10.1	101				-	70-130	-
Chloroform	10	8.86	89				-	70-130	-
Tetrahydrofuran	10	9.64	96				-	70-130	-



Laboratory Control Sample Summary

Form 3

Air Volatiles

Client : Inventum Engineering Lab Number : L2510462
 Project Name : SOUTH BUFFALO DEVELOPMENT LLC Project Number : BUFFALO COLOR-AREA C
 Matrix (Level) : AIR (LOW)
 LCS Sample ID : WG2040290-3 Analysis Date : 03/13/25 13:45 File ID : r1648684
 LCSD Sample ID : Analysis Date : File ID :

Parameter	Laboratory Control Sample			Laboratory Control Duplicate			RPD	Recovery Limits	RPD Limit
	True (ppbV)	Found (ppbV)	%R	True (ppbV)	Found (ppbV)	%R			
1,1,2,2-Tetrachloroethane	10	10.4	104				-	70-130	-
o-Xylene	10	10.6	106				-	70-130	-
4-Ethyltoluene	10	11.4	114				-	70-130	-
1,3,5-Trimethylbenzene	10	10.3	103				-	70-130	-
1,2,4-Trimethylbenzene	10	10.2	102				-	70-130	-
Benzyl chloride	10	9.59	96				-	70-130	-
1,3-Dichlorobenzene	10	9.78	98				-	70-130	-
1,4-Dichlorobenzene	10	10.0	100				-	70-130	-
1,2-Dichlorobenzene	10	9.60	96				-	70-130	-
1,2,4-Trichlorobenzene	10	7.11	71				-	70-130	-
Naphthalene	10	6.71	67 Q				-	70-130	-
Hexachlorobutadiene	10	4.98	50 Q				-	70-130	-



Results Summary

Form 1

Volatile Organics in Air

Client : Inventum Engineering
 Project Name : SOUTH BUFFALO DEVELOPMENT LLC
 Lab ID : L2510462-01
 Client ID : AA-TESTPORT2-02252025
 Sample Location : 140 LEE STREET, BUFFALO
 Sample Matrix : AIR
 Analytical Method : 48,TO-15
 Lab File ID : R1648688
 Sample Amount : 250 ml

Lab Number : L2510462
 Project Number : BUFFALO COLOR-AREA C
 Date Collected : 02/25/25 15:50
 Date Received : 02/25/25
 Date Analyzed : 03/13/25 20:02
 Dilution Factor : 1
 Analyst : TPH
 Instrument ID : AIRLAB16
 GC Column : RTX-1

CAS NO.	Parameter	ppbV			ug/m3			Qualifier
		Results	RL	MDL	Results	RL	MDL	
75-71-8	Dichlorodifluoromethane	0.471	0.200	--	2.33	0.989	--	
74-87-3	Chloromethane	0.376	0.200	--	0.776	0.413	--	
76-14-2	Freon-114	ND	0.200	--	ND	1.40	--	U
106-99-0	1,3-Butadiene	0.242	0.200	--	0.535	0.442	--	
74-83-9	Bromomethane	ND	0.200	--	ND	0.777	--	U
75-00-3	Chloroethane	ND	0.200	--	ND	0.528	--	U
64-17-5	Ethanol	332	5.00	--	626	9.42	--	
593-60-2	Vinyl bromide	ND	0.200	--	ND	0.874	--	U
67-64-1	Acetone	22.2	1.00	--	52.7	2.38	--	
75-69-4	Trichlorofluoromethane	0.224	0.200	--	1.26	1.12	--	
67-63-0	Isopropanol	5.38	1.00	--	13.2	2.46	--	
75-65-0	Tertiary butyl Alcohol	0.638	0.500	--	1.93	1.52	--	
75-09-2	Methylene chloride	2.81	0.500	--	9.76	1.74	--	
107-05-1	3-Chloropropene	ND	0.200	--	ND	0.626	--	U
75-15-0	Carbon disulfide	ND	0.200	--	ND	0.623	--	U
76-13-1	Freon-113	ND	0.200	--	ND	1.53	--	U
156-60-5	trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--	U
75-34-3	1,1-Dichloroethane	ND	0.200	--	ND	0.809	--	U
1634-04-4	Methyl tert butyl ether	ND	0.200	--	ND	0.721	--	U
78-93-3	2-Butanone	3.32	0.500	--	9.79	1.47	--	
141-78-6	Ethyl Acetate	1.03	0.500	--	3.71	1.80	--	
67-66-3	Chloroform	ND	0.200	--	ND	0.977	--	U
109-99-9	Tetrahydrofuran	3.39	0.500	--	10.0	1.47	--	
107-06-2	1,2-Dichloroethane	ND	0.200	--	ND	0.809	--	U
110-54-3	n-Hexane	0.533	0.200	--	1.88	0.705	--	
71-43-2	Benzene	0.710	0.200	--	2.27	0.639	--	



Results Summary

Form 1

Volatile Organics in Air

Client : Inventum Engineering
 Project Name : SOUTH BUFFALO DEVELOPMENT LLC
 Lab ID : L2510462-01
 Client ID : AA-TESTPORT2-02252025
 Sample Location : 140 LEE STREET, BUFFALO
 Sample Matrix : AIR
 Analytical Method : 48,TO-15
 Lab File ID : R1648688
 Sample Amount : 250 ml

Lab Number : L2510462
 Project Number : BUFFALO COLOR-AREA C
 Date Collected : 02/25/25 15:50
 Date Received : 02/25/25
 Date Analyzed : 03/13/25 20:02
 Dilution Factor : 1
 Analyst : TPH
 Instrument ID : AIRLAB16
 GC Column : RTX-1

CAS NO.	Parameter	ppbV			ug/m3			Qualifier
		Results	RL	MDL	Results	RL	MDL	
110-82-7	Cyclohexane	0.398	0.200	--	1.37	0.688	--	
78-87-5	1,2-Dichloropropane	ND	0.200	--	ND	0.924	--	U
75-27-4	Bromodichloromethane	ND	0.200	--	ND	1.34	--	U
123-91-1	1,4-Dioxane	ND	0.200	--	ND	0.721	--	U
540-84-1	2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--	U
142-82-5	Heptane	0.413	0.200	--	1.69	0.820	--	
10061-01-5	cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--	U
108-10-1	4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--	U
10061-02-6	trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--	U
79-00-5	1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--	U
108-88-3	Toluene	0.374	0.200	--	1.41	0.754	--	
591-78-6	2-Hexanone	ND	0.200	--	ND	0.820	--	U
124-48-1	Dibromochloromethane	ND	0.200	--	ND	1.70	--	U
106-93-4	1,2-Dibromoethane	ND	0.200	--	ND	1.54	--	U
108-90-7	Chlorobenzene	ND	0.200	--	ND	0.921	--	U
100-41-4	Ethylbenzene	2.03	0.200	--	8.82	0.869	--	
179601-23-1	p/m-Xylene	6.82	0.400	--	29.6	1.74	--	
75-25-2	Bromoform	ND	0.200	--	ND	2.07	--	U
100-42-5	Styrene	ND	0.200	--	ND	0.852	--	U
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--	U
95-47-6	o-Xylene	1.42	0.200	--	6.17	0.869	--	
622-96-8	4-Ethyltoluene	0.222	0.200	--	1.09	0.983	--	
108-67-8	1,3,5-Trimethylbenzene	0.251	0.200	--	1.23	0.983	--	
95-63-6	1,2,4-Trimethylbenzene	0.638	0.200	--	3.14	0.983	--	
100-44-7	Benzyl chloride	ND	0.200	--	ND	1.04	--	U
541-73-1	1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--	U



Results Summary

Form 1

Volatile Organics in Air

Client : Inventum Engineering
 Project Name : SOUTH BUFFALO DEVELOPMENT LLC
 Lab ID : L2510462-01
 Client ID : AA-TESTPORT2-02252025
 Sample Location : 140 LEE STREET, BUFFALO
 Sample Matrix : AIR
 Analytical Method : 48,TO-15
 Lab File ID : R1648688
 Sample Amount : 250 ml

Lab Number : L2510462
 Project Number : BUFFALO COLOR-AREA C
 Date Collected : 02/25/25 15:50
 Date Received : 02/25/25
 Date Analyzed : 03/13/25 20:02
 Dilution Factor : 1
 Analyst : TPH
 Instrument ID : AIRLAB16
 GC Column : RTX-1

CAS NO.	Parameter	ppbV			ug/m3			Qualifier
		Results	RL	MDL	Results	RL	MDL	
106-46-7	1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--	U
95-50-1	1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--	U
87-68-3	Hexachlorobutadiene	ND	0.200	--	ND	2.13	--	U



Results Summary

Form 1

Volatile Organics in Air

Client : Inventum Engineering
 Project Name : SOUTH BUFFALO DEVELOPMENT LLC
 Lab ID : L2510462-02
 Client ID : SS-TESTPORT2-02252025
 Sample Location : 140 LEE STREET, BUFFALO
 Sample Matrix : SOIL_VAPOR
 Analytical Method : 48,TO-15
 Lab File ID : R1648695
 Sample Amount : 250 ml

Lab Number : L2510462
 Project Number : BUFFALO COLOR-AREA C
 Date Collected : 02/25/25 15:43
 Date Received : 02/25/25
 Date Analyzed : 03/14/25 00:41
 Dilution Factor : 1
 Analyst : TPH
 Instrument ID : AIRLAB16
 GC Column : RTX-1

CAS NO.	Parameter	ppbV			ug/m3			Qualifier
		Results	RL	MDL	Results	RL	MDL	
75-71-8	Dichlorodifluoromethane	0.480	0.200	--	2.37	0.989	--	
74-87-3	Chloromethane	0.424	0.200	--	0.876	0.413	--	
76-14-2	Freon-114	ND	0.200	--	ND	1.40	--	U
106-99-0	1,3-Butadiene	0.232	0.200	--	0.513	0.442	--	
74-83-9	Bromomethane	ND	0.200	--	ND	0.777	--	U
75-00-3	Chloroethane	ND	0.200	--	ND	0.528	--	U
64-17-5	Ethanol	426	5.00	--	803	9.42	--	
593-60-2	Vinyl bromide	ND	0.200	--	ND	0.874	--	U
67-64-1	Acetone	24.6	1.00	--	58.4	2.38	--	
75-69-4	Trichlorofluoromethane	0.218	0.200	--	1.23	1.12	--	
67-63-0	Isopropanol	3.42	1.00	--	8.41	2.46	--	
75-65-0	Tertiary butyl Alcohol	0.659	0.500	--	2.00	1.52	--	
75-09-2	Methylene chloride	3.02	0.500	--	10.5	1.74	--	
107-05-1	3-Chloropropene	ND	0.200	--	ND	0.626	--	U
75-15-0	Carbon disulfide	ND	0.200	--	ND	0.623	--	U
76-13-1	Freon-113	ND	0.200	--	ND	1.53	--	U
156-60-5	trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--	U
75-34-3	1,1-Dichloroethane	ND	0.200	--	ND	0.809	--	U
1634-04-4	Methyl tert butyl ether	ND	0.200	--	ND	0.721	--	U
78-93-3	2-Butanone	4.00	0.500	--	11.8	1.47	--	
141-78-6	Ethyl Acetate	ND	0.500	--	ND	1.80	--	U
67-66-3	Chloroform	ND	0.200	--	ND	0.977	--	U
109-99-9	Tetrahydrofuran	2.66	0.500	--	7.85	1.47	--	
107-06-2	1,2-Dichloroethane	ND	0.200	--	ND	0.809	--	U
110-54-3	n-Hexane	0.930	0.200	--	3.28	0.705	--	
71-43-2	Benzene	0.651	0.200	--	2.08	0.639	--	



Results Summary

Form 1

Volatile Organics in Air

Client : Inventum Engineering
 Project Name : SOUTH BUFFALO DEVELOPMENT LLC
 Lab ID : L2510462-02
 Client ID : SS-TESTPORT2-02252025
 Sample Location : 140 LEE STREET, BUFFALO
 Sample Matrix : SOIL_VAPOR
 Analytical Method : 48,TO-15
 Lab File ID : R1648695
 Sample Amount : 250 ml

Lab Number : L2510462
 Project Number : BUFFALO COLOR-AREA C
 Date Collected : 02/25/25 15:43
 Date Received : 02/25/25
 Date Analyzed : 03/14/25 00:41
 Dilution Factor : 1
 Analyst : TPH
 Instrument ID : AIRLAB16
 GC Column : RTX-1

CAS NO.	Parameter	ppbV			ug/m3			Qualifier
		Results	RL	MDL	Results	RL	MDL	
110-82-7	Cyclohexane	0.573	0.200	--	1.97	0.688	--	
78-87-5	1,2-Dichloropropane	ND	0.200	--	ND	0.924	--	U
75-27-4	Bromodichloromethane	ND	0.200	--	ND	1.34	--	U
123-91-1	1,4-Dioxane	ND	0.200	--	ND	0.721	--	U
540-84-1	2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--	U
142-82-5	Heptane	0.620	0.200	--	2.54	0.820	--	
10061-01-5	cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--	U
108-10-1	4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--	U
10061-02-6	trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--	U
79-00-5	1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--	U
108-88-3	Toluene	0.482	0.200	--	1.82	0.754	--	
591-78-6	2-Hexanone	ND	0.200	--	ND	0.820	--	U
124-48-1	Dibromochloromethane	ND	0.200	--	ND	1.70	--	U
106-93-4	1,2-Dibromoethane	ND	0.200	--	ND	1.54	--	U
108-90-7	Chlorobenzene	ND	0.200	--	ND	0.921	--	U
100-41-4	Ethylbenzene	1.07	0.200	--	4.65	0.869	--	
179601-23-1	p/m-Xylene	2.62	0.400	--	11.4	1.74	--	
75-25-2	Bromoform	ND	0.200	--	ND	2.07	--	U
100-42-5	Styrene	ND	0.200	--	ND	0.852	--	U
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--	U
95-47-6	o-Xylene	0.544	0.200	--	2.36	0.869	--	
622-96-8	4-Ethyltoluene	ND	0.200	--	ND	0.983	--	U
108-67-8	1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--	U
95-63-6	1,2,4-Trimethylbenzene	ND	0.200	--	ND	0.983	--	U
100-44-7	Benzyl chloride	ND	0.200	--	ND	1.04	--	U
541-73-1	1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--	U



Results Summary

Form 1

Volatile Organics in Air

Client : Inventum Engineering Project Name : SOUTH BUFFALO DEVELOPMENT LLC Lab ID : L2510462-02 Client ID : SS-TESTPORT2-02252025 Sample Location : 140 LEE STREET, BUFFALO Sample Matrix : SOIL_VAPOR Analytical Method : 48,TO-15 Lab File ID : R1648695 Sample Amount : 250 ml	Lab Number : L2510462 Project Number : BUFFALO COLOR-AREA C Date Collected : 02/25/25 15:43 Date Received : 02/25/25 Date Analyzed : 03/14/25 00:41 Dilution Factor : 1 Analyst : TPH Instrument ID : AIRLAB16 GC Column : RTX-1
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CAS NO.	Parameter	ppbV			ug/m3			Qualifier
		Results	RL	MDL	Results	RL	MDL	
106-46-7	1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--	U
95-50-1	1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--	U
87-68-3	Hexachlorobutadiene	ND	0.200	--	ND	2.13	--	U



Results Summary

Form 1

Volatile Organics in Air

Client : Inventum Engineering
 Project Name : SOUTH BUFFALO DEVELOPMENT LLC
 Lab ID : L2510462-03
 Client ID : AA-TESTPORT3-02252025
 Sample Location : 140 LEE STREET, BUFFALO
 Sample Matrix : AIR
 Analytical Method : 48,TO-15
 Lab File ID : R1648689
 Sample Amount : 250 ml

Lab Number : L2510462
 Project Number : BUFFALO COLOR-AREA C
 Date Collected : 02/25/25 14:29
 Date Received : 02/25/25
 Date Analyzed : 03/13/25 20:42
 Dilution Factor : 1
 Analyst : TPH
 Instrument ID : AIRLAB16
 GC Column : RTX-1

CAS NO.	Parameter	ppbV			ug/m3			Qualifier
		Results	RL	MDL	Results	RL	MDL	
75-71-8	Dichlorodifluoromethane	0.481	0.200	--	2.38	0.989	--	
74-87-3	Chloromethane	0.397	0.200	--	0.820	0.413	--	
76-14-2	Freon-114	ND	0.200	--	ND	1.40	--	U
106-99-0	1,3-Butadiene	0.270	0.200	--	0.597	0.442	--	
74-83-9	Bromomethane	ND	0.200	--	ND	0.777	--	U
75-00-3	Chloroethane	ND	0.200	--	ND	0.528	--	U
64-17-5	Ethanol	320	5.00	--	603	9.42	--	
593-60-2	Vinyl bromide	ND	0.200	--	ND	0.874	--	U
67-64-1	Acetone	14.0	1.00	--	33.3	2.38	--	
75-69-4	Trichlorofluoromethane	0.217	0.200	--	1.22	1.12	--	
67-63-0	Isopropanol	1.59	1.00	--	3.91	2.46	--	
75-65-0	Tertiary butyl Alcohol	0.529	0.500	--	1.60	1.52	--	
75-09-2	Methylene chloride	3.18	0.500	--	11.0	1.74	--	
107-05-1	3-Chloropropene	ND	0.200	--	ND	0.626	--	U
75-15-0	Carbon disulfide	ND	0.200	--	ND	0.623	--	U
76-13-1	Freon-113	ND	0.200	--	ND	1.53	--	U
156-60-5	trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--	U
75-34-3	1,1-Dichloroethane	ND	0.200	--	ND	0.809	--	U
1634-04-4	Methyl tert butyl ether	ND	0.200	--	ND	0.721	--	U
78-93-3	2-Butanone	2.15	0.500	--	6.34	1.47	--	
141-78-6	Ethyl Acetate	0.831	0.500	--	2.99	1.80	--	
67-66-3	Chloroform	ND	0.200	--	ND	0.977	--	U
109-99-9	Tetrahydrofuran	3.01	0.500	--	8.88	1.47	--	
107-06-2	1,2-Dichloroethane	ND	0.200	--	ND	0.809	--	U
110-54-3	n-Hexane	0.533	0.200	--	1.88	0.705	--	
71-43-2	Benzene	0.727	0.200	--	2.32	0.639	--	



Results Summary

Form 1

Volatile Organics in Air

Client : Inventum Engineering
 Project Name : SOUTH BUFFALO DEVELOPMENT LLC
 Lab ID : L2510462-03
 Client ID : AA-TESTPORT3-02252025
 Sample Location : 140 LEE STREET, BUFFALO
 Sample Matrix : AIR
 Analytical Method : 48,TO-15
 Lab File ID : R1648689
 Sample Amount : 250 ml

Lab Number : L2510462
 Project Number : BUFFALO COLOR-AREA C
 Date Collected : 02/25/25 14:29
 Date Received : 02/25/25
 Date Analyzed : 03/13/25 20:42
 Dilution Factor : 1
 Analyst : TPH
 Instrument ID : AIRLAB16
 GC Column : RTX-1

CAS NO.	Parameter	ppbV			ug/m3			Qualifier
		Results	RL	MDL	Results	RL	MDL	
110-82-7	Cyclohexane	0.411	0.200	--	1.41	0.688	--	
78-87-5	1,2-Dichloropropane	ND	0.200	--	ND	0.924	--	U
75-27-4	Bromodichloromethane	ND	0.200	--	ND	1.34	--	U
123-91-1	1,4-Dioxane	ND	0.200	--	ND	0.721	--	U
540-84-1	2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--	U
142-82-5	Heptane	0.417	0.200	--	1.71	0.820	--	
10061-01-5	cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--	U
108-10-1	4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--	U
10061-02-6	trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--	U
79-00-5	1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--	U
108-88-3	Toluene	0.318	0.200	--	1.20	0.754	--	
591-78-6	2-Hexanone	0.339	0.200	--	1.39	0.820	--	
124-48-1	Dibromochloromethane	ND	0.200	--	ND	1.70	--	U
106-93-4	1,2-Dibromoethane	ND	0.200	--	ND	1.54	--	U
108-90-7	Chlorobenzene	ND	0.200	--	ND	0.921	--	U
100-41-4	Ethylbenzene	2.30	0.200	--	9.99	0.869	--	
179601-23-1	p/m-Xylene	7.57	0.400	--	32.9	1.74	--	
75-25-2	Bromoform	ND	0.200	--	ND	2.07	--	U
100-42-5	Styrene	ND	0.200	--	ND	0.852	--	U
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--	U
95-47-6	o-Xylene	1.51	0.200	--	6.56	0.869	--	
622-96-8	4-Ethyltoluene	ND	0.200	--	ND	0.983	--	U
108-67-8	1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--	U
95-63-6	1,2,4-Trimethylbenzene	ND	0.200	--	ND	0.983	--	U
100-44-7	Benzyl chloride	ND	0.200	--	ND	1.04	--	U
541-73-1	1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--	U



Results Summary

Form 1

Volatile Organics in Air

Client : Inventum Engineering
Project Name : SOUTH BUFFALO DEVELOPMENT LLC
Lab ID : L2510462-03
Client ID : AA-TESTPORT3-02252025
Sample Location : 140 LEE STREET, BUFFALO
Sample Matrix : AIR
Analytical Method : 48,TO-15
Lab File ID : R1648689
Sample Amount : 250 ml

Lab Number : L2510462
Project Number : BUFFALO COLOR-AREA C
Date Collected : 02/25/25 14:29
Date Received : 02/25/25
Date Analyzed : 03/13/25 20:42
Dilution Factor : 1
Analyst : TPH
Instrument ID : AIRLAB16
GC Column : RTX-1

CAS NO.	Parameter	ppbV			ug/m3			Qualifier
		Results	RL	MDL	Results	RL	MDL	
106-46-7	1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--	U
95-50-1	1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--	U
87-68-3	Hexachlorobutadiene	ND	0.200	--	ND	2.13	--	U



Results Summary Form 1 Volatile Organics in Air

Client : Inventum Engineering
 Project Name : SOUTH BUFFALO DEVELOPMENT LLC
 Lab ID : L2510462-04
 Client ID : SS-TESTPORT3-02252025
 Sample Location : 140 LEE STREET, BUFFALO
 Sample Matrix : SOIL_VAPOR
 Analytical Method : 48,TO-15
 Lab File ID : R1648696
 Sample Amount : 250 ml

Lab Number : L2510462
 Project Number : BUFFALO COLOR-AREA C
 Date Collected : 02/25/25 15:57
 Date Received : 02/25/25
 Date Analyzed : 03/14/25 01:20
 Dilution Factor : 1
 Analyst : TPH
 Instrument ID : AIRLAB16
 GC Column : RTX-1

CAS NO.	Parameter	ppbV			ug/m3			Qualifier
		Results	RL	MDL	Results	RL	MDL	
75-71-8	Dichlorodifluoromethane	0.461	0.200	--	2.28	0.989	--	
74-87-3	Chloromethane	ND	0.200	--	ND	0.413	--	U
76-14-2	Freon-114	ND	0.200	--	ND	1.40	--	U
75-01-4	Vinyl chloride	ND	0.200	--	ND	0.511	--	U
106-99-0	1,3-Butadiene	0.229	0.200	--	0.507	0.442	--	
74-83-9	Bromomethane	ND	0.200	--	ND	0.777	--	U
75-00-3	Chloroethane	ND	0.200	--	ND	0.528	--	U
64-17-5	Ethanol	26.0	5.00	--	49.0	9.42	--	
593-60-2	Vinyl bromide	ND	0.200	--	ND	0.874	--	U
67-64-1	Acetone	55.4	1.00	--	132	2.38	--	
75-69-4	Trichlorofluoromethane	ND	0.200	--	ND	1.12	--	U
67-63-0	Isopropanol	18.4	1.00	--	45.2	2.46	--	
75-35-4	1,1-Dichloroethene	ND	0.200	--	ND	0.793	--	U
75-65-0	Tertiary butyl Alcohol	1.54	0.500	--	4.67	1.52	--	
75-09-2	Methylene chloride	0.932	0.500	--	3.24	1.74	--	
107-05-1	3-Chloropropene	ND	0.200	--	ND	0.626	--	U
75-15-0	Carbon disulfide	0.259	0.200	--	0.807	0.623	--	
76-13-1	Freon-113	ND	0.200	--	ND	1.53	--	U
156-60-5	trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--	U
75-34-3	1,1-Dichloroethane	ND	0.200	--	ND	0.809	--	U
1634-04-4	Methyl tert butyl ether	ND	0.200	--	ND	0.721	--	U
78-93-3	2-Butanone	16.7	0.500	--	49.3	1.47	--	
156-59-2	cis-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--	U
141-78-6	Ethyl Acetate	2.13	0.500	--	7.68	1.80	--	
67-66-3	Chloroform	1.34	0.200	--	6.54	0.977	--	
109-99-9	Tetrahydrofuran	0.900	0.500	--	2.65	1.47	--	



Results Summary

Form 1

Volatile Organics in Air

Client : Inventum Engineering
 Project Name : SOUTH BUFFALO DEVELOPMENT LLC
 Lab ID : L2510462-04
 Client ID : SS-TESTPORT3-02252025
 Sample Location : 140 LEE STREET, BUFFALO
 Sample Matrix : SOIL_VAPOR
 Analytical Method : 48,TO-15
 Lab File ID : R1648696
 Sample Amount : 250 ml

Lab Number : L2510462
 Project Number : BUFFALO COLOR-AREA C
 Date Collected : 02/25/25 15:57
 Date Received : 02/25/25
 Date Analyzed : 03/14/25 01:20
 Dilution Factor : 1
 Analyst : TPH
 Instrument ID : AIRLAB16
 GC Column : RTX-1

CAS NO.	Parameter	ppbV			ug/m3			Qualifier
		Results	RL	MDL	Results	RL	MDL	
107-06-2	1,2-Dichloroethane	ND	0.200	--	ND	0.809	--	U
110-54-3	n-Hexane	5.06	0.200	--	17.8	0.705	--	
71-55-6	1,1,1-Trichloroethane	ND	0.200	--	ND	1.09	--	U
71-43-2	Benzene	0.692	0.200	--	2.21	0.639	--	
56-23-5	Carbon tetrachloride	ND	0.200	--	ND	1.26	--	U
110-82-7	Cyclohexane	ND	0.200	--	ND	0.688	--	U
78-87-5	1,2-Dichloropropane	ND	0.200	--	ND	0.924	--	U
75-27-4	Bromodichloromethane	0.445	0.200	--	2.98	1.34	--	
123-91-1	1,4-Dioxane	ND	0.200	--	ND	0.721	--	U
79-01-6	Trichloroethene	ND	0.200	--	ND	1.07	--	U
540-84-1	2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--	U
142-82-5	Heptane	0.442	0.200	--	1.81	0.820	--	
10061-01-5	cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--	U
108-10-1	4-Methyl-2-pentanone	0.734	0.500	--	3.01	2.05	--	
10061-02-6	trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--	U
79-00-5	1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--	U
108-88-3	Toluene	0.374	0.200	--	1.41	0.754	--	
591-78-6	2-Hexanone	2.74	0.200	--	11.2	0.820	--	
124-48-1	Dibromochloromethane	ND	0.200	--	ND	1.70	--	U
106-93-4	1,2-Dibromoethane	ND	0.200	--	ND	1.54	--	U
127-18-4	Tetrachloroethene	9.88	0.200	--	67.0	1.36	--	
108-90-7	Chlorobenzene	ND	0.200	--	ND	0.921	--	U
100-41-4	Ethylbenzene	ND	0.200	--	ND	0.869	--	U
179601-23-1	p/m-Xylene	0.702	0.400	--	3.05	1.74	--	
75-25-2	Bromoform	ND	0.200	--	ND	2.07	--	U
100-42-5	Styrene	ND	0.200	--	ND	0.852	--	U



Results Summary

Form 1

Volatile Organics in Air

Client : Inventum Engineering
 Project Name : SOUTH BUFFALO DEVELOPMENT LLC
 Lab ID : L2510462-04
 Client ID : SS-TESTPORT3-02252025
 Sample Location : 140 LEE STREET, BUFFALO
 Sample Matrix : SOIL_VAPOR
 Analytical Method : 48,TO-15
 Lab File ID : R1648696
 Sample Amount : 250 ml

Lab Number : L2510462
 Project Number : BUFFALO COLOR-AREA C
 Date Collected : 02/25/25 15:57
 Date Received : 02/25/25
 Date Analyzed : 03/14/25 01:20
 Dilution Factor : 1
 Analyst : TPH
 Instrument ID : AIRLAB16
 GC Column : RTX-1

CAS NO.	Parameter	ppbV			ug/m3			Qualifier
		Results	RL	MDL	Results	RL	MDL	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--	U
95-47-6	o-Xylene	0.211	0.200	--	0.916	0.869	--	
622-96-8	4-Ethyltoluene	ND	0.200	--	ND	0.983	--	U
108-67-8	1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--	U
95-63-6	1,2,4-Trimethylbenzene	ND	0.200	--	ND	0.983	--	U
100-44-7	Benzyl chloride	ND	0.200	--	ND	1.04	--	U
541-73-1	1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--	U
106-46-7	1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--	U
95-50-1	1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--	U
87-68-3	Hexachlorobutadiene	ND	0.200	--	ND	2.13	--	U



Results Summary

Form 1

Volatile Organics in Air

Client : Inventum Engineering
 Project Name : SOUTH BUFFALO DEVELOPMENT LLC
 Lab ID : L2510462-05
 Client ID : AA-TESTPORT4-02252025
 Sample Location : 140 LEE STREET, BUFFALO
 Sample Matrix : AIR
 Analytical Method : 48,TO-15
 Lab File ID : R1553923
 Sample Amount : 250 ml

Lab Number : L2510462
 Project Number : BUFFALO COLOR-AREA C
 Date Collected : 02/25/25 15:55
 Date Received : 02/25/25
 Date Analyzed : 03/20/25 11:46
 Dilution Factor : 1
 Analyst : KJD
 Instrument ID : AIRLAB15
 GC Column : RTX-1

CAS NO.	Parameter	ppbV			ug/m3			Qualifier
		Results	RL	MDL	Results	RL	MDL	
75-71-8	Dichlorodifluoromethane	0.536	0.200	--	2.65	0.989	--	
74-87-3	Chloromethane	0.537	0.200	--	1.11	0.413	--	
76-14-2	Freon-114	ND	0.200	--	ND	1.40	--	U
106-99-0	1,3-Butadiene	0.257	0.200	--	0.569	0.442	--	
74-83-9	Bromomethane	ND	0.200	--	ND	0.777	--	U
75-00-3	Chloroethane	ND	0.200	--	ND	0.528	--	U
64-17-5	Ethanol	237	5.00	--	447	9.42	--	
593-60-2	Vinyl bromide	ND	0.200	--	ND	0.874	--	U
67-64-1	Acetone	16.4	1.00	--	39.0	2.38	--	
75-69-4	Trichlorofluoromethane	0.311	0.200	--	1.75	1.12	--	
67-63-0	Isopropanol	1.75	1.00	--	4.30	2.46	--	
75-65-0	Tertiary butyl Alcohol	ND	0.500	--	ND	1.52	--	U
75-09-2	Methylene chloride	5.08	0.500	--	17.6	1.74	--	
107-05-1	3-Chloropropene	ND	0.200	--	ND	0.626	--	U
75-15-0	Carbon disulfide	ND	0.200	--	ND	0.623	--	U
76-13-1	Freon-113	ND	0.200	--	ND	1.53	--	U
156-60-5	trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--	U
75-34-3	1,1-Dichloroethane	ND	0.200	--	ND	0.809	--	U
1634-04-4	Methyl tert butyl ether	ND	0.200	--	ND	0.721	--	U
78-93-3	2-Butanone	2.38	0.500	--	7.02	1.47	--	
141-78-6	Ethyl Acetate	0.874	0.500	--	3.15	1.80	--	
67-66-3	Chloroform	ND	0.200	--	ND	0.977	--	U
109-99-9	Tetrahydrofuran	3.72	0.500	--	11.0	1.47	--	
107-06-2	1,2-Dichloroethane	ND	0.200	--	ND	0.809	--	U
110-54-3	n-Hexane	0.556	0.200	--	1.96	0.705	--	
71-43-2	Benzene	0.659	0.200	--	2.11	0.639	--	



Results Summary

Form 1

Volatile Organics in Air

Client : Inventum Engineering
 Project Name : SOUTH BUFFALO DEVELOPMENT LLC
 Lab ID : L2510462-05
 Client ID : AA-TESTPORT4-02252025
 Sample Location : 140 LEE STREET, BUFFALO
 Sample Matrix : AIR
 Analytical Method : 48,TO-15
 Lab File ID : R1553923
 Sample Amount : 250 ml

Lab Number : L2510462
 Project Number : BUFFALO COLOR-AREA C
 Date Collected : 02/25/25 15:55
 Date Received : 02/25/25
 Date Analyzed : 03/20/25 11:46
 Dilution Factor : 1
 Analyst : KJD
 Instrument ID : AIRLAB15
 GC Column : RTX-1

CAS NO.	Parameter	ppbV			ug/m3			Qualifier
		Results	RL	MDL	Results	RL	MDL	
110-82-7	Cyclohexane	0.296	0.200	--	1.02	0.688	--	
78-87-5	1,2-Dichloropropane	ND	0.200	--	ND	0.924	--	U
75-27-4	Bromodichloromethane	ND	0.200	--	ND	1.34	--	U
123-91-1	1,4-Dioxane	ND	0.200	--	ND	0.721	--	U
540-84-1	2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--	U
142-82-5	Heptane	0.341	0.200	--	1.40	0.820	--	
10061-01-5	cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--	U
108-10-1	4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--	U
10061-02-6	trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--	U
79-00-5	1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--	U
108-88-3	Toluene	0.272	0.200	--	1.03	0.754	--	
591-78-6	2-Hexanone	ND	0.200	--	ND	0.820	--	U
124-48-1	Dibromochloromethane	ND	0.200	--	ND	1.70	--	U
106-93-4	1,2-Dibromoethane	ND	0.200	--	ND	1.54	--	U
108-90-7	Chlorobenzene	ND	0.200	--	ND	0.921	--	U
100-41-4	Ethylbenzene	1.77	0.200	--	7.69	0.869	--	
179601-23-1	p/m-Xylene	6.30	0.400	--	27.4	1.74	--	
75-25-2	Bromoform	ND	0.200	--	ND	2.07	--	U
100-42-5	Styrene	ND	0.200	--	ND	0.852	--	U
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--	U
95-47-6	o-Xylene	1.10	0.200	--	4.78	0.869	--	
622-96-8	4-Ethyltoluene	ND	0.200	--	ND	0.983	--	U
108-67-8	1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--	U
95-63-6	1,2,4-Trimethylbenzene	ND	0.200	--	ND	0.983	--	U
100-44-7	Benzyl chloride	ND	0.200	--	ND	1.04	--	U
541-73-1	1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--	U



Results Summary

Form 1

Volatile Organics in Air

Client : Inventum Engineering
 Project Name : SOUTH BUFFALO DEVELOPMENT LLC
 Lab ID : L2510462-05
 Client ID : AA-TESTPORT4-02252025
 Sample Location : 140 LEE STREET, BUFFALO
 Sample Matrix : AIR
 Analytical Method : 48,TO-15
 Lab File ID : R1553923
 Sample Amount : 250 ml

Lab Number : L2510462
 Project Number : BUFFALO COLOR-AREA C
 Date Collected : 02/25/25 15:55
 Date Received : 02/25/25
 Date Analyzed : 03/20/25 11:46
 Dilution Factor : 1
 Analyst : KJD
 Instrument ID : AIRLAB15
 GC Column : RTX-1

CAS NO.	Parameter	ppbV			ug/m3			Qualifier
		Results	RL	MDL	Results	RL	MDL	
106-46-7	1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--	U
95-50-1	1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--	U
120-82-1	1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--	U
91-20-3	Naphthalene	ND	0.190	--	ND	0.996	--	U
87-68-3	Hexachlorobutadiene	ND	0.200	--	ND	2.13	--	U



Results Summary

Form 1

Volatile Organics in Air

Client : Inventum Engineering
 Project Name : SOUTH BUFFALO DEVELOPMENT LLC
 Lab ID : L2510462-06
 Client ID : SS-TESTPORT4-02252025
 Sample Location : 140 LEE STREET, BUFFALO
 Sample Matrix : SOIL_VAPOR
 Analytical Method : 48,TO-15
 Lab File ID : R1648697
 Sample Amount : 250 ml

Lab Number : L2510462
 Project Number : BUFFALO COLOR-AREA C
 Date Collected : 02/25/25 15:56
 Date Received : 02/25/25
 Date Analyzed : 03/14/25 02:01
 Dilution Factor : 1
 Analyst : TPH
 Instrument ID : AIRLAB16
 GC Column : RTX-1

CAS NO.	Parameter	ppbV			ug/m3			Qualifier
		Results	RL	MDL	Results	RL	MDL	
75-71-8	Dichlorodifluoromethane	0.479	0.200	--	2.37	0.989	--	
74-87-3	Chloromethane	ND	0.200	--	ND	0.413	--	U
76-14-2	Freon-114	ND	0.200	--	ND	1.40	--	U
75-01-4	Vinyl chloride	ND	0.200	--	ND	0.511	--	U
106-99-0	1,3-Butadiene	ND	0.200	--	ND	0.442	--	U
74-83-9	Bromomethane	ND	0.200	--	ND	0.777	--	U
75-00-3	Chloroethane	ND	0.200	--	ND	0.528	--	U
64-17-5	Ethanol	19.5	5.00	--	36.7	9.42	--	
593-60-2	Vinyl bromide	ND	0.200	--	ND	0.874	--	U
67-64-1	Acetone	8.64	1.00	--	20.5	2.38	--	
75-69-4	Trichlorofluoromethane	0.207	0.200	--	1.16	1.12	--	
67-63-0	Isopropanol	2.14	1.00	--	5.26	2.46	--	
75-35-4	1,1-Dichloroethene	ND	0.200	--	ND	0.793	--	U
75-65-0	Tertiary butyl Alcohol	ND	0.500	--	ND	1.52	--	U
75-09-2	Methylene chloride	ND	0.500	--	ND	1.74	--	U
107-05-1	3-Chloropropene	ND	0.200	--	ND	0.626	--	U
75-15-0	Carbon disulfide	ND	0.200	--	ND	0.623	--	U
76-13-1	Freon-113	ND	0.200	--	ND	1.53	--	U
156-60-5	trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--	U
75-34-3	1,1-Dichloroethane	ND	0.200	--	ND	0.809	--	U
1634-04-4	Methyl tert butyl ether	ND	0.200	--	ND	0.721	--	U
78-93-3	2-Butanone	3.16	0.500	--	9.32	1.47	--	
156-59-2	cis-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--	U
141-78-6	Ethyl Acetate	ND	0.500	--	ND	1.80	--	U
67-66-3	Chloroform	ND	0.200	--	ND	0.977	--	U
109-99-9	Tetrahydrofuran	0.925	0.500	--	2.73	1.47	--	



Results Summary

Form 1

Volatile Organics in Air

Client : Inventum Engineering
 Project Name : SOUTH BUFFALO DEVELOPMENT LLC
 Lab ID : L2510462-06
 Client ID : SS-TESTPORT4-02252025
 Sample Location : 140 LEE STREET, BUFFALO
 Sample Matrix : SOIL_VAPOR
 Analytical Method : 48,TO-15
 Lab File ID : R1648697
 Sample Amount : 250 ml

Lab Number : L2510462
 Project Number : BUFFALO COLOR-AREA C
 Date Collected : 02/25/25 15:56
 Date Received : 02/25/25
 Date Analyzed : 03/14/25 02:01
 Dilution Factor : 1
 Analyst : TPH
 Instrument ID : AIRLAB16
 GC Column : RTX-1

CAS NO.	Parameter	ppbV			ug/m3			Qualifier
		Results	RL	MDL	Results	RL	MDL	
107-06-2	1,2-Dichloroethane	ND	0.200	--	ND	0.809	--	U
110-54-3	n-Hexane	0.549	0.200	--	1.93	0.705	--	
71-55-6	1,1,1-Trichloroethane	ND	0.200	--	ND	1.09	--	U
71-43-2	Benzene	0.653	0.200	--	2.09	0.639	--	
56-23-5	Carbon tetrachloride	ND	0.200	--	ND	1.26	--	U
110-82-7	Cyclohexane	ND	0.200	--	ND	0.688	--	U
78-87-5	1,2-Dichloropropane	ND	0.200	--	ND	0.924	--	U
75-27-4	Bromodichloromethane	ND	0.200	--	ND	1.34	--	U
123-91-1	1,4-Dioxane	ND	0.200	--	ND	0.721	--	U
79-01-6	Trichloroethene	ND	0.200	--	ND	1.07	--	U
540-84-1	2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--	U
142-82-5	Heptane	ND	0.200	--	ND	0.820	--	U
10061-01-5	cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--	U
108-10-1	4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--	U
10061-02-6	trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--	U
79-00-5	1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--	U
108-88-3	Toluene	0.622	0.200	--	2.34	0.754	--	
591-78-6	2-Hexanone	2.08	0.200	--	8.52	0.820	--	
124-48-1	Dibromochloromethane	ND	0.200	--	ND	1.70	--	U
106-93-4	1,2-Dibromoethane	ND	0.200	--	ND	1.54	--	U
127-18-4	Tetrachloroethene	13.0	0.200	--	88.2	1.36	--	
108-90-7	Chlorobenzene	ND	0.200	--	ND	0.921	--	U
100-41-4	Ethylbenzene	0.258	0.200	--	1.12	0.869	--	
179601-23-1	p/m-Xylene	0.843	0.400	--	3.66	1.74	--	
75-25-2	Bromoform	ND	0.200	--	ND	2.07	--	U
100-42-5	Styrene	ND	0.200	--	ND	0.852	--	U



Results Summary

Form 1

Volatile Organics in Air

Client : Inventum Engineering
 Project Name : SOUTH BUFFALO DEVELOPMENT LLC
 Lab ID : L2510462-06
 Client ID : SS-TESTPORT4-02252025
 Sample Location : 140 LEE STREET, BUFFALO
 Sample Matrix : SOIL_VAPOR
 Analytical Method : 48,TO-15
 Lab File ID : R1648697
 Sample Amount : 250 ml

Lab Number : L2510462
 Project Number : BUFFALO COLOR-AREA C
 Date Collected : 02/25/25 15:56
 Date Received : 02/25/25
 Date Analyzed : 03/14/25 02:01
 Dilution Factor : 1
 Analyst : TPH
 Instrument ID : AIRLAB16
 GC Column : RTX-1

CAS NO.	Parameter	ppbV			ug/m3			Qualifier
		Results	RL	MDL	Results	RL	MDL	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--	U
95-47-6	o-Xylene	0.213	0.200	--	0.925	0.869	--	
622-96-8	4-Ethyltoluene	ND	0.200	--	ND	0.983	--	U
108-67-8	1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--	U
95-63-6	1,2,4-Trimethylbenzene	0.251	0.200	--	1.23	0.983	--	
100-44-7	Benzyl chloride	ND	0.200	--	ND	1.04	--	U
541-73-1	1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--	U
106-46-7	1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--	U
95-50-1	1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--	U
87-68-3	Hexachlorobutadiene	ND	0.200	--	ND	2.13	--	U



Results Summary Form 1 Volatile Organics in Air

Client : Inventum Engineering
 Project Name : SOUTH BUFFALO DEVELOPMENT LLC
 Lab ID : L2510462-07
 Client ID : AA-TESTPORT5-02252025
 Sample Location : 140 LEE STREET, BUFFALO
 Sample Matrix : AIR
 Analytical Method : 48,TO-15
 Lab File ID : R1648691
 Sample Amount : 250 ml

Lab Number : L2510462
 Project Number : BUFFALO COLOR-AREA C
 Date Collected : 02/25/25 15:59
 Date Received : 02/25/25
 Date Analyzed : 03/13/25 22:01
 Dilution Factor : 1
 Analyst : TPH
 Instrument ID : AIRLAB16
 GC Column : RTX-1

CAS NO.	Parameter	ppbV			ug/m3			Qualifier
		Results	RL	MDL	Results	RL	MDL	
75-71-8	Dichlorodifluoromethane	0.472	0.200	--	2.33	0.989	--	
74-87-3	Chloromethane	0.447	0.200	--	0.923	0.413	--	
76-14-2	Freon-114	ND	0.200	--	ND	1.40	--	U
106-99-0	1,3-Butadiene	0.289	0.200	--	0.639	0.442	--	
74-83-9	Bromomethane	ND	0.200	--	ND	0.777	--	U
75-00-3	Chloroethane	ND	0.200	--	ND	0.528	--	U
64-17-5	Ethanol	268	5.00	--	505	9.42	--	
593-60-2	Vinyl bromide	ND	0.200	--	ND	0.874	--	U
67-64-1	Acetone	11.1	1.00	--	26.4	2.38	--	
75-69-4	Trichlorofluoromethane	0.208	0.200	--	1.17	1.12	--	
67-63-0	Isopropanol	1.90	1.00	--	4.67	2.46	--	
75-65-0	Tertiary butyl Alcohol	ND	0.500	--	ND	1.52	--	U
75-09-2	Methylene chloride	2.15	0.500	--	7.47	1.74	--	
107-05-1	3-Chloropropene	ND	0.200	--	ND	0.626	--	U
75-15-0	Carbon disulfide	ND	0.200	--	ND	0.623	--	U
76-13-1	Freon-113	ND	0.200	--	ND	1.53	--	U
156-60-5	trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--	U
75-34-3	1,1-Dichloroethane	ND	0.200	--	ND	0.809	--	U
1634-04-4	Methyl tert butyl ether	ND	0.200	--	ND	0.721	--	U
78-93-3	2-Butanone	1.64	0.500	--	4.84	1.47	--	
141-78-6	Ethyl Acetate	1.44	0.500	--	5.19	1.80	--	
67-66-3	Chloroform	ND	0.200	--	ND	0.977	--	U
109-99-9	Tetrahydrofuran	2.45	0.500	--	7.23	1.47	--	
107-06-2	1,2-Dichloroethane	ND	0.200	--	ND	0.809	--	U
110-54-3	n-Hexane	0.577	0.200	--	2.03	0.705	--	
71-43-2	Benzene	0.818	0.200	--	2.61	0.639	--	



Results Summary Form 1 Volatile Organics in Air

Client : Inventum Engineering
 Project Name : SOUTH BUFFALO DEVELOPMENT LLC
 Lab ID : L2510462-07
 Client ID : AA-TESTPORT5-02252025
 Sample Location : 140 LEE STREET, BUFFALO
 Sample Matrix : AIR
 Analytical Method : 48,TO-15
 Lab File ID : R1648691
 Sample Amount : 250 ml

Lab Number : L2510462
 Project Number : BUFFALO COLOR-AREA C
 Date Collected : 02/25/25 15:59
 Date Received : 02/25/25
 Date Analyzed : 03/13/25 22:01
 Dilution Factor : 1
 Analyst : TPH
 Instrument ID : AIRLAB16
 GC Column : RTX-1

CAS NO.	Parameter	ppbV			ug/m3			Qualifier
		Results	RL	MDL	Results	RL	MDL	
110-82-7	Cyclohexane	0.300	0.200	--	1.03	0.688	--	
78-87-5	1,2-Dichloropropane	ND	0.200	--	ND	0.924	--	U
75-27-4	Bromodichloromethane	ND	0.200	--	ND	1.34	--	U
123-91-1	1,4-Dioxane	ND	0.200	--	ND	0.721	--	U
540-84-1	2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--	U
142-82-5	Heptane	0.376	0.200	--	1.54	0.820	--	
10061-01-5	cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--	U
108-10-1	4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--	U
10061-02-6	trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--	U
79-00-5	1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--	U
108-88-3	Toluene	0.440	0.200	--	1.66	0.754	--	
591-78-6	2-Hexanone	ND	0.200	--	ND	0.820	--	U
124-48-1	Dibromochloromethane	ND	0.200	--	ND	1.70	--	U
106-93-4	1,2-Dibromoethane	ND	0.200	--	ND	1.54	--	U
108-90-7	Chlorobenzene	ND	0.200	--	ND	0.921	--	U
100-41-4	Ethylbenzene	1.50	0.200	--	6.52	0.869	--	
179601-23-1	p/m-Xylene	4.77	0.400	--	20.7	1.74	--	
75-25-2	Bromoform	ND	0.200	--	ND	2.07	--	U
100-42-5	Styrene	ND	0.200	--	ND	0.852	--	U
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--	U
95-47-6	o-Xylene	0.963	0.200	--	4.18	0.869	--	
622-96-8	4-Ethyltoluene	ND	0.200	--	ND	0.983	--	U
108-67-8	1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--	U
95-63-6	1,2,4-Trimethylbenzene	ND	0.200	--	ND	0.983	--	U
100-44-7	Benzyl chloride	ND	0.200	--	ND	1.04	--	U
541-73-1	1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--	U



Results Summary

Form 1

Volatile Organics in Air

Client : Inventum Engineering
 Project Name : SOUTH BUFFALO DEVELOPMENT LLC
 Lab ID : L2510462-07
 Client ID : AA-TESTPORT5-02252025
 Sample Location : 140 LEE STREET, BUFFALO
 Sample Matrix : AIR
 Analytical Method : 48,TO-15
 Lab File ID : R1648691
 Sample Amount : 250 ml

Lab Number : L2510462
 Project Number : BUFFALO COLOR-AREA C
 Date Collected : 02/25/25 15:59
 Date Received : 02/25/25
 Date Analyzed : 03/13/25 22:01
 Dilution Factor : 1
 Analyst : TPH
 Instrument ID : AIRLAB16
 GC Column : RTX-1

CAS NO.	Parameter	ppbV			ug/m3			Qualifier
		Results	RL	MDL	Results	RL	MDL	
106-46-7	1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--	U
95-50-1	1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--	U
87-68-3	Hexachlorobutadiene	ND	0.200	--	ND	2.13	--	U



Results Summary

Form 1

Volatile Organics in Air

Client : Inventum Engineering
 Project Name : SOUTH BUFFALO DEVELOPMENT LLC
 Lab ID : L2510462-08
 Client ID : SS-TESTPORT5-02252025
 Sample Location : 140 LEE STREET, BUFFALO
 Sample Matrix : SOIL_VAPOR
 Analytical Method : 48,TO-15
 Lab File ID : R1648698
 Sample Amount : 250 ml

Lab Number : L2510462
 Project Number : BUFFALO COLOR-AREA C
 Date Collected : 02/25/25 16:00
 Date Received : 02/25/25
 Date Analyzed : 03/14/25 02:40
 Dilution Factor : 1
 Analyst : TPH
 Instrument ID : AIRLAB16
 GC Column : RTX-1

CAS NO.	Parameter	ppbV			ug/m3			Qualifier
		Results	RL	MDL	Results	RL	MDL	
75-71-8	Dichlorodifluoromethane	0.474	0.200	--	2.34	0.989	--	
74-87-3	Chloromethane	ND	0.200	--	ND	0.413	--	U
76-14-2	Freon-114	ND	0.200	--	ND	1.40	--	U
75-01-4	Vinyl chloride	ND	0.200	--	ND	0.511	--	U
106-99-0	1,3-Butadiene	ND	0.200	--	ND	0.442	--	U
74-83-9	Bromomethane	ND	0.200	--	ND	0.777	--	U
75-00-3	Chloroethane	ND	0.200	--	ND	0.528	--	U
64-17-5	Ethanol	12.0	5.00	--	22.6	9.42	--	
593-60-2	Vinyl bromide	ND	0.200	--	ND	0.874	--	U
67-64-1	Acetone	2.44	1.00	--	5.80	2.38	--	
75-69-4	Trichlorofluoromethane	0.202	0.200	--	1.14	1.12	--	
67-63-0	Isopropanol	1.00	1.00	--	2.46	2.46	--	
75-35-4	1,1-Dichloroethene	ND	0.200	--	ND	0.793	--	U
75-65-0	Tertiary butyl Alcohol	ND	0.500	--	ND	1.52	--	U
75-09-2	Methylene chloride	1.68	0.500	--	5.84	1.74	--	
107-05-1	3-Chloropropene	ND	0.200	--	ND	0.626	--	U
75-15-0	Carbon disulfide	ND	0.200	--	ND	0.623	--	U
76-13-1	Freon-113	ND	0.200	--	ND	1.53	--	U
156-60-5	trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--	U
75-34-3	1,1-Dichloroethane	ND	0.200	--	ND	0.809	--	U
1634-04-4	Methyl tert butyl ether	ND	0.200	--	ND	0.721	--	U
78-93-3	2-Butanone	2.60	0.500	--	7.67	1.47	--	
156-59-2	cis-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--	U
141-78-6	Ethyl Acetate	ND	0.500	--	ND	1.80	--	U
67-66-3	Chloroform	ND	0.200	--	ND	0.977	--	U
109-99-9	Tetrahydrofuran	ND	0.500	--	ND	1.47	--	U



Results Summary

Form 1

Volatile Organics in Air

Client : Inventum Engineering
 Project Name : SOUTH BUFFALO DEVELOPMENT LLC
 Lab ID : L2510462-08
 Client ID : SS-TESTPORT5-02252025
 Sample Location : 140 LEE STREET, BUFFALO
 Sample Matrix : SOIL_VAPOR
 Analytical Method : 48,TO-15
 Lab File ID : R1648698
 Sample Amount : 250 ml

Lab Number : L2510462
 Project Number : BUFFALO COLOR-AREA C
 Date Collected : 02/25/25 16:00
 Date Received : 02/25/25
 Date Analyzed : 03/14/25 02:40
 Dilution Factor : 1
 Analyst : TPH
 Instrument ID : AIRLAB16
 GC Column : RTX-1

CAS NO.	Parameter	ppbV			ug/m3			Qualifier
		Results	RL	MDL	Results	RL	MDL	
107-06-2	1,2-Dichloroethane	ND	0.200	--	ND	0.809	--	U
110-54-3	n-Hexane	0.399	0.200	--	1.41	0.705	--	
71-55-6	1,1,1-Trichloroethane	ND	0.200	--	ND	1.09	--	U
71-43-2	Benzene	1.36	0.200	--	4.34	0.639	--	
56-23-5	Carbon tetrachloride	ND	0.200	--	ND	1.26	--	U
110-82-7	Cyclohexane	0.414	0.200	--	1.43	0.688	--	
78-87-5	1,2-Dichloropropane	ND	0.200	--	ND	0.924	--	U
75-27-4	Bromodichloromethane	ND	0.200	--	ND	1.34	--	U
123-91-1	1,4-Dioxane	ND	0.200	--	ND	0.721	--	U
79-01-6	Trichloroethene	ND	0.200	--	ND	1.07	--	U
540-84-1	2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--	U
142-82-5	Heptane	ND	0.200	--	ND	0.820	--	U
10061-01-5	cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--	U
108-10-1	4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--	U
10061-02-6	trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--	U
79-00-5	1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--	U
108-88-3	Toluene	0.439	0.200	--	1.65	0.754	--	
591-78-6	2-Hexanone	1.24	0.200	--	5.08	0.820	--	
124-48-1	Dibromochloromethane	ND	0.200	--	ND	1.70	--	U
106-93-4	1,2-Dibromoethane	ND	0.200	--	ND	1.54	--	U
127-18-4	Tetrachloroethene	10.6	0.200	--	71.9	1.36	--	
108-90-7	Chlorobenzene	ND	0.200	--	ND	0.921	--	U
100-41-4	Ethylbenzene	ND	0.200	--	ND	0.869	--	U
179601-23-1	p/m-Xylene	0.418	0.400	--	1.82	1.74	--	
75-25-2	Bromoform	ND	0.200	--	ND	2.07	--	U
100-42-5	Styrene	ND	0.200	--	ND	0.852	--	U



Results Summary

Form 1

Volatile Organics in Air

Client : Inventum Engineering
 Project Name : SOUTH BUFFALO DEVELOPMENT LLC
 Lab ID : L2510462-08
 Client ID : SS-TESTPORT5-02252025
 Sample Location : 140 LEE STREET, BUFFALO
 Sample Matrix : SOIL_VAPOR
 Analytical Method : 48,TO-15
 Lab File ID : R1648698
 Sample Amount : 250 ml

Lab Number : L2510462
 Project Number : BUFFALO COLOR-AREA C
 Date Collected : 02/25/25 16:00
 Date Received : 02/25/25
 Date Analyzed : 03/14/25 02:40
 Dilution Factor : 1
 Analyst : TPH
 Instrument ID : AIRLAB16
 GC Column : RTX-1

CAS NO.	Parameter	ppbV			ug/m3			Qualifier
		Results	RL	MDL	Results	RL	MDL	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--	U
95-47-6	o-Xylene	ND	0.200	--	ND	0.869	--	U
622-96-8	4-Ethyltoluene	ND	0.200	--	ND	0.983	--	U
108-67-8	1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--	U
95-63-6	1,2,4-Trimethylbenzene	ND	0.200	--	ND	0.983	--	U
100-44-7	Benzyl chloride	ND	0.200	--	ND	1.04	--	U
541-73-1	1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--	U
106-46-7	1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--	U
95-50-1	1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--	U
87-68-3	Hexachlorobutadiene	ND	0.200	--	ND	2.13	--	U



Results Summary

Form 1

Volatile Organics in Air

Client : Inventum Engineering
 Project Name : SOUTH BUFFALO DEVELOPMENT LLC
 Lab ID : L2510462-09
 Client ID : AA-OUTDOOR-02252025
 Sample Location : 140 LEE STREET, BUFFALO
 Sample Matrix : AIR
 Analytical Method : 48,TO-15
 Lab File ID : R1648692
 Sample Amount : 250 ml

Lab Number : L2510462
 Project Number : BUFFALO COLOR-AREA C
 Date Collected : 02/25/25 15:45
 Date Received : 02/25/25
 Date Analyzed : 03/13/25 22:41
 Dilution Factor : 1
 Analyst : TPH
 Instrument ID : AIRLAB16
 GC Column : RTX-1

CAS NO.	Parameter	ppbV			ug/m3			Qualifier
		Results	RL	MDL	Results	RL	MDL	
75-71-8	Dichlorodifluoromethane	0.473	0.200	--	2.34	0.989	--	
74-87-3	Chloromethane	0.530	0.200	--	1.09	0.413	--	
76-14-2	Freon-114	ND	0.200	--	ND	1.40	--	U
106-99-0	1,3-Butadiene	ND	0.200	--	ND	0.442	--	U
74-83-9	Bromomethane	ND	0.200	--	ND	0.777	--	U
75-00-3	Chloroethane	ND	0.200	--	ND	0.528	--	U
64-17-5	Ethanol	ND	5.00	--	ND	9.42	--	U
593-60-2	Vinyl bromide	ND	0.200	--	ND	0.874	--	U
67-64-1	Acetone	3.04	1.00	--	7.22	2.38	--	
75-69-4	Trichlorofluoromethane	ND	0.200	--	ND	1.12	--	U
67-63-0	Isopropanol	ND	1.00	--	ND	2.46	--	U
75-65-0	Tertiary butyl Alcohol	ND	0.500	--	ND	1.52	--	U
75-09-2	Methylene chloride	ND	0.500	--	ND	1.74	--	U
107-05-1	3-Chloropropene	ND	0.200	--	ND	0.626	--	U
75-15-0	Carbon disulfide	ND	0.200	--	ND	0.623	--	U
76-13-1	Freon-113	ND	0.200	--	ND	1.53	--	U
156-60-5	trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--	U
75-34-3	1,1-Dichloroethane	ND	0.200	--	ND	0.809	--	U
1634-04-4	Methyl tert butyl ether	ND	0.200	--	ND	0.721	--	U
78-93-3	2-Butanone	ND	0.500	--	ND	1.47	--	U
141-78-6	Ethyl Acetate	ND	0.500	--	ND	1.80	--	U
67-66-3	Chloroform	ND	0.200	--	ND	0.977	--	U
109-99-9	Tetrahydrofuran	0.832	0.500	--	2.45	1.47	--	
107-06-2	1,2-Dichloroethane	ND	0.200	--	ND	0.809	--	U
110-54-3	n-Hexane	0.279	0.200	--	0.983	0.705	--	
71-43-2	Benzene	ND	0.200	--	ND	0.639	--	U



Results Summary

Form 1

Volatile Organics in Air

Client : Inventum Engineering
 Project Name : SOUTH BUFFALO DEVELOPMENT LLC
 Lab ID : L2510462-09
 Client ID : AA-OUTDOOR-02252025
 Sample Location : 140 LEE STREET, BUFFALO
 Sample Matrix : AIR
 Analytical Method : 48,TO-15
 Lab File ID : R1648692
 Sample Amount : 250 ml

Lab Number : L2510462
 Project Number : BUFFALO COLOR-AREA C
 Date Collected : 02/25/25 15:45
 Date Received : 02/25/25
 Date Analyzed : 03/13/25 22:41
 Dilution Factor : 1
 Analyst : TPH
 Instrument ID : AIRLAB16
 GC Column : RTX-1

CAS NO.	Parameter	ppbV			ug/m3			Qualifier
		Results	RL	MDL	Results	RL	MDL	
110-82-7	Cyclohexane	ND	0.200	--	ND	0.688	--	U
78-87-5	1,2-Dichloropropane	ND	0.200	--	ND	0.924	--	U
75-27-4	Bromodichloromethane	ND	0.200	--	ND	1.34	--	U
123-91-1	1,4-Dioxane	ND	0.200	--	ND	0.721	--	U
540-84-1	2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--	U
142-82-5	Heptane	ND	0.200	--	ND	0.820	--	U
10061-01-5	cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--	U
108-10-1	4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--	U
10061-02-6	trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--	U
79-00-5	1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--	U
108-88-3	Toluene	0.201	0.200	--	0.757	0.754	--	
591-78-6	2-Hexanone	ND	0.200	--	ND	0.820	--	U
124-48-1	Dibromochloromethane	ND	0.200	--	ND	1.70	--	U
106-93-4	1,2-Dibromoethane	ND	0.200	--	ND	1.54	--	U
108-90-7	Chlorobenzene	ND	0.200	--	ND	0.921	--	U
100-41-4	Ethylbenzene	ND	0.200	--	ND	0.869	--	U
179601-23-1	p/m-Xylene	ND	0.400	--	ND	1.74	--	U
75-25-2	Bromoform	ND	0.200	--	ND	2.07	--	U
100-42-5	Styrene	ND	0.200	--	ND	0.852	--	U
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--	U
95-47-6	o-Xylene	ND	0.200	--	ND	0.869	--	U
622-96-8	4-Ethyltoluene	ND	0.200	--	ND	0.983	--	U
108-67-8	1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--	U
95-63-6	1,2,4-Trimethylbenzene	0.462	0.200	--	2.27	0.983	--	
100-44-7	Benzyl chloride	ND	0.200	--	ND	1.04	--	U
541-73-1	1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--	U



Results Summary

Form 1

Volatile Organics in Air

Client : Inventum Engineering
 Project Name : SOUTH BUFFALO DEVELOPMENT LLC
 Lab ID : L2510462-09
 Client ID : AA-OUTDOOR-02252025
 Sample Location : 140 LEE STREET, BUFFALO
 Sample Matrix : AIR
 Analytical Method : 48,TO-15
 Lab File ID : R1648692
 Sample Amount : 250 ml

Lab Number : L2510462
 Project Number : BUFFALO COLOR-AREA C
 Date Collected : 02/25/25 15:45
 Date Received : 02/25/25
 Date Analyzed : 03/13/25 22:41
 Dilution Factor : 1
 Analyst : TPH
 Instrument ID : AIRLAB16
 GC Column : RTX-1

CAS NO.	Parameter	ppbV			ug/m3			Qualifier
		Results	RL	MDL	Results	RL	MDL	
106-46-7	1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--	U
95-50-1	1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--	U
87-68-3	Hexachlorobutadiene	ND	0.200	--	ND	2.13	--	U



Results Summary

Form 1

Volatile Organics in Air

Client : Inventum Engineering
 Project Name : SOUTH BUFFALO DEVELOPMENT LLC
 Lab ID : L2510462-10
 Client ID : AA-TESTPORT99-02252025
 Sample Location : 140 LEE STREET, BUFFALO
 Sample Matrix : AIR
 Analytical Method : 48,TO-15
 Lab File ID : R1648693
 Sample Amount : 250 ml

Lab Number : L2510462
 Project Number : BUFFALO COLOR-AREA C
 Date Collected : 02/25/25 15:50
 Date Received : 02/25/25
 Date Analyzed : 03/13/25 23:20
 Dilution Factor : 1
 Analyst : TPH
 Instrument ID : AIRLAB16
 GC Column : RTX-1

CAS NO.	Parameter	ppbV			ug/m3			Qualifier
		Results	RL	MDL	Results	RL	MDL	
75-71-8	Dichlorodifluoromethane	0.492	0.200	--	2.43	0.989	--	
74-87-3	Chloromethane	0.417	0.200	--	0.861	0.413	--	
76-14-2	Freon-114	ND	0.200	--	ND	1.40	--	U
106-99-0	1,3-Butadiene	0.214	0.200	--	0.473	0.442	--	
74-83-9	Bromomethane	ND	0.200	--	ND	0.777	--	U
75-00-3	Chloroethane	ND	0.200	--	ND	0.528	--	U
64-17-5	Ethanol	347	5.00	--	654	9.42	--	
593-60-2	Vinyl bromide	ND	0.200	--	ND	0.874	--	U
67-64-1	Acetone	13.5	1.00	--	32.1	2.38	--	
75-69-4	Trichlorofluoromethane	0.226	0.200	--	1.27	1.12	--	
67-63-0	Isopropanol	7.48	1.00	--	18.4	2.46	--	
75-65-0	Tertiary butyl Alcohol	0.543	0.500	--	1.65	1.52	--	
75-09-2	Methylene chloride	2.72	0.500	--	9.45	1.74	--	
107-05-1	3-Chloropropene	ND	0.200	--	ND	0.626	--	U
75-15-0	Carbon disulfide	ND	0.200	--	ND	0.623	--	U
76-13-1	Freon-113	ND	0.200	--	ND	1.53	--	U
156-60-5	trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--	U
75-34-3	1,1-Dichloroethane	ND	0.200	--	ND	0.809	--	U
1634-04-4	Methyl tert butyl ether	ND	0.200	--	ND	0.721	--	U
78-93-3	2-Butanone	1.89	0.500	--	5.57	1.47	--	
141-78-6	Ethyl Acetate	0.949	0.500	--	3.42	1.80	--	
67-66-3	Chloroform	ND	0.200	--	ND	0.977	--	U
109-99-9	Tetrahydrofuran	3.08	0.500	--	9.08	1.47	--	
107-06-2	1,2-Dichloroethane	ND	0.200	--	ND	0.809	--	U
110-54-3	n-Hexane	2.00	0.200	--	7.05	0.705	--	
71-43-2	Benzene	0.648	0.200	--	2.07	0.639	--	



Results Summary

Form 1

Volatile Organics in Air

Client : Inventum Engineering
 Project Name : SOUTH BUFFALO DEVELOPMENT LLC
 Lab ID : L2510462-10
 Client ID : AA-TESTPORT99-02252025
 Sample Location : 140 LEE STREET, BUFFALO
 Sample Matrix : AIR
 Analytical Method : 48,TO-15
 Lab File ID : R1648693
 Sample Amount : 250 ml

Lab Number : L2510462
 Project Number : BUFFALO COLOR-AREA C
 Date Collected : 02/25/25 15:50
 Date Received : 02/25/25
 Date Analyzed : 03/13/25 23:20
 Dilution Factor : 1
 Analyst : TPH
 Instrument ID : AIRLAB16
 GC Column : RTX-1

CAS NO.	Parameter	ppbV			ug/m3			Qualifier
		Results	RL	MDL	Results	RL	MDL	
110-82-7	Cyclohexane	0.494	0.200	--	1.70	0.688	--	
78-87-5	1,2-Dichloropropane	ND	0.200	--	ND	0.924	--	U
75-27-4	Bromodichloromethane	ND	0.200	--	ND	1.34	--	U
123-91-1	1,4-Dioxane	ND	0.200	--	ND	0.721	--	U
540-84-1	2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--	U
142-82-5	Heptane	0.420	0.200	--	1.72	0.820	--	
10061-01-5	cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--	U
108-10-1	4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--	U
10061-02-6	trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--	U
79-00-5	1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--	U
108-88-3	Toluene	0.411	0.200	--	1.55	0.754	--	
591-78-6	2-Hexanone	ND	0.200	--	ND	0.820	--	U
124-48-1	Dibromochloromethane	ND	0.200	--	ND	1.70	--	U
106-93-4	1,2-Dibromoethane	ND	0.200	--	ND	1.54	--	U
108-90-7	Chlorobenzene	ND	0.200	--	ND	0.921	--	U
100-41-4	Ethylbenzene	2.04	0.200	--	8.86	0.869	--	
179601-23-1	p/m-Xylene	6.62	0.400	--	28.8	1.74	--	
75-25-2	Bromoform	ND	0.200	--	ND	2.07	--	U
100-42-5	Styrene	ND	0.200	--	ND	0.852	--	U
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--	U
95-47-6	o-Xylene	1.32	0.200	--	5.73	0.869	--	
622-96-8	4-Ethyltoluene	ND	0.200	--	ND	0.983	--	U
108-67-8	1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--	U
95-63-6	1,2,4-Trimethylbenzene	ND	0.200	--	ND	0.983	--	U
100-44-7	Benzyl chloride	ND	0.200	--	ND	1.04	--	U
541-73-1	1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--	U



Results Summary

Form 1

Volatile Organics in Air

Client : Inventum Engineering
 Project Name : SOUTH BUFFALO DEVELOPMENT LLC
 Lab ID : L2510462-10
 Client ID : AA-TESTPORT99-02252025
 Sample Location : 140 LEE STREET, BUFFALO
 Sample Matrix : AIR
 Analytical Method : 48,TO-15
 Lab File ID : R1648693
 Sample Amount : 250 ml

Lab Number : L2510462
 Project Number : BUFFALO COLOR-AREA C
 Date Collected : 02/25/25 15:50
 Date Received : 02/25/25
 Date Analyzed : 03/13/25 23:20
 Dilution Factor : 1
 Analyst : TPH
 Instrument ID : AIRLAB16
 GC Column : RTX-1

CAS NO.	Parameter	ppbV			ug/m3			Qualifier
		Results	RL	MDL	Results	RL	MDL	
106-46-7	1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--	U
95-50-1	1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--	U
87-68-3	Hexachlorobutadiene	ND	0.200	--	ND	2.13	--	U



Results Summary

Form 1

Volatile Organics in Air

Client : Inventum Engineering
 Project Name : SOUTH BUFFALO DEVELOPMENT LLC
 Lab ID : L2510462-11
 Client ID : SS-TESTPORT99-02252025
 Sample Location : 140 LEE STREET, BUFFALO
 Sample Matrix : SOIL_VAPOR
 Analytical Method : 48,TO-15
 Lab File ID : R1648699
 Sample Amount : 250 ml

Lab Number : L2510462
 Project Number : BUFFALO COLOR-AREA C
 Date Collected : 02/25/25 15:51
 Date Received : 02/25/25
 Date Analyzed : 03/14/25 03:21
 Dilution Factor : 1
 Analyst : TPH
 Instrument ID : AIRLAB16
 GC Column : RTX-1

CAS NO.	Parameter	ppbV			ug/m3			Qualifier
		Results	RL	MDL	Results	RL	MDL	
75-71-8	Dichlorodifluoromethane	0.506	0.200	--	2.50	0.989	--	
74-87-3	Chloromethane	0.418	0.200	--	0.863	0.413	--	
76-14-2	Freon-114	ND	0.200	--	ND	1.40	--	U
75-01-4	Vinyl chloride	ND	0.200	--	ND	0.511	--	U
106-99-0	1,3-Butadiene	0.260	0.200	--	0.575	0.442	--	
74-83-9	Bromomethane	ND	0.200	--	ND	0.777	--	U
75-00-3	Chloroethane	ND	0.200	--	ND	0.528	--	U
64-17-5	Ethanol	453	5.00	--	854	9.42	--	
593-60-2	Vinyl bromide	ND	0.200	--	ND	0.874	--	U
67-64-1	Acetone	24.0	1.00	--	57.0	2.38	--	
75-69-4	Trichlorofluoromethane	0.230	0.200	--	1.29	1.12	--	
67-63-0	Isopropanol	1.75	1.00	--	4.30	2.46	--	
75-35-4	1,1-Dichloroethene	ND	0.200	--	ND	0.793	--	U
75-65-0	Tertiary butyl Alcohol	0.695	0.500	--	2.11	1.52	--	
75-09-2	Methylene chloride	3.07	0.500	--	10.7	1.74	--	
107-05-1	3-Chloropropene	ND	0.200	--	ND	0.626	--	U
75-15-0	Carbon disulfide	ND	0.200	--	ND	0.623	--	U
76-13-1	Freon-113	ND	0.200	--	ND	1.53	--	U
156-60-5	trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--	U
75-34-3	1,1-Dichloroethane	ND	0.200	--	ND	0.809	--	U
1634-04-4	Methyl tert butyl ether	ND	0.200	--	ND	0.721	--	U
78-93-3	2-Butanone	4.63	0.500	--	13.7	1.47	--	
156-59-2	cis-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--	U
141-78-6	Ethyl Acetate	ND	0.500	--	ND	1.80	--	U
67-66-3	Chloroform	ND	0.200	--	ND	0.977	--	U
109-99-9	Tetrahydrofuran	4.81	0.500	--	14.2	1.47	--	



Results Summary

Form 1

Volatile Organics in Air

Client : Inventum Engineering
 Project Name : SOUTH BUFFALO DEVELOPMENT LLC
 Lab ID : L2510462-11
 Client ID : SS-TESTPORT99-02252025
 Sample Location : 140 LEE STREET, BUFFALO
 Sample Matrix : SOIL_VAPOR
 Analytical Method : 48,TO-15
 Lab File ID : R1648699
 Sample Amount : 250 ml

Lab Number : L2510462
 Project Number : BUFFALO COLOR-AREA C
 Date Collected : 02/25/25 15:51
 Date Received : 02/25/25
 Date Analyzed : 03/14/25 03:21
 Dilution Factor : 1
 Analyst : TPH
 Instrument ID : AIRLAB16
 GC Column : RTX-1

CAS NO.	Parameter	ppbV			ug/m3			Qualifier
		Results	RL	MDL	Results	RL	MDL	
107-06-2	1,2-Dichloroethane	ND	0.200	--	ND	0.809	--	U
110-54-3	n-Hexane	0.754	0.200	--	2.66	0.705	--	
71-55-6	1,1,1-Trichloroethane	ND	0.200	--	ND	1.09	--	U
71-43-2	Benzene	0.609	0.200	--	1.95	0.639	--	
56-23-5	Carbon tetrachloride	ND	0.200	--	ND	1.26	--	U
110-82-7	Cyclohexane	0.566	0.200	--	1.95	0.688	--	
78-87-5	1,2-Dichloropropane	ND	0.200	--	ND	0.924	--	U
75-27-4	Bromodichloromethane	ND	0.200	--	ND	1.34	--	U
123-91-1	1,4-Dioxane	ND	0.200	--	ND	0.721	--	U
79-01-6	Trichloroethene	ND	0.200	--	ND	1.07	--	U
540-84-1	2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--	U
142-82-5	Heptane	0.636	0.200	--	2.61	0.820	--	
10061-01-5	cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--	U
108-10-1	4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--	U
10061-02-6	trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--	U
79-00-5	1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--	U
108-88-3	Toluene	0.797	0.200	--	3.00	0.754	--	
591-78-6	2-Hexanone	1.28	0.200	--	5.25	0.820	--	
124-48-1	Dibromochloromethane	ND	0.200	--	ND	1.70	--	U
106-93-4	1,2-Dibromoethane	ND	0.200	--	ND	1.54	--	U
127-18-4	Tetrachloroethene	12.1	0.200	--	82.1	1.36	--	
108-90-7	Chlorobenzene	ND	0.200	--	ND	0.921	--	U
100-41-4	Ethylbenzene	1.02	0.200	--	4.43	0.869	--	
179601-23-1	p/m-Xylene	2.49	0.400	--	10.8	1.74	--	
75-25-2	Bromoform	ND	0.200	--	ND	2.07	--	U
100-42-5	Styrene	ND	0.200	--	ND	0.852	--	U



Results Summary

Form 1

Volatile Organics in Air

Client : Inventum Engineering
 Project Name : SOUTH BUFFALO DEVELOPMENT LLC
 Lab ID : L2510462-11
 Client ID : SS-TESTPORT99-02252025
 Sample Location : 140 LEE STREET, BUFFALO
 Sample Matrix : SOIL_VAPOR
 Analytical Method : 48,TO-15
 Lab File ID : R1648699
 Sample Amount : 250 ml

Lab Number : L2510462
 Project Number : BUFFALO COLOR-AREA C
 Date Collected : 02/25/25 15:51
 Date Received : 02/25/25
 Date Analyzed : 03/14/25 03:21
 Dilution Factor : 1
 Analyst : TPH
 Instrument ID : AIRLAB16
 GC Column : RTX-1

CAS NO.	Parameter	ppbV			ug/m3			Qualifier
		Results	RL	MDL	Results	RL	MDL	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--	U
95-47-6	o-Xylene	0.505	0.200	--	2.19	0.869	--	
622-96-8	4-Ethyltoluene	ND	0.200	--	ND	0.983	--	U
108-67-8	1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--	U
95-63-6	1,2,4-Trimethylbenzene	ND	0.200	--	ND	0.983	--	U
100-44-7	Benzyl chloride	ND	0.200	--	ND	1.04	--	U
541-73-1	1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--	U
106-46-7	1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--	U
95-50-1	1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--	U
87-68-3	Hexachlorobutadiene	ND	0.200	--	ND	2.13	--	U



Results Summary

Form 1

Volatile Organics in Air

Client : Inventum Engineering
 Project Name : SOUTH BUFFALO DEVELOPMENT LLC
 Lab ID : WG2040290-4
 Client ID : WG2040290-4BLANK
 Sample Location :
 Sample Matrix : AIR
 Analytical Method : 48,TO-15
 Lab File ID : R1648686
 Sample Amount : 250 ml

Lab Number : L2510462
 Project Number : BUFFALO COLOR-AREA C
 Date Collected : NA
 Date Received : NA
 Date Analyzed : 03/13/25 18:42
 Dilution Factor : 1
 Analyst : TPH
 Instrument ID : AIRLAB16
 GC Column : RTX-1

CAS NO.	Parameter	ppbV			ug/m3			Qualifier
		Results	RL	MDL	Results	RL	MDL	
75-71-8	Dichlorodifluoromethane	ND	0.200	--	ND	0.989	--	U
74-87-3	Chloromethane	ND	0.200	--	ND	0.413	--	U
76-14-2	Freon-114	ND	0.200	--	ND	1.40	--	U
75-01-4	Vinyl chloride	ND	0.200	--	ND	0.511	--	U
106-99-0	1,3-Butadiene	ND	0.200	--	ND	0.442	--	U
74-83-9	Bromomethane	ND	0.200	--	ND	0.777	--	U
75-00-3	Chloroethane	ND	0.200	--	ND	0.528	--	U
64-17-5	Ethanol	ND	5.00	--	ND	9.42	--	U
593-60-2	Vinyl bromide	ND	0.200	--	ND	0.874	--	U
67-64-1	Acetone	ND	1.00	--	ND	2.38	--	U
75-69-4	Trichlorofluoromethane	ND	0.200	--	ND	1.12	--	U
67-63-0	Isopropanol	ND	1.00	--	ND	2.46	--	U
75-35-4	1,1-Dichloroethene	ND	0.200	--	ND	0.793	--	U
75-65-0	Tertiary butyl Alcohol	ND	0.500	--	ND	1.52	--	U
75-09-2	Methylene chloride	ND	0.500	--	ND	1.74	--	U
107-05-1	3-Chloropropene	ND	0.200	--	ND	0.626	--	U
75-15-0	Carbon disulfide	ND	0.200	--	ND	0.623	--	U
76-13-1	Freon-113	ND	0.200	--	ND	1.53	--	U
156-60-5	trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--	U
75-34-3	1,1-Dichloroethane	ND	0.200	--	ND	0.809	--	U
1634-04-4	Methyl tert butyl ether	ND	0.200	--	ND	0.721	--	U
78-93-3	2-Butanone	ND	0.500	--	ND	1.47	--	U
156-59-2	cis-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--	U
141-78-6	Ethyl Acetate	ND	0.500	--	ND	1.80	--	U
67-66-3	Chloroform	ND	0.200	--	ND	0.977	--	U
109-99-9	Tetrahydrofuran	ND	0.500	--	ND	1.47	--	U



Results Summary

Form 1

Volatile Organics in Air

Client : Inventum Engineering
 Project Name : SOUTH BUFFALO DEVELOPMENT LLC
 Lab ID : WG2040290-4
 Client ID : WG2040290-4BLANK
 Sample Location :
 Sample Matrix : AIR
 Analytical Method : 48,TO-15
 Lab File ID : R1648686
 Sample Amount : 250 ml

Lab Number : L2510462
 Project Number : BUFFALO COLOR-AREA C
 Date Collected : NA
 Date Received : NA
 Date Analyzed : 03/13/25 18:42
 Dilution Factor : 1
 Analyst : TPH
 Instrument ID : AIRLAB16
 GC Column : RTX-1

CAS NO.	Parameter	ppbV			ug/m3			Qualifier
		Results	RL	MDL	Results	RL	MDL	
107-06-2	1,2-Dichloroethane	ND	0.200	--	ND	0.809	--	U
110-54-3	n-Hexane	ND	0.200	--	ND	0.705	--	U
71-55-6	1,1,1-Trichloroethane	ND	0.200	--	ND	1.09	--	U
71-43-2	Benzene	ND	0.200	--	ND	0.639	--	U
56-23-5	Carbon tetrachloride	ND	0.200	--	ND	1.26	--	U
110-82-7	Cyclohexane	ND	0.200	--	ND	0.688	--	U
78-87-5	1,2-Dichloropropane	ND	0.200	--	ND	0.924	--	U
75-27-4	Bromodichloromethane	ND	0.200	--	ND	1.34	--	U
123-91-1	1,4-Dioxane	ND	0.200	--	ND	0.721	--	U
79-01-6	Trichloroethene	ND	0.200	--	ND	1.07	--	U
540-84-1	2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--	U
142-82-5	Heptane	ND	0.200	--	ND	0.820	--	U
10061-01-5	cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--	U
108-10-1	4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--	U
10061-02-6	trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--	U
79-00-5	1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--	U
108-88-3	Toluene	ND	0.200	--	ND	0.754	--	U
591-78-6	2-Hexanone	ND	0.200	--	ND	0.820	--	U
124-48-1	Dibromochloromethane	ND	0.200	--	ND	1.70	--	U
106-93-4	1,2-Dibromoethane	ND	0.200	--	ND	1.54	--	U
127-18-4	Tetrachloroethene	ND	0.200	--	ND	1.36	--	U
108-90-7	Chlorobenzene	ND	0.200	--	ND	0.921	--	U
100-41-4	Ethylbenzene	ND	0.200	--	ND	0.869	--	U
179601-23-1	p/m-Xylene	ND	0.400	--	ND	1.74	--	U
75-25-2	Bromoform	ND	0.200	--	ND	2.07	--	U
100-42-5	Styrene	ND	0.200	--	ND	0.852	--	U



Results Summary

Form 1

Volatile Organics in Air

Client : Inventum Engineering
 Project Name : SOUTH BUFFALO DEVELOPMENT LLC
 Lab ID : WG2040290-4
 Client ID : WG2040290-4BLANK
 Sample Location :
 Sample Matrix : AIR
 Analytical Method : 48,TO-15
 Lab File ID : R1648686
 Sample Amount : 250 ml

Lab Number : L2510462
 Project Number : BUFFALO COLOR-AREA C
 Date Collected : NA
 Date Received : NA
 Date Analyzed : 03/13/25 18:42
 Dilution Factor : 1
 Analyst : TPH
 Instrument ID : AIRLAB16
 GC Column : RTX-1

CAS NO.	Parameter	ppbV			ug/m3			Qualifier
		Results	RL	MDL	Results	RL	MDL	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--	U
95-47-6	o-Xylene	ND	0.200	--	ND	0.869	--	U
622-96-8	4-Ethyltoluene	ND	0.200	--	ND	0.983	--	U
108-67-8	1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--	U
95-63-6	1,2,4-Trimethylbenzene	ND	0.200	--	ND	0.983	--	U
100-44-7	Benzyl chloride	ND	0.200	--	ND	1.04	--	U
541-73-1	1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--	U
106-46-7	1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--	U
95-50-1	1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--	U
120-82-1	1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--	U
91-20-3	Naphthalene	ND	0.190	--	ND	0.996	--	U
87-68-3	Hexachlorobutadiene	ND	0.200	--	ND	2.13	--	U



Results Summary

Form 1

Volatile Organics in Air

Client : Inventum Engineering
 Project Name : SOUTH BUFFALO DEVELOPMENT LLC
 Lab ID : WG2040290-5
 Client ID : AA-TESTPORT99-02252025DUP
 Sample Location :
 Sample Matrix : AIR
 Analytical Method : 48,TO-15
 Lab File ID : R1648694
 Sample Amount : 250 ml

Lab Number : L2510462
 Project Number : BUFFALO COLOR-AREA C
 Date Collected : 02/25/25 15:50
 Date Received : 02/25/25
 Date Analyzed : 03/14/25 00:00
 Dilution Factor : 1
 Analyst : TPH
 Instrument ID : AIRLAB16
 GC Column : RTX-1

CAS NO.	Parameter	ppbV			ug/m3			Qualifier
		Results	RL	MDL	Results	RL	MDL	
75-71-8	Dichlorodifluoromethane	0.483	0.200	--	2.39	0.989	--	
74-87-3	Chloromethane	0.399	0.200	--	0.824	0.413	--	
76-14-2	Freon-114	ND	0.200	--	ND	1.40	--	U
106-99-0	1,3-Butadiene	0.243	0.200	--	0.538	0.442	--	
74-83-9	Bromomethane	ND	0.200	--	ND	0.777	--	U
75-00-3	Chloroethane	ND	0.200	--	ND	0.528	--	U
64-17-5	Ethanol	332	5.00	--	626	9.42	--	
593-60-2	Vinyl bromide	ND	0.200	--	ND	0.874	--	U
67-64-1	Acetone	13.1	1.00	--	31.1	2.38	--	
75-69-4	Trichlorofluoromethane	0.223	0.200	--	1.25	1.12	--	
67-63-0	Isopropanol	8.01	1.00	--	19.7	2.46	--	
75-65-0	Tertiary butyl Alcohol	0.541	0.500	--	1.64	1.52	--	
75-09-2	Methylene chloride	2.70	0.500	--	9.38	1.74	--	
107-05-1	3-Chloropropene	ND	0.200	--	ND	0.626	--	U
75-15-0	Carbon disulfide	ND	0.200	--	ND	0.623	--	U
76-13-1	Freon-113	ND	0.200	--	ND	1.53	--	U
156-60-5	trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--	U
75-34-3	1,1-Dichloroethane	ND	0.200	--	ND	0.809	--	U
1634-04-4	Methyl tert butyl ether	ND	0.200	--	ND	0.721	--	U
78-93-3	2-Butanone	1.88	0.500	--	5.54	1.47	--	
141-78-6	Ethyl Acetate	0.942	0.500	--	3.39	1.80	--	
67-66-3	Chloroform	ND	0.200	--	ND	0.977	--	U
109-99-9	Tetrahydrofuran	3.06	0.500	--	9.02	1.47	--	
107-06-2	1,2-Dichloroethane	ND	0.200	--	ND	0.809	--	U
110-54-3	n-Hexane	2.17	0.200	--	7.65	0.705	--	
71-43-2	Benzene	0.668	0.200	--	2.13	0.639	--	



Results Summary

Form 1

Volatile Organics in Air

Client : Inventum Engineering
 Project Name : SOUTH BUFFALO DEVELOPMENT LLC
 Lab ID : WG2040290-5
 Client ID : AA-TESTPORT99-02252025DUP
 Sample Location :
 Sample Matrix : AIR
 Analytical Method : 48,TO-15
 Lab File ID : R1648694
 Sample Amount : 250 ml

Lab Number : L2510462
 Project Number : BUFFALO COLOR-AREA C
 Date Collected : 02/25/25 15:50
 Date Received : 02/25/25
 Date Analyzed : 03/14/25 00:00
 Dilution Factor : 1
 Analyst : TPH
 Instrument ID : AIRLAB16
 GC Column : RTX-1

CAS NO.	Parameter	ppbV			ug/m3			Qualifier
		Results	RL	MDL	Results	RL	MDL	
110-82-7	Cyclohexane	0.492	0.200	--	1.69	0.688	--	
78-87-5	1,2-Dichloropropane	ND	0.200	--	ND	0.924	--	U
75-27-4	Bromodichloromethane	ND	0.200	--	ND	1.34	--	U
123-91-1	1,4-Dioxane	ND	0.200	--	ND	0.721	--	U
540-84-1	2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--	U
142-82-5	Heptane	0.427	0.200	--	1.75	0.820	--	
10061-01-5	cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--	U
108-10-1	4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--	U
10061-02-6	trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--	U
79-00-5	1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--	U
108-88-3	Toluene	0.427	0.200	--	1.61	0.754	--	
591-78-6	2-Hexanone	ND	0.200	--	ND	0.820	--	U
124-48-1	Dibromochloromethane	ND	0.200	--	ND	1.70	--	U
106-93-4	1,2-Dibromoethane	ND	0.200	--	ND	1.54	--	U
108-90-7	Chlorobenzene	ND	0.200	--	ND	0.921	--	U
100-41-4	Ethylbenzene	2.11	0.200	--	9.16	0.869	--	
179601-23-1	p/m-Xylene	6.80	0.400	--	29.5	1.74	--	
75-25-2	Bromoform	ND	0.200	--	ND	2.07	--	U
100-42-5	Styrene	ND	0.200	--	ND	0.852	--	U
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--	U
95-47-6	o-Xylene	1.36	0.200	--	5.91	0.869	--	
622-96-8	4-Ethyltoluene	ND	0.200	--	ND	0.983	--	U
108-67-8	1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--	U
95-63-6	1,2,4-Trimethylbenzene	ND	0.200	--	ND	0.983	--	U
100-44-7	Benzyl chloride	ND	0.200	--	ND	1.04	--	U
541-73-1	1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--	U



Results Summary

Form 1

Volatile Organics in Air

Client : Inventum Engineering
 Project Name : SOUTH BUFFALO DEVELOPMENT LLC
 Lab ID : WG2040290-5
 Client ID : AA-TESTPORT99-02252025DUP
 Sample Location :
 Sample Matrix : AIR
 Analytical Method : 48,TO-15
 Lab File ID : R1648694
 Sample Amount : 250 ml

Lab Number : L2510462
 Project Number : BUFFALO COLOR-AREA C
 Date Collected : 02/25/25 15:50
 Date Received : 02/25/25
 Date Analyzed : 03/14/25 00:00
 Dilution Factor : 1
 Analyst : TPH
 Instrument ID : AIRLAB16
 GC Column : RTX-1

CAS NO.	Parameter	ppbV			ug/m3			Qualifier
		Results	RL	MDL	Results	RL	MDL	
106-46-7	1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--	U
95-50-1	1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--	U
87-68-3	Hexachlorobutadiene	ND	0.200	--	ND	2.13	--	U



Results Summary

Form 1

Volatile Organics in Air

Client : Inventum Engineering
 Project Name : SOUTH BUFFALO DEVELOPMENT LLC
 Lab ID : WG2042684-4
 Client ID : WG2042684-4BLANK
 Sample Location :
 Sample Matrix : AIR
 Analytical Method : 48,TO-15
 Lab File ID : R1553908
 Sample Amount : 250 ml

Lab Number : L2510462
 Project Number : BUFFALO COLOR-AREA C
 Date Collected : NA
 Date Received : NA
 Date Analyzed : 03/19/25 17:59
 Dilution Factor : 1
 Analyst : KJD
 Instrument ID : AIRLAB15
 GC Column : RTX-1

CAS NO.	Parameter	ppbV			ug/m3			Qualifier
		Results	RL	MDL	Results	RL	MDL	
75-71-8	Dichlorodifluoromethane	ND	0.200	--	ND	0.989	--	U
74-87-3	Chloromethane	ND	0.200	--	ND	0.413	--	U
76-14-2	Freon-114	ND	0.200	--	ND	1.40	--	U
75-01-4	Vinyl chloride	ND	0.200	--	ND	0.511	--	U
106-99-0	1,3-Butadiene	ND	0.200	--	ND	0.442	--	U
74-83-9	Bromomethane	ND	0.200	--	ND	0.777	--	U
75-00-3	Chloroethane	ND	0.200	--	ND	0.528	--	U
64-17-5	Ethanol	ND	5.00	--	ND	9.42	--	U
593-60-2	Vinyl bromide	ND	0.200	--	ND	0.874	--	U
67-64-1	Acetone	ND	1.00	--	ND	2.38	--	U
75-69-4	Trichlorofluoromethane	ND	0.200	--	ND	1.12	--	U
67-63-0	Isopropanol	ND	1.00	--	ND	2.46	--	U
75-35-4	1,1-Dichloroethene	ND	0.200	--	ND	0.793	--	U
75-65-0	Tertiary butyl Alcohol	ND	0.500	--	ND	1.52	--	U
75-09-2	Methylene chloride	ND	0.500	--	ND	1.74	--	U
107-05-1	3-Chloropropene	ND	0.200	--	ND	0.626	--	U
75-15-0	Carbon disulfide	ND	0.200	--	ND	0.623	--	U
76-13-1	Freon-113	ND	0.200	--	ND	1.53	--	U
156-60-5	trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--	U
75-34-3	1,1-Dichloroethane	ND	0.200	--	ND	0.809	--	U
1634-04-4	Methyl tert butyl ether	ND	0.200	--	ND	0.721	--	U
78-93-3	2-Butanone	ND	0.500	--	ND	1.47	--	U
156-59-2	cis-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--	U
141-78-6	Ethyl Acetate	ND	0.500	--	ND	1.80	--	U
67-66-3	Chloroform	ND	0.200	--	ND	0.977	--	U
109-99-9	Tetrahydrofuran	ND	0.500	--	ND	1.47	--	U



Results Summary

Form 1

Volatile Organics in Air

Client : Inventum Engineering
 Project Name : SOUTH BUFFALO DEVELOPMENT LLC
 Lab ID : WG2042684-4
 Client ID : WG2042684-4BLANK
 Sample Location :
 Sample Matrix : AIR
 Analytical Method : 48,TO-15
 Lab File ID : R1553908
 Sample Amount : 250 ml

Lab Number : L2510462
 Project Number : BUFFALO COLOR-AREA C
 Date Collected : NA
 Date Received : NA
 Date Analyzed : 03/19/25 17:59
 Dilution Factor : 1
 Analyst : KJD
 Instrument ID : AIRLAB15
 GC Column : RTX-1

CAS NO.	Parameter	ppbV			ug/m3			Qualifier
		Results	RL	MDL	Results	RL	MDL	
107-06-2	1,2-Dichloroethane	ND	0.200	--	ND	0.809	--	U
110-54-3	n-Hexane	ND	0.200	--	ND	0.705	--	U
71-55-6	1,1,1-Trichloroethane	ND	0.200	--	ND	1.09	--	U
71-43-2	Benzene	ND	0.200	--	ND	0.639	--	U
56-23-5	Carbon tetrachloride	ND	0.200	--	ND	1.26	--	U
110-82-7	Cyclohexane	ND	0.200	--	ND	0.688	--	U
78-87-5	1,2-Dichloropropane	ND	0.200	--	ND	0.924	--	U
75-27-4	Bromodichloromethane	ND	0.200	--	ND	1.34	--	U
123-91-1	1,4-Dioxane	ND	0.200	--	ND	0.721	--	U
79-01-6	Trichloroethene	ND	0.200	--	ND	1.07	--	U
540-84-1	2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--	U
142-82-5	Heptane	ND	0.200	--	ND	0.820	--	U
10061-01-5	cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--	U
108-10-1	4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--	U
10061-02-6	trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--	U
79-00-5	1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--	U
108-88-3	Toluene	ND	0.200	--	ND	0.754	--	U
591-78-6	2-Hexanone	ND	0.200	--	ND	0.820	--	U
124-48-1	Dibromochloromethane	ND	0.200	--	ND	1.70	--	U
106-93-4	1,2-Dibromoethane	ND	0.200	--	ND	1.54	--	U
127-18-4	Tetrachloroethene	ND	0.200	--	ND	1.36	--	U
108-90-7	Chlorobenzene	ND	0.200	--	ND	0.921	--	U
100-41-4	Ethylbenzene	ND	0.200	--	ND	0.869	--	U
179601-23-1	p/m-Xylene	ND	0.400	--	ND	1.74	--	U
75-25-2	Bromoform	ND	0.200	--	ND	2.07	--	U
100-42-5	Styrene	ND	0.200	--	ND	0.852	--	U



Results Summary

Form 1

Volatile Organics in Air

Client : Inventum Engineering
 Project Name : SOUTH BUFFALO DEVELOPMENT LLC
 Lab ID : WG2042684-4
 Client ID : WG2042684-4BLANK
 Sample Location :
 Sample Matrix : AIR
 Analytical Method : 48,TO-15
 Lab File ID : R1553908
 Sample Amount : 250 ml

Lab Number : L2510462
 Project Number : BUFFALO COLOR-AREA C
 Date Collected : NA
 Date Received : NA
 Date Analyzed : 03/19/25 17:59
 Dilution Factor : 1
 Analyst : KJD
 Instrument ID : AIRLAB15
 GC Column : RTX-1

CAS NO.	Parameter	ppbV			ug/m3			Qualifier
		Results	RL	MDL	Results	RL	MDL	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--	U
95-47-6	o-Xylene	ND	0.200	--	ND	0.869	--	U
622-96-8	4-Ethyltoluene	ND	0.200	--	ND	0.983	--	U
108-67-8	1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--	U
95-63-6	1,2,4-Trimethylbenzene	ND	0.200	--	ND	0.983	--	U
100-44-7	Benzyl chloride	ND	0.200	--	ND	1.04	--	U
541-73-1	1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--	U
106-46-7	1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--	U
95-50-1	1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--	U
120-82-1	1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--	U
91-20-3	Naphthalene	ND	0.190	--	ND	0.996	--	U
87-68-3	Hexachlorobutadiene	ND	0.200	--	ND	2.13	--	U



Initial Calibration Summary

Form 6

Air Volatiles

Client : Inventum Engineering
Project Name : SOUTH BUFFALO DEVELOPMENT LLC
Instrument ID : AIRLAB15
Calibration dates : 02/16/25 02:27 02/16/25 06:55
Lab Number : L2510462
Project Number : BUFFALO COLOR-AREA C
Ical Ref : ICAL21997

Calibration Files

0.2 =r1553054.D 0.5 =r1553055.D 1.0 =r1553056.D 5.0 =r1553057.D 10 =r1553058.D 20 =r1553059.D
 50 =r1553060.D 100 =r1553061.D

Compound	0.2	0.5	1.0	5.0	10	20	50	100	Avg	%RSD
1) I bromochloromethane	-----ISTD-----									
2) chlorodifluoromethane	0.845	0.907	0.892	0.908	0.922	0.939	0.917	0.900	0.904	3.06
3) propylene		0.852	0.785	0.736	0.642	0.677	0.677	0.633	0.714	11.29
4) propane		0.855	0.834	0.719	0.708	0.718	0.737	0.729	0.757	8.03
5) dichlorodifluoromethane	0.958	1.020	1.022	1.091	1.055	0.995	0.999	0.948	1.011	4.68
6) C chloromethane	0.594	0.629	0.641	0.660	0.647	0.623	0.628	0.591	0.627	3.87
7) Freon-114	1.085	1.151	1.158	1.280	1.259	1.204	1.173	1.067	1.172	6.39
8) C methanol			0.683	0.354	0.347	0.357	0.365	0.353	0.410	32.64#
9) C vinyl chloride	0.506	0.533	0.545	0.603	0.600	0.583	0.594	0.580	0.568	6.28
10) C 1,3-butadiene	0.506	0.507	0.495	0.527	0.525	0.513	0.521	0.500	0.512	2.30
11) butane	1.033	1.047	1.043	1.033	1.018	1.023	1.027	0.959	1.023	2.69
12) C acetaldehyde		0.385	0.399	0.388	0.385	0.373	0.370	0.337	0.377	5.30
13) C bromomethane	0.379	0.377	0.379	0.411	0.414	0.397	0.403	0.390	0.394	3.75
14) C chloroethane	0.258	0.256	0.258	0.282	0.282	0.275	0.280	0.273	0.270	4.21
15) ethanol			0.608	0.427	0.380	0.399	0.537	0.649	0.500	22.86
16) dichlorofluoromethane	1.048	0.957	1.033	0.967	0.905	0.836	0.840	0.671	0.907	13.66
17) C vinyl bromide	0.334	0.352	0.360	0.392	0.385	0.383	0.386	0.365	0.369	5.50
18) C acrolein		0.378	0.287	0.316	0.312	0.329	0.337	0.333	0.327	8.56
19) acetone	0.955	0.802	0.797	0.767	0.758	0.735	0.716	0.647	0.772	11.55
20) C acetonitrile	0.482	0.503	0.581	0.588	0.603	0.627	0.635	0.608	0.578	9.75
21) trichlorofluoromethane	0.830	0.702	0.721	0.780	0.773	0.886	0.863	0.737	0.787	8.56
22) isopropyl alcohol	2.115	1.996	1.910	1.134	1.071	1.229	1.211	1.126	1.474	30.36#
23) C acrylonitrile	0.465	0.472	0.492	0.547	0.561	0.588	0.606	0.613	0.543	10.98
24) pentane	1.638	1.447	1.783	1.766	1.777	1.838	2.006	1.722	1.747	9.20
25) ethyl ether	1.156	1.190	1.265	1.461	1.509	1.578	1.515	1.534	1.401	12.07
26) C 1,1-dichloroethene	0.730	0.766	0.787	0.876	0.873	0.825	0.817	0.785	0.807	6.28
27) tertiary butyl alcohol		1.068	1.077	1.196	1.189	1.216	1.204	1.176	1.161	5.30
28) C methylene chloride		0.759	0.765	0.840	0.839	0.812	0.815	0.790	0.803	4.09
29) C 3-chloropropene	0.907	0.933	0.961	1.036	1.030	1.007	0.994	0.933	0.975	4.98
30) C carbon disulfide	1.329	1.434	1.457	1.593	1.610	1.580	1.561	1.451	1.502	6.59
31) Freon 113	0.867	0.922	0.928	1.044	1.031	0.972	0.964	0.909	0.955	6.36
32) trans-1,2-dichloroethene	0.655	0.701	0.708	0.793	0.795	0.770	0.763	0.734	0.740	6.70
33) C 1,1-dichloroethane	0.962	0.987	1.022	1.132	1.129	1.071	1.062	1.007	1.047	6.01
34) C MTBE	1.191	1.287	1.311	1.471	1.462	1.432	1.432	1.380	1.371	7.24
35) C vinyl acetate	1.450	1.626	1.468	1.722	1.860	1.935	1.961	1.871	1.737	11.72
36) C 2-butanone		1.519	1.501	1.717	1.725	1.684	1.681	1.592	1.631	5.74



Initial Calibration Summary

Form 6

Air Volatiles

Client : Inventum Engineering
Project Name : SOUTH BUFFALO DEVELOPMENT LLC
Instrument ID : AIRLAB16
Calibration dates : 03/08/25 03:05 03/08/25 07:48
Lab Number : L2510462
Project Number : BUFFALO COLOR-AREA C
Ical Ref : ICAL22066

Calibration Files

0.2 =r1648627.D 0.5 =r1648628.D 1.0 =r1648629.D 5.0 =r1648630.D 10 =r1648631.D 20 =r1648632.D
 50 =r1648633.D 100 =r1648634.D

	Compound	0.2	0.5	1.0	5.0	10	20	50	100	Avg	%RSD
73)	3-methylthiophene	0.607	0.659	0.670	1.680	1.794	0.597	0.650	0.665	0.915	55.59#
74)	dibromochloromethane	1.949	2.190	2.308	1.786	2.067	2.455	2.773	2.960	2.311	17.43
75) C	1,2-dibromoethane	2.819	2.975	3.214	3.072	3.242	2.781	2.990	3.292	3.048	6.29
76)	butyl acetate		0.663	0.718	0.705	0.787	0.688	0.785	0.945	0.756	12.67
77)	octane	2.564	2.543	2.632	2.478	2.661	2.265	2.345	2.467	2.494	5.45
78) C	tetrachloroethene	2.450	2.652	2.675	2.594	2.816	2.377	2.523	2.717	2.601	5.57
79)	1,1,1,2-tetrachloroethane	1.858	1.933	1.997	2.030	2.294	2.049	2.282	2.362	2.101	8.89
80) C	chlorobenzene	4.876	5.323	5.421	5.220	5.596	4.690	4.940	5.307	5.172	5.93
81) C	ethylbenzene	8.114	8.340	8.669	8.331	9.031	7.651	8.202	8.369	8.338	4.82
82)	2-ethylthiophene	0.628	0.678	0.690	1.769	1.914	0.621	0.683	0.715	0.962	56.64#
83) C	m+p-xylene	6.269	6.671	6.887	6.621	7.106	6.051	6.376	6.357	6.542	5.29
84) C	bromoform	1.182	1.268	1.388	1.148	1.384	1.721	2.095	2.371	1.570	28.75
85) C	styrene	4.592	4.927	5.295	5.084	5.444	4.636	5.006	5.636	5.078	7.26
86) C	1,1,2,2-tetrachloroethane	4.692	5.101	5.324	5.143	5.512	4.537	4.664	4.921	4.987	6.88
87) C	o-xylene	6.212	6.513	6.823	6.604	7.128	6.010	6.260	6.211	6.470	5.75
88)	1,2,3-trichloropropane	3.264	3.504	3.737	3.514	3.709	3.137	3.410	3.907	3.523	7.26
89)	nonane	5.977	5.714	5.844	5.537	6.002	5.243	6.100	6.545	5.870	6.64
90) s	bromofluorobenzene	4.333	4.484	4.400	4.141	4.058	4.474	4.548	4.914	4.419	5.95
91) C	isopropylbenzene	8.062	8.514	8.905	8.374	8.845	7.547	8.030	8.865	8.393	5.81
92)	bromobenzene	4.420	4.836	5.105	4.778	5.092	4.290	4.537	5.061	4.765	6.69
93)	2-chlorotoluene	2.153	2.324	2.408	2.321	2.556	2.196	2.505	2.857	2.415	9.35
94)	n-propylbenzene	2.570	2.647	2.793	2.701	2.920	2.573	2.870	3.130	2.776	6.96
95)	4-chlorotoluene	2.224	2.380	2.511	2.410	2.581	2.248	2.591	2.857	2.475	8.36
96)	4-ethyl toluene	7.561	8.141	8.302	6.157	6.564	7.239	7.801	8.596	7.545	11.29
97)	1,3,5-trimethylbenzene	6.485	7.250	7.604	7.322	7.801	6.454	6.936	7.719	7.196	7.33
98)	tert-butylbenzene	7.099	7.900	8.358	7.854	8.543	7.309	7.658	7.891	7.826	6.17
99)	1,2,4-trimethylbenzene	6.623	7.314	7.675	7.466	7.995	6.652	7.288	7.284	7.287	6.41
100)	decane	6.113	6.758	7.277	6.891	7.411	6.205	6.387	6.487	6.691	7.17
101) C	Benzyl Chloride	2.071	2.514	2.906	2.628	3.291	4.011	5.135	5.715	3.534	37.06#
102)	1,3-dichlorobenzene	4.446	5.088	5.380	5.245	5.708	4.744	5.261	5.892	5.221	9.05
103) C	1,4-dichlorobenzene	4.147	5.052	5.219	5.120	5.593	4.608	5.159	5.850	5.093	10.43
104)	sec-butylbenzene	0.930	1.070	1.139	1.066	1.138	0.952	1.037	1.132	1.058	7.72
105)	1,2,3-trimethylbenzene	6.671	7.540	8.136	7.751	8.238	6.828	7.598	7.579	7.543	7.35
106)	p-isopropyltoluene	0.822	0.951	1.006	0.975	1.059	0.894	0.940	0.956	0.950	7.47
107)	1,2-dichlorobenzene	3.833	4.708	4.993	4.961	5.392	4.363	4.855	5.602	4.839	11.54
108)	n-butylbenzene	6.742	7.748	8.424	8.108	8.871	7.501	8.334	8.804	8.067	8.85



Evaluate Continuing Calibration Report

Data Path : X:\Airlab\Data\Airlab16\2025\03\0307T_I\
 Data File : r1648637.D
 Acq On : 8 Mar 2025 2:28 PM
 Operator : AIRLAB16:APR
 Sample : CT015-LLSTD010
 Misc : WG2038887
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Mar 11 06:22:59 2025
 Quant Method : X:\Airlab\Data\Airlab16\2025\03\0307T_I\TFS16_250307.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Tue Mar 11 06:21:33 2025
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 60% Max. R.T. Dev 0.33min
 Max. RRF Dev : 30% Max. Rel. Area : 140%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 I	bromochloromethane	1.000	1.000	0.0	99	0.00
2	chlorodifluoromethane	0.942	0.949	-0.7	95	0.00
3	propylene	0.581	0.795	-36.8#	165#	0.01
4	propane	0.479	0.630	-31.5#	126	0.01
5	dichlorodifluoromethane	1.083	1.211	-11.8	92	0.00
6 C	chloromethane	0.738	0.712	3.5	92	0.01
7	Freon-114	1.478	1.647	-11.4	103	0.00
8 C	methanol	0.290	0.253	12.8	84	0.00
9 C	vinyl chloride	0.647	0.652	-0.8	92	0.00
10 C	1,3-butadiene	0.515	0.590	-14.6	137	0.01
11	butane	1.190	1.086	8.7	85	0.00
13 C	bromomethane	0.532	0.560	-5.3	98	0.00
14 C	chloroethane	0.321	0.325	-1.2	93	0.00
15	ethanol	0.496	0.428	13.7	78	0.00
16	dichlorofluoromethane	1.251	1.080	13.7	81	0.00
17 C	vinyl bromide	0.502	0.573	-14.1	129	0.00
18 C	acrolein	0.320	0.279	12.8	84	0.00
19	acetone	0.824	0.881	-6.9	121	0.00
20 C	acetonitrile	0.691	0.572	17.2	79	0.00
21	trichlorofluoromethane	0.953	0.887	6.9	83	0.00
22	isopropyl alcohol	1.155	1.201	-4.0	119	0.00
23 C	acrylonitrile	0.627	0.571	8.9	90	0.00
24	pentane	1.447	1.300	10.2	82	0.00
25	ethyl ether	0.994	0.959	3.5	92	0.00
26 C	1,1-dichloroethene	0.862	0.839	2.7	91	0.01
27	tertiary butyl alcohol	1.191	1.011	15.1	79	0.01
28 C	methylene chloride	0.839	0.882	-5.1	96	0.01
29 C	3-chloropropene	1.066	1.338	-25.5	162#	0.00
30 C	carbon disulfide	1.735	2.087	-20.3	141#	0.00
31	Freon 113	1.262	1.446	-14.6	107	0.01
32	trans-1,2-dichloroethene	0.924	1.132	-22.5	138	0.00
33 C	1,1-dichloroethane	1.333	1.464	-9.8	102	0.00
34 C	MTBE	1.454	1.846	-27.0	147#	0.00
35 C	vinyl acetate	1.725	1.592	7.7	109	0.00
36 C	2-butanone	1.581	1.959	-23.9	147#	0.00
37	cis-1,2-dichloroethene	1.012	1.086	-7.3	99	0.00
38	Ethyl Acetate	0.241	0.299	-24.1	138	0.00
39 C	chloroform	1.214	1.257	-3.5	94	0.00
40	Tetrahydrofuran	0.878	1.195	-36.1#	165#	0.00

Evaluate Continuing Calibration Report

Data Path : X:\Airlab\Data\Airlab16\2025\03\0307T_I\
 Data File : r1648637.D
 Acq On : 8 Mar 2025 2:28 PM
 Operator : AIRLAB16:APR
 Sample : CT015-LLSTD010
 Misc : WG2038887
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Mar 11 06:22:59 2025
 Quant Method : X:\Airlab\Data\Airlab16\2025\03\0307T_I\TFS16_250307.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Tue Mar 11 06:21:33 2025
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 60% Max. R.T. Dev 0.33min
 Max. RRF Dev : 30% Max. Rel. Area : 140%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
41	2,2-dichloropropane	0.844	0.836	0.9	93	0.00
42 C	1,2-dichloroethane	0.790	0.796	-0.8	94	0.00
43 I	1,4-difluorobenzene	1.000	1.000	0.0	98	0.00
44 C	hexane	0.404	0.469	-16.1	132	0.00
45	diisopropyl ether	0.234	0.238	-1.7	94	0.00
46	tert-butyl ethyl ether	0.839	0.830	1.1	91	0.00
47 s	1,2-dichloroethane-D4	0.309	0.313	-1.3	101	0.00
48 C	1,1,1-trichloroethane	0.355	0.386	-8.7	100	0.00
49	1,1-dichloropropene	0.354	0.383	-8.2	101	0.00
50 C	benzene	0.834	0.857	-2.8	95	0.01
52 C	carbon tetrachloride	0.306	0.335	-9.5	97	0.00
53	cyclohexane	0.424	0.498	-17.5	132	0.00
54	tert-amyl methyl ether	0.715	0.752	-5.2	100	0.00
55	dibromomethane	0.270	0.283	-4.8	97	0.00
56 C	1,2-dichloropropane	0.340	0.375	-10.3	101	0.00
57	bromodichloromethane	0.372	0.463	-24.5	136	0.00
58 C	1,4-dioxane	0.179	0.213	-19.0	137	0.00
59 C	trichloroethene	0.365	0.406	-11.2	101	0.01
60 C	2,2,4-trimethylpentane	1.329	1.549	-16.6	131	0.00
61	methyl methacrylate	0.441	0.451	-2.3	96	0.00
62	heptane	0.565	0.737	-30.4#	154#	0.00
63 C	cis-1,3-dichloropropene	0.386	0.448	-16.1	106	0.00
64 C	4-methyl-2-pentanone	0.693	0.868	-25.3	146#	0.00
65	trans-1,3-dichloropropene	0.281	0.343	-22.1	111	0.00
66 C	1,1,2-trichloroethane	0.323	0.364	-12.7	105	0.00
67 I	chlorobenzene-D5	1.000	1.000	0.0	94	0.00
68 C	toluene	6.766	7.685	-13.6	101	0.00
69 s	toluene-D8	6.932	6.931	0.0	101	0.00
71	1,3-dichloropropane	2.961	3.075	-3.9	94	0.00
72	2-hexanone	4.302	5.542	-28.8	138	0.00
74	dibromochloromethane	2.311	3.307	-43.1#	151#	0.00
75 C	1,2-dibromoethane	3.048	3.484	-14.3	101	0.00
76	butyl acetate	0.756	0.803	-6.2	96	0.00
77	octane	2.494	2.551	-2.3	90	0.00
78 C	tetrachloroethene	2.601	2.917	-12.1	98	0.00
79	1,1,1,2-tetrachloroethane	2.101	2.307	-9.8	95	0.00
80 C	chlorobenzene	5.172	5.658	-9.4	95	0.00

Evaluate Continuing Calibration Report

Data Path : X:\Airlab\Data\Airlab16\2025\03\0307T_I\
 Data File : r1648637.D
 Acq On : 8 Mar 2025 2:28 PM
 Operator : AIRLAB16:APR
 Sample : CT015-LLSTD010
 Misc : WG2038887
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Mar 11 06:22:59 2025
 Quant Method : X:\Airlab\Data\Airlab16\2025\03\0307T_I\TFS16_250307.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Tue Mar 11 06:21:33 2025
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 60% Max. R.T. Dev 0.33min
 Max. RRF Dev : 30% Max. Rel. Area : 140%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
81 C	ethylbenzene	8.338	9.503	-14.0	99	0.00
83 C	m+p-xylene	6.542	7.636	-16.7	101	0.00
84 C	bromoform	1.570	2.321	-47.8#	158#	0.00
85 C	styrene	5.078	5.716	-12.6	99	0.00
86 C	1,1,2,2-tetrachloroethane	4.987	5.531	-10.9	95	0.00
87 C	o-xylene	6.470	7.685	-18.8	102	0.00
88	1,2,3-trichloropropane	3.523	3.673	-4.3	93	0.00
89	nonane	5.870	6.567	-11.9	103	0.00
90 s	bromofluorobenzene	4.419	4.591	-3.9	107	0.00
91 C	isopropylbenzene	8.393	8.943	-6.6	95	0.00
92	bromobenzene	4.765	4.955	-4.0	92	0.00
93	2-chlorotoluene	2.415	2.609	-8.0	96	0.00
94	n-propylbenzene	2.776	2.985	-7.5	96	0.00
95	4-chlorotoluene	2.475	2.573	-4.0	94	0.00
96	4-ethyl toluene	7.545	9.642	-27.8	139	0.00
97	1,3,5-trimethylbenzene	7.196	8.247	-14.6	100	0.00
98	tert-butylbenzene	7.826	8.644	-10.5	95	0.00
99	1,2,4-trimethylbenzene	7.287	8.205	-12.6	97	0.00
100	decane	6.691	7.255	-8.4	92	0.00
101 C	Benzyl Chloride	3.534	4.146	-17.3	119	0.00
102	1,3-dichlorobenzene	5.221	5.894	-12.9	97	0.00
103 C	1,4-dichlorobenzene	5.093	5.766	-13.2	97	0.00
104	sec-butylbenzene	10.579	11.055	-4.5	92	0.00
106	p-isopropyltoluene	9.504	9.639	-1.4	86	0.00
107	1,2-dichlorobenzene	4.839	5.399	-11.6	94	0.00
108	n-butylbenzene	8.067	9.235	-14.5	98	0.00
111 C	1,2-dibromo-3-chloropropane	1.819	1.947	-7.0	87	0.00
112	undecane	7.393	8.250	-11.6	90	0.00
114	dodecane	7.646	8.624	-12.8	83	0.00
115 C	1,2,4-trichlorobenzene	2.921	3.398	-16.3	90	0.00
116	naphthalene	10.099	10.666	-5.6	83	0.00
117	1,2,3-trichlorobenzene	2.916	3.164	-8.5	84	0.00
119 C	hexachlorobutadiene	2.395	2.778	-16.0	89	0.00

* Evaluation of CC level amount vs concentration.
 (#) = Out of Range SPCC's out = 0 CCC's out = 1

Evaluate Continuing Calibration Report

Data Path : X:\Airlab\Data\Airlab15\2025\02\0215T_I\
 Data File : r1553064.D
 Acq On : 16 Feb 2025 11:39 AM
 Operator : AIRLAB15:APR
 Sample : CT015-LLSTD10.0
 Misc : WG2031058
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Feb 17 06:10:18 2025
 Quant Method : X:\Airlab\Data\Airlab15\2025\02\0215T_I\TFS15_250215.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Mon Feb 17 06:08:58 2025
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 60% Max. R.T. Dev 0.33min
 Max. RRF Dev : 30% Max. Rel. Area : 140%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 I	bromochloromethane	1.000	1.000	0.0	99	0.03
2	chlorodifluoromethane	0.904	0.937	-3.7	101	0.02
3	propylene	0.714	0.651	8.8	101	0.03
4	propane	0.757	0.751	0.8	106	0.02
5	dichlorodifluoromethane	1.011	1.077	-6.5	102	0.02
6 C	chloromethane	0.627	0.611	2.6	94	0.02
7	Freon-114	1.172	1.384	-18.1	109	0.02
8 C	methanol	0.410	0.314	23.4	90	0.03
9 C	vinyl chloride	0.568	0.619	-9.0	103	0.03
10 C	1,3-butadiene	0.512	0.584	-14.1	111	0.03
11	butane	1.023	0.994	2.8	97	0.03
13 C	bromomethane	0.394	0.450	-14.2	108	0.03
14 C	chloroethane	0.270	0.302	-11.9	107	0.03
15	ethanol	0.500	0.661	-32.2#	173#	0.04
16	dichlorofluoromethane	0.907	0.651	28.2	72	0.03
17 C	vinyl bromide	0.369	0.433	-17.3	112	0.03
18 C	acrolein	0.327	0.285	12.8	91	0.03
19	acetone	0.772	0.905	-17.2	119	0.03
20 C	acetonitrile	0.578	0.563	2.6	93	0.03
21	trichlorofluoromethane	0.787	0.939	-19.3	121	0.04
22	isopropyl alcohol	1.474	1.295	12.1	120	0.03
23 C	acrylonitrile	0.543	0.552	-1.7	98	0.04
24	pentane	1.747	1.604	8.2	90	0.04
25	ethyl ether	1.401	0.900	35.8#	59#	0.04
26 C	1,1-dichloroethene	0.807	0.894	-10.8	102	0.04
27	tertiary butyl alcohol	1.161	1.121	3.4	94	0.04
28 C	methylene chloride	0.803	0.879	-9.5	104	0.04
29 C	3-chloropropene	0.975	1.106	-13.4	107	0.04
30 C	carbon disulfide	1.502	1.777	-18.3	110	0.04
31	Freon 113	0.955	1.048	-9.7	101	0.04
32	trans-1,2-dichloroethene	0.740	0.855	-15.5	107	0.04
33 C	1,1-dichloroethane	1.047	1.105	-5.5	97	0.04
34 C	MTBE	1.371	1.627	-18.7	111	0.04
35 C	vinyl acetate	1.737	1.317	24.2	70	0.04
36 C	2-butanone	1.631	1.816	-11.3	105	0.04
37	cis-1,2-dichloroethene	0.772	0.835	-8.2	98	0.04
38	Ethyl Acetate	0.199	0.228	-14.6	111	0.04
39 C	chloroform	0.956	1.050	-9.8	102	0.04
40	Tetrahydrofuran	0.829	1.012	-22.1	117	0.04

Calibration Verification Summary

Form 7

Air Volatiles

Client : Inventum Engineering
 Project Name : SOUTH BUFFALO DEVELOPMENT LLC
 Instrument ID : AIRLAB16
 Lab File ID : R1648684
 Sample No : WG2040290-2
 Channel :

Lab Number : L2510462
 Project Number : BUFFALO COLOR-AREA C
 Calibration Date : 03/13/25 13:45
 Init. Calib. Date(s) : 03/08/25 03/08/25
 Init. Calib. Times : 03:05 07:48

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
bromochloromethane	1	1	-	0	30	115	-.07
chlorodifluoromethane	0.942	0.843	-	10.5	30	98	-.05
propylene	0.581	0.613	-	-5.5	30	148	-.04
propane	0.479	0.557	-	-16.3	30	130	-.04
dichlorodifluoromethane	1.083	1.063	-	1.8	30	94	-.04
chloromethane	0.738	0.495	-	32.9*	30	74	-.04
Freon-114	1.478	1.406	-	4.9	30	103	-.05
methanol	0.29	0.203	-	30	30	79	-.05
vinyl chloride	0.647	0.674	-	-4.2	30	111	-.05
1,3-butadiene	0.515	0.474	-	8	30	129	-.05
butane	1.19	0.975	-	18.1	30	89	-.05
bromomethane	0.532	0.541	-	-1.7	30	110	-.05
chloroethane	0.321	0.327	-	-1.9	30	109	-.05
ethanol	0.496	0.376	-	24.2	30	80	-.05
dichlorofluoromethane	1.251	0.987	-	21.1	30	86	-.05
vinyl bromide	0.502	0.469	-	6.6	30	123	-.06
acrolein	0.32	0.24	-	25	30	84	-.05
acetone	0.824	0.768	-	6.8	30	123	-.06
acetonitrile	0.691	0.676	-	2.2	30	109	-.06
trichlorofluoromethane	0.953	0.703	-	26.2	30	77	-.06
isopropyl alcohol	1.155	0.947	-	18	30	109	-.06
acrylonitrile	0.627	0.429	-	31.6*	30	79	-.06
pentane	1.447	1.133	-	21.7	30	84	-.06
ethyl ether	0.994	0.738	-	25.8	30	82	-.06
1,1-dichloroethene	0.862	0.808	-	6.3	30	102	-.06
tertiary butyl alcohol	1.191	0.95	-	20.2	30	87	-.06
methylene chloride	0.839	0.63	-	24.9	30	80	-.06
3-chloropropene	1.066	0.93	-	12.8	30	131	-.07
carbon disulfide	1.735	1.982	-	-14.2	30	157	-.07
Freon 113	1.262	1.226	-	2.9	30	106	-.06
trans-1,2-dichloroethene	0.924	0.891	-	3.6	30	126	-.07
1,1-dichloroethane	1.333	1.122	-	15.8	30	91	-.07
MTBE	1.454	1.528	-	-5.1	30	142	-.07
vinyl acetate	1.725	1.127	-	34.7*	30	90	-.07
2-butanone	1.581	1.404	-	11.2	30	123	-.07
cis-1,2-dichloroethene	1.012	0.853	-	15.7	30	90	-.07
Ethyl Acetate	0.241	0.244	-	-1.2	30	131	-.07
chloroform	1.214	1.075	-	11.4	30	94	-.07
Tetrahydrofuran	0.878	0.846	-	3.6	30	136	-.07
2,2-dichloropropane	0.844	0.676	-	19.9	30	88	-.07
1,2-dichloroethane	0.79	0.571	-	27.7	30	78	-.07
1,4-difluorobenzene	1	1	-	0	30	102	-.07
hexane	0.404	0.487	-	-20.5	30	142	-.07

* Value outside of QC limits.



Calibration Verification Summary

Form 7

Air Volatiles

Client : Inventum Engineering
 Project Name : SOUTH BUFFALO DEVELOPMENT LLC
 Instrument ID : AIRLAB16
 Lab File ID : R1648684
 Sample No : WG2040290-2
 Channel :

Lab Number : L2510462
 Project Number : BUFFALO COLOR-AREA C
 Calibration Date : 03/13/25 13:45
 Init. Calib. Date(s) : 03/08/25 03/08/25
 Init. Calib. Times : 03:05 07:48

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
diisopropyl ether	0.234	0.221	-	5.6	30	91	-.07
tert-butyl ethyl ether	0.839	0.742	-	11.6	30	84	-.07
1,1,1-trichloroethane	0.355	0.325	-	8.5	30	87	-.06
1,1-dichloropropene	0.354	0.389	-	-9.9	30	107	-.07
benzene	0.834	0.91	-	-9.1	30	105	-.06
carbon tetrachloride	0.306	0.285	-	6.9	30	86	-.07
cyclohexane	0.424	0.521	-	-22.9	30	143	-.07
tert-amyl methyl ether	0.715	0.713	-	0.3	30	99	-.06
dibromomethane	0.27	0.257	-	4.8	30	91	-.07
1,2-dichloropropane	0.34	0.326	-	4.1	30	91	-.07
bromodichloromethane	0.372	0.429	-	-15.3	30	131	-.06
1,4-dioxane	0.179	0.199	-	-11.2	30	134	-.07
trichloroethene	0.365	0.387	-	-6	30	101	-.06
2,2,4-trimethylpentane	1.329	1.62	-	-21.9	30	143	-.06
methyl methacrylate	0.441	0.3	-	32*	30	67	.06
heptane	0.565	0.604	-	-6.9	30	132	-.06
cis-1,3-dichloropropene	0.386	0.462	-	-19.7	30	114	-.06
4-methyl-2-pentanone	0.693	0.7	-	-1	30	123	-.07
trans-1,3-dichloropropene	0.281	0.338	-	-20.3	30	114	-.07
1,1,2-trichloroethane	0.323	0.347	-	-7.4	30	104	-.06
chlorobenzene-D5	1	1	-	0	30	101	-.05
toluene	6.766	6.857	-	-1.3	30	96	-.06
1,3-dichloropropane	2.961	3.149	-	-6.3	30	102	-.06
2-hexanone	4.302	4.388	-	-2	30	117	-.05
dibromochloromethane	2.311	2.996	-	-29.6	30	146	-.06
1,2-dibromoethane	3.048	3.425	-	-12.4	30	107	-.06
butyl acetate	0.756	0.819	-	-8.3	30	105	-.05
octane	2.494	2.353	-	5.7	30	89	-.05
tetrachloroethene	2.601	2.711	-	-4.2	30	97	-.05
1,1,1,2-tetrachloroethane	2.101	2.096	-	0.2	30	92	-.05
chlorobenzene	5.172	5.438	-	-5.1	30	98	-.04
ethylbenzene	8.338	8.393	-	-0.7	30	94	-.05
m+p-xylene	6.542	6.724	-	-2.8	30	95	-.05
bromoform	1.57	2.13	-	-35.7*	30	155	-.05
styrene	5.078	5.428	-	-6.9	30	101	-.05
1,1,2,2-tetrachloroethane	4.987	5.179	-	-3.9	30	95	-.05
o-xylene	6.47	6.838	-	-5.7	30	97	-.05
1,2,3-trichloropropane	3.523	3.604	-	-2.3	30	98	-.04
nonane	5.87	5.632	-	4.1	30	95	-.05
isopropylbenzene	8.393	8.23	-	1.9	30	94	-.04
bromobenzene	4.765	4.658	-	2.2	30	92	-.05
2-chlorotoluene	2.415	2.406	-	0.4	30	95	-.05
n-propylbenzene	2.776	2.676	-	3.6	30	92	-.05

* Value outside of QC limits.



Calibration Verification Summary

Form 7

Air Volatiles

Client	: Inventum Engineering	Lab Number	: L2510462
Project Name	: SOUTH BUFFALO DEVELOPMENT LLC	Project Number	: BUFFALO COLOR-AREA C
Instrument ID	: AIRLAB16	Calibration Date	: 03/13/25 13:45
Lab File ID	: R1648684	Init. Calib. Date(s)	: 03/08/25 03/08/25
Sample No	: WG2040290-2	Init. Calib. Times	: 03:05 07:48
Channel	:		

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
4-chlorotoluene	2.475	2.323	-	6.1	30	91	-.05
4-ethyl toluene	7.545	8.596	-	-13.9	30	132	-.05
1,3,5-trimethylbenzene	7.196	7.413	-	-3	30	96	-.04
tert-butylbenzene	7.826	7.488	-	4.3	30	88	-.05
1,2,4-trimethylbenzene	7.287	7.423	-	-1.9	30	94	-.04
decane	6.691	5.938	-	11.3	30	81	-.04
Benzyl Chloride	3.534	3.388	-	4.1	30	104	-.04
1,3-dichlorobenzene	5.221	5.105	-	2.2	30	90	-.04
1,4-dichlorobenzene	5.093	5.12	-	-0.5	30	92	-.04
sec-butylbenzene	10.579	9.79	-	7.5	30	87	-.04
p-isopropyltoluene	9.504	7.991	-	15.9	30	76	-.04
1,2-dichlorobenzene	4.839	4.643	-	4.1	30	87	-.05
n-butylbenzene	8.067	7.492	-	7.1	30	85	-.04
1,2-dibromo-3-chloropropan	1.819	1.53	-	15.9	30	73	-.05
undecane	7.393	5.468	-	26	30	64	-.04
dodecane	7.646	2.524	-	67*	30	26	-.03
1,2,4-trichlorobenzene	2.921	2.076	-	28.9	30	59	-.04
naphthalene	10.099	6.774	-	32.9*	30	56	-.05
1,2,3-trichlorobenzene	2.916	1.685	-	42.2*	30	48	-.04
hexachlorobutadiene	2.395	1.193	-	50.2*	30	41	-.05

* Value outside of QC limits.



Calibration Verification Summary

Form 7

Air Volatiles

Client : Inventum Engineering Project Name : SOUTH BUFFALO DEVELOPMENT LLC Instrument ID : AIRLAB15 Lab File ID : R1553905 Sample No : WG2042684-2 Channel :	Lab Number : L2510462 Project Number : BUFFALO COLOR-AREA C Calibration Date : 03/19/25 14:43 Init. Calib. Date(s) : 02/16/25 02/16/25 Init. Calib. Times : 02:27 06:55
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Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
bromochloromethane	1	1	-	0	30	104	0
chlorodifluoromethane	0.904	0.834	-	7.7	30	95	0
propylene	0.714	0.643	-	9.9	30	105	0
propane	0.757	0.627	-	17.2	30	93	-.01
dichlorodifluoromethane	1.011	1.085	-	-7.3	30	107	-.01
chloromethane	0.627	0.615	-	1.9	30	99	-.01
Freon-114	1.172	1.148	-	2	30	95	-.01
methanol	0.41	0.303	-	26.1	30	91	0
vinyl chloride	0.568	0.539	-	5.1	30	94	0
1,3-butadiene	0.512	0.444	-	13.3	30	88	-.01
butane	1.023	0.991	-	3.1	30	102	0
bromomethane	0.394	0.392	-	0.5	30	99	-.01
chloroethane	0.27	0.249	-	7.8	30	92	-.01
ethanol	0.5	0.377	-	24.6	30	104	0
dichlorofluoromethane	0.907	1.023	-	-12.8	30	118	0
vinyl bromide	0.369	0.354	-	4.1	30	96	0
acrolein	0.327	0.26	-	20.5	30	87	0
acetone	0.772	0.722	-	6.5	30	100	0
acetonitrile	0.578	0.553	-	4.3	30	96	0
trichlorofluoromethane	0.787	0.76	-	3.4	30	103	0
isopropyl alcohol	1.474	0.952	-	35.4*	30	93	-.01
acrylonitrile	0.543	0.495	-	8.8	30	92	0
pentane	1.747	1.47	-	15.9	30	86	0
ethyl ether	1.401	1.237	-	11.7	30	86	0
1,1-dichloroethene	0.807	0.776	-	3.8	30	93	0
tertiary butyl alcohol	1.161	1.041	-	10.3	30	91	0
methylene chloride	0.803	0.794	-	1.1	30	99	0
3-chloropropene	0.975	0.979	-	-0.4	30	99	0
carbon disulfide	1.502	1.446	-	3.7	30	94	0
Freon 113	0.955	1.012	-	-6	30	103	0
trans-1,2-dichloroethene	0.74	0.783	-	-5.8	30	103	0
1,1-dichloroethane	1.047	1.14	-	-8.9	30	105	0
MTBE	1.371	1.293	-	5.7	30	92	0
vinyl acetate	1.737	1.61	-	7.3	30	90	0
2-butanone	1.631	1.624	-	0.4	30	98	0
cis-1,2-dichloroethene	0.772	0.846	-	-9.6	30	105	0
Ethyl Acetate	0.199	0.201	-	-1	30	103	.02
chloroform	0.956	1.045	-	-9.3	30	107	0
Tetrahydrofuran	0.829	0.784	-	5.4	30	95	.02
2,2-dichloropropane	0.814	0.826	-	-1.5	30	101	0
1,2-dichloroethane	0.646	0.78	-	-20.7	30	119	.02
1,4-difluorobenzene	1	1	-	0	30	101	.03
hexane	0.475	0.483	-	-1.7	30	99	0

* Value outside of QC limits.



Results Summary

Form 1

Volatile Organics in Air by SIM

Client : Inventum Engineering
 Project Name : SOUTH BUFFALO DEVELOPMENT LLC
 Lab ID : L2510462-01
 Client ID : AA-TESTPORT2-02252025
 Sample Location : 140 LEE STREET, BUFFALO
 Sample Matrix : AIR
 Analytical Method : 48,TO-15-SIM
 Lab File ID : R1648688_EV2
 Sample Amount : 250 ml

Lab Number : L2510462
 Project Number : BUFFALO COLOR-AREA C
 Date Collected : 02/25/25 15:50
 Date Received : 02/25/25
 Date Analyzed : 03/13/25 20:02
 Dilution Factor : 1
 Analyst : TPH
 Instrument ID : AIRLAB16
 GC Column : RTX-1

CAS NO.	Parameter	ppbV			ug/m3			Qualifier
		Results	RL	MDL	Results	RL	MDL	
75-01-4	Vinyl chloride	ND	0.020	--	ND	0.051	--	U
75-35-4	1,1-Dichloroethene	ND	0.020	--	ND	0.079	--	U
156-59-2	cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--	U
71-55-6	1,1,1-Trichloroethane	0.079	0.020	--	0.431	0.109	--	
56-23-5	Carbon tetrachloride	0.069	0.020	--	0.434	0.126	--	
79-01-6	Trichloroethene	ND	0.020	--	ND	0.107	--	U
127-18-4	Tetrachloroethene	18.1	0.020	--	123	0.136	--	
120-82-1	1,2,4-Trichlorobenzene	ND	0.050	--	ND	0.371	--	U
91-20-3	Naphthalene	0.196	0.050	--	1.03	0.262	--	



Results Summary

Form 1

Volatile Organics in Air by SIM

Client : Inventum Engineering Project Name : SOUTH BUFFALO DEVELOPMENT LLC Lab ID : L2510462-02 Client ID : SS-TESTPORT2-02252025 Sample Location : 140 LEE STREET, BUFFALO Sample Matrix : SOIL_VAPOR Analytical Method : 48,TO-15-SIM Lab File ID : R1648695_EV2 Sample Amount : 250 ml	Lab Number : L2510462 Project Number : BUFFALO COLOR-AREA C Date Collected : 02/25/25 15:43 Date Received : 02/25/25 Date Analyzed : 03/14/25 00:41 Dilution Factor : 1 Analyst : TPH Instrument ID : AIRLAB16 GC Column : RTX-1
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CAS NO.	Parameter	ppbV			ug/m3			Qualifier
		Results	RL	MDL	Results	RL	MDL	
120-82-1	1,2,4-Trichlorobenzene	ND	0.050	--	ND	0.371	--	U
91-20-3	Naphthalene	0.115	0.050	--	0.603	0.262	--	



Results Summary

Form 1

Volatile Organics in Air by SIM

Client : Inventum Engineering
 Project Name : SOUTH BUFFALO DEVELOPMENT LLC
 Lab ID : L2510462-03
 Client ID : AA-TESTPORT3-02252025
 Sample Location : 140 LEE STREET, BUFFALO
 Sample Matrix : AIR
 Analytical Method : 48,TO-15-SIM
 Lab File ID : R1648689_EV2
 Sample Amount : 250 ml

Lab Number : L2510462
 Project Number : BUFFALO COLOR-AREA C
 Date Collected : 02/25/25 14:29
 Date Received : 02/25/25
 Date Analyzed : 03/13/25 20:42
 Dilution Factor : 1
 Analyst : TPH
 Instrument ID : AIRLAB16
 GC Column : RTX-1

CAS NO.	Parameter	ppbV			ug/m3			Qualifier
		Results	RL	MDL	Results	RL	MDL	
75-01-4	Vinyl chloride	ND	0.020	--	ND	0.051	--	U
75-35-4	1,1-Dichloroethene	ND	0.020	--	ND	0.079	--	U
156-59-2	cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--	U
71-55-6	1,1,1-Trichloroethane	0.091	0.020	--	0.496	0.109	--	
56-23-5	Carbon tetrachloride	0.076	0.020	--	0.478	0.126	--	
79-01-6	Trichloroethene	ND	0.020	--	ND	0.107	--	U
127-18-4	Tetrachloroethene	19.6	0.020	--	133	0.136	--	
120-82-1	1,2,4-Trichlorobenzene	ND	0.050	--	ND	0.371	--	U
91-20-3	Naphthalene	0.255	0.050	--	1.34	0.262	--	



Results Summary

Form 1

Volatile Organics in Air by SIM

Client : Inventum Engineering Project Name : SOUTH BUFFALO DEVELOPMENT LLC Lab ID : L2510462-04 Client ID : SS-TESTPORT3-02252025 Sample Location : 140 LEE STREET, BUFFALO Sample Matrix : SOIL_VAPOR Analytical Method : 48,TO-15-SIM Lab File ID : R1648696_EV2 Sample Amount : 250 ml	Lab Number : L2510462 Project Number : BUFFALO COLOR-AREA C Date Collected : 02/25/25 15:57 Date Received : 02/25/25 Date Analyzed : 03/14/25 01:20 Dilution Factor : 1 Analyst : TPH Instrument ID : AIRLAB16 GC Column : RTX-1
--	---

CAS NO.	Parameter	ppbV			ug/m3			Qualifier
		Results	RL	MDL	Results	RL	MDL	
120-82-1	1,2,4-Trichlorobenzene	ND	0.050	--	ND	0.371	--	U
91-20-3	Naphthalene	0.088	0.050	--	0.461	0.262	--	



Results Summary

Form 1

Volatile Organics in Air by SIM

Client : Inventum Engineering
 Project Name : SOUTH BUFFALO DEVELOPMENT LLC
 Lab ID : L2510462-05
 Client ID : AA-TESTPORT4-02252025
 Sample Location : 140 LEE STREET, BUFFALO
 Sample Matrix : AIR
 Analytical Method : 48,TO-15-SIM
 Lab File ID : R1553923_EV2
 Sample Amount : 250 ml

Lab Number : L2510462
 Project Number : BUFFALO COLOR-AREA C
 Date Collected : 02/25/25 15:55
 Date Received : 02/25/25
 Date Analyzed : 03/20/25 11:46
 Dilution Factor : 1
 Analyst : KJD
 Instrument ID : AIRLAB15
 GC Column : RTX-1

CAS NO.	Parameter	ppbV			ug/m3			Qualifier
		Results	RL	MDL	Results	RL	MDL	
75-01-4	Vinyl chloride	ND	0.020	--	ND	0.051	--	U
75-35-4	1,1-Dichloroethene	ND	0.020	--	ND	0.079	--	U
156-59-2	cis-1,2-Dichloroethene	0.021	0.020	--	0.083	0.079	--	
71-55-6	1,1,1-Trichloroethane	0.098	0.020	--	0.535	0.109	--	
56-23-5	Carbon tetrachloride	0.083	0.020	--	0.522	0.126	--	
79-01-6	Trichloroethene	0.024	0.020	--	0.129	0.107	--	
127-18-4	Tetrachloroethene	18.2	0.020	--	123	0.136	--	



Results Summary

Form 1

Volatile Organics in Air by SIM

Client	: Inventum Engineering	Lab Number	: L2510462
Project Name	: SOUTH BUFFALO DEVELOPMENT LLC	Project Number	: BUFFALO COLOR-AREA C
Lab ID	: L2510462-06	Date Collected	: 02/25/25 15:56
Client ID	: SS-TESTPORT4-02252025	Date Received	: 02/25/25
Sample Location	: 140 LEE STREET, BUFFALO	Date Analyzed	: 03/14/25 02:01
Sample Matrix	: SOIL_VAPOR	Dilution Factor	: 1
Analytical Method	: 48,TO-15-SIM	Analyst	: TPH
Lab File ID	: R1648697_EV2	Instrument ID	: AIRLAB16
Sample Amount	: 250 ml	GC Column	: RTX-1

CAS NO.	Parameter	ppbV			ug/m3			Qualifier
		Results	RL	MDL	Results	RL	MDL	
120-82-1	1,2,4-Trichlorobenzene	ND	0.050	--	ND	0.371	--	U
91-20-3	Naphthalene	0.220	0.050	--	1.15	0.262	--	



Results Summary

Form 1

Volatile Organics in Air by SIM

Client : Inventum Engineering
 Project Name : SOUTH BUFFALO DEVELOPMENT LLC
 Lab ID : L2510462-07
 Client ID : AA-TESTPORT5-02252025
 Sample Location : 140 LEE STREET, BUFFALO
 Sample Matrix : AIR
 Analytical Method : 48,TO-15-SIM
 Lab File ID : R1648691_EV2
 Sample Amount : 250 ml

Lab Number : L2510462
 Project Number : BUFFALO COLOR-AREA C
 Date Collected : 02/25/25 15:59
 Date Received : 02/25/25
 Date Analyzed : 03/13/25 22:01
 Dilution Factor : 1
 Analyst : TPH
 Instrument ID : AIRLAB16
 GC Column : RTX-1

CAS NO.	Parameter	ppbV			ug/m3			Qualifier
		Results	RL	MDL	Results	RL	MDL	
75-01-4	Vinyl chloride	ND	0.020	--	ND	0.051	--	U
75-35-4	1,1-Dichloroethene	ND	0.020	--	ND	0.079	--	U
156-59-2	cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--	U
71-55-6	1,1,1-Trichloroethane	0.057	0.020	--	0.311	0.109	--	
56-23-5	Carbon tetrachloride	0.068	0.020	--	0.428	0.126	--	
79-01-6	Trichloroethene	ND	0.020	--	ND	0.107	--	U
127-18-4	Tetrachloroethene	15.3	0.020	--	104	0.136	--	
120-82-1	1,2,4-Trichlorobenzene	ND	0.050	--	ND	0.371	--	U
91-20-3	Naphthalene	0.089	0.050	--	0.467	0.262	--	



Results Summary

Form 1

Volatile Organics in Air by SIM

Client	: Inventum Engineering	Lab Number	: L2510462
Project Name	: SOUTH BUFFALO DEVELOPMENT LLC	Project Number	: BUFFALO COLOR-AREA C
Lab ID	: L2510462-08	Date Collected	: 02/25/25 16:00
Client ID	: SS-TESTPORT5-02252025	Date Received	: 02/25/25
Sample Location	: 140 LEE STREET, BUFFALO	Date Analyzed	: 03/14/25 02:40
Sample Matrix	: SOIL_VAPOR	Dilution Factor	: 1
Analytical Method	: 48,TO-15-SIM	Analyst	: TPH
Lab File ID	: R1648698_EV2	Instrument ID	: AIRLAB16
Sample Amount	: 250 ml	GC Column	: RTX-1

CAS NO.	Parameter	ppbV			ug/m3			Qualifier
		Results	RL	MDL	Results	RL	MDL	
120-82-1	1,2,4-Trichlorobenzene	ND	0.050	--	ND	0.371	--	U
91-20-3	Naphthalene	0.103	0.050	--	0.540	0.262	--	



Results Summary

Form 1

Volatile Organics in Air by SIM

Client : Inventum Engineering
 Project Name : SOUTH BUFFALO DEVELOPMENT LLC
 Lab ID : L2510462-09
 Client ID : AA-OUTDOOR-02252025
 Sample Location : 140 LEE STREET, BUFFALO
 Sample Matrix : AIR
 Analytical Method : 48,TO-15-SIM
 Lab File ID : R1648692_EV2
 Sample Amount : 250 ml

Lab Number : L2510462
 Project Number : BUFFALO COLOR-AREA C
 Date Collected : 02/25/25 15:45
 Date Received : 02/25/25
 Date Analyzed : 03/13/25 22:41
 Dilution Factor : 1
 Analyst : TPH
 Instrument ID : AIRLAB16
 GC Column : RTX-1

CAS NO.	Parameter	ppbV			ug/m3			Qualifier
		Results	RL	MDL	Results	RL	MDL	
75-01-4	Vinyl chloride	ND	0.020	--	ND	0.051	--	U
75-35-4	1,1-Dichloroethene	ND	0.020	--	ND	0.079	--	U
156-59-2	cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--	U
71-55-6	1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--	U
56-23-5	Carbon tetrachloride	0.072	0.020	--	0.453	0.126	--	
79-01-6	Trichloroethene	ND	0.020	--	ND	0.107	--	U
127-18-4	Tetrachloroethene	0.114	0.020	--	0.773	0.136	--	



Results Summary

Form 1

Volatile Organics in Air by SIM

Client : Inventum Engineering
 Project Name : SOUTH BUFFALO DEVELOPMENT LLC
 Lab ID : L2510462-10
 Client ID : AA-TESTPORT99-02252025
 Sample Location : 140 LEE STREET, BUFFALO
 Sample Matrix : AIR
 Analytical Method : 48,TO-15-SIM
 Lab File ID : R1648693_EV2
 Sample Amount : 250 ml

Lab Number : L2510462
 Project Number : BUFFALO COLOR-AREA C
 Date Collected : 02/25/25 15:50
 Date Received : 02/25/25
 Date Analyzed : 03/13/25 23:20
 Dilution Factor : 1
 Analyst : TPH
 Instrument ID : AIRLAB16
 GC Column : RTX-1

CAS NO.	Parameter	ppbV			ug/m3			Qualifier
		Results	RL	MDL	Results	RL	MDL	
75-01-4	Vinyl chloride	ND	0.020	--	ND	0.051	--	U
75-35-4	1,1-Dichloroethene	ND	0.020	--	ND	0.079	--	U
156-59-2	cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--	U
71-55-6	1,1,1-Trichloroethane	0.075	0.020	--	0.409	0.109	--	
56-23-5	Carbon tetrachloride	0.066	0.020	--	0.415	0.126	--	
79-01-6	Trichloroethene	ND	0.020	--	ND	0.107	--	U
127-18-4	Tetrachloroethene	18.4	0.020	--	125	0.136	--	
120-82-1	1,2,4-Trichlorobenzene	ND	0.050	--	ND	0.371	--	U
91-20-3	Naphthalene	0.102	0.050	--	0.535	0.262	--	



Results Summary

Form 1

Volatile Organics in Air by SIM

Client	: Inventum Engineering	Lab Number	: L2510462
Project Name	: SOUTH BUFFALO DEVELOPMENT LLC	Project Number	: BUFFALO COLOR-AREA C
Lab ID	: L2510462-11	Date Collected	: 02/25/25 15:51
Client ID	: SS-TESTPORT99-02252025	Date Received	: 02/25/25
Sample Location	: 140 LEE STREET, BUFFALO	Date Analyzed	: 03/14/25 03:21
Sample Matrix	: SOIL_VAPOR	Dilution Factor	: 1
Analytical Method	: 48,TO-15-SIM	Analyst	: TPH
Lab File ID	: R1648699_EV2	Instrument ID	: AIRLAB16
Sample Amount	: 250 ml	GC Column	: RTX-1

CAS NO.	Parameter	ppbV			ug/m3			Qualifier
		Results	RL	MDL	Results	RL	MDL	
120-82-1	1,2,4-Trichlorobenzene	ND	0.050	--	ND	0.371	--	U
91-20-3	Naphthalene	0.075	0.050	--	0.393	0.262	--	



Results Summary

Form 1

Volatile Organics in Air by SIM

Client : Inventum Engineering
 Project Name : SOUTH BUFFALO DEVELOPMENT LLC
 Lab ID : WG2040291-4
 Client ID : WG2040291-4BLANK
 Sample Location :
 Sample Matrix : AIR
 Analytical Method : 48,TO-15-SIM
 Lab File ID : R1648687_EV2
 Sample Amount : 250 ml

Lab Number : L2510462
 Project Number : BUFFALO COLOR-AREA C
 Date Collected : NA
 Date Received : NA
 Date Analyzed : 03/13/25 19:22
 Dilution Factor : 1
 Analyst : TPH
 Instrument ID : AIRLAB16
 GC Column : RTX-1

CAS NO.	Parameter	ppbV			ug/m3			Qualifier
		Results	RL	MDL	Results	RL	MDL	
75-01-4	Vinyl chloride	ND	0.020	--	ND	0.051	--	U
75-35-4	1,1-Dichloroethene	ND	0.020	--	ND	0.079	--	U
156-59-2	cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--	U
71-55-6	1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--	U
56-23-5	Carbon tetrachloride	ND	0.020	--	ND	0.126	--	U
79-01-6	Trichloroethene	ND	0.020	--	ND	0.107	--	U
127-18-4	Tetrachloroethene	ND	0.020	--	ND	0.136	--	U
120-82-1	1,2,4-Trichlorobenzene	ND	0.050	--	ND	0.371	--	U
91-20-3	Naphthalene	ND	0.050	--	ND	0.262	--	U



Results Summary

Form 1

Volatile Organics in Air by SIM

Client : Inventum Engineering
 Project Name : SOUTH BUFFALO DEVELOPMENT LLC
 Lab ID : WG2040291-5
 Client ID : AA-TESTPORT99-02252025DUP
 Sample Location :
 Sample Matrix : AIR
 Analytical Method : 48,TO-15-SIM
 Lab File ID : R1648694_EV2
 Sample Amount : 250 ml

Lab Number : L2510462
 Project Number : BUFFALO COLOR-AREA C
 Date Collected : 02/25/25 15:50
 Date Received : 02/25/25
 Date Analyzed : 03/14/25 00:00
 Dilution Factor : 1
 Analyst : TPH
 Instrument ID : AIRLAB16
 GC Column : RTX-1

CAS NO.	Parameter	ppbV			ug/m3			Qualifier
		Results	RL	MDL	Results	RL	MDL	
75-01-4	Vinyl chloride	ND	0.020	--	ND	0.051	--	U
75-35-4	1,1-Dichloroethene	ND	0.020	--	ND	0.079	--	U
156-59-2	cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--	U
71-55-6	1,1,1-Trichloroethane	0.076	0.020	--	0.415	0.109	--	
56-23-5	Carbon tetrachloride	0.070	0.020	--	0.440	0.126	--	
79-01-6	Trichloroethene	ND	0.020	--	ND	0.107	--	U
127-18-4	Tetrachloroethene	18.5	0.020	--	125	0.136	--	
120-82-1	1,2,4-Trichlorobenzene	ND	0.050	--	ND	0.371	--	U
91-20-3	Naphthalene	0.103	0.050	--	0.540	0.262	--	



Results Summary

Form 1

Volatile Organics in Air by SIM

Client : Inventum Engineering
 Project Name : SOUTH BUFFALO DEVELOPMENT LLC
 Lab ID : WG2042685-4
 Client ID : WG2042685-4BLANK
 Sample Location :
 Sample Matrix : AIR
 Analytical Method : 48,TO-15-SIM
 Lab File ID : R1553909_EV2
 Sample Amount : 250 ml

Lab Number : L2510462
 Project Number : BUFFALO COLOR-AREA C
 Date Collected : NA
 Date Received : NA
 Date Analyzed : 03/19/25 18:38
 Dilution Factor : 1
 Analyst : KJD
 Instrument ID : AIRLAB15
 GC Column : RTX-1

CAS NO.	Parameter	ppbV			ug/m3			Qualifier
		Results	RL	MDL	Results	RL	MDL	
75-01-4	Vinyl chloride	ND	0.020	--	ND	0.051	--	U
75-35-4	1,1-Dichloroethene	ND	0.020	--	ND	0.079	--	U
156-59-2	cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--	U
71-55-6	1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--	U
56-23-5	Carbon tetrachloride	ND	0.020	--	ND	0.126	--	U
79-01-6	Trichloroethene	ND	0.020	--	ND	0.107	--	U
127-18-4	Tetrachloroethene	ND	0.020	--	ND	0.136	--	U



Project Name: SOUTH BUFFALO DEVELOPMENT LLC**Lab Number:** L2510462**Project Number:** BUFFALO COLOR-AREA C**Report Date:** 06/05/25**SAMPLE RESULTS**

Lab ID: L2510462-02
 Client ID: SS-TESTPORT2-02252025
 Sample Location: 140 LEE STREET, BUFFALO

Date Collected: 02/25/25 15:43
 Date Received: 02/25/25
 Field Prep: Not Specified

Sample Depth:
 Matrix: Soil_Vapor
 Analytical Method: 48,TO-15
 Analytical Date: 03/14/25 00:41
 Analyst: TPH

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Air Lab								
Dichlorodifluoromethane	0.480	0.200	--	2.37	0.989	--		1
Chloromethane	0.424	0.200	--	0.876	0.413	--		1
Freon-114	ND	0.200	--	ND	1.40	--		1
Vinyl chloride	ND	0.200	--	ND	0.511	--		1
1,3-Butadiene	0.232	0.200	--	0.513	0.442	--		1
Bromomethane	ND	0.200	--	ND	0.777	--		1
Chloroethane	ND	0.200	--	ND	0.528	--		1
Ethanol	426	5.00	--	803	9.42	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acetone	24.6	1.00	--	58.4	2.38	--		1
Trichlorofluoromethane	0.218	0.200	--	1.23	1.12	--		1
Isopropanol	3.42	1.00	--	8.41	2.46	--		1
1,1-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Tertiary butyl Alcohol	0.659	0.500	--	2.00	1.52	--		1
Methylene chloride	3.02	0.500	--	10.5	1.74	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	ND	0.200	--	ND	0.623	--		1
Freon-113	ND	0.200	--	ND	1.53	--		1
trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
1,1-Dichloroethane	ND	0.200	--	ND	0.809	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
2-Butanone	4.00	0.500	--	11.8	1.47	--		1
cis-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1



Project Name: SOUTH BUFFALO DEVELOPMENT LLC**Lab Number:** L2510462**Project Number:** BUFFALO COLOR-AREA C**Report Date:** 06/05/25**SAMPLE RESULTS**

Lab ID: L2510462-02

Date Collected: 02/25/25 15:43

Client ID: SS-TESTPORT2-02252025

Date Received: 02/25/25

Sample Location: 140 LEE STREET, BUFFALO

Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Air Lab								
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1
Chloroform	ND	0.200	--	ND	0.977	--		1
Tetrahydrofuran	2.66	0.500	--	7.85	1.47	--		1
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1
n-Hexane	0.930	0.200	--	3.28	0.705	--		1
1,1,1-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Benzene	0.651	0.200	--	2.08	0.639	--		1
Carbon tetrachloride	ND	0.200	--	ND	1.26	--		1
Cyclohexane	0.573	0.200	--	1.97	0.688	--		1
1,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
Bromodichloromethane	ND	0.200	--	ND	1.34	--		1
1,4-Dioxane	ND	0.200	--	ND	0.721	--		1
Trichloroethene	ND	0.200	--	ND	1.07	--		1
2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--		1
Heptane	0.620	0.200	--	2.54	0.820	--		1
cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Toluene	0.482	0.200	--	1.82	0.754	--		1
2-Hexanone	1.01	0.200	--	4.14	0.820	--		1
Dibromochloromethane	ND	0.200	--	ND	1.70	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1
Tetrachloroethene	12.4	0.200	--	84.1	1.36	--		1
Chlorobenzene	ND	0.200	--	ND	0.921	--		1
Ethylbenzene	1.07	0.200	--	4.65	0.869	--		1



Project Name: SOUTH BUFFALO DEVELOPMENT LLC**Lab Number:** L2510462**Project Number:** BUFFALO COLOR-AREA C**Report Date:** 06/05/25**SAMPLE RESULTS**

Lab ID: L2510462-02

Date Collected: 02/25/25 15:43

Client ID: SS-TESTPORT2-02252025

Date Received: 02/25/25

Sample Location: 140 LEE STREET, BUFFALO

Field Prep: Not Specified

Sample Depth:

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air - Mansfield Air Lab								
p/m-Xylene	2.62	0.400	--	11.4	1.74	--		1
Bromoform	ND	0.200	--	ND	2.07	--		1
Styrene	ND	0.200	--	ND	0.852	--		1
1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
o-Xylene	0.544	0.200	--	2.36	0.869	--		1
4-Ethyltoluene	ND	0.200	--	ND	0.983	--		1
1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
1,2,4-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Naphthalene	ND	0.190	--	ND	0.996	--		1
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	83		60-140
Bromochloromethane	88		60-140
chlorobenzene-d5	78		60-140



Project Name: SOUTH BUFFALO DEVELOPMENT LLC**Lab Number:** L2510462**Project Number:** BUFFALO COLOR-AREA C**Report Date:** 06/05/25**SAMPLE RESULTS**

Lab ID: L2510462-02
 Client ID: SS-TESTPORT2-02252025
 Sample Location: 140 LEE STREET, BUFFALO

Date Collected: 02/25/25 15:43
 Date Received: 02/25/25
 Field Prep: Not Specified

Sample Depth:

Matrix: Soil_Vapor
 Analytical Method: 48,TO-15-SIM
 Analytical Date: 03/14/25 00:41
 Analyst: TPH

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM - Mansfield Air Lab								
1,2,4-Trichlorobenzene	ND	0.050	--	ND	0.371	--		1
Naphthalene	0.115	0.050	--	0.603	0.262	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-difluorobenzene	91		60-140
bromochloromethane	91		60-140
chlorobenzene-d5	85		60-140



Attachment F – Safety Data Sheets



Safety Data Sheet



1. Identification

Name on Label: High Performance Flat Gray Primer

Product Name: ROHPER +LSPR 6PK FLAT GRAY PRIMER **Revision Date:** 3/27/2025

Product Identifier: V2182838 **Supersedes Date:** 11/3/2023

Recommended Use: Primer/Aerosols

Supplier: Rust-Oleum Corporation
11 Hawthorn Parkway
Vernon Hills, IL 60061
USA

Manufacturer: Rust-Oleum Corporation
11 Hawthorn Parkway
Vernon Hills, IL 60061
USA

Rust-Oleum Canada (ROCA)
200 Confederation Parkway
Concord, ON L4K 4T8
Canada
Emergency Phone: 800-387-3625

Preparer: Regulatory Department

Emergency Telephone: 24 Hour Hotline: 847-367-7700

2. Hazard Identification

Classification

Symbol(s) of Product



Signal Word

Danger

Possible Hazards

36% of the mixture consists of ingredient(s) of unknown acute toxicity.

GHS Hazard Statements

Aerosol, category 1	H222	Extremely flammable aerosol.
	H229	Pressurized container: may burst if heated.
Skin Sensitizer, category 1	H317	May cause an allergic skin reaction.
Eye Irritation, category 2A	H319	Causes serious eye irritation.
STOT, Single Exposure, category 3, NE	H336	May cause drowsiness or dizziness.
Carcinogenicity, category 2	H351	Suspected of causing cancer.

GHS Label Precautionary Statements

P201	Obtain special instructions before use.
P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P211	Do not spray on an open flame or other ignition source.
P251	Do not pierce or burn, even after use.

Rust-Oleum High Performance Flat Gray Primer Large Spray

P261	Avoid breathing dust, fumes, gas, mists, vapours, or spray.
P264	Wash thoroughly after handling.
P271	Use only outdoors or in a well-ventilated area.
P272	Contaminated work clothing should not be allowed out of the workplace.
P280	Wear protective gloves, protective clothing, eye protection, and face protection.
P302+P352	IF ON SKIN: Wash with plenty of soap and water.
P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P308+P313	IF exposed or concerned: Get medical advice.
P312	Call a POISON CENTER or physician if you feel unwell.
P321	Specific treatment (see notice on this label).
P333+P313	If skin irritation or rash occurs: Get medical advice.
P337+P317	If eye irritation persists: Get medical help.
P403+P233	Store in a well-ventilated place. Keep container tightly closed.
P405	Store locked up.
P410+P412	Protect from sunlight. Do not expose to temperatures exceeding 50°C / 122°F.
P501	Dispose of contents and container in accordance with local, regional and national regulations.

GHS SDS Precautionary Statements

P363 Wash contaminated clothing before reuse.

3. Composition / Information on Ingredients

HAZARDOUS SUBSTANCES

<u>Chemical Name</u>	<u>CAS-No.</u>	<u>Wt. % Range</u>	<u>GHS Symbols</u>	<u>GHS Statements</u>
Propane	74-98-6	10-30	GHS04	H280
n-Butyl Acetate	123-86-4	10-30	GHS02-GHS07	H226-336
Acetone	67-64-1	7.0-13	GHS02-GHS07	H225-319-332-336
Dimethyl Carbonate	616-38-6	5.0-10	GHS02-GHS06	H225-331
Hydrous Magnesium Silicate	14807-96-6	5.0-10	Not Available	Not Available
Titanium Dioxide	13463-67-7	5.0-10	Not Available	Not Available
n-Butane	106-97-8	3.0-7.0	GHS04	H280
Hydrotreated Light Distillate	64742-47-8	1.0-5.0	GHS08	H304
Solvent Naphtha, Light Aromatic	64742-95-6	1.0-5.0	GHS07-GHS08	H304-332
1,2,4-Trimethylbenzene	95-63-6	0.5-1.5	GHS02-GHS07	H226-315-319-332-335
Zinc Phosphate	7779-90-0	0.5-1.5	Not Available	Not Available
Xylenes (o-, m-, p- Isomers)	1330-20-7	0.1-1.0	GHS02-GHS07	H226-315-319-332
Zinc Oxide	1314-13-2	0.1-1.0	Not Available	Not Available
Methyl Ethyl Ketoxime	96-29-7	0.1-1.0	GHS05-GHS06- GHS07-GHS08	H302+H312-315-317-318-331-3 36-370-373
Ethylbenzene	100-41-4	0.1-1.0	GHS02-GHS07- GHS08	H225-304-332-351-373

Actual concentrations of ingredients are withheld as trade secret.

4. First Aid Measures

First Aid - Eye Contact: Immediately flush eyes with plenty of water for at least 15 minutes holding eyelids open. Get medical attention. Do NOT allow rubbing of eyes or keeping eyes closed. Remove contact lenses, if present and easy to do. Continue rinsing.

First Aid - Skin Contact: Wash skin with soap and water. Remove contaminated clothing. Get medical attention if irritation develops or persists. Wash contaminated clothing and decontaminate footwear before reuse.

First Aid - Inhalation: Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get immediate medical attention. Do NOT use mouth-to-mouth resuscitation. If you experience difficulty in breathing, leave the area to obtain fresh air. If continued difficulty is experienced, get medical assistance immediately.

First Aid - Ingestion: If swallowed, do not induce vomiting. If victim is conscious and alert, give 2 to 4 cupfuls of water or milk. Call a physician or poison control center immediately. Never give anything by mouth to an unconscious person. Treat symptomatically and supportively.

5. Fire-Fighting Measures

EXTINGUISHING MEDIA: Aqueous Film Forming Foam, Carbon Dioxide, Dry Chemical, Dry Sand, Water Fog

Unusual Fire and Explosion Hazards: FLASH POINT IS LESS THAN -7°C (20°F). EXTREMELY FLAMMABLE LIQUID AND VAPOR! Water spray may be ineffective. Closed containers may explode when exposed to extreme heat. Vapors may form explosive mixtures with air. Vapors can travel to a source of ignition and flash back. Isolate from heat, electrical equipment, sparks and open flame. Perforation of the pressurized container may cause bursting of the can.

Special Fire Fighting Procedures: Water may be used to cool closed containers to prevent buildup of steam. If water is used, fog nozzles are preferred. Evacuate area and fight fire from a safe distance. Use water spray to keep fire-exposed containers cool. Containers may explode when heated.

Special Fire and Explosion Hazard (Combustible Dust): Not a combustible dust.

6. Accidental Release Measures

Steps to Be Taken If Material Is Released or Spilled: If spilled, contain spilled material and remove with inert absorbent. Dispose of contaminated absorbent, container, and unused contents in accordance with local, state, and federal regulations. Do not incinerate closed containers. Remove all sources of ignition, ventilate area and remove with inert absorbent and non-sparking tools. Dispose of according to local, state (provincial) and federal regulations. Do not incinerate closed containers.

7. Handling and Storage

Handling: Wash thoroughly after handling. Wash hands before eating. Remove contaminated clothing and launder before reuse. Use only with adequate ventilation. Follow all SDS and label precautions even after container is emptied because it may retain product residues. Avoid breathing fumes, vapors, or mist. Avoid prolonged or repeated contact with skin. Do not get in eyes, on skin or clothing. Do not puncture or incinerate (burn) container, even after use.

Storage: Contents under pressure. Do not store above 120°F (49°C). Store large quantities in buildings designed and protected for storage of flammable aerosols. Keep away from heat, sparks, flame and sources of ignition.

Advice on Safe Handling of Combustible Dust: No Information

8. Exposure Controls / Personal Protection

Chemical Name	CAS-No.	Weight % Less Than	ACGIH TLV- TWA	ACGIH TLV- STEL	OSHA PEL-TWA	OSHA PEL- CEILING
Propane	74-98-6	15.0	N.E.	N.E.	1000 ppm	N.E.
n-Butyl Acetate	123-86-4	15.0	50 ppm	150 ppm	150 ppm	N.E.
Acetone	67-64-1	15.0	250 ppm	500 ppm	1000 ppm	N.E.
Dimethyl Carbonate	616-38-6	10.0	N.E.	N.E.	N.E.	N.E.
Hydrous Magnesium Silicate	14807-96-6	10.0	2 mg/m3	N.E.	20 mppcf	N.E.
Titanium Dioxide	13463-67-7	10.0	0.2 mg/m3	N.E.	15 mg/m3	N.E.
n-Butane	106-97-8	10.0	N.E.	1000 ppm	N.E.	N.E.
Hydrotreated Light Distillate	64742-47-8	5.0	N.E.	N.E.	N.E.	N.E.
Solvent Naphtha, Light Aromatic	64742-95-6	5.0	N.E.	N.E.	N.E.	N.E.
1,2,4-Trimethylbenzene	95-63-6	5.0	10 ppm	N.E.	N.E.	N.E.
Zinc Phosphate	7779-90-0	5.0	N.E.	N.E.	N.E.	N.E.
Xylenes (o-, m-, p- Isomers)	1330-20-7	1.0	20 ppm	N.E.	100 ppm	N.E.
Zinc Oxide	1314-13-2	1.0	2 mg/m3	10 mg/m3	5 mg/m3	N.E.
Methyl Ethyl Ketoxime	96-29-7	1.0	10 ppm	N.E.	N.E.	N.E.
Ethylbenzene	100-41-4	1.0	20 ppm	N.E.	100 ppm	N.E.

Rust-Oleum High Performance Flat Gray Primer Large Spray

PERSONAL PROTECTION

Engineering Controls: Use process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below recommended exposure limits. Use explosion-proof ventilation equipment. Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower. Prevent build-up of vapors by opening all doors and windows to achieve cross-ventilation.

Respiratory Protection: A respiratory protection program that meets OSHA 1910.134 and ANSI Z88.2 (U.S.) and/or SOR/86-304 Part XII 12.13 and CSA Standard Z180.1 (Canada) requirements must be followed whenever workplace conditions warrant a respirator's use. A NIOSH/MSHA approved air purifying respirator with organic vapor cartridge or canister may be permissible under certain circumstances where airborne concentrations are expected to exceed exposure limits.

Skin Protection: Use impervious gloves to prevent skin contact and absorption of this material through the skin.

Eye Protection: Use safety eyewear designed to protect against splash of liquids.

Other Protective Equipment: Refer to safety supervisor or industrial hygienist for further guidance regarding types of personal protective equipment and their applications.

Hygienic Practices: Wash thoroughly with soap and water before eating, drinking or smoking. Remove contaminated clothing immediately and launder before reuse.

Engineering Measures for Combustible Dust: No Information

9. Physical and Chemical Properties

Physical State	Liquid	Decomposition Temperature, °C	N.D.
Color	Gray	pH	N.A.
Odor	Solvent Like	Kinematic Viscosity	N.D.
Odor Threshold	N.E.	Solubility in Water	Slight
Freezing Point / Melting Point, °C	N.D.	Partition Coefficient, n-octanol/water	N.D.
Boiling Range, °C	-37 - 537	Vapor Pressure	N.D.
Flammability	Supports Combustion	Evaporation Rate	Faster than Ether
Lower Explosion Limit, vol%	0.9	Specific Gravity	0.909
Upper Explosion Limit, vol%	13.0	Vapor Density	Heavier than Air
Flash Point, °C	-96	Particle Characteristics	N.A.
Auto-Ignition Temperature, °C	N.D.		

(See "Other information" Section for abbreviation legend)

10. Stability and Reactivity

Conditions to Avoid: Avoid temperatures above 120°F (49°C). Avoid all possible sources of ignition. Avoid excess heat.

Incompatibility: Incompatible with strong oxidizing agents, strong acids and strong alkalies.

Hazardous Decomposition: When heated to decomposition, it emits acrid smoke and irritating fumes. Contains solvents which may form carbon monoxide, carbon dioxide, and formaldehyde.

Hazardous Polymerization: Will not occur under normal conditions.

Stability: This product is stable under normal storage conditions.

11. Toxicological Information

Effects of Overexposure - Eye Contact: Can cause severe eye irritation. Causes eye and skin irritation which may lead to dermatitis with repeated exposures. Irritating, and may injure eye tissue if not removed promptly.

Effects of Overexposure - Skin Contact: Prolonged or repeated skin contact may cause irritation. Causes skin irritation. Allergic reactions are possible. May cause skin sensitization, an allergic reaction, which becomes evident upon re-exposure to this material. Frequent or prolonged contact may irritate the skin and cause a skin rash (dermatitis). Low hazard for usual industrial handling or commercial handling by trained personnel.

Effects of Overexposure - Inhalation: High gas, vapor, mist or dust concentrations may be harmful if inhaled. Avoid breathing fumes, spray, vapors, or mist. Constituents of this product include crystalline silica dust which, if inhalable, may cause silicosis, a form of

progressive pulmonary fibrosis. Inhalable crystalline silica is listed by IARC as a group I carcinogen (lung) based on sufficient evidence in occupationally exposed humans and sufficient evidence in animals. Crystalline silica is also listed by the NTP as a known human carcinogen. Constituents may also contain asbestiform or non-asbestiform tremolite or other silicates as impurities, and above de minimus exposure to these impurities in inhalable form may be carcinogenic or cause other serious lung problems.

Effects of Overexposure - Ingestion: Substance may be harmful if swallowed.

Effects of Overexposure - Chronic Hazards: High concentrations may lead to central nervous system effects (drowsiness, dizziness, nausea, headaches, paralysis, and blurred vision) and/or damage. Reports have associated repeated and prolonged occupational overexposure to solvents with permanent brain and nervous system damage. Overexposure to xylene in laboratory animals has been associated with liver abnormalities, kidney, lung, spleen, eye and blood damage as well as reproductive disorders. Effects in humans, due to chronic overexposure, have included liver, cardiac abnormalities and nervous system damage. IARC lists Ethylbenzene as a possible human carcinogen (group 2B). Contains Titanium Dioxide. Titanium Dioxide is listed as a Group 2B-"Possibly carcinogenic to humans" by IARC. No significant exposure to Titanium Dioxide is thought to occur during the use of products in which Titanium Dioxide is bound to other materials, such as in paints during brush application or drying. Risk of overexposure depends on duration and level of exposure to dust from repeated sanding of surfaces or spray mist and the actual concentration of Titanium Dioxide in the formula. (Ref: IARC Monograph, Vol. 93, 2010) Prolonged or repeated skin contact may cause dermatitis.

PRIMARY ROUTE(S) OF ENTRY: Eye Contact, Ingestion, Inhalation, Skin Absorption, Skin Contact

ACUTE TOXICITY VALUES

The acute effects of this product have not been tested. Data on individual components are tabulated below:

CAS-No.	Chemical Name	Oral LD50	Dermal LD50	Vapor LC50
123-86-4	n-Butyl Acetate	10768 mg/kg Rat	>17600 mg/kg Rabbit	> 21 mg/L Rat
67-64-1	Acetone	5800 mg/kg Rat	>15700 mg/kg Rabbit	50.1 mg/L Rat
616-38-6	Dimethyl Carbonate	13000 mg/kg Rat	5000 mg/kg Rabbit	>5.36 mg/L Rat
14807-96-6	Hydrous Magnesium Silicate	6000	>2000 mg/kg Rabbit	30
13463-67-7	Titanium Dioxide	>2000 mg/kg Rat	6000	N.E.
106-97-8	n-Butane	N.E.	N.E.	658 mg/L Rat
64742-47-8	Hydrotreated Light Distillate	>5000 mg/kg Rat	>2000 mg/kg Rabbit	>5000 mg/L Rat
64742-95-6	Solvent Naphtha, Light Aromatic	8400 mg/kg Rat	>2000 mg/kg Rabbit	N.E.
95-63-6	1,2,4-Trimethylbenzene	3280 mg/kg Rat	>3440 mg/kg Rat	18 mg/L Rat
7779-90-0	Zinc Phosphate	>5000 mg/kg Rat	N.E.	N.E.
1330-20-7	Xylenes (o-, m-, p- Isomers)	3500 mg/kg Rat	>4350 mg/kg Rabbit	29.08 mg/L Rat
1314-13-2	Zinc Oxide	>5000 mg/kg Rat	>2000 mg/kg Rat	N.E.
96-29-7	Methyl Ethyl Ketoxime	930 mg/kg Rat	1100 mg/kg Rabbit	>4.83 mg/L Rat
100-41-4	Ethylbenzene	3500 mg/kg Rat	15400 mg/kg Rabbit	17.4 mg/L Rat

N.E. - Not Established

12. Ecological Information

Ecological Information: No ecotoxicity data was found for this product.

13. Disposal Considerations

Disposal: Do not incinerate closed containers. Dispose of material in accordance to local, state, and federal regulations and ordinances. This product as supplied is a US EPA defined ignitable hazardous waste. Dispose of unusable product as a hazardous waste (D001) in accordance with local, state, and federal regulation.

14. Transport Information

	Domestic (USDOT)	International (IMDG)	Air (IATA)	TDG (Canada)
UN Number:	N.A.	1950	1950	1950
Proper Shipping Name:	Paint and Related Spray Products in Ltd Qty	Aerosols	Aerosols, flammable	AEROSOLS, flammable
Hazard Class:	N.A.	2	2.1	2.1
Packing Group:	N.A.	N.A.	N.A.	N.A.
Limited Quantity:	Yes	Yes	Yes	Yes

15. Regulatory Information

U.S. Federal Regulations:

CERCLA - SARA Hazard Category

This product has been reviewed according to the EPA 'Hazard Categories' promulgated under Sections 311 and 312 of the Superfund Amendment and Reauthorization Act of 1986 (SARA Title III) and is considered, under applicable definitions, to meet the following categories:

Carcinogenicity, Respiratory or Skin Sensitization, Serious eye damage or eye irritation, Specific target organ toxicity (single or repeated exposure)

SARA Section 313

This product contains the following substances subject to the reporting requirements of Section 313 of Title III of the Superfund Amendment and Reauthorization Act of 1986 and 40 CFR part 372:

<u>Chemical Name</u>	<u>CAS-No.</u>
1,2,4-Trimethylbenzene	95-63-6
Zinc Phosphate	7779-90-0
Xylenes (o-, m-, p- Isomers)	1330-20-7
Zinc Oxide	1314-13-2
Ethylbenzene	100-41-4
Copper phthalocyaninesulfonic acid, dioctadecyldimethylammonium salt	70750-63-9

Toxic Substances Control Act

This product contains the following chemical substances subject to the reporting requirements of TSCA 12(b) if exported from the United States:

No TSCA 12(b) components exist in this product.

U.S. State Regulations:

California Proposition 65

WARNING:

Cancer and Reproductive Harm - www.P65Warnings.ca.gov.

16. Other Information**HMIS RATINGS**

Health: 2* **Flammability:** 4 **Physical Hazard:** 0 **Personal Protection:** X

NFPA RATINGS

Health: 2 **Flammability:** 4 **Instability:** 0

Maximum Incremental Reactivity: 0.67

SDS REVISION DATE: 3/27/2025

REASON FOR REVISION: Revision Description Changed
Product Composition Changed
Substance and/or Product Properties Changed in
Section(s):
01 - Identification
02 - Hazard Identification
03 - Composition / Information on Ingredients
08 - Exposure Controls / Personal Protection
09 - Physical & Chemical Properties
11 - Toxicological Information
14 - Transport Information
15 - Regulatory Information
Substance CAS Number Changed
Substance Hazardous Flag Changed
Substance Hazard Threshold % Changed
Revision Statement(s) Changed

Legend: N.A. - Not Applicable, N.D. - Not Determined, N.E. - Not Established

The manufacturer believes, to the best of its knowledge, information and belief, the information contained herein to be accurate and reliable as of the date of this safety data sheet. However, because the conditions of handling, use, and storage of these materials are beyond our control, we assume no responsibility or liability for personal injury or property damage incurred by the use of these materials. The manufacturer makes no warranty, expressed or implied, regarding the accuracy or reliability of the data or results obtained from their use. All materials may present unknown hazards and should be used with caution. The information and recommendations in this material safety data sheet are offered for the users' consideration and examination. It is the responsibility of the user to determine the final suitability of this information and to comply with all applicable international, federal, state, and local laws and regulations.

SAFETY DATA SHEET

530-K22

Section 1. Identification

Product name : Lacquer Thinner K22
530-8556 530-8564 530-8572

Product code : 530-K22

Other means of identification : Not available.

Product type : Liquid.

Relevant identified uses of the substance or mixture and uses advised against

Paint or paint related material.

Manufacturer : THE SHERWIN-WILLIAMS COMPANY
101 W. Prospect Avenue
Cleveland, OH 44115

Emergency telephone number of the company : US / Canada: (800) 424-9300
Mexico: SETIQ 800-00-214-00 / 55-5559-1588 Available 24 hours and 365 days a year

Product Information Telephone Number : US / Canada: 1-800-474-3794
Mexico: Not Available

Transportation Emergency Telephone Number : US / Canada: (800) 424-9300
Mexico: SETIQ 800-00-214-00 / 55-5559-1588 Available 24 hours and 365 days a year

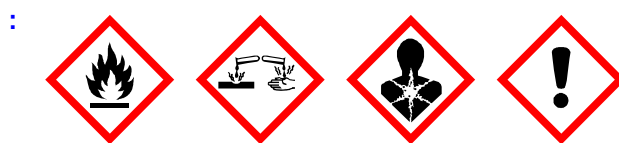
Section 2. Hazards identification

OSHA/HCS status : This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

Classification of the substance or mixture : FLAMMABLE LIQUIDS - Category 2
SKIN CORROSION/IRRITATION - Category 2
SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 1
CARCINOGENICITY - Category 2
TOXIC TO REPRODUCTION - Category 1B
SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3
SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 2
ASPIRATION HAZARD - Category 1
Percentage of the mixture consisting of ingredient(s) of unknown acute toxicity: 32.2% (oral), 51% (dermal), 42% (inhalation)

GHS label elements

Hazard pictograms



Signal word : Danger

Date of issue/Date of revision : 5/3/2025

Date of previous issue : 12/14/2024

Version : 21

1/27

530-K22
Lacquer Thinner K22
530-8556 530-8564 530-8572

SHW-85-NA-GHS-US

Section 2. Hazards identification

Hazard statements : Highly flammable liquid and vapor.
May be fatal if swallowed and enters airways.
Causes skin irritation.
Causes serious eye damage.
May cause drowsiness or dizziness.
Suspected of causing cancer.
May damage fertility or the unborn child.
May cause damage to organs through prolonged or repeated exposure.

Precautionary statements

Prevention : Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wear protective gloves, protective clothing, eye protection, face protection, or hearing protection. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Use only outdoors or in a well-ventilated area. Do not breathe vapor. Wash thoroughly after handling.

Response : IF exposed or concerned: Get medical advice or attention. IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or doctor if you feel unwell. IF SWALLOWED: Immediately call a POISON CENTER or doctor. Do NOT induce vomiting. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water. If skin irritation occurs: Get medical advice or attention. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor.

Storage : Store locked up. Store in a well-ventilated place. Keep container tightly closed.

Disposal : Dispose of contents and container in accordance with all local, regional, national and international regulations.

Supplemental label elements DELAYED EFFECTS FROM LONG TERM OVEREXPOSURE. Contains solvents which can cause permanent brain and nervous system damage. Intentional misuse by deliberately concentrating and inhaling the contents can be harmful or fatal. WARNING: This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm. FOR INDUSTRIAL USE ONLY.
Please refer to the SDS for additional information. Keep out of reach of children. Do not transfer contents to other containers for storage.

Hazards not otherwise classified : None known.

Section 3. Composition/information on ingredients

Substance/mixture : Mixture

Other means of identification : Not available.

CAS number/other identifiers

Ingredient name	% by weight	Identifiers
Lt. Aliphatic Hydrocarbon Solvent	≥25 - ≤50	64742-89-8
Toluene	≥10 - ≤25	108-88-3
Methyl Ethyl Ketone	≥10 - ≤20	78-93-3
Isobutyl Acetate	≤10	110-19-0
2-Propanol	≤10	67-63-0
2-Methyl-1-propanol	≤10	78-83-1
Xylene, mixed isomers	≤8.1	1330-20-7
2-Butoxyethanol	≤5	111-76-2
Methyl n-Amyl Ketone	≤5	110-43-0
Ethylbenzene	≤1.4	100-41-4

Any concentration shown as a range is to protect confidentiality or is due to batch variation.

Section 3. Composition/information on ingredients

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified and hence require reporting in this section.

Occupational exposure limits, if available, are listed in Section 8.

Section 4. First aid measures

Description of necessary first aid measures

- Eye contact** : Get medical attention immediately. Call a poison center or physician. Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Chemical burns must be treated promptly by a physician.
- Inhalation** : Get medical attention immediately. Call a poison center or physician. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.
- Skin contact** : Get medical attention immediately. Call a poison center or physician. Wash contaminated skin with soap and water. Remove contaminated clothing and shoes. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 10 minutes. Chemical burns must be treated promptly by a physician. Wash clothing before reuse. Clean shoes thoroughly before reuse.
- Ingestion** : Get medical attention immediately. Call a poison center or physician. Wash out mouth with water. Remove dentures if any. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Aspiration hazard if swallowed. Can enter lungs and cause damage. Do not induce vomiting. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Chemical burns must be treated promptly by a physician. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

Most important symptoms/effects, acute and delayed

Potential acute health effects

- Eye contact** : Causes serious eye damage.
- Inhalation** : Can cause central nervous system (CNS) depression. May cause drowsiness or dizziness.
- Skin contact** : Causes skin irritation.
- Ingestion** : Can cause central nervous system (CNS) depression. May be fatal if swallowed and enters airways.

Over-exposure signs/symptoms

- Eye contact** : Adverse symptoms may include the following:
pain
watering
redness
- Inhalation** : Adverse symptoms may include the following:
nausea or vomiting
headache
drowsiness/fatigue
dizziness/vertigo
unconsciousness
reduced fetal weight

Section 4. First aid measures

- increase in fetal deaths
skeletal malformations
- Skin contact** : Adverse symptoms may include the following:
pain or irritation
redness
blistering may occur
reduced fetal weight
increase in fetal deaths
skeletal malformations
- Ingestion** : Adverse symptoms may include the following:
stomach pains
nausea or vomiting
reduced fetal weight
increase in fetal deaths
skeletal malformations

Indication of immediate medical attention and special treatment needed, if necessary

- Notes to physician** : Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
- Specific treatments** : No specific treatment.
- Protection of first-aiders** : No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.

See toxicological information (Section 11)

Section 5. Fire-fighting measures

Extinguishing media

- Suitable extinguishing media** : Use dry chemical, CO₂, water spray (fog) or foam.
- Unsuitable extinguishing media** : Do not use water jet.

- Specific hazards arising from the chemical** : Highly flammable liquid and vapor. Runoff to sewer may create fire or explosion hazard. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. The vapor/gas is heavier than air and will spread along the ground. Vapors may accumulate in low or confined areas or travel a considerable distance to a source of ignition and flash back.

- Hazardous thermal decomposition products** : Decomposition products may include the following materials:
carbon dioxide
carbon monoxide

- Special protective actions for fire-fighters** : Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.

- Special protective equipment for fire-fighters** : Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

- Remark** : Flammable liquid.

Section 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

- For non-emergency personnel** : No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Do not breathe vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.
- For emergency responders** : If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
- Environmental precautions** : Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

Methods and materials for containment and cleaning up

- Small spill** : Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Absorb with an inert material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor. 
- Large spill** : Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations. 

Section 7. Handling and storage

Precautions for safe handling

- Protective measures** : Put on appropriate personal protective equipment (see Section 8). Avoid exposure - obtain special instructions before use. Avoid exposure during pregnancy. Do not handle until all safety precautions have been read and understood. Do not get in eyes or on skin or clothing. Do not breathe vapor or mist. Do not swallow. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Do not enter storage areas and confined spaces unless adequately ventilated. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Store and use away from heat, sparks, open flame or any other ignition source. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Use only non-sparking tools. Take precautionary measures against electrostatic discharges. Empty containers retain product residue and can be hazardous. Do not reuse container.
- Advice on general occupational hygiene** : Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

Section 7. Handling and storage

Conditions for safe storage, including any incompatibilities : Store in accordance with local regulations. Store in a segregated and approved area. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Store locked up. Eliminate all ignition sources. Separate from oxidizing materials. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

Section 8. Exposure controls/personal protection

Control parameters

Occupational exposure limits (OSHA United States)

Ingredient name	CAS #	Exposure limits
Lt. Aliphatic Hydrocarbon Solvent	64742-89-8	ACGIH TLV (United States, 1/2024) [branched hexane isomers] A3. TWA 8 hours: 200 ppm. ACGIH TLV (United States, 1/2024) [hexane] A3. Absorbed through skin. TWA 8 hours: 100 ppm. NIOSH REL (United States, 10/2020) [HEXANE ISOMERS] TWA 10 hours: 100 ppm. TWA 10 hours: 350 mg/m ³ . CEIL 15 minutes: 510 ppm. CEIL 15 minutes: 1800 mg/m ³ .
Toluene	108-88-3	ACGIH TLV (United States, 1/2024) A4. Ototoxicant. TWA 8 hours: 20 ppm. OSHA PEL Z2 (United States, 2/2013) TWA 8 hours: 200 ppm. CEIL: 300 ppm. AMP 10 minutes: 500 ppm. NIOSH REL (United States, 10/2020) TWA 10 hours: 100 ppm. TWA 10 hours: 375 mg/m ³ . STEL 15 minutes: 150 ppm. STEL 15 minutes: 560 mg/m ³ .
Methyl Ethyl Ketone	78-93-3	ACGIH TLV (United States, 1/2024) Absorbed through skin. TWA 8 hours: 75 ppm. STEL 15 minutes: 150 ppm. NIOSH REL (United States, 10/2020) TWA 10 hours: 200 ppm. TWA 10 hours: 590 mg/m ³ . STEL 15 minutes: 300 ppm. STEL 15 minutes: 885 mg/m ³ . OSHA PEL (United States, 5/2018) TWA 8 hours: 200 ppm. TWA 8 hours: 590 mg/m ³ .
Isobutyl Acetate	110-19-0	ACGIH TLV (United States, 1/2024) [Butyl acetates] STEL 15 minutes: 150 ppm. TWA 8 hours: 50 ppm. NIOSH REL (United States, 10/2020) TWA 10 hours: 150 ppm.

Section 8. Exposure controls/personal protection

2-Propanol	67-63-0	TWA 10 hours: 700 mg/m³. OSHA PEL (United States, 5/2018) TWA 8 hours: 150 ppm. TWA 8 hours: 700 mg/m³. ACGIH TLV (United States, 1/2024) A4. TWA 8 hours: 200 ppm. STEL 15 minutes: 400 ppm. NIOSH REL (United States, 10/2020) TWA 10 hours: 400 ppm. TWA 10 hours: 980 mg/m³. STEL 15 minutes: 500 ppm. STEL 15 minutes: 1225 mg/m³. OSHA PEL (United States, 5/2018) TWA 8 hours: 400 ppm. TWA 8 hours: 980 mg/m³.
2-Methyl-1-propanol	78-83-1	ACGIH TLV (United States, 1/2024) TWA 8 hours: 50 ppm. TWA 8 hours: 152 mg/m³. NIOSH REL (United States, 10/2020) TWA 10 hours: 50 ppm. TWA 10 hours: 150 mg/m³. OSHA PEL (United States, 5/2018) TWA 8 hours: 100 ppm. TWA 8 hours: 300 mg/m³.
Xylene, mixed isomers	1330-20-7	ACGIH TLV (United States, 1/2024) [p-xylene and mixtures containing p-xylene] A4. Ototoxicant. TWA 8 hours: 20 ppm. OSHA PEL (United States, 5/2018) [Xylenes] TWA 8 hours: 100 ppm. TWA 8 hours: 435 mg/m³.
2-Butoxyethanol	111-76-2	ACGIH TLV (United States, 1/2024) A3. TWA 8 hours: 20 ppm. NIOSH REL (United States, 10/2020) Absorbed through skin. TWA 10 hours: 5 ppm. TWA 10 hours: 24 mg/m³. OSHA PEL (United States, 5/2018) Absorbed through skin. TWA 8 hours: 50 ppm. TWA 8 hours: 240 mg/m³.
Methyl n-Amyl Ketone	110-43-0	ACGIH TLV (United States, 1/2024) TWA 8 hours: 50 ppm. TWA 8 hours: 233 mg/m³. NIOSH REL (United States, 10/2020) TWA 10 hours: 100 ppm. TWA 10 hours: 465 mg/m³. OSHA PEL (United States, 5/2018) TWA 8 hours: 100 ppm. TWA 8 hours: 465 mg/m³.
Ethylbenzene	100-41-4	ACGIH TLV (United States, 1/2024) A3. Ototoxicant. TWA 8 hours: 20 ppm. NIOSH REL (United States, 10/2020) TWA 10 hours: 100 ppm. TWA 10 hours: 435 mg/m³.

Section 8. Exposure controls/personal protection

STEL 15 minutes: 125 ppm.
STEL 15 minutes: 545 mg/m³.
OSHA PEL (United States, 5/2018)
TWA 8 hours: 100 ppm.
TWA 8 hours: 435 mg/m³.

Occupational exposure limits (Canada)

Ingredient name	CAS #	Exposure limits
Lt. Aliphatic Hydrocarbon Solvent	64742-89-8	CA Saskatchewan Provincial (Canada, 4/2021) [Hexane] STEL 15 minutes: 1000 ppm. TWA 8 hours: 500 ppm. CA British Columbia Provincial (Canada, 4/2024) [hexane, all isomers except n-hexane] TWA 8 hours: 200 ppm. CA British Columbia Provincial (Canada, 4/2024) [hexane] Absorbed through skin. Notes: No British Columbia exposure limit at this time CA Ontario Provincial (Canada, 6/2019) [Hexane isomers, other than n-hexane] TWA 8 hours: 500 ppm. STEL 15 minutes: 1000 ppm. CA Quebec Provincial (Canada, 2/2024) [Hexane] TWA 8 hours: 500 ppm. TWA 8 hours: 1760 mg/m³. STEL 15 minutes: 1000 ppm. STEL 15 minutes: 3500 mg/m³. CA Alberta Provincial (Canada, 3/2023) [Dimethylbutane] OEL 8 hours: 1760 mg/m³. OEL 15 minutes: 1000 ppm. OEL 15 minutes: 3500 mg/m³. OEL 8 hours: 500 ppm. CA Alberta Provincial (Canada, 3/2023) [Hexane] OEL 8 hours: 1760 mg/m³. OEL 8 hours: 500 ppm. OEL 15 minutes: 3500 mg/m³. OEL 15 minutes: 1000 ppm.
toluene	108-88-3	CA Saskatchewan Provincial (Canada, 4/2021) Absorbed through skin. STEL 15 minutes: 60 ppm. TWA 8 hours: 50 ppm. CA British Columbia Provincial (Canada, 4/2024) Repr. TWA 8 hours: 20 ppm. CA Ontario Provincial (Canada, 6/2019) TWA 8 hours: 20 ppm. CA Quebec Provincial (Canada, 2/2024) Ototoxicant. TWA 8 hours: 20 ppm. CA Alberta Provincial (Canada, 3/2023) Absorbed through skin.

Section 8. Exposure controls/personal protection

Methyl ethyl ketone	78-93-3	OEL 8 hours: 50 ppm. OEL 8 hours: 188 mg/m³. CA Saskatchewan Provincial (Canada, 4/2021) STEL 15 minutes: 300 ppm. TWA 8 hours: 200 ppm. CA British Columbia Provincial (Canada, 4/2024) Repr. Absorbed through skin. TWA 8 hours: 50 ppm. STEL 15 minutes: 100 ppm. CA Ontario Provincial (Canada, 6/2019) TWA 8 hours: 200 ppm. STEL 15 minutes: 300 ppm. CA Quebec Provincial (Canada, 2/2024) TWA_{EV} 8 hours: 50 ppm. TWA_{EV} 8 hours: 150 mg/m³. STEV 15 minutes: 100 ppm. STEV 15 minutes: 300 mg/m³. CA Alberta Provincial (Canada, 3/2023) OEL 15 minutes: 300 ppm. OEL 8 hours: 200 ppm. OEL 8 hours: 590 mg/m³. OEL 15 minutes: 885 mg/m³.
Isobutyl acetate	110-19-0	CA Saskatchewan Provincial (Canada, 4/2021) STEL 15 minutes: 188 ppm. TWA 8 hours: 150 ppm. CA British Columbia Provincial (Canada, 4/2024) [butyl acetate, all isomers] STEL 15 minutes: 150 ppm. TWA 8 hours: 50 ppm. CA Ontario Provincial (Canada, 6/2019) [butyl acetates, all isomers] STEL 15 minutes: 150 ppm. TWA 8 hours: 50 ppm. CA Quebec Provincial (Canada, 2/2024) [butyl acetates] STEV 15 minutes: 150 ppm. TWA_{EV} 8 hours: 50 ppm. CA Alberta Provincial (Canada, 3/2023) OEL 8 hours: 150 ppm. OEL 8 hours: 713 mg/m³.
Isopropyl alcohol	67-63-0	CA Saskatchewan Provincial (Canada, 4/2021) STEL 15 minutes: 400 ppm. TWA 8 hours: 200 ppm. CA British Columbia Provincial (Canada, 4/2024) TWA 8 hours: 200 ppm. STEL 15 minutes: 400 ppm. CA Ontario Provincial (Canada, 6/2019) TWA 8 hours: 200 ppm. STEL 15 minutes: 400 ppm. CA Quebec Provincial (Canada, 2/2024) TWA_{EV} 8 hours: 200 ppm. STEV 15 minutes: 400 ppm. CA Alberta Provincial (Canada, 3/2023)

Section 8. Exposure controls/personal protection

Isobutyl alcohol	78-83-1	OEL 15 minutes: 984 mg/m³. OEL 8 hours: 200 ppm. OEL 15 minutes: 400 ppm. OEL 8 hours: 492 mg/m³. CA Saskatchewan Provincial (Canada, 4/2021) STEL 15 minutes: 60 ppm. TWA 8 hours: 50 ppm. CA British Columbia Provincial (Canada, 4/2024) TWA 8 hours: 50 ppm. CA Ontario Provincial (Canada, 6/2019) TWA 8 hours: 50 ppm. CA Quebec Provincial (Canada, 2/2024) TWA EV 8 hours: 50 ppm. TWA EV 8 hours: 152 mg/m³. CA Alberta Provincial (Canada, 3/2023) OEL 8 hours: 50 ppm. OEL 8 hours: 152 mg/m³.
Xylene	1330-20-7	CA Saskatchewan Provincial (Canada, 4/2021) [Xylene] STEL 15 minutes: 150 ppm. TWA 8 hours: 100 ppm. CA British Columbia Provincial (Canada, 4/2024) [xylene (o, m & p isomers)] TWA 8 hours: 100 ppm. STEL 15 minutes: 150 ppm. CA Ontario Provincial (Canada, 6/2019) [Xylene (o-, m-, p-isomers)] STEL 15 minutes: 150 ppm. TWA 8 hours: 100 ppm. CA Quebec Provincial (Canada, 2/2024) [Xylene] TWA EV 8 hours: 100 ppm. TWA EV 8 hours: 434 mg/m³. STEV 15 minutes: 150 ppm. STEV 15 minutes: 651 mg/m³. CA Alberta Provincial (Canada, 3/2023) [Dimethylbenzene] OEL 8 hours: 100 ppm. OEL 15 minutes: 651 mg/m³. OEL 15 minutes: 150 ppm. OEL 8 hours: 434 mg/m³.
2-Butoxyethanol	111-76-2	CA Saskatchewan Provincial (Canada, 4/2021) STEL 15 minutes: 30 ppm. TWA 8 hours: 20 ppm. CA British Columbia Provincial (Canada, 4/2024) TWA 8 hours: 20 ppm. CA Ontario Provincial (Canada, 6/2019) TWA 8 hours: 20 ppm. CA Quebec Provincial (Canada, 2/2024) C3. TWA EV 8 hours: 20 ppm. CA Alberta Provincial (Canada, 3/2023) OEL 8 hours: 97 mg/m³.

Section 8. Exposure controls/personal protection

Methyl n-amyl ketone	110-43-0	OEL 8 hours: 20 ppm. CA Saskatchewan Provincial (Canada, 4/2021) STEL 15 minutes: 60 ppm. TWA 8 hours: 50 ppm. CA British Columbia Provincial (Canada, 4/2024) TWA 8 hours: 50 ppm. CA Ontario Provincial (Canada, 6/2019) TWA 8 hours: 25 ppm. TWA 8 hours: 115 mg/m³. CA Quebec Provincial (Canada, 2/2024) TWAEV 8 hours: 50 ppm. TWAEV 8 hours: 233 mg/m³. CA Alberta Provincial (Canada, 3/2023) OEL 8 hours: 233 mg/m³. OEL 8 hours: 50 ppm.
Ethylbenzene	100-41-4	CA Saskatchewan Provincial (Canada, 4/2021) STEL 15 minutes: 125 ppm. TWA 8 hours: 100 ppm. CA British Columbia Provincial (Canada, 4/2024) Carc 2B. TWA 8 hours: 20 ppm. CA Ontario Provincial (Canada, 6/2019) TWA 8 hours: 20 ppm. CA Quebec Provincial (Canada, 2/2024) C3. TWAEV 8 hours: 20 ppm. CA Alberta Provincial (Canada, 3/2023) OEL 8 hours: 100 ppm. OEL 8 hours: 434 mg/m³. OEL 15 minutes: 543 mg/m³. OEL 15 minutes: 125 ppm.

Occupational exposure limits (Mexico)

Ingredient name	CAS #	Exposure limits
Lt. Aliphatic Hydrocarbon Solvent	64742-89-8	ACGIH TLV (United States, 1/2024) [branched hexane isomers] A3. TWA 8 hours: 200 ppm. ACGIH TLV (United States, 1/2024) [hexane] A3. Absorbed through skin. TWA 8 hours: 100 ppm. NOM-010-STPS-2014 (Mexico, 4/2016) A4. TWA 8 hours: 20 ppm. NOM-010-STPS-2014 (Mexico, 4/2016) TWA 8 hours: 200 ppm. STEL 15 minutes: 300 ppm. NOM-010-STPS-2014 (Mexico, 4/2016) TWA 8 hours: 150 ppm. NOM-010-STPS-2014 (Mexico, 4/2016) A4. TWA 8 hours: 200 ppm. STEL 15 minutes: 400 ppm. NOM-010-STPS-2014 (Mexico, 4/2016) TWA 8 hours: 50 ppm. NOM-010-STPS-2014 (Mexico, 4/2016)
Toluene	108-88-3	
Methyl Ethyl Ketone	78-93-3	
Isobutyl Acetate	110-19-0	
2-Propanol	67-63-0	
2-Methyl-1-propanol	78-83-1	
Xylene, mixed isomers	1330-20-7	

Section 8. Exposure controls/personal protection

2-Butoxyethanol	111-76-2	[Xileno, mezcla] A4. STEL 15 minutes: 150 ppm. TWA 8 hours: 100 ppm.
Methyl n-Amyl Ketone	110-43-0	NOM-010-STPS-2014 (Mexico, 4/2016) A3. TWA 8 hours: 20 ppm.
Ethylbenzene	100-41-4	NOM-010-STPS-2014 (Mexico, 4/2016) TWA 8 hours: 50 ppm. NOM-010-STPS-2014 (Mexico, 4/2016) A3. TWA 8 hours: 20 ppm.

Biological exposure indices (United States)

Ingredient name	Exposure indices
Toluene	ACGIH BEI (United States, 1/2024) BEI: 0.03 mg/l, toluene [in urine]. Sampling time: end of shift. BEI: 0.3 mg/g creatinine, o-cresol [in urine]. Sampling time: end of shift. BEI: 0.02 mg/l, toluene [in blood]. Sampling time: prior to last shift of workweek.
Methyl Ethyl Ketone	ACGIH BEI (United States, 1/2024) BEI: 2 mg/l, methyl ethyl ketone [in urine]. Sampling time: end of shift.
2-Propanol	ACGIH BEI (United States, 1/2024) BEI: 40 mg/l, acetone [in urine]. Sampling time: end of shift at end of workweek.
Xylene, mixed isomers	ACGIH BEI (United States, 1/2024) [xylenes (technical or commercial grades)] BEI: 0.3 g/g creatinine, methylhippuric acids [in urine]. Sampling time: end of shift.
2-Butoxyethanol	ACGIH BEI (United States, 1/2024) BEI: 200 mg/g creatinine, butoxyacetic acid (BAA) [in urine]. Sampling time: end of shift.
Ethylbenzene	ACGIH BEI (United States, 1/2024) BEI: 150 mg/g creatinine, sum of mandelic acid and phenylglyoxylic acid [in urine]. Sampling time: end of shift.

Biological exposure indices (Canada)

No exposure indices known.

Biological exposure indices (Mexico)

Ingredient name	Exposure indices
Toluene	Official Mexican STANDARD NOM-047-SSA1-2011, Environmental Health-Biological exposure indices for personnel occupationally exposed to chemical substances. (Mexico, 6/2012) BEI: 0.05 mg/L, toluene [in blood]. Sampling time: sample time not specified. BEI: 1.6 g/g creatinine [Basal level. The determinant may be present in the biological sample obtained from subjects who have not

Section 8. Exposure controls/personal protection

	been occupationally exposed, at a concentration that could affect the interpretation of the results. These background levels are included in the valu; non-specific.The determinant is nonspecific, since it can be found after exposure to other chemicals.], hippuric acid [in urine]. Sampling time: at the end of the work shift. BEI: 0.5 mg/L [Basal level.The determinant may be present in the biological sample obtained from subjects who have not been occupationally exposed, at a concentration that could affect the interpretation of the results. These background levels are included in the valu], o-cresol [in urine]. Sampling time: at the end of the work shift.
Methyl Ethyl Ketone	Official Mexican STANDARD NOM-047-SSA1-2011, Environmental Health-Biological exposure indices for personnel occupationally exposed to chemical substances. (Mexico, 6/2012) BEI: 2 mg/L, MEK [in urine]. Sampling time: at the end of the work shift.
2-Propanol	Official Mexican STANDARD NOM-047-SSA1-2011, Environmental Health-Biological exposure indices for personnel occupationally exposed to chemical substances. (Mexico, 6/2012) BEI: 40 mg/L [non-specific.The determinant is nonspecific, since it can be found after exposure to other chemicals.], acetone [in urine]. Sampling time: at the end of the shift at the end of the work week.
Xylene, mixed isomers	Official Mexican STANDARD NOM-047-SSA1-2011, Environmental Health-Biological exposure indices for personnel occupationally exposed to chemical substances. (Mexico, 6/2012) [xylenes (technical or commercial grade)] BEI: 1.5 g/g creatinine, methyl hippuric acids [in urine]. Sampling time: at the end of the work shift.
2-Butoxyethanol	Official Mexican STANDARD NOM-047-SSA1-2011, Environmental Health-Biological exposure indices for personnel occupationally exposed to chemical substances. (Mexico, 6/2012) BEI: 200 mg/g creatinine, butoxyacetic acid (BAA) [in urine]. Sampling time: exposure sample at the end of the work shift.
Ethylbenzene	Official Mexican STANDARD NOM-047-SSA1-2011, Environmental Health-

Section 8. Exposure controls/personal protection

Biological exposure indices for personnel occupationally exposed to chemical substances. (Mexico, 6/2012)

BEI: 0.7 g/g creatinine [non-specific. The determinant is nonspecific, since it can be found after exposure to other chemicals.; semi-quantitative. The biological determinant is an indicator of chemical exposure, but the quantitative interpretation of the measure is ambiguous. These biological determinants should be used as a screening test if a quantitative test is not possible.], Sum of mandelic acid and acid phenylglyoxylic [in urine]. Sampling time: at the end of the shift at the end of the work week.

BEI: semi-quantitative. The biological determinant is an indicator of chemical exposure, but the quantitative interpretation of the measure is ambiguous. These biological determinants should be used as a screening test if a quantitative test is not possible., ethylbenzene [in exhaled air]. Sampling time: uncritical.

Appropriate engineering controls

: Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. The engineering controls also need to keep gas, vapor or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment.

Environmental exposure controls

: Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

Individual protection measures

Hygiene measures

: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

Eye/face protection

: Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: chemical splash goggles and/or face shield. If inhalation hazards exist, a full-face respirator may be required instead.

Skin protection

Hand protection

: Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.

Section 8. Exposure controls/personal protection

- Body protection** : Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. When there is a risk of ignition from static electricity, wear anti-static protective clothing. For the greatest protection from static discharges, clothing should include anti-static overalls, boots and gloves.
- Other skin protection** : Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
- Respiratory protection** : Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use.

Section 9. Physical and chemical properties

The conditions of measurement of all properties are at standard temperature and pressure unless otherwise indicated.

Appearance

- Physical state** : Liquid.
- Color** : Various
- Odor** : Not available.
- Odor threshold** : Not available.
- pH** : Not applicable.
- Melting point/freezing point** : Not available.
- Boiling point or initial boiling point and boiling range** : 78°C (172.4°F)
- Flash point** : Closed cup: 0°C (32°F) [Pensky-Martens Closed Cup]
- Evaporation rate** : 89 (butyl acetate = 1)
- Flammability** : Flammable liquid.
- Lower and upper explosion limit/flammability limit** : Lower: 0.9%
Upper: 12.7%
- Vapor pressure** : 12.1 kPa (90.6 mm Hg)
- Relative vapor density** : 2.07 [Air = 1]
- Relative density** : 0.8
- Density** : 0.8 g/cm³
- Solubility(ies)** :

Media	Result
cold water	Not soluble

- Partition coefficient: n-octanol/water** : Not applicable.
- Auto-ignition temperature** : Not available.
- Decomposition temperature** : Not available.
- Viscosity** : Dynamic (room temperature): Not available.
Kinematic (room temperature): Not available.
Kinematic (40°C (104°F)): <20.5 mm²/s (<20.5 cSt)
- Molecular weight** : Not applicable.
- Particle characteristics**
- Median particle size** : Not applicable.

Section 9. Physical and chemical properties

Heat of combustion : 33.861 kJ/g

Section 10. Stability and reactivity

Reactivity : No specific test data related to reactivity available for this product or its ingredients.

Chemical stability : The product is stable.

Possibility of hazardous reactions : Under normal conditions of storage and use, hazardous reactions will not occur.

Conditions to avoid : Avoid all possible sources of ignition (spark or flame). Do not pressurize, cut, weld, braze, solder, drill, grind or expose containers to heat or sources of ignition. Do not allow vapor to accumulate in low or confined areas.

Incompatible materials : Reactive or incompatible with the following materials:
oxidizing materials

Hazardous decomposition products : Under normal conditions of storage and use, hazardous decomposition products should not be produced.

Section 11. Toxicological information

Information on toxicological effects

Acute toxicity

Product/ingredient name

Result

Toluene

Rat - Oral - LD50

636 mg/kg

Rat - Inhalation - LC50 Vapor

49 g/m³ [4 hours]

Rabbit - Dermal - LD50

6480 mg/kg

Rat - Oral - LD50

2737 mg/kg

Rat - Oral - LD50

13400 mg/kg

Rabbit - Dermal - LD50

>17400 mg/kg

Rabbit - Dermal - LD50

12800 mg/kg

Rat - Oral - LD50

5000 mg/kg

Toxic effects: Behavioral - General anesthetic

Rat - Oral - LD50

2460 mg/kg

Rabbit - Dermal - LD50

3400 mg/kg

Rat - Inhalation - LC50 Vapor

19200 mg/m³ [4 hours]

Rat - Oral - LD50

4300 mg/kg

Toxic effects: Liver - Other changes Kidney, Ureter, and Bladder - Other changes

Rat - Inhalation - LC50 Gas.

6700 ppm [4 hours]

Isobutyl Acetate

2-Propanol

2-Methyl-1-propanol

Xylene, mixed isomers

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Version : 21

16/27

530-K22

Lacquer Thinner K22

530-8556 530-8564 530-8572

SHW-85-NA-GHS-US

Section 11. Toxicological information

2-Butoxyethanol	<u>Toxic effects:</u> Behavioral - Somnolence (general depressed activity) Guinea pig - Dermal - LD50 >2000 mg/kg Rat - Oral - LD50 1300 mg/kg Guinea pig - Inhalation - LCLo Vapor >3.1 mg/l [1 hours]
Methyl n-Amyl Ketone	Rat - Oral - LD50 1600 mg/kg <u>Toxic effects:</u> Behavioral - Ataxia Lung, Thorax, or Respiration - Respiratory depression
Ethylbenzene	Rat - Oral - LD50 3500 mg/kg <u>Toxic effects:</u> Liver - Other changes Kidney, Ureter, and Bladder - Other changes Rabbit - Dermal - LD50 >5000 mg/kg

Conclusion/Summary [Product] : Not available.

Skin corrosion/irritation

Product/ingredient name

Result

Toluene	Pig - Skin - Mild irritant <u>Duration of treatment/exposure:</u> 24 hours <u>Amount/concentration applied:</u> 250 uL Rabbit - Skin - Mild irritant <u>Amount/concentration applied:</u> 435 mg Rabbit - Skin - Moderate irritant <u>Duration of treatment/exposure:</u> 24 hours <u>Amount/concentration applied:</u> 20 mg Rabbit - Skin - Moderate irritant <u>Amount/concentration applied:</u> 500 mg Rabbit - Skin - Mild irritant <u>Duration of treatment/exposure:</u> 24 hours <u>Amount/concentration applied:</u> 14 mg Rabbit - Skin - Mild irritant <u>Duration of treatment/exposure:</u> 24 hours <u>Amount/concentration applied:</u> 402 mg Rabbit - Skin - Moderate irritant <u>Duration of treatment/exposure:</u> 24 hours <u>Amount/concentration applied:</u> 500 mg Rabbit - Skin - Mild irritant <u>Amount/concentration applied:</u> 500 mg Rabbit - Skin - Moderate irritant <u>Duration of treatment/exposure:</u> 24 hours <u>Amount/concentration applied:</u> 500 mg Rabbit - Skin - Mild irritant <u>Amount/concentration applied:</u> 500 mg Rat - Skin - Mild irritant <u>Duration of treatment/exposure:</u> 8 hours <u>Amount/concentration applied:</u> 60 uL Rabbit - Skin - Moderate irritant <u>Duration of treatment/exposure:</u> 24 hours <u>Amount/concentration applied:</u> 500 mg
Methyl Ethyl Ketone	
Isobutyl Acetate	
2-Propanol	
Xylene, mixed isomers	

Section 11. Toxicological information

2-Butoxyethanol	Rabbit - Skin - Moderate irritant <u>Amount/concentration applied:</u> 100 %
Methyl n-Amyl Ketone	Rabbit - Skin - Mild irritant <u>Amount/concentration applied:</u> 500 mg
Ethylbenzene	Rabbit - Skin - Mild irritant <u>Duration of treatment/exposure:</u> 24 hours <u>Amount/concentration applied:</u> 14 mg
	Rabbit - Skin - Mild irritant <u>Duration of treatment/exposure:</u> 24 hours <u>Amount/concentration applied:</u> 15 mg

Conclusion/Summary [Product] : Not available.

Serious eye damage/eye irritation

Product/ingredient name

Result

Toluene	Rabbit - Eyes - Mild irritant <u>Duration of treatment/exposure:</u> 0.5 minutes <u>Amount/concentration applied:</u> 100 mg
	Rabbit - Eyes - Mild irritant <u>Amount/concentration applied:</u> 870 ug
	Rabbit - Eyes - Severe irritant <u>Duration of treatment/exposure:</u> 24 hours <u>Amount/concentration applied:</u> 2 mg
	Rabbit - Eyes - Severe irritant <u>Amount/concentration applied:</u> 0.1 MI
Isobutyl Acetate	Rabbit - Eyes - Moderate irritant <u>Duration of treatment/exposure:</u> 24 hours <u>Amount/concentration applied:</u> 500 mg
2-Propanol	Rabbit - Eyes - Moderate irritant <u>Duration of treatment/exposure:</u> 24 hours <u>Amount/concentration applied:</u> 100 mg
	Rabbit - Eyes - Moderate irritant <u>Amount/concentration applied:</u> 10 mg
	Rabbit - Eyes - Severe irritant <u>Amount/concentration applied:</u> 100 mg
Xylene, mixed isomers	Rabbit - Eyes - Mild irritant <u>Amount/concentration applied:</u> 87 mg
	Rabbit - Eyes - Severe irritant <u>Duration of treatment/exposure:</u> 24 hours <u>Amount/concentration applied:</u> 5 mg
2-Butoxyethanol	Rabbit - Eyes - Moderate irritant <u>Duration of treatment/exposure:</u> 24 hours <u>Amount/concentration applied:</u> 100 mg
	Rabbit - Eyes - Severe irritant <u>Amount/concentration applied:</u> 100 mg
Ethylbenzene	Rabbit - Eyes - Severe irritant <u>Amount/concentration applied:</u> 500 mg

Conclusion/Summary [Product] : Not available.

Respiratory corrosion/irritation

Not available.

Section 11. Toxicological information

Conclusion/Summary [Product] : Not available.

Respiratory or skin sensitization

Not available.

Skin

Conclusion/Summary [Product] : Not available.

Respiratory

Conclusion/Summary [Product] : Not available.

Germ cell mutagenicity

Not available.

Conclusion/Summary [Product] : Not available.

Carcinogenicity

Not available.

Conclusion/Summary [Product] : Not available.

Classification

Product/ingredient name	OSHA	IARC	NTP
Toluene	-	3	-
2-Propanol	-	3	-
Xylene, mixed isomers	-	3	-
2-Butoxyethanol	-	3	-
Ethylbenzene	-	2B	-

Reproductive toxicity

Not available.

Conclusion/Summary [Product] : Not available.

Specific target organ toxicity (single exposure)

Product/ingredient name	Result
Lt. Aliphatic Hydrocarbon Solvent	SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3
Toluene	SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3
Methyl Ethyl Ketone	SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3
Isobutyl Acetate	SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3
2-Propanol	SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3
2-Methyl-1-propanol	SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3
	SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE)

Section 11. Toxicological information

Xylene, mixed isomers	(Narcotic effects) - Category 3 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE)
2-Butoxyethanol	(Narcotic effects) - Category 3 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE)
Methyl n-Amyl Ketone	(Narcotic effects) - Category 3 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE)
Ethylbenzene	(Narcotic effects) - Category 3 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3

Specific target organ toxicity (repeated exposure)

Product/ingredient name	Result
Toluene	SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 2
Xylene, mixed isomers	SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 2
Ethylbenzene	SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 2

Aspiration hazard

Product/ingredient name	Result
Lt. Aliphatic Hydrocarbon Solvent	ASPIRATION HAZARD - Category 1
Toluene	ASPIRATION HAZARD - Category 1
Xylene, mixed isomers	ASPIRATION HAZARD - Category 1
Ethylbenzene	ASPIRATION HAZARD - Category 1

Information on the likely routes of exposure

Not available.

Potential acute health effects

Eye contact	: Causes serious eye damage.
Inhalation	: Can cause central nervous system (CNS) depression. May cause drowsiness or dizziness.
Skin contact	: Causes skin irritation.
Ingestion	: Can cause central nervous system (CNS) depression. May be fatal if swallowed and enters airways.

Symptoms related to the physical, chemical and toxicological characteristics

Eye contact	: Adverse symptoms may include the following: pain watering redness
Inhalation	: Adverse symptoms may include the following: nausea or vomiting headache drowsiness/fatigue dizziness/vertigo unconsciousness reduced fetal weight increase in fetal deaths skeletal malformations

Section 11. Toxicological information

Skin contact : Adverse symptoms may include the following:
pain or irritation
redness
blistering may occur
reduced fetal weight
increase in fetal deaths
skeletal malformations

Ingestion : Adverse symptoms may include the following:
stomach pains
nausea or vomiting
reduced fetal weight
increase in fetal deaths
skeletal malformations

Delayed and immediate effects and also chronic effects from short and long term exposure

Short term exposure

Potential immediate effects : Not available.

Potential delayed effects : Not available.

Long term exposure

Potential immediate effects : Not available.

Potential delayed effects : Not available.

Potential chronic health effects

Not available.

Conclusion/Summary [Product] : Not available.

General : May cause damage to organs through prolonged or repeated exposure.

Carcinogenicity : Suspected of causing cancer. Risk of cancer depends on duration and level of exposure.

Mutagenicity : No known significant effects or critical hazards.

Reproductive toxicity : May damage fertility or the unborn child.

Numerical measures of toxicity

Acute toxicity estimates

Product/ingredient name	Oral (mg/kg)	Dermal (mg/kg)	Inhalation (gases) (ppm)	Inhalation (vapors) (mg/l)	Inhalation (dusts and mists) (mg/l)
Lacquer Thinner K22	3926.0	10339.1	N/A	28.8	N/A
Toluene	N/A	N/A	N/A	49	N/A
Methyl Ethyl Ketone	2737	6480	N/A	N/A	N/A
Isobutyl Acetate	13400	N/A	N/A	N/A	N/A
2-Propanol	5000	12800	N/A	N/A	N/A
2-Methyl-1-propanol	2460	3400	N/A	N/A	N/A
Xylene, mixed isomers	4300	2500	N/A	N/A	N/A
2-Butoxyethanol	1200	N/A	N/A	3	N/A
Methyl n-Amyl Ketone	1600	N/A	N/A	11	N/A
Ethylbenzene	3500	N/A	N/A	11	N/A

Section 12. Ecological information

Toxicity

Product/ingredient name

Lt. Aliphatic Hydrocarbon Solvent

Result

Acute - LC50 - Fresh water

US EPA

Fish - Rainbow trout,donaldson trout - *Oncorhynchus mykiss*

Weight: 0.32 g

>10 pph [96 hours]

Effect: Mortality

Toluene

Acute - LC50 - Fresh water

Fish - Coho salmon,silver salmon - *Oncorhynchus kisutch* - Fry

Weight: 1 g

5500 µg/l [96 hours]

Effect: Mortality

Acute - EC50 - Fresh water

Daphnia - Water flea - *Daphnia magna* - Juvenile (Fledgling, Hatchling, Weanling)

6000 µg/l [48 hours]

Effect: Intoxication

Chronic - NOEC - Fresh water

Daphnia - Water flea - *Daphnia magna*

Age: ≤24 hours

1 mg/l [21 days]

Effect: Mortality

Acute - EC50 - Fresh water

Algae - Green algae - *Raphidocelis subcapitata*

12.5 mg/l [72 hours]

Effect: Growth

Methyl Ethyl Ketone

Acute - EC50 - Fresh water

Daphnia - Water flea - *Daphnia magna* - Larvae

Age: <24 hours

5091 mg/l [48 hours]

Effect: Intoxication

Acute - LC50 - Fresh water

Fish - Fathead minnow - *Pimephales promelas*

Age: 31 days; Size: 22 mm; Weight: 0.167 g

3220 mg/l [96 hours]

Effect: Mortality

Acute - EC50 - Marine water

Algae - Diatom - *Skeletonema costatum*

>500 mg/l [96 hours]

Effect: Population

2-Propanol

Acute - LC50 - Marine water

Crustaceans - Common shrimp, sand shrimp - *Crangon crangon*

1400 mg/l [48 hours]

Effect: Mortality

Acute - LC50 - Fresh water

Fish - Harlequinfish, red rasbora - *Rasbora heteromorpha*

Size: 1 to 3 cm

4200 mg/l [96 hours]

Effect: Mortality

2-Methyl-1-propanol

Acute - LC50 - Fresh water

Fish - Rainbow trout,donaldson trout - *Oncorhynchus mykiss*

Weight: 1.67 g

1330 mg/l [96 hours]

Effect: Mortality

Acute - LC50 - Marine water

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Section 12. Ecological information

Crustaceans - Brine shrimp - *Artemia salina*

600 mg/l [48 hours]

Effect: Mortality

Chronic - NOEC - Fresh water

Daphnia - Water flea - *Daphnia magna*

Age: ≤24 hours

4 mg/l [21 days]

Effect: Reproduction

Xylene, mixed isomers

Acute - LC50 - Marine water

Crustaceans - Daggerblade grass shrimp - *Palaemon pugio*

8500 µg/l [48 hours]

Effect: Mortality

Acute - LC50 - Fresh water

Fish - Fathead minnow - *Pimephales promelas*

Age: 31 days; Size: 18.4 mm; Weight: 0.077 g

13.4 mg/l [96 hours]

Effect: Mortality

2-Butoxyethanol

Acute - LC50 - Marine water

Crustaceans - Common shrimp, sand shrimp - *Crangon crangon*

800 mg/l [48 hours]

Effect: Mortality

Acute - LC50 - Marine water

Fish - Inland silverside - *Menidia beryllina*

1250 ppm [96 hours]

Effect: Mortality

Methyl n-Amyl Ketone

Acute - LC50 - Fresh water

Fish - Fathead minnow - *Pimephales promelas*

Age: 32 days; Size: 18.4 mm; Weight: 0.095 g

131 mg/l [96 hours]

Effect: Mortality

Ethylbenzene

Acute - LC50 - Fresh water

Fish - Rainbow trout, donaldson trout - *Oncorhynchus mykiss*

4200 µg/l [96 hours]

Effect: Mortality

Acute - EC50 - Fresh water

Daphnia - Water flea - *Daphnia magna* - Neonate

Age: ≤24 hours

2.93 mg/l [48 hours]

Effect: Intoxication

Acute - EC50 - Fresh water

Algae - Green algae - *Raphidocelis subcapitata*

3600 µg/l [96 hours]

Effect: Population

Conclusion/Summary [Product] : Not available.

Persistence and degradability

Not available.

Conclusion/Summary [Product] : Not available.

Section 12. Ecological information

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
Toluene	-	-	Readily
Methyl Ethyl Ketone	-	-	Readily
2-Propanol	-	-	Readily
2-Methyl-1-propanol	-	-	Readily
Xylene, mixed isomers	-	-	Readily
2-Butoxyethanol	-	-	Readily
Methyl n-Amyl Ketone	-	-	Readily
Ethylbenzene	-	-	Readily

Bioaccumulative potential

Product/ingredient name	LogP _{ow}	BCF	Potential
Lt. Aliphatic Hydrocarbon Solvent	-	10 to 2500	High
Toluene	-	90	Low
Xylene, mixed isomers	-	8.1 to 25.9	Low

Mobility in soil

Soil/Water partition coefficient : Not available.

Other adverse effects

No known significant effects or critical hazards.

Section 13. Disposal considerations

Disposal methods : The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Vapor from product residues may create a highly flammable or explosive atmosphere inside the container. Do not cut, weld or grind used containers unless they have been cleaned thoroughly internally. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

Section 14. Transport information

	DOT Classification	TDG Classification	Mexico Classification	IATA	IMDG
UN number	UN1263	UN1263	UN1263	UN1263	UN1263
UN proper shipping name	PAINT RELATED MATERIAL	PAINT RELATED MATERIAL	PAINT RELATED MATERIAL	PAINT RELATED MATERIAL	PAINT RELATED MATERIAL. Marine pollutant (Lt. Aliphatic Hydrocarbon Solvent)

Section 14. Transport information

Transport hazard class(es)	3 	3 	3 	3 	3  
Packing group	II	II	II	II	II
Environmental hazards	No.	No.	No.	Yes. The environmentally hazardous substance mark is not required.	Yes.
Additional information	- ERG No. 128	Product classified as per the following sections of the Transportation of Dangerous Goods Regulations: 2.18-2.19 (Class 3). ERG No. 128	- ERG No. 128	The environmentally hazardous substance mark may appear if required by other transportation regulations.	The marine pollutant mark is not required when transported in sizes of ≤5 L or ≤5 kg. Emergency schedules F-E, S-E

Special precautions for user : Multi-modal shipping descriptions are provided for informational purposes and do not consider container sizes. The presence of a shipping description for a particular mode of transport (sea, air, etc.), does not indicate that the product is packaged suitably for that mode of transport. All packaging must be reviewed for suitability prior to shipment, and compliance with the applicable regulations is the sole responsibility of the person offering the product for transport. People loading and unloading dangerous goods must be trained on all of the risks deriving from the substances and on all actions in case of emergency situations.

Transport in bulk according to IMO instruments : Not available.

Proper shipping name : Not available.

Section 15. Regulatory information

U.S. Federal regulations :

SARA 313

All data given below are MAXIMUM THEORETICAL VALUES based on the product AS CURRENTLY FORMULATED and rely on information provided to us by our raw material suppliers. Our suppliers often provide an estimated value or range less than a certain upper limit. We calculate MAXIMUM THEORETICAL VALUES using defined values, if provided, or the upper limit reported by our supplier. Additionally, the suppliers' information may include amounts present in the product as unintentional byproducts or impurities. Variations may occur in individual batches due to adjustments made during production. Reporting of chemicals in this section does not necessarily indicate their presence in the final formulated product.

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Section 15. Regulatory information

Ingredient name	% by weight	CAS number
Glycol Ethers (SARA)	5	
Toluene	14	108-88-3
Xylene, mixed isomers	6	1330-20-7
2-Butoxyethanol	5	111-76-2
Ethylbenzene	1	100-41-4

California Prop. 65

WARNING: This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.

International regulations

Montreal Protocol

Not listed.

Stockholm Convention on Persistent Organic Pollutants

Not listed.

International lists

: **Australia inventory (AIIIC):** Not determined.
China inventory (IECSC): Not determined.
Japan inventory (CSCL): Not determined.
Japan inventory (ISHL): Not determined.
Korea inventory (KECI): Not determined.
New Zealand Inventory of Chemicals (NZIoC): Not determined.
Philippines inventory (PICCS): Not determined.
Taiwan Chemical Substances Inventory (TCSI): Not determined.
Thailand inventory: Not determined.
Turkey inventory: Not determined.
Vietnam inventory: Not determined.

Section 16. Other information

Hazardous Material Information System (U.S.A.)

Health	*	3
Flammability		3
Physical hazards		0

The customer is responsible for determining the PPE code for this material. For more information on HMIS® Personal Protective Equipment (PPE) codes, consult the HMIS® Implementation Manual.

Caution: HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. Although HMIS® ratings and the associated label are not required on SDSs or products leaving a facility under 29 CFR 1910.1200, the preparer may choose to provide them. HMIS® ratings are to be used with a fully implemented HMIS® program. HMIS® is a registered trademark and service mark of the American Coatings Association, Inc.

Procedure used to derive the classification

Classification	Justification
FLAMMABLE LIQUIDS - Category 2	On basis of test data
SKIN CORROSION/IRRITATION - Category 2	Calculation method
SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 1	Calculation method
CARCINOGENICITY - Category 2	Calculation method
TOXIC TO REPRODUCTION - Category 1B	Calculation method
SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3	Calculation method
SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 2	Calculation method

Date of issue/Date of revision	: 5/3/2025	Date of previous issue	: 12/14/2024	Version	: 21	26/27
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Section 16. Other information

ASPIRATION HAZARD - Category 1	Calculation method
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History

Date of printing : 5/3/2025
Date of issue/Date of revision : 5/3/2025
Date of previous issue : 12/14/2024
Version : 21
Key to abbreviations : ATE = Acute Toxicity Estimate
BCF = Bioconcentration Factor
GHS = Globally Harmonized System of Classification and Labelling of Chemicals
IATA = International Air Transport Association
IBC = Intermediate Bulk Container
IMDG = International Maritime Dangerous Goods
LogPow = logarithm of the octanol/water partition coefficient
MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)
N/A = Not available
SGG = Segregation Group
UN = United Nations

 Indicates information that has changed from previously issued version.

Notice to reader

It is recommended that each customer or recipient of this Safety Data Sheet (SDS) study it carefully and consult resources, as necessary or appropriate, to become aware of and understand the data contained in this SDS and any hazards associated with the product. This information is provided in good faith and believed to be accurate as of the effective date herein. However, no warranty, express or implied, is given. The information presented here applies only to the product as shipped. The addition of any material can change the composition, hazards and risks of the product. Products shall not be repackaged, modified, or tinted except as specifically instructed by the manufacturer, including but not limited to the incorporation of products not specified by the manufacturer, or the use or addition of products in proportions not specified by the manufacturer. Regulatory requirements are subject to change and may differ between various locations and jurisdictions. The customer/buyer/user is responsible to ensure that his activities comply with all country, federal, state, provincial or local laws. The conditions for use of the product are not under the control of the manufacturer; the customer/buyer/user is responsible to determine the conditions necessary for the safe use of this product. The customer/buyer/user should not use the product for any purpose other than the purpose shown in the applicable section of this SDS without first referring to the supplier and obtaining written handling instructions. Due to the proliferation of sources for information such as manufacturer-specific SDS, the manufacturer cannot be responsible for SDSs obtained from any other source.

SAFETY DATA SHEET

SECTION 1 : IDENTIFICATION

Product Name: 1-Part Epoxy Concrete & Garage Floor Paint White Base No. 900
Product Code: 900
SDS Manufacturer Number: 900
Manufacturer Name: BEHR Process Corporation
Address: 3400 W. Segerstrom Avenue
 Santa Ana, CA 92704
General Phone Number: (714) 545-7101
General Fax Number: (714) 241-1002
Customer Service Phone Number: (800) 854-0133 ext. 2
CHEMTREC: For emergencies in the US, call CHEMTREC: 800-424-9300
Canutec: In Canada, call CANUTEC: (613) 996-6666 (call collect)
SDS Creation Date: February 05, 2014
SDS Revision Date: February 29, 2016
(M)SDS Format:

SECTION 2 : HAZARD(S) IDENTIFICATION

GHS Pictograms:



Signal Word: Warning.

GHS Class: Eye Irritant, Category 2B.
Skin Irritant, Category 2.

Hazard Statements: Causes eye irritation.
Causes skin irritation.

Precautionary Statements: Wear protective clothing, gloves, eye, and face protection.
Do not eat, drink or smoke when using this product.
Wash hands thoroughly after handling.
Take off contaminated clothing and wash it before reuse.
Dispose of unused contents, container, and other contaminated wastes in accordance with local, state, federal, and provincial regulations.
If in eyes: Rinse cautiously with water for several minutes and remove contacts if present and easy to do. Continue rinsing and get medical attention if eye irritation persists.
If on skin: Wash with plenty of soap and water.
If swallowed: Rinse mouth and get medical attention if you feel unwell.

Emergency Overview: Irritant.

Route of Exposure: Eyes. Skin. Inhalation. Ingestion.

Potential Health Effects:

Eye: Causes eye irritation.

Skin: Causes skin irritation.

Inhalation: Prolonged or excessive inhalation may cause respiratory tract irritation.

Ingestion: May be harmful if swallowed. May cause vomiting.

Chronic Health Effects: Prolonged or repeated contact may cause skin irritation.

Signs/Symptoms: Overexposure may cause headaches and dizziness.

Target Organs: Eyes. Skin. Respiratory system. Digestive system.

Aggravation of Pre-Existing Conditions: None generally recognized.

SECTION 3 : COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS#	Ingredient Percent	EC Num.
Titanium dioxide	13463-67-7	5 - 10 by weight	
Nepheline Syenite	37244-96-5	5 - 10 by weight	

SECTION 4 : FIRST AID MEASURES

Eye Contact:	Immediately flush eyes with plenty of water for at least 15 to 20 minutes. Ensure adequate flushing of the eyes by separating the eyelids with fingers. Remove contacts if present and easy to do. Continue rinsing. Get medical attention, if irritation or symptoms of overexposure persists.
Skin Contact:	Immediately wash skin with soap and plenty of water. Get medical attention if irritation develops or persists.
Inhalation:	If inhaled, remove to fresh air. If not breathing, give artificial respiration or give oxygen by trained personnel. Seek immediate medical attention.
Ingestion:	If swallowed, do NOT induce vomiting. Call a physician or poison control center immediately. Never give anything by mouth to an unconscious person.

SECTION 5 : FIRE FIGHTING MEASURES

Flash Point:	None.
Lower Flammable/Explosive Limit:	Not applicable.
Upper Flammable/Explosive Limit:	Not applicable.
Extinguishing Media:	Use alcohol resistant foam, carbon dioxide, dry chemical, or water fog or spray when fighting fires involving this material.
Protective Equipment:	As in any fire, wear Self-Contained Breathing Apparatus (SCBA), MSHA/NIOSH (approved or equivalent) and full protective gear.
NFPA Ratings:	
NFPA Health:	1
NFPA Flammability:	1
NFPA Reactivity:	0

SECTION 6 : ACCIDENTAL RELEASE MEASURES

Personal Precautions:	Evacuate area and keep unnecessary and unprotected personnel from entering the spill area. Use proper personal protective equipment as listed in Section 8.
Environmental Precautions:	Avoid runoff into storm sewers, ditches, and waterways.
Methods for containment:	Contain spills with an inert absorbent material such as soil or sand. Prevent from spreading by covering, diking or other means. Provide ventilation.
Methods for cleanup:	Clean up spills immediately observing precautions in the protective equipment section. Place into a suitable container for disposal. Provide ventilation. After removal, flush spill area with soap and water to remove trace residue.

SECTION 7 : HANDLING and STORAGE

Handling:	Use with adequate ventilation. Avoid breathing vapor and contact with eyes, skin and clothing.
Storage:	Store in a cool, dry, well ventilated area away from sources of heat, combustible materials, and incompatible substances. Keep container tightly closed when not in use.
Hygiene Practices:	Wash thoroughly after handling. Avoid contact with eyes and skin. Avoid inhaling vapor or mist.

SECTION 8: EXPOSURE CONTROLS, PERSONAL PROTECTION

Engineering Controls:	Use appropriate engineering control such as process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below recommended exposure limits. Good general ventilation should be sufficient to control airborne levels. Where such systems are not effective wear suitable personal protective equipment, which performs satisfactorily and meets OSHA or other recognized standards. Consult with local procedures for selection, training, inspection and maintenance of the personal protective equipment.
Eye/Face Protection:	Wear appropriate protective glasses or splash goggles as described by 29 CFR 1910.133, OSHA eye and face protection regulation, or the European standard EN 166.
Skin Protection Description:	Chemical-resistant gloves and chemical goggles, face-shield and synthetic apron or coveralls should be used to prevent contact with eyes, skin or clothing.
Respiratory Protection:	A NIOSH approved air-purifying respirator with an organic vapor cartridge or canister may be permissible under certain circumstances where airborne concentrations are expected to exceed exposure limits. Protection provided by air purifying respirators is limited. Use a positive pressure air supplied respirator if there is any potential for an uncontrolled release, exposure levels are not known, or any other circumstances where air purifying respirators may not provide adequate protection.
Other Protective:	Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower.
PPE Pictograms:	



EXPOSURE GUIDELINES

Titanium dioxide :

Guideline ACGIH: TLV-TWA: 10 mg/m3

SECTION 9 : PHYSICAL and CHEMICAL PROPERTIES

Physical State:	Liquid.
Color:	White
Odor:	Slight.
Odor Threshold:	Not applicable.
Boiling Point:	>99°F (>37°C)
Melting Point:	Not applicable.
Density:	9.72
Solubility:	Not applicable.
Vapor Density:	Not applicable.
Vapor Pressure:	Not applicable.
Evaporation Rate:	Not applicable.
pH:	7 - 10
Viscosity:	50-140
Coefficient of Water/Oil Distribution:	Not applicable.
Flammability:	Not applicable.
Flash Point:	None.
VOC Content:	48

SECTION 10 : STABILITY and REACTIVITY

Chemical Stability:	Stable under normal temperatures and pressures.
Hazardous Polymerization:	Not reported.
Conditions to Avoid:	Heat, flames, incompatible materials, and freezing or temperatures below 32 deg. F.
Incompatible Materials:	Oxidizing agents. Strong acids and alkalis.

SECTION 11 : TOXICOLOGICAL INFORMATION

Eye:	No relevant toxicological data for classification were found.
Skin:	No relevant toxicological data for classification were found.
Inhalation:	No relevant toxicological data for classification were found.
Ingestion:	No relevant toxicological data for classification were found.
<u>Titanium dioxide :</u>	
Chronic Effects:	Causes damage to organs through prolonged or repeated exposure to particulates or powder. Normal application procedures for this product pose no hazard as to the release of respirable titanium dioxide dust.
Carcinogenicity:	IARC: Group 2B: Possibly carcinogenic to humans. Based on Inhalation studies in rats exposed to fine or ultrafine particles (dust) of titanium dioxide.

SECTION 12 : ECOLOGICAL INFORMATION

Ecotoxicity:	No ecotoxicity data was found for the product.
Environmental Fate:	No environmental information found for this product.

SECTION 13 : DISPOSAL CONSIDERATIONS

Waste Disposal:	Consult with the US EPA Guidelines listed in 40 CFR Part 261.3 for the classifications of hazardous waste prior to disposal. Furthermore, consult with your state and local waste requirements or guidelines, if applicable, to ensure compliance. Arrange disposal in accordance to the EPA and/or state and local guidelines.
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SECTION 14 : TRANSPORT INFORMATION

DOT Shipping Name:	Not restricted as a dangerous good.
DOT UN Number:	Not restricted as a dangerous good.
IATA Shipping Name:	Not restricted as a dangerous good.

IATA UN Number:	Not restricted as a dangerous good.
Canadian Shipping Name:	Not restricted as a dangerous good.
Canadian UN Number:	Not restricted as a dangerous good.
IMDG UN Number :	Not restricted as a dangerous good.
IMDG Shipping Name :	Not restricted as a dangerous good.
ADR UN Number:	Not restricted as a dangerous good.
ADR Shipping Name :	Not restricted as a dangerous good.

SECTION 15 : REGULATORY INFORMATION

Titanium dioxide :

TSCA Inventory Status:	Listed
Canada DSL:	Listed

Nepheline Syenite :

Canada DSL:	Listed
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SECTION 16 : ADDITIONAL INFORMATION

HMIS Ratings:

HMIS Health Hazard:	1
HMIS Fire Hazard:	1
HMIS Reactivity:	0
HMIS Other:	x

SDS Creation Date:	February 05, 2014
SDS Revision Date:	February 29, 2016
SDS Revision Notes:	"Quarterly formula update"
SDS Format:	
SDS Author:	Actio Corporation

Disclaimer: This Health and Safety Information is correct to the best of our knowledge and belief at the date of its publication but we cannot accept liability for any loss, injury or damage which may result from its use. We shall ensure, so far as is reasonably practicable, that any revision of this Data Sheet is sent to all customers to whom we have directly supplied this substance, but must point out that it is the responsibility of any intermediate supplier to ensure that such revision is passed to the ultimate user. The information given in the Data Sheet is designed only as a guidance for safe handling, storage and the use of the substance. It is not a specification nor does it guarantee any specific properties. All chemicals should be handled only by competent personnel, within a controlled environment. Should further information be required, this can be obtained through the sales office whose address is at the top of this data sheet.

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1. Identification

Product identifier	BEHR PREMIUM PLUS Interior/Exterior Hi-Gloss Enamel - Ultra Pure White	
Other means of identification		
Product code	8150	
Recommended use	Architectural Coating	
Recommended restrictions	Uses other than the recommended use.	
Manufacturer/Importer/Supplier/Distributor information		
Supplier	Behr Process LLC	
	1801 E. St. Andrew Place	
	Santa Ana, CA 92705	
Telephone	714-545-7101	
Emergency telephone	+1 760 476 3962	
	+1 866 519 4752	
Access code	335213	

2. Hazard(s) identification

Physical hazards	Not classified.	
Health hazards	Sensitization, skin	Category 1
OSHA defined hazards	Not classified.	
Label elements		



Signal word	Warning
Hazard statement	May cause an allergic skin reaction.
Precautionary statement	
Prevention	Avoid breathing mist/vapors. Contaminated work clothing must not be allowed out of the workplace. Wear protective gloves.
Response	If on skin: Wash with plenty of water. Wash contaminated clothing before reuse. If skin irritation or rash occurs: Get medical advice/attention.
Storage	Not assigned.
Disposal	Dispose of contents/container in accordance with local/regional/national/international regulations.
Hazard(s) not otherwise classified (HNOC)	None known.
Supplemental information	None.

3. Composition/information on ingredients

Mixtures

Chemical name	CAS number	%
Titanium dioxide	13463-67-7	10 - 30
2-Butoxyethyl benzoate	5451-76-3	0.5 - 1.5
Aluminum hydroxide	21645-51-2	0.5 - 1.5
Silicon dioxide, crystalline silica-free	7631-86-9	0.5 - 1.5
Trimethylolpropane	77-99-6	0.1 - 1
2-Methyl-2H-isothiazol-3-one	2682-20-4	0 - 0.1

Chemical name	CAS number	%
5-Chloro-2-methyl-2H-isothiazol-3-one	26172-55-4	0 - 0.1
Composition comments	All concentrations are in percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume. The manufacturer has claimed the exact percentage as trade secret under the OSHA Hazard Communication Standard.	
4. First-aid measures		
Inhalation	Move to fresh air. Call a physician if symptoms develop or persist.	
Skin contact	Remove contaminated clothing immediately and wash skin with soap and water. In case of eczema or other skin disorders: Seek medical attention and take along these instructions.	
Eye contact	Rinse with water. Get medical attention if irritation develops and persists.	
Ingestion	Rinse mouth. Get medical attention if symptoms occur.	
Most important symptoms/effects, acute and delayed	May cause an allergic skin reaction. Dermatitis. Rash.	
Indication of immediate medical attention and special treatment needed	Provide general supportive measures and treat symptomatically. Keep victim under observation. Symptoms may be delayed.	
General information	Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Wash contaminated clothing before reuse.	
5. Fire-fighting measures		
Suitable extinguishing media	Water fog. Foam. Dry chemical powder. Carbon dioxide (CO2).	
Unsuitable extinguishing media	Do not use water jet as an extinguisher, as this will spread the fire.	
Specific hazards arising from the chemical	During fire, gases hazardous to health may be formed.	
Special protective equipment and precautions for firefighters	Self-contained breathing apparatus and full protective clothing must be worn in case of fire.	
Fire fighting equipment/instructions	Move containers from fire area if you can do so without risk.	
Specific methods	Use standard firefighting procedures and consider the hazards of other involved materials.	
General fire hazards	No unusual fire or explosion hazards noted.	
6. Accidental release measures		
Personal precautions, protective equipment and emergency procedures	Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Wear appropriate protective equipment and clothing during clean-up. Avoid breathing mist/vapors. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.	
Methods and materials for containment and cleaning up	Prevent product from entering drains. Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Absorb in vermiculite, dry sand or earth and place into containers. Following product recovery, flush area with water. Small Spills: Absorb spillage with suitable absorbent material. Clean surface thoroughly to remove residual contamination. Never return spills to original containers for re-use. For waste disposal, see section 13 of the SDS.	
Environmental precautions	Avoid release to the environment. Inform appropriate managerial or supervisory personnel of all environmental releases. Prevent further leakage or spillage if safe to do so. Avoid discharge into drains, water courses or onto the ground.	
7. Handling and storage		
Precautions for safe handling	Avoid breathing mist/vapors. Avoid contact with eyes, skin, and clothing. Avoid prolonged exposure. Persons susceptible to allergic reactions should not handle this product. Provide adequate ventilation. Wear appropriate personal protective equipment. Avoid release to the environment. Observe good industrial hygiene practices.	

Conditions for safe storage, including any incompatibilities Store in tightly closed container. Store away from incompatible materials (see Section 10 of the SDS).

8. Exposure controls/personal protection

Occupational exposure limits

U.S. - OSHA

Components	Type	Value
Silicon dioxide, crystalline silica-free (CAS 7631-86-9)	TWA	80 mg/m3

US. OSHA Table Z-1 Permissible Exposure Limits (PEL) for Air Contaminants (29 CFR 1910.1000)

Components	Type	Value	Form
Titanium dioxide (CAS 13463-67-7)	PEL	15 mg/m3	Total dust.

US. OSHA Table Z-3 Permissible Exposure Limits (PEL) for Mineral Dusts (29 CFR 1910.1000)

Components	Type	Value	Form
Silicon dioxide, crystalline silica-free (CAS 7631-86-9)	TWA	5 mg/m3	Respirable fraction.
		15 mg/m3	Total dust.
		20 mppcf	

US. ACGIH Threshold Limit Values (TLV)

Components	Type	Value	Form
Aluminum hydroxide (CAS 21645-51-2)	TWA	1 mg/m3	Respirable fraction.
Titanium dioxide (CAS 13463-67-7)	TWA	2.5 mg/m3	Respirable finescale particles
		0.2 mg/m3	Respirable nanoscale particles

NIOSH. Immediately Dangerous to Life or Health (IDLH) Values, as amended

Components	Type	Value
Silicon dioxide, crystalline silica-free (CAS 7631-86-9)	IDLH	3000 mg/m3
Titanium dioxide (CAS 13463-67-7)	IDLH	5000 mg/m3

US. NIOSH: Pocket Guide to Chemical Hazards

Components	Type	Value
Silicon dioxide, crystalline silica-free (CAS 7631-86-9)	TWA	6 mg/m3

Biological limit values No biological exposure limits noted for the ingredient(s).

Appropriate engineering controls Good general ventilation should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level.

Individual protection measures, such as personal protective equipment

Eye/face protection Wear safety glasses with side shields (or goggles). Face shield is recommended.

Skin protection

Hand protection Wear appropriate chemical resistant gloves.

Skin protection

Other Wear appropriate chemical resistant clothing. Use of an impervious apron is recommended.

Respiratory protection If airborne concentrations are above the applicable exposure limits, use NIOSH approved respiratory protection. Chemical respirator with organic vapor cartridge and full facepiece. Use a positive-pressure air-supplied respirator if there is any potential for an uncontrolled release, exposure levels are not known, or any other circumstances where air-purifying respirators may not provide adequate protection. In the United States of America, if respirators are used, a program should be instituted to assure compliance with OSHA 29 CFR 1910.134.

Thermal hazards Wear appropriate thermal protective clothing, when necessary.

General hygiene considerations

Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants. Contaminated work clothing should not be allowed out of the workplace.

9. Physical and chemical properties**Appearance**

Physical state Liquid.

Form Liquid.

Color White.

Odor Slight.

Odor threshold Not available.

pH 7 - 10

Melting point/freezing point Not available.

Initial boiling point and boiling range Not available.

Flash point Not applicable.

Evaporation rate Not available.

Flammability (solid, gas) Not applicable.

Upper/lower flammability or explosive limits

Explosive limit - lower (%) Not available.

Explosive limit - upper (%) Not available.

Vapor pressure Not available.

Vapor density Not available.

Relative density Not available.

Solubility(ies)

Solubility (water) Not available.

Partition coefficient (n-octanol/water) Not applicable.

Auto-ignition temperature Not available.

Decomposition temperature Not available.

Viscosity 50 - 140 KU

Other information

Density 10.27 lb/gal

Explosive properties Not explosive.

Oxidizing properties Not oxidizing.

VOC 47 g/l (excluding water) (Coating)
17 g/l (including water) (Material)

10. Stability and reactivity

Reactivity The product is stable and non-reactive under normal conditions of use, storage and transport.

Chemical stability Material is stable under normal conditions.

Possibility of hazardous reactions No dangerous reaction known under conditions of normal use.

Conditions to avoid Contact with incompatible materials.

Incompatible materials Strong oxidizing agents.

Hazardous decomposition products No hazardous decomposition products are known.

11. Toxicological information**Information on likely routes of exposure**

Inhalation Prolonged inhalation may be harmful.

Skin contact May cause an allergic skin reaction.

Eye contact	Direct contact with eyes may cause temporary irritation.	
Ingestion	May cause discomfort if swallowed.	
Symptoms related to the physical, chemical and toxicological characteristics	May cause an allergic skin reaction. Dermatitis. Rash.	
Information on toxicological effects		
Acute toxicity	Not expected to be acutely toxic.	
Components	Species	Test Results
Aluminum hydroxide (CAS 21645-51-2)		
<u>Acute</u>		
Oral		
LD50	Rat	> 5000 mg/kg
Silicon dioxide, crystalline silica-free (CAS 7631-86-9)		
<u>Acute</u>		
Dermal		
LD50	Rabbit	> 5000 mg/kg, 24 Hours
Inhalation		
Dust		
LC50	Rat	> 0.14 mg/l, 4 Hours
Oral		
LD50	Rat	> 3300 mg/kg
Titanium dioxide (CAS 13463-67-7)		
<u>Acute</u>		
Oral		
LD50	Rat	> 5000 mg/kg
Trimethylolpropane (CAS 77-99-6)		
<u>Acute</u>		
Dermal		
LD50	Rabbit	> 5000 mg/kg
Inhalation		
Mist		
LC50	Rat	> 0.85 mg/l, 4 Hours
Oral		
LD50	Rat	> 5000 mg/kg
Skin corrosion/irritation	Prolonged skin contact may cause temporary irritation.	
Serious eye damage/eye irritation	Direct contact with eyes may cause temporary irritation.	
Respiratory or skin sensitization		
Respiratory sensitization	Not a respiratory sensitizer.	
Skin sensitization	May cause an allergic skin reaction.	
Germ cell mutagenicity	No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.	
Carcinogenicity	Not classifiable as to carcinogenicity to humans. Inhalation of titanium dioxide dust may cause cancer, however due to the physical form of the product, inhalation of dust is not likely.	
IARC Monographs. Overall Evaluation of Carcinogenicity		
Silicon dioxide, crystalline silica-free (CAS 7631-86-9)		3 Not classifiable as to carcinogenicity to humans.
Titanium dioxide (CAS 13463-67-7)		2B Possibly carcinogenic to humans.
NTP Report on Carcinogens		
Not listed.		
OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053)		
Not listed.		
Reproductive toxicity	This product is not expected to cause reproductive or developmental effects.	

Specific target organ toxicity - single exposure	Not classified.
Specific target organ toxicity - repeated exposure	Not classified.
Aspiration hazard	Not an aspiration hazard.
Chronic effects	Prolonged inhalation may be harmful.

12. Ecological information

Ecotoxicity	Toxic to aquatic life with long lasting effects.
Persistence and degradability	No data is available on the degradability of this product.
Bioaccumulative potential	No data available.
Mobility in soil	No data available.
Other adverse effects	No data available.

13. Disposal considerations

Disposal instructions	Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Do not allow this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches with chemical or used container. Dispose of contents/container in accordance with local/regional/national/international regulations.
Local disposal regulations	Dispose in accordance with all applicable regulations.
Hazardous waste code	The waste code should be assigned in discussion between the user, the producer and the waste disposal company.
Waste from residues / unused products	Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner.
Contaminated packaging	Since emptied containers may retain product residue, follow label warnings even after container is emptied. Empty containers should be taken to an approved waste handling site for recycling or disposal.

14. Transport information

DOT

Not regulated as dangerous goods.

IATA

Not regulated as dangerous goods.

IMDG

Not regulated as dangerous goods.

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code Not established.

15. Regulatory information

US federal regulations This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

2-Methyl-2H-isothiazol-3-one (CAS 2682-20-4)	1.0 % One-Time Export Notification only.
5-Chloro-2-methyl-2H-isothiazol-3-one (CAS 26172-55-4)	1.0 % One-Time Export Notification only.

CERCLA Hazardous Substance List (40 CFR 302.4)

2-Butoxyethyl benzoate (CAS 5451-76-3)	Listed
Ammonium hydroxide (CAS 1336-21-6)	Listed
Carbendazim (CAS 10605-21-7)	Listed
Diuron (CAS 330-54-1)	Listed
Sodium nitrite (CAS 7632-00-0)	Listed

SARA 304 Emergency release notification

Ammonium hydroxide (CAS 1336-21-6)	100 LBS
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OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053)

Not listed.

Toxic Substances Control Act (TSCA)

All components are listed on or exempt from the U.S. EPA TSCA Inventory List.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

SARA 302 Extremely hazardous substance

Chemical name	CAS number	Reportable quantity (pounds)	Threshold planning quantity (pounds)	Threshold planning quantity, lower value (pounds)	Threshold planning quantity, upper value (pounds)
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Ammonium hydroxide	1336-21-6	100	500		
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SARA 311/312 Hazardous chemical Yes

Classified hazard categories Respiratory or skin sensitization

SARA 313 (TRI reporting)

Not regulated.

Other federal regulations

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

2-Butoxyethyl benzoate (CAS 5451-76-3)

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Ammonium hydroxide (CAS 1336-21-6)

Safe Drinking Water Act (SDWA) Contains component(s) regulated under the Safe Drinking Water Act.

US state regulations

US. Massachusetts RTK - Substance List

Ammonium hydroxide (CAS 1336-21-6)

Diuron (CAS 330-54-1)

Silicon dioxide, crystalline silica-free (CAS 7631-86-9)

Sodium nitrite (CAS 7632-00-0)

Titanium dioxide (CAS 13463-67-7)

US. New Jersey Worker and Community Right-to-Know Act

2-Butoxyethyl benzoate (CAS 5451-76-3)

3-Iodo-2-propynyl butylcarbamate (CAS 55406-53-6)

Ammonium hydroxide (CAS 1336-21-6)

Carbendazim (CAS 10605-21-7)

Diuron (CAS 330-54-1)

Sodium nitrite (CAS 7632-00-0)

Titanium dioxide (CAS 13463-67-7)

US. Pennsylvania Worker and Community Right-to-Know Law

2-Butoxyethyl benzoate (CAS 5451-76-3)

Ammonium hydroxide (CAS 1336-21-6)

Diuron (CAS 330-54-1)

Silicon dioxide, crystalline silica-free (CAS 7631-86-9)

Sodium nitrite (CAS 7632-00-0)

Titanium dioxide (CAS 13463-67-7)

US. Rhode Island RTK

Ammonium hydroxide (CAS 1336-21-6)

Diuron (CAS 330-54-1)

Silicon dioxide, crystalline silica-free (CAS 7631-86-9)

Titanium dioxide (CAS 13463-67-7)

16. Other information, including date of preparation or last revision

Issue date 14-November-2023

Revision date 01-November-2024

Version # 02

HMIS® ratings Health: 2
Flammability: 0
Physical hazard: 0

List of abbreviations

DOT: Department of Transportation.
IATA: International Air Transport Association.
IBC Code: International Code for the Construction and Equipment of Ships Carrying Dangerous Chemicals in Bulk.
IDLH: Immediately Dangerous To Life or Health.
IMDG: International Maritime Dangerous Goods.
LC50: Lethal Concentration 50%.
LD50: Lethal Dose, 50%.
MARPOL: International Convention for the Prevention of Pollution from Ships.
PEL: Permissible Exposure Limit.
TWA: Time Weighted Average.

References

HSDB® - Hazardous Substances Data Bank

Disclaimer

Behr Process LLC cannot anticipate all conditions under which this information and its product, or the products of other manufacturers in combination with its product, may be used. It is the user's responsibility to ensure safe conditions for handling, storage and disposal of the product, and to assume liability for loss, injury, damage or expense due to improper use. The information in the sheet was written based on the best knowledge and experience currently available.



C-36E Floor Primer

SECTION 1: Identification

Trade Name: Tarkett C-36E

Product Class: Floor Primer

SECTION 3: Composition/Information on Ingredients

Description: Water-based Acrylic Dispersion, Trade Secret

SECTION 4: First-Aid Measures

Eye contact may cause irritation. In case of eye contact, flush with water for 10-15 minutes. If irritation persists, consult a physician. Skin Contact: prolonged contact may cause slight irritation of the skin. Wash with soap and water. If swallowed, consult a physician. Inhalation: if symptomatic, move to fresh air. Get medical attention if symptoms occur.

SECTION 6: Accidental Release Measures

Spills: Cover small spills with inert absorbent, then sweep up and place in waste disposal container. Residual product while still wet can be cleaned up with warm soapy water. Do not flush unused contents or residue down drains. Contain spill, preventing it from entering sewer lines or waterways.

SECTION 7: Handling and Storage

Store inside at a temperature of 65°- 90° F. Do not allow product to freeze. Shelf life is one year.

SECTION 8: Exposure Controls/Personal Protection

Ventilation: Local ventilation.

Protective Gloves: Recommended.

Eye Protection: Safety glasses.

Hygienic Practices: Wash with soap and water after exposure.

Respiratory Protection: Not required with adequate ventilation.

Other Protective Equipment: None.

Work Site Environment: Initially there may be a potential adverse impact in indoor air quality within the general work area during the installation process. Therefore you should advise the building manager or other appropriate persons that (1) it will be necessary to establish and maintain adequate ventilation of the work area without causing the entry of unwanted odors to other parts of the building and (2) persons who are sensitive to odors and/or chemicals should be advised to avoid the work area during this process.

SECTION 11: Toxicological Information

Not available

SECTION 13: Disposal Considerations

Dispose of in accordance with Federal, State and Local regulations.

SECTION 15: Regulatory Information

This product does not contain chemicals subject to the reporting requirements of Section 313 of SARA Title III and 40 CFR 372. All components are in compliance with the inventory listing requirements of the U.S. TSCA Inventory. This product does not contain asbestos.

Safety Data Sheet



SECTION 2: Hazard Identification

GHS Classification-Not a hazardous substance or mixture

GHS Label Element-Not a hazardous substance or mixture

Other Hazards

None known if used according to instruction. Irritation may occur when in contact with eyes and skin.

SECTION 5: Fire-fighting Measures

Flammability Classification: OSHA: None. DOT: None.

Hazardous Decomposition Products: Carbon monoxide, carbon dioxide, and other gases that are common to thermal degradation of organic compounds.

Extinguishing Media: Water, CO₂, Dry Chemical, Foam.

Wear self-contained breathing gear when in confined area.

Containers may burst in heat of fire. Material may splatter if temperature exceeds 212°F. Use water to cool fire-exposed containers. Dry material can burn.

SECTION 9: Physical and Chemical Properties

Boiling Point: 212°F

Vapor Density: Same as water. Vapor Pressure: Same as water.

Evaporation Rate: Same as water.

Flammable Limits: Non-flammable. Flash Point: > 212° F

Melting Point/Freezing Point: 32° F

Appearance and Odor: Milky blue liquid; low odor.

Odor Threshold: N/A

pH: 3.5 - 5.5

Viscosity: 5 cps Decomposition Temperature: N/A

Partition Coefficient: N/A. Auto Ignition Temperature: N/A

Weight per Gallon: 8.9 lbs.

Percent Volatile by Weight: 85-88% (as water)

Solubility in Water: Dispersible

V.O.C. Content: < 1.0 grams/liter; Compliant with SCAQMD

Rule 1168 for carpet adhesives.

SECTION 10: Stability and Reactivity

Conditions to avoid: Excessive heat or cold.

Stability: Stable.

Incompatibility: None known.

Hazardous Polymerization: Will not occur.

SECTION 12: Ecological Information

Not available

SECTION 14: Transport Information

D.O.T Hazard Class: Unregulated

SECTION 16: Other Information

Tarkett believes the data set forth herein are accurate as of the date hereof. Tarkett makes no warranty with respect thereto and expressly disclaims all liability for reliance thereon. Such data are offered solely for your consideration, investigation and verification.

24 hour Emergency - Chemtrec: 800-424-9300

International Emergency: Call (USA) 202-483-7616

Tarkett North America

Technical Services Department

1000 Vista Drive

Dalton, GA 30721

800.248.2878 Fax 706.259.2136

info@tarkettna.com

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Safety Data Sheet (SDS)

OSHA HazCom Standard 29 CFR 1910.1200(g) revised in 2012 and GHS Rev 03.

Issue date 04/30/2024

Reviewed on 04/30/2024

* 1 Identification

- **Product Identifier**
- **Trade Name:** Green Oil Base Sweep with Grit
- **Product Number:** 201
- **Relevant identified uses of the substance or mixture and uses advised against:**
- **Product Description:** A heavy product suitable for all rough surface floors not damaged by oil.
- **Details of the Supplier of the Safety Data Sheet:**
- **Manufacturer/Supplier:**
Superior Sweeps, Inc.
430 Lower Boundary Street
Macon, GA 31206
Phone: 1-800-503-2213
1-478-746-0908
- **Emergency telephone number:** 1-800-503-2213

* 2 Hazard(s) Identification

- **Classification of the substance or mixture:**
Eye Irritation 2B H320 Causes eye irritation.
- **Label elements:**
- **Hazard pictograms:** Non-Regulated Material
- **Signal word:** Warning
- **Hazard statements:**
H320 Causes eye irritation.
- **Precautionary statements:**
P264+P265 Wash thoroughly after handling. Do not touch eyes.
P305+P351+P338 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P337+P317 If eye irritation persists: Get medical help.
- **Unknown acute toxicity:**
This value refers to knowledge of known, established toxicological or ecotoxicological values.
6 % of the mixture consists of component(s) of unknown toxicity.
- **Classification system:** NFPA/HMIS Definitions: 0-Least, 1-Slight, 2-Moderate, 3-High, 4-Extreme
- **NFPA ratings (scale 0 - 4)**



Health = 1
Fire = 0
Reactivity = 0

- **HMIS-ratings (scale 0 - 4)**



Health = *1
Fire = 0
Physical Hazard = 0

- **Hazard(s) not otherwise classified (HNOC):** None known

* 3 Composition/Information on Ingredients

- **Chemical characterization: Substance**
- **Description:** Mixture of substances listed below with non-hazardous additions.

(Contd. on page 2)

Safety Data Sheet (SDS)

OSHA HazCom Standard 29 CFR 1910.1200(g) revised in 2012 and GHS Rev 03.

Issue date 04/30/2024

Reviewed on 04/30/2024

Trade Name: Green Oil Base Sweep with Grit

· Dangerous Components:		
CAS: 14808-60-7 RTECS: VV 7330000	Quartz (SiO ₂) ⚠ Carcinogenicity 1A, H350; Specific Target Organ Toxicity - Repeated Exposure 1, H372; ⚠ Acute Toxicity - Inhalation 4, H332; Specific Target Organ Toxicity - Single Exposure 3, H335; Eye Irritation 2B, H320	40-60%

· Additional information:

The exact percentages of the ingredients of this mixture are considered to be proprietary and are withheld in accordance with the provisions of paragraph (i) of §1910.1200 of 29 CFR 1910.1200 Trade Secrets.

* 4 First-Aid Measures

· Description of first aid measures

· General information: If symptoms persist, call a physician.

· After inhalation: Supply fresh air; consult doctor in case of complaints.

· After skin contact: If skin irritation occurs, consult a doctor.

· After eye contact:

Rinse opened eye for at least 15 minutes under running water. If symptoms persist, consult a doctor.
If easy to do so, remove contact lenses if worn.

· After swallowing: If swallowed and symptoms occur, consult a doctor.

· Information for doctor

· Most important symptoms and effects, both acute and delayed:

Quartz: Can cause silicosis, a fibrosis (scarring) of the lungs. Silicosis may be progressive; it may lead to disability and death; inhaled from occupational sources is classified as carcinogenic to humans. Some studies show in workers exposed to respirable quartz excess numbers of cases of scleroderma, connective tissue disorders, lupus, rheumatoid arthritis, chronic kidney diseases and end-stage kidney disease, chronic bronchitis and emphysema.

· Indication of any immediate medical attention and special treatment needed:

No further relevant information available.

* 5 Fire-Fighting Measures

· Extinguishing media

· Suitable extinguishing agents: Use fire fighting measures that suit the environment.

· For safety reasons unsuitable extinguishing agents: No further relevant information.

· Special hazards arising from the substance or mixture: No further relevant information available.

· Advice for firefighters

· Special protective equipment for firefighters:

As in any fire, wear self-contained breathing apparatus pressure-demand (NIOSH approved or equivalent) and full protective gear to prevent contact with skin and eyes.

* 6 Accidental Release Measures

· Personal precautions, protective equipment and emergency procedures: Not required.

· Environmental precautions: No special measures required.

· Methods and material for containment and cleaning up:

Dispose of the collected material according to regulations.

· Reference to other sections:

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

· PAC-1:		
14808-60-7	Quartz (SiO ₂)	0.075 mg/m ³

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Safety Data Sheet (SDS)

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Reviewed on 04/30/2024

Trade Name: Green Oil Base Sweep with Grit

64742-52-5	Distillates (petroleum), hydrotreated heavy naphthenic	140 mg/m ³
· PAC-2:		
14808-60-7	Quartz (SiO ₂)	33 mg/m ³
64742-52-5	Distillates (petroleum), hydrotreated heavy naphthenic	1,500 mg/m ³
· PAC-3:		
14808-60-7	Quartz (SiO ₂)	200 mg/m ³
64742-52-5	Distillates (petroleum), hydrotreated heavy naphthenic	8,900 mg/m ³

7 Handling and Storage

- **Handling**
- **Precautions for safe handling:** No special precautions are necessary if used correctly.
- **Information about protection against explosions and fires:** No special measures required.
- **Conditions for safe storage, including any incompatibilities**
- **Storage**
- **Requirements to be met by storerooms and receptacles:** Store in the original container.
- **Information about storage in one common storage facility:** Not required.
- **Further information about storage conditions:** Keep receptacle tightly sealed.
- **Specific end use(s):** No further relevant information available.

* 8 Exposure Controls/Personal Protection

- **Additional information about design of technical systems:** No further data; see section 7.
- **Control parameters:**

· Components with occupational exposure limits:

14808-60-7 Quartz (SiO₂)

PEL	Long-term value: 0.05* mg/m ³ *resp. dust; 30mg/m ³ /%SiO ₂ +2
REL	Long-term value: 0.05* mg/m ³ *respirable dust; See Pocket Guide App. A
TLV	Long-term value: 0.025* mg/m ³ *respirable particulate matter, A2

- **Additional information:** The lists that were valid during the creation of this SDS were used as basis.
- **Exposure controls:**
- **Personal protective equipment**
- **General protective and hygienic measures:**
Keep away from foodstuffs, beverages and feed.
Immediately remove all soiled and contaminated clothing and wash before reuse.
Wash hands before breaks and at the end of work.
Avoid contact with the eyes.
Avoid contact with the eyes and skin.
- **Breathing equipment:** Not required.
- **Protection of hands:** Not required.
- **Material of gloves:** Not applicable.
- **Penetration time of glove material:** Not applicable.

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Reviewed on 04/30/2024

Trade Name: Green Oil Base Sweep with Grit

· **Eye protection:**



Tightly sealed goggles

· **Limitation and supervision of exposure into the environment:** None

* 9 Physical and Chemical Properties

· **Information on basic physical and chemical properties**

· **General Information**

· **Appearance:**

Form:

Solid material

Color:

Green

· **Odor:**

Petroleum-like

· **Odor threshold:**

Not determined.

· **pH-value:**

Not applicable.

· **Change in condition**

Melting point/Melting range:

Not determined.

Boiling point/Boiling range:

Not determined.

· **Flash point:**

None

· **Flammability (solid, gaseous):**

Not determined.

· **Auto igniting:**

Not applicable

· **Decomposition temperature:**

Not determined.

· **Ignition temperature:**

Product is not self-igniting.

· **Danger of explosion:**

Product does not present an explosion hazard.

· **Explosion limits:**

Lower:

Not determined.

Upper:

Not determined.

· **Vapor pressure @ 20 °C (68 °F):**

≤23 hPa (≤17.3 mm Hg)

· **Density:**

Not determined.

· **Relative density:**

Not determined.

· **Vapor density:**

Not applicable.

· **Evaporation rate:**

Not applicable.

· **Solubility in / Miscibility with:**

Water:

Soluble.

· **Partition coefficient (n-octanol/water):** Not determined.

· **Viscosity:**

Dynamic:

Not applicable.

Kinematic:

Not applicable.

· **Solvent content:**

VOC content:

0.00 %

· **Other information:**

No further relevant information available.

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Reviewed on 04/30/2024

Trade Name: Green Oil Base Sweep with Grit

* 10 Stability and Reactivity

- **Reactivity:** Avoid strong oxidizing agents.
- **Chemical stability:** Stable under normal conditions.
- **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
- **Possibility of hazardous reactions:** No dangerous reactions known.
- **Conditions to avoid:** No further relevant information available.
- **Incompatible materials:**
Strong oxidizing agents.
Contact with fluorine, oxygen difluoride, and chlorine trifluoride will cause fire.
- **Hazardous decomposition products:** No dangerous decomposition products known.

* 11 Toxicological Information

- **Information on toxicological effects:**
- **Acute toxicity:**

· **LD/LC50 values that are relevant for classification:**

14808-60-7 Quartz (SiO₂)

Oral	LD50	>22,500 mg/kg (Rat) mg/kg (rabbit)
Inhalative	LC50/96 hours	1,033 mg/l (Trout)

- **Primary irritant effect:**
- **On the skin:** No irritating effect.
- **On the eye:** Irritating effect.
- **Additional toxicological information:**
The product shows the following dangers according to internally approved calculation methods for preparations:
Irritant

- **Carcinogenic categories:**
- **IARC (International Agency for Research on Cancer):**

Group 1 - Carcinogenic to humans
Group 2A - Probably carcinogenic to humans
Group 2B - Possibly carcinogenic to humans
Group 3 - Not classifiable as to its carcinogenicity to humans
Group 4 - Probably not carcinogenic to humans

"In 1997, IARC (the International Agency for Research on Cancer) concluded that crystalline silica inhaled from occupational sources can cause lung cancer in humans. However in making the overall evaluation, IARC noted that "carcinogenicity was not detected in all industrial circumstances studied. Carcinogenicity may be dependent on inherent characteristics of the crystalline silica or on external factors affecting its biological activity or distribution of its polymorphs." (IARC Monographs on the evaluation of the carcinogenic risks of chemicals to humans, Silica, silicate dust and organic fibres, 1997, Vol. 68, IARC, Lyon, France.) In June 2003, SCOEL (the EU Scientific Committee on Occupational Exposure Limits) concluded that the main effect in humans of the inhalation of respirable crystalline silica dust is silicosis. "There is sufficient information to conclude that the relative risk of lung cancer is increased in persons with silicosis (and, apparently, not in employees without silicosis exposed to silica dust in quarries and in the ceramic industry). Therefore, preventing the onset of silicosis will also reduce the cancer risk." (SCOEL SUM Doc 94-final, June 2003) According to the current state of the art, worker protection against silicosis can be consistently assured by respecting the existing regulatory occupational exposure limits. May cause cancer. Occupational exposure to respirable dust and respirable crystalline silica should be monitored and controlled"

14808-60-7 Quartz (SiO₂)

1

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· **NTP (National Toxicology Program):**

14808-60-7 Quartz (SiO₂)

K

· **OSHA-Ca (Occupational Safety & Health Administration):**

None of the ingredients are listed.

* 12 Ecological Information

· **Toxicity:**

· **Aquatic toxicity:**

14808-60-7 Quartz (SiO₂)

EC50 218 mg/l (Green algae)

· **Persistence and degradability:** No further relevant information available.

· **Behavior in environmental systems:**

· **Bioaccumulative potential:** No further relevant information available.

· **Mobility in soil:** No further relevant information available.

· **Additional ecological information:**

· **General notes:**

Do not allow product to reach ground water, water course or sewage system.

Danger to drinking water if even small quantities leak into the ground.

· **Results of PBT and vPvB assessment:**

· **PBT:** Not applicable.

· **vPvB:** Not applicable.

· **Other adverse effects:** No further relevant information available.

* 13 Disposal Considerations

· **Waste treatment methods**

· **Recommendation:**

Observe all federal, state and local environmental regulations when disposing of this material.

· **Uncleaned packaging**

· **Recommendation:** Disposal must be made according to official regulations.

· **Recommended cleansing agent:** Water, if necessary with cleansing agents.

14 Transport Information

· **UN-Number:**

· **DOT, ADR/ADN, ADN, IMDG, IATA**

Non-Regulated Material

· **UN proper shipping name:**

· **DOT, ADR/ADN, ADN, IMDG, IATA**

Non-Regulated Material

· **Transport hazard class(es):**

· **DOT, ADR/ADN, ADN, IMDG, IATA**

· **Class:**

Non-Regulated Material

· **Packing group:**

· **DOT, ADR/ADN, IMDG, IATA**

Non-Regulated Material

· **Environmental hazards:**

Not applicable.

· **Special precautions for user:**

Not applicable.

· **Transport in bulk according to Annex II of**

MARPOL73/78 and the IBC Code:

Not applicable.

· **UN "Model Regulation":**

Non-Regulated Material

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Trade Name: Green Oil Base Sweep with Grit

*15 Regulatory Information

· **Safety, health and environmental regulations/legislation specific for the substance or mixture:**

No further relevant information available.

· **SARA (Superfund Amendments and Reauthorization):**

· **Section 355 (extremely hazardous substances):**

None of the ingredients are listed.

· **Section 313 (Specific toxic chemical listings):**

None of the ingredients are listed.

· **TSCA (Toxic Substances Control Act):**

14808-60-7	Quartz (SiO ₂)	ACTIVE
7732-18-5	Water, distilled water, deionized water	ACTIVE
64742-52-5	Distillates (petroleum), hydrotreated heavy naphthenic	ACTIVE

· **Hazardous Air Pollutants**

None of the ingredients are listed.

· **California Proposition 65:**

· **Chemicals known to cause cancer:**

14808-60-7 Quartz (SiO₂)

· **Chemicals known to cause reproductive toxicity for females:**

None of the ingredients are listed.

· **Chemicals known to cause reproductive toxicity for males:**

None of the ingredients are listed.

· **Chemicals known to cause developmental toxicity:**

None of the ingredients are listed.

· **New Jersey Right-to-Know List:**

14808-60-7 Quartz (SiO₂)

· **New Jersey Special Hazardous Substance List:**

14808-60-7 Quartz (SiO₂) CA

· **Pennsylvania Right-to-Know List:**

14808-60-7 Quartz (SiO₂)

· **Pennsylvania Special Hazardous Substance List:**

None of the ingredients are listed.

· **Carcinogenic categories:**

· **EPA (Environmental Protection Agency):**

None of the ingredients are listed.

· **TLV (Threshold Limit Value established by ACGIH):**

14808-60-7 Quartz (SiO₂) A2

· **NIOSH-Ca (National Institute for Occupational Safety and Health):**

14808-60-7 Quartz (SiO₂)

· **GHS label elements**

The product is classified and labeled according to the Globally Harmonized System (GHS).

· **Hazard pictograms:** Non-Regulated Material

· **Signal word:** Warning

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Trade Name: Green Oil Base Sweep with Grit

· **Hazard statements:**

H320 Causes eye irritation.

· **Precautionary statements:**

P264+P265 Wash thoroughly after handling. Do not touch eyes.

P305+P351+P338 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P337+P317 If eye irritation persists: Get medical help.

· **National regulations:**

The product is not subject to be labelled according with the prevailing version of the regulations on hazardous substances.

· **Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

16 Other Information

The information and recommendations in this safety data sheet are, to the best of our knowledge, accurate as of the date of issue. Nothing herein shall be deemed to create warranty, expressed or implied, and shall not establish a legally valid contractual relationship. It is the responsibility of the user to determine applicability of this information and the suitability of the material or product for any particular purpose.

· **Contact:**

· **Abbreviations and acronyms:**

ADR: The European Agreement concerning the International Carriage of Dangerous Goods by Road

ADN: The European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways

IMDG: International Maritime Code for Dangerous Goods

DOT: US Department of Transportation

IATA: International Air Transport Association

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

NFPA: National Fire Protection Association (USA)

HMIS: Hazardous Materials Identification System (USA)

VOC: Volatile Organic Compounds (USA, EU)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

NIOSH: National Institute for Occupational Safety and Health

OSHA: Occupational Safety & Health Administration

TLV: Threshold Limit Value

PEL: Permissible Exposure Limit

REL: Recommended Exposure Limit

Acute Toxicity - Inhalation 4: Acute toxicity – Category 4

Eye Irritation 2B: Serious eye damage/eye irritation – Category 2B

Carcinogenicity 1A: Carcinogenicity – Category 1A

Specific Target Organ Toxicity - Single Exposure 3: Specific target organ toxicity (single exposure) – Category 3

Specific Target Organ Toxicity - Repeated Exposure 1: Specific target organ toxicity (repeated exposure) – Category 1

· *** Data compared to the previous version altered.**

SDS created by MSDS Authoring Services www.msdsauthoring.com +1-877-204-9106



SAFETY DATA SHEET

1 - PRODUCT AND COMPANY IDENTIFICATION

Product Name CLR® CALCIUM, LIME & RUST REMOVER

Restrictions on Use Incompatible with strong oxidizing agents, metals (except stainless steel, chrome), acids, bases, and bleach.

Product Use Aqueous Acidic Cleaner for Removal of Calcium, Lime, and Rust from Hard Surfaces
Retail Package: (28 fl. oz., 128 fl. oz.)

Manufacturer: Jelmar, LLC
Address: 5550 W. Touhy Ave.
Skokie, IL 60077 USA
1(847) 675-8400

Emergency Phone Number: 1(800) 323-5497 (USA) 8:30 A.M. – 4:30 P.M. CST Monday – Friday
Emergency 24- hour Contact: Chemtrec 1(800) 424-9300

2 – HAZARDS IDENTIFICATION

COMPLIES WITH 29CFR 1900.1200 DATED MAY 2012



WARNING

ACUTE EYE IRRITATION (Category 2A)
ACUTE DERMAL IRRITATION (Category 4)

HAZARD NOT OTHERWISE CLASSIFIED (HNOC)

Not applicable

OTHER INFORMATION

No information available

DO NOT get in eyes, on skin or clothing.
DO NOT mix with bleach or other household chemicals harmful; fumes may result.
DO NOT ingest.
DO NOT breathe vapor or mist. Use in well ventilated areas. Keep container closed when not in use.

KEEP OUT OF REACH OF CHILDREN

Hazard statement(s)

Causes eye irritation
May cause mild skin irritation.



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Precautionary statement (s)

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice.

Wash skin thorough after handling.

If skin irritation or rash occurs: Get medical advice/attention.

Do not eat, drink or smoke when handling this product.

Wear protective gloves.

IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.

IF ON SKIN: Wash with plenty of soap and water.

Avoid breathing fumes.

SECTION 3 - COMPOSITION /INFORMATION ON INGREDIENTS

<u>Component</u>	<u>CAS#</u>	<u>OSHA HAZARD</u>	<u>% by Weight</u>
1. Lactic Acid	79-33-4	YES	5.00-18.00
2. Lauramine Oxide	1643-20-5	YES	1.50-7.50

The exact percentages (concentration) of mixture has been withheld as a trade secret in accordance to paragraph (i) of §1910.1200.

SECTION 4 – FIRST AID MEASURES

EYE CONTACT: In case of eye contact, immediately rinse eye thoroughly with plenty of water. Remove contact lenses, and continue rinsing for at least 15 minutes. If irritation persists, get medical attention.

SKIN CONTACT: Can be irritating to skin, prolonged contact can be more severe, no adverse effects during normal usage. In case of skin contact, rinse area for at least 15 minutes. Remove contaminated clothing and shoes, wash thoroughly before reuse. If irritation persists get medical attention.

INHALATION: Not a significant route of exposure. Remove to fresh air. If breathing is difficult, GET MEDICAL ATTENTION IMMEDIATELY.

INGESTION: DO NOT induce vomiting. If fully conscious, drink 16 ounces of water. CALL A PHYSICIAN OR POISON CONTROL CENTER IMMEDIATELY. NEVER give an unconscious person anything to ingest.

SECTION 5 – FIRE FIGHTING MEASURES

EXTINGUISHING MEDIA: Not flammable. Use appropriate media for area. Use water spray, dry chemical, alcohol-resistant foam or carbon dioxide.

HAZARDOUS COMBUSTION PRODUCTS: Carbon Monoxide. Thermal decomposition can lead to irritating gases and vapors.

FIRE FIGHTING METHODS: Evacuate area of personnel. Wear protective NIOSH-approved self-contained breathing apparatus. Remain upwind of fire to avoid hazardous vapors and decomposition products. Use water spray to cool fire-exposed containers. Run-off of large quantities of product from fire control may cause pollution. Contact appropriate agencies.

FIRE AND EXPLOSION HAZARDS: None known.

SECTION 6 – ACCIDENTAL RELEASES MEASURES

Steps to be taken in Case Material is Released or Spilled: Avoid contact with skin and eyes

Small Spill: No special clean-up procedure is necessary for small (less than 1 gallon) spills. Flush spill area with water. Wear rubber gloves.

Large Spill: Use personal protection recommended in Section 8. Isolate area, and deny entry to unnecessary and unprotected personnel. Dam spill, and absorb with earth, sand or similar material. Place in non-leaking containers. Dispose of collected material according to local, state, and federal regulations. Flush residue with large amount of water. Avoid direct discharge to sewers and surface waters.



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SECTION 7- HANDLING AND STORAGE

HANDLING and STORAGE: Avoid contact with eyes, skin or clothing. May be harmful or if swallowed. Use with adequate ventilation. Avoid breathing vapors or mist. Do not eat, drink, or smoke in work area. Wash hand thoroughly after use. Consumer size containers (28, 42 fluid ounces and gallon containers) should be rinsed and recycled. Store in cool well-ventilated area, away from heat. Keep containers tightly closed. Avoid contact with combustible materials, wood, and organic materials. Store in original containers in a secure area away from children and pets.

DO NOT MIX WITH BLEACH, OR ANY OTHER PRODUCTS AS TOXIC FUMES MAY RESULT. KEEP OUT OF REACH OF CHILDREN.

SECTION 8 – EXPOSURE CONTROLS / PERSONAL PROTECTION

EXPOSURE GUIDELINES:

<u>COMPONENT</u>	<u>OSHA</u> <u>PEL</u>	<u>STEL/C</u>	<u>ACGIH</u> <u>TWA</u>	<u>STEL/C</u>
1. Lactic Acid	N.E.	N.E.	N.E.	N.E.
2. Lauramine Oxide	N.E.	N.E.	N.E.	N.E.

VENTILATION REQUIREMENT: Avoid prolonged breathing mists or dusts of this product. Use with adequate ventilation. Do not use in closed or confined spaces.

RESPIRATORY PROTECTION: None required during normal household use. Emergency responders should wear self-contained breathing apparatus (SCBA) to avoid inhalation of product.

EYE PROTECTION: Not required during normal household usage. Do not wear contact lenses. Emergency responders should wear full eye and face protection.

SKIN PROTECTION: Rubber gloves with protective cuff. Emergency responders should wear impermeable gloves.

OTHER PROTECTION: Emergency responders should wear chemical type (impermeable) protective clothing and footwear where direct contact with chemicals in this product is possible.

WORK/HYGIENIC PRACTICES: Wash thoroughly with soap and water after use or handling.

SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Crystal clear, lime green liquid	Flammability:	Not Flammable
Odor: Slightly acidic	Upper/Lower Flammability	N.A.
Odor Threshold: N.D.	Vapor Pressure:	N.D.
pH: @20°C 2.10-2.30	Vapor Density (mm Hg):	N.D.
Melting Point: N.D.	Relative Density @20°C:	1.040 – 1.060
Freezing Point: N.D.	Solubility in water:	100%
Boiling Point: 99°C / 210°F	Partition Coefficient;	N.D.
Boiling Point Range: N.A.	n-octanol/water	
Flash Point: None	Auto Ignition Temperature:	N.A.
Evaporation Rate: N.D.	Decomposition Temperature:	N.A.
	Viscosity:	N.D.

SECTION 10 – STABILITY AND REACTIVITY

REACTIVITY: N.A.

CHEMICAL STABILITY: Stable under normal storage conditions.

POSSIBILITY OF HAZARDOUS REACTIONS: N. D.

CONDITIONS TO AVOID: Avoid elevated temperatures.

INCOMPATIBLE MATERIALS: Strong oxidizing agents, metals (except stainless steel and chrome), bleach, acids, and bases.



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HAZARDOUS DECOMPOSITION PRODUCTS: Thermal decomposition can lead to release of irritating gases, vapors and carbon oxides. In the event of fire: see Section 5.

SECTION 11 – TOXICOLOGICAL INFORMATION

Routes of Exposure Eyes, Skin, Inhalation, Ingestion.

Eyes Irritant: avoid eye contact. Effects may vary depending on length of exposure, solution concentration

Skin Mild Irritant. Prolonged contact may cause dermatitis, and itching.

Inhalation No adverse effects expected under typical use conditions.

Ingestion Oral burns, vomiting, and gastrointestinal disturbance.

LD₅₀ ACUTE EYE IRRITATION: GHS Toxicity Category 2A

LD₅₀ ACUTE DERMAL IRRITATION - RABBITS: GHS Toxicity Category 4 – Mild Skin Irritation

LD₅₀ ACUTE ORAL TOXICITY – RATS: GHS Toxicity >5,000 mg/kg

LD₅₀ ACUTE DERMAL TOXICITY - RABBITS: GHS Toxicity >5,000 mg/kg

LD₅₀ ACUTE INHALATION TOXICITY – RATS: GHS Toxicity Category 4

This product does not contain any substances that are considered carcinogenic by the National Toxicology Program (NTP) Report on Carcinogens and have not been found to be potential carcinogens in the International Agency for Research on Cancer (IARC) Monographs or found to be potential carcinogens by OSHA.

Reproductive Toxicity: N.A.

Specific Target Organ Toxicity – Single Exposure: N.A.

Specific Organ Toxicity – Repeated Dose: N. A.

SECTION 12- ECOLOGICAL INFORMATION

L- (+)-LACTIC ACID:

Ecotoxicity

Toxicity to Algae: EC50/Algae >2.8 g/L 72h Pseudokirchnerella subcapitata.
EC50/Algae 3.5 g/L 70h Pseudokirchnerella subcapitata.

Toxicity to Fish: LC50: 130 mg/L 96h Pncorhynchus mykiss
LC50: 320 mg/L 96h Danio rerio

Toxicity to Micro-organisms: LC50>100 mg/L 3h

Toxicity to daphnia and other aquatic vertebrates: EC50 130 mg/L 48h Daphnia magna
EC50 250 mg/L 48h Daphnia magna

Persistence / degradability



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Readily biodegradable.

Bioaccumulative Potential: Does not bioaccumulate.

<u>Chemical Name</u>	<u>Log Pow</u>	<u>Bioconcentration factor (BCF)</u>
L-(+)-Lactic Acid	-0.62	

Mobility in soil No information available.

PBT and vPvB assessment This substance is not considered to be persistent, bioaccumulative and toxic (PBT) or very persistent and very bioaccumulative (vPvB).

Other Adverse Effects No information available.

LAURAMINE OXIDE:

Ecotoxicity; Very toxic to aquatic life. Toxic to aquatic life with long lasting effects.

<u>Product</u>	<u>Species</u>	<u>Test Results</u>
Acute		
Algae	EC50 Algae	0.19 mg/l, 72 hours
Crustacea	EC50 Daphnia	3.1 mg/l, 48 hours
Fish	LC50 Fish	2.67 mg/l, 96 hours

Persistence and degradability: Expected to be readily biodegradable.

Bioaccumulative potential: No data available.

Mobility in soil: No data available.

SECTION 13 – DISPOSAL CONSIDERATIONS

DISPOSAL METHOD: Rinse empty containers and recycle. Dispose of unused product in a permitted hazardous waste management facility following all local, state, and federal regulations. Follow label warnings, since containers may retain some residue of the product. Processing, use or contamination of this product may change the waste management options. It is the responsibility of the waste generator to determine the toxicity and physical properties of the material generated to determine the proper waste identification and disposal methods in compliance with applicable regulations. State and local disposal regulations may differ from federal disposal regulations.

SECTION 14 - TRANSPORTATION INFORMATION

UN Number: N.A.

UN Proper Shipping Name: N.A.

DOT (Department of Transportation Proper Shipping Name): Not regulated by DOT.

Packaging Group: N.A.

TDG Classification: Not Regulated

IMDG Classification: Not Regulated

IATA Classification: Passenger – Not Regulated



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WHIMS (Canada): This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the SDS contains all the information required by CPR.

SECTION 15 – REGULATORY INFORMATION

FEDERAL REGULATIONS:

TSCA INVENTORY STATUS: All components of this product are listed on the TSCA Inventory or are exempt from TSCA Inventory requirements.

SARA TITLE III SECTION 311/312 CATEGORY:

IMMEDIATE (ACUTE) HEALTH HAZARD:	YES
DELAYED (CHRONIC) HEALTH HAZARD:	NO
FIRE HAZARD:	NO
SUDDEN RELEASE OF PRESSURE:	NO
REACTIVE HAZARD:	NO

SARA SECTIONS 302/304/313/HAP: NO

INTERNATIONAL CHEMICAL INVENTORY STATUS:

EUROPEAN UNION (EINECS)	YES
JAPAN (METI)	YES
AUSTRALIA (ACIS)	YES
KOREA (KECL)	YES
CANADA (DSL)	YES
CANADA (NDSL)	NO
PHILIPPINES	YES

STATES RIGHT TO KNOW: California, New Jersey, Pennsylvania, Minnesota, Massachusetts, and Wisconsin. Complies with listed States Right to Know Acts.

The following statement is made in order to comply with the California State Drinking Water Act. California Proposition 65: This product does not contain any chemicals known to the State of California to cause cancer and/or to cause birth defects and other reproductive harm.

SECTION 16 – OTHER INFORMATION

Precautions to be taken in Handling and Storing: Avoid exposure to excess heat, and prevent from freezing.

NFPA: 1, 0, 0. None

Total VOC (wt. %): 0% - does not include any CARB applicable exemptions (Volatile Organic Compounds)/California Air Resources board

CLR CHEMICAL FATE INFORMATION: 28-day biodegradation. The matter is readily biodegradable. OECD 301D

Other Precautions: None required.



SAFETY DATA SHEET

SDS ABBREVIATIONS:	N. A.:	Not Applicable
	N. D.:	Not Determined
	N.E.:	Not Established
	C:	Ceiling Limit
	HAP:	Hazardous Air Pollutant
	VOC:	Volatile Organic Compound

NEW LOGO

R. A. Gaudreault

Although the information and recommendations set forth herein are presented in good faith and believed to be correct as of the date hereof, JELMAR offers no representations as to the completeness or accuracy thereof. Information is provided upon the condition that the persons receiving same will make their own determination as to its suitability for their purposes prior to use. In no event will JELMAR be responsible for damages of any nature whatsoever resulting from use of or reliance upon said information.

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SAFETY DATA SHEET**Protectosil® CHEM-TRETE® BSM 400**

Material no.	Version	3.1 / US
Specification	Revision date	07/23/2015
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1. Identification**1.1. Product identifier**

Trade name	Protectosil® CHEM-TRETE® BSM 400
Chemical Name	CHEM-TRETE® BSM-400
CAS-No.	17980-47-1

1.2. Recommended use of the chemical and restrictions on use

Relevant applications identified	For industrial use
Function	Waterproofing sealer for concrete and masonry
Function	FOR PROFESSIONAL USE ONLY.
Function	Surface modifier

1.3. Details of the supplier of the safety data sheet

Company	Evonik Corporation USA 299 Jefferson Road Parsippany, NJ 07054-0677 USA
Telephone	973-929-8000
Telefax	973-929-8040
Email address	Product-Regulatory-Services@Evonik.com

1.4. 24 HOUR EMERGENCY TELEPHONE NUMBERS:

CHEMTREC - US & CANADA:	800-424-9300
CHEMTREC MEXICO:	01-800-681-9531
CHEMTREC INTERNATIONAL:	+1 703-527-3887 (collect calls accepted)
Product Regulatory Services	: 973-929-8060

2. Hazards identification**2.1. Classification of the substance or mixture**

Classification according to Regulation 29CFR 1910.1200

Flammable liquids	Category 4	H227
Skin irritation	Category 2	H315

2.2. Label elements

Statutory basis	Classification according to Regulation 29CFR 1910.1200
Symbol(s)	



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Signal word	Warning
Hazard statement	H227 - Combustible liquid. H315 - Causes skin irritation.
Precautionary statement Prevention	P210 - Keep away from heat/sparks/open flames/hot surfaces. - No smoking. P264 - Wash skin thoroughly after handling. P280 - Wear protective gloves/ eye protection/ face protection.
Precautionary statement Reaction	P302 + P352 - IF ON SKIN: Wash with plenty of water/ soap. P332 + P313 - If skin irritation occurs: Get medical advice/ attention. P362 - Take off contaminated clothing and wash before reuse. P370 + P378 - In case of fire: Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide to extinguish.
Precautionary statement Storage	P403 + P235 - Store in a well-ventilated place. Keep cool.
Precautionary statement Disposal	P501 - Dispose of contents/ container to an approved waste disposal plant.

2.3. Other hazards

None known.

3. Composition/information on ingredients

• NJTSR No.56705700001-6651P		>= 60% - <= 100%
CAS-No.	Trade Secret	
Flammable liquids		Category 4
Skin irritation		Category 2

4. First aid measures**4.1. Description of first aid measures****General advice**

Remove contaminated or saturated clothing immediately and dispose of safely.

Inhalation

If aerosol or mists are inhaled, take affected persons out into the fresh air. Possible discomforts include severe irritation of mucus lining (nose, throat, eyes), cough, sneezing and flow of tears. In case of persistent discomfort, obtain medical attention immediately.

Skin contact

Immediately wash skin with soap and plenty of water. Remove contaminated clothing and continue rinsing with water for 15-20 minutes. Obtain medical attention immediately if symptoms occur. Wash clothing before reuse.

Eye contact

In case of contact, immediately flush eyes with plenty of water, or if necessary, with eye rinsing solution. In case of persistent discomfort, consult an ophthalmologist.

Ingestion

If accidentally swallowed, rinse mouth thoroughly with water and afterwards, drink plenty of water. In case of discomfort, obtain medical attention.

4.2. Most important symptoms and effects, both acute and delayed

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Symptoms

None known

4.3. Indication of any immediate medical attention and special treatment needed

If required, therapy of irritative effect.

After absorbing large amounts of substance:
administration of activated charcoal.

Acceleration of gastrointestinal passage

5. Fire-fighting measures**5.1. Extinguishing media**

Suitable extinguishing media: water spray, Alcohol-resistant foam, Carbon dioxide (CO₂), dry powder

Unsuitable extinguishing media: High volume water jet

5.2. Special hazards arising from the substance or mixture

Combustible liquid. Vapors can travel to a source of ignition and flash back. Explosive mixtures may occur at temperatures at or above the flashpoint.

Products that may be released in case of fire: carbon monoxide, carbon dioxide.

5.3. Advice for firefighters

Containers can build up pressure if exposed to heat (fire). Cool with water spray.

As in any fire, wear self-contained positive-pressure breathing apparatus, (MSHA/NIOSH approved or equivalent) and full protective gear.

6. Accidental release measures**6.1. Personal precautions, protective equipment and emergency procedures**

Ensure adequate ventilation. Use personal protective equipment.

6.2. Environmental precautions

Obey relevant local, state, provincial and federal laws and regulations. Do not contaminate any lakes, streams, ponds, groundwater or soil.

6.3. Methods and material for containment and cleaning up

Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13).

Additional advice

Remove sources of ignition and ventilate area.

Run off may create fire or explosion hazard in sewer.

Assure sufficient ventilation.

7. Handling and storage**7.1. Precautions for safe handling**

Use in the open air or with adequate ventilation. Wear personal protective equipment; see section 8. Keep away from heat, sparks, flames and other sources of ignition. Keep container tightly closed. Use only with adequate ventilation.

Vapors may spread long distances and travel to areas away from the work site before igniting or flashing back to the vapor source.

7.2. Conditions for safe storage, including any incompatibilities

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Advice on protection against fire and explosion

Take precautionary measures against static charges, keep away from sources of ignition.

This material may have a low electrical conductivity and therefore may accumulate dangerous levels of static electricity. An ignitable vapor-air mixture can form inside storage tanks.

The user must be sure to dissipate static charge by careful bonding and grounding of all equipment and personnel involved in fluid transfer with continuity checks to prove effectiveness. Additional precautions against fire and explosion are the use of inert gas to purge vapor space; dip-pipes while filling vessels, especially lined vessels; grounded tank level floats; reduced flow velocity; self-closing valves on transfer lines and flame arrestors in vent lines.

Additional guidance on fire and explosion protection may be found in various consensus standards, including NFPA 30, 69 and 77 and API 2003 as well as OSHA regulation 29CFR1910.106.

Follow all SDS/label precautions even after container is emptied because it may retain product residues.

Storage

Keep containers tightly closed in a cool, well-ventilated place. Protect from moisture.

Residual vapors might explode on ignition; do not apply heat, cut, drill, grind or weld on or near this container.

8. Exposure controls/personal protection**8.1. Control parameters****Other information**

Contains no substances with occupational exposure limit values.

8.2. Exposure controls**Engineering measures**

Provide adequate ventilation.

Personal protective equipment**Respiratory protection**

A respiratory protection program that meets OSHA 1910.134 and ANSI Z88.2 or applicable federal/provincial requirements must be followed whenever workplace conditions warrant respirator use. NIOSH's "Respirator Decision Logic" may be useful in determining the suitability of various types of respirators.

Hand protection

Glove material for example, Polychloroprene (PCP)

Material thickness 0.5 mm

Break through time >= 480 min

Glove material for example, Fluorinated rubber (FKM)

Material thickness 0.4 mm

Break through time >= 480 min

Method Source: GESTIS substance database (hazardous substance information system of commercial professional associations)

Use impermeable gloves.

The above mentioned hand protection is based on knowledge of the chemistry and anticipated uses of this product but it may not be appropriate for all workplaces. A hazard assessment should be conducted prior to use to ensure suitability of gloves for specific work environments and processes prior to use.

Selection of protective gloves to meet the requirements of specific workplaces.

Suitability for specific workplaces should be clarified with protective glove manufacturers.

Eye protection

Use chemical splash goggles or face shield.

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Skin and body protection

A safety shower and eye wash fountain should be readily available.

To identify additional Personal Protective Equipment (PPE) requirements, it is recommended that a hazard assessment in accordance with the OSHA PPE Standard (29CFR1910.132) be conducted before using this product.

Hygiene measures

Avoid contact with skin, eyes and clothing. Do not inhale vapors or aerosols. Do not eat, drink, or smoke when using the product. Remove contaminated or saturated clothing.

9. Physical and chemical properties**9.1. Information on basic physical and chemical properties**

physical state	liquid (20 °C) (1013 hPa)
Colour	colorless
Form	liquid
Odour	Ester-like odor., fruity
Odour Threshold	not determined
pH	no data available
Melting point/range	< -72 °C (1013 hPa)
Method:	OECD TG 102
Boiling point/range	ca. 186 °C (1013 hPa)
Method:	DIN 51 751
Flash point	63 °C
Method:	DIN EN ISO 2719 (Pensky-Martens, Closed Cup)
Evaporation rate	not determined
Flammability (solid, gas)	not flammable
Method:	EEC method 92/69/EEC, A 12
Lower explosion limit	0.39 %(V) (98 °C)
Method:	DIN 51649
Upper explosion limit	8.47 %(V) (150 °C)
Method:	DIN 51649
Vapour pressure	33 Pa (20 °C)
Method:	OECD Test Guideline 104 dynamic method
	49 Pa (25 °C)
Method:	OECD Test Guideline 104 dynamic method
Vapour density	not determined
Relative density	0.88 (20 °C)
Method:	OECD Test Guideline 109

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Density ca. 0.88 g/cm³ (20 °C)
Method: DIN 51757

Water solubility Not miscible.
Decomposition by hydrolysis.

Partition coefficient: n-octanol/water log Pow: 2.033
(measured)

log Pow: > 2.03
literature

Autoignition temperature 240 °C (1013 hPa)
Method: DIN 51 794

Thermal decomposition not determined

Viscosity, dynamic not determined

Viscosity, kinematic 1.4 mm²/s (20 °C)
Method: QSAR

9.2. Other information

Explosiveness Vapors can form explosive mixtures with air.

% VOC (gm/l) 383

Metal corrosion Not to be expected in view of the structure

10. Stability and reactivity**10.1. Reactivity**

No dangerous reaction known under conditions of normal use.

10.2. Chemical stability

Stable under recommended storage conditions.

10.3. Possibility of hazardous reactions

Possibility of hazardous reactions No dangerous reactions known.

10.4. Conditions to avoid

Keep away from heat and sources of ignition.

In the presence of oxygen and heat, the ethanol forming during the reaction may produce acetaldehyde.

Material may form acetaldehyde when heated with inorganic pigments in the presence of air.

10.5. Incompatible materials

Water, oxidizing substances

10.6. Hazardous decomposition products

Ethanol in case of hydrolysis

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11. Toxicological information**11.1. Information on toxicological effects**

Acute oral toxicity	LD50 Rat: > 5000 mg/kg Method: OECD Test Guideline 401
Acute inhalation toxicity	LC50 Rat: 5.88 mg/l / 4 h / dust/mist Method: OECD Test Guideline 403 Assessment: The substance or mixture has no acute inhalation toxicity
Acute dermal toxicity	LD50 Rat: > 2000 mg/kg Method: OECD Test Guideline 402 Assessment: The substance or mixture has no acute dermal toxicity
Skin irritation	Rabbit Skin irritation Method: OECD Test Guideline 404
Eye irritation	Rabbit No eye irritation Method: OECD Test Guideline 405
Sensitization	maximization test Guinea pig: Does not cause skin sensitisation. Method: OECD Test Guideline 406
Repeated dose toxicity	Oral Rat / 28-day NOAEL: > 1000 mg/kg Method: OECD Test Guideline 407
Assessment of STOT single exposure	Assessment: The substance or mixture is not classified as specific target organ toxicant, single exposure.
Assessment of STOT repeat exposure	Assessment: The substance or mixture is not classified as specific target organ toxicant, repeated exposure.
Risk of aspiration toxicity	No aspiration toxicity classification
Gentoxicity in vitro	Ames test Salmonella typhimurium negative Method: OECD TG 471 chromosomal aberration Chinese hamster (V 79 -cells) negative Method: OECD TG 473 chromosomal aberration Chinese hamster (CHO K1 -cells) negative Method: OECD TG 476
Gentoxicity in vivo	chromosomal aberration Mouse Oral negative Method: OECD TG 474

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Carcinogenicity	No evidence that cancer may be caused.
carcinogenicity assessment	Contains no carcinogenic substances as defined by NTP, IARC and/or OSHA.
Toxicity to reproduction	Animal model trials have produced no evidence of fertility damage.

12. Ecological information**12.1. Toxicity**

Toxicity to fish	LC50 Oncorhynchus mykiss: 85 mg/l / 96 h Method: OECD 203 (literature value)
Toxicity in aquatic invertebrates	EC50 Daphnia magna: > 49.1 mg/l / 48 h Method: OECD 202
Toxicity to algae	NOEC Desmodesmus subspicatus (green algae): >= 36 mg/l / 72 h Method: OECD 201
Toxicity in terrestrial plants	EC50 Trifolium ornithopadioides: > 100 mg/kg / 17 d Method: OECD 208 EC50 Lepidium sativum: > 100 mg/kg / 17 d Method: OECD 208 EC50 Triticum aestivum: > 100 mg/kg / 17 d Method: OECD 208
Toxicity in other terrestrial non-mammals	LC50 Eisenia foetida foetida: > 1000 mg/kg / 14 d Method: OECD 207

12.2. Persistence and degradability

Biodegradability	Exposure time: 28 d Result: 75 % Readily biodegradable. Method: OECD 301 D
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12.3. Bioaccumulative potential

Bioaccumulation	not bioaccumulative
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12.4. Mobility in soil

Mobility	Adsorption on the floor: low.
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12.5. Other adverse effects

Further Information	The data we have at our disposal do not necessitate identification concerning environmental hazard.
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13. Disposal considerations**13.1. Waste treatment methods****Product**

Waste must be disposed of in accordance with federal, provincial, state and local regulations. Empty containers must be handled with care due to product residue. DO NOT HEAT OR CUT THE EMPTY CONTAINER WITH AN ELECTRIC OR GAS TORCH.

Uncleaned packaging

Do not reuse empty containers and dispose of in accordance with the regulations issued by the appropriate local authorities.

If there is product residue in the emptied container, follow directions for handling on the container's label.

Incorrect disposal or reuse of this container is illegal and can be dangerous.

Other countries: observe the national regulations.

14. Transport information**D.O.T. Road/Rail**

- | | |
|---|--|
| 14.1. UN number: | UN 1993 |
| 14.2. UN proper shipping name: | Combustible liquid, n.o.s.(alkoxysilane) |
| 14.3. Transport hazard class(es): | C |
| 14.4. Packing group: | III |
| 14.5. Environmental hazards (Marine pollutant): | -- |
| 14.6. Special precautions for user: | Yes |
| ROAD: | Not regulated in packages 450 liter or less. |
| (CFR) | |
| RAIL: | Not regulated in packages 450 liter or less. |
| (CFR) | |

Air transport ICAO-TI/IATA-DGR

Not dangerous according to transport regulations.

- | | |
|-------------------------------------|--|
| 14.1. UN number: | -- |
| 14.2. UN proper shipping name: | -- |
| 14.3. Transport hazard class(es): | -- |
| 14.4. Packing group: | -- |
| 14.5. Environmental hazards: | -- |
| 14.6. Special precautions for user: | Yes |
| IATA-C: | Not hazardous freight in air traffic (ICAO-TI / IATA-DGR). |
| IATA-P: | Not hazardous freight in air traffic (ICAO-TI / IATA-DGR). |

Sea transport IMDG-Code/GGVSee (Germany)

Not dangerous according to transport regulations.

- | | |
|-----------------------------------|----|
| 14.1. UN number: | -- |
| 14.2. UN proper shipping name: | -- |
| 14.3. Transport hazard class(es): | -- |

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- 14.4. Packing group: --
- 14.5. Environmental hazards (Marine pollutant): --
- 14.6. Special precautions for user: Yes
Not classified as hazardous sea cargo (IMDG code)
FOR USA ONLY: In packagings exceeding 450 L, this product must be classified, placarded, marked and shipped as Combustible Liquid to the USA.
- 14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code:
for transport approval see regulatory information

15. Regulatory information**US Federal Regulations****OSHA**

If listed below, chemical specific standards apply to the product or components:

- None listed

Clean Air Act Section (112)

If listed below, components present at or above the de minimus level are hazardous air pollutants:

- None listed

CERCLA Reportable Quantities

If listed below, a reportable quantity (RQ) applies to the product based on the percent of the named component:

- None listed

SARA Title III Section 311/312 Hazard Categories

The product meets the criteria only for the listed hazard classes:

- Acute Health Hazard
- Fire Hazard

SARA Title III Section 313 Reportable Substances

If listed below, components are subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372:

- None listed

Toxic Substances Control Act (TSCA)

If listed below, non-proprietary substances are subject to export notification under Section 12 (b) of TSCA:

- None listed

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State Regulations

The Listing requirements of the Right to Know (RTK) legislation varies by state. All information for NJ, PA, MA and other states can be derived from the listing of hazardous and non-hazardous components in section 2 and 15 of this MSDS.

California Proposition 65

A warning under the California Drinking Water Act is required only if listed below:

- None listed

An employer using HMIS/NFPA labeling must through training ensure that its employees are fully aware of the hazards of the chemicals used.

HMIS Ratings

Health :	2
Flammability :	2
Physical Hazard :	1

NFPA Ratings

Health :	2
Flammability :	2
Reactivity :	1

16. Other information**Further information**

Revision date 07/23/2015

Changes since the last version are highlighted in the margin. This version replaces all previous versions.

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Legend

ACC	American Chemistry Council
ACGIH	American Conference of Governmental Industrial Hygienists
ACS	Advisory Committee on Sustainability

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ADI	Acceptable Daily Intake
ASTM	American Society for Testing and Materials
ATP	Adaptation to Technical Progress
BCF	Bioconcentration factor
BOD	Biochemical oxygen demand
c.c.	closed cup
CAO	Cargo Aircraft Only
Carc	Carcinogen
CAS	Chemical Abstract Services
CDN	Canada
CEPA	Canadian Environmental Protection Act
CERCLA	Comprehensive Environmental Response – Compensation and Liability Act
CFR	Code of Federal Regulations
CMR	carcinogenic-mutagenic-toxic for reproduction
COD	Chemical oxygen demand
DIN	German Institute for Standardization
DMEL	Derived minimum effect level
DNEL	Derived no effect level
DOT	Department of Transportation
EC50	half maximal effective concentration
EPA	Environmental Protection Agency
ErC50	Reduction of Growth Rate
ERG	Emergency Response Guide Book
FDA	Food and Drug Administration
GHS	Globally Harmonized System of Classification and Labelling of Chemicals (GHS)
GLP	Good Laboratory Practice
GMO	Genetic Modified Organism
HCS	Hazard Communication Standard
HMIS	Hazardous Materials Identification System
IARC	International Agency for Research on Cancer
IATA	International Air Transport Association
IBC	Intermediate Bulk Container
ICAO-TI	International Civil Aviation Organization- Technical Instructions
ICCA	International Council of Chemical Association
ID	Identification number
IMDG	International Maritime Dangerous Goods
IUPAC	International Union of Pure and Applied Chemistry
ISO	International Organization For Standardization
LC50	50 % Lethal Concentration
LD50	50 % Lethal Dose
L(E)C50	LC50 or EC50
LOAEL	Low est observed adverse effect level
LOEL	Low est observed effect level
MARPOL	International Convention for the Prevention of Pollution from Ships
NFPA	National Fire Protection Association
NOAEL	No observed adverse effect level
NOEC	no observed effect concentration
NOEL	no observed effect level
o. c.	open cup
OECD	Organisation for Economic Cooperation and Development
OEL	Occupational Exposure Limit
OSHA	Occupational Safety and Health Administration
PBT	Persistent, bioaccumulative, toxic
PEC	Predicted effect concentration
PNEC	Predicted no effect concentration
RQ	Reportable Quantity
SDS	Safety Data Sheet
STOT	Specific Target Organ Toxicity
UN	United Nations
vPvB	very persistent, very bioaccumulative
voc	volatile organic compounds
WHMIS	Workplace Hazardous Materials Information System
WHO	World Health Organization



Material Safety Data Sheet [OSHA 29 CFR 1910.1200]

The QUIKRETE® Companies
One Securities Centre
3490 Piedmont Road, Suite 1300
Atlanta, GA 30329

Emergency Telephone Number
(770) 216-9580

Information Telephone Number
(770) 216-9580

Revision: October 2005

MSDS B2

SECTION I: PRODUCT IDENTIFICATION

QUIKRETE® Product Name
COMMERCIAL GRADE SAND

Code #
1961, 1962, 1963

SECTION II - HAZARDOUS INGREDIENTS/IDENTITY INFORMATION

Hazardous Components	CAS No.	PEL (OSHA) mg/M ³	TLV (ACGIH) mg/M ³
Silica Sand, crystalline	14808-60-7	$\frac{10}{\%SiO_2+2}$	0.05(respirable crystalline quartz)

Other Limits: National Institute for Occupational Safety and Health (NIOSH). Recommended standard maximum permissible concentration=0.05 mg/M³ (respirable free silica) as determined by a full-shift sample up to 10-hour working day, 40-hour work week. See NIOSH Criteria for a Recommended Standard Occupational Exposure to Crystalline Silica.

DO NOT USE FOR SANDBLASTING.

SECTION III - PHYSICAL/CHEMICAL CHARACTERISTICS

Appearance: White or tan sand, granular, crushed, or ground to fine mesh sizes

Specific Gravity: 2.5 to 2.7	Melting Point: 3110 °F (1710° C)	Boiling Point: 4046 °F (2230 °C)
Vapor Pressure: None	Vapor Density: None	Evaporation Rate: None
Solubility in Water: Slight	Odor: None	

SECTION VI - HEALTH HAZARD DATA

The product contains silica particles that may be broken down to the respirable size range during shipping, handling, or use, and thus may be inhaled.

Route(s) of Entry: Inhalation, Skin, Ingestion

Health Hazards (Acute and Chronic):

Contains Silica dust that can cause severe and permanent lung damage and other diseases.

Breathing silica dust can cause silicosis, a lung disease that can cause serious breathing difficulties and death.



COMMERCIAL GRADE SAND

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Breathing Silica dust may cause cancer.

Breathing silica dust may cause scleroderma, a scarring of the skin and internal organs.

Breathing silica dust may not cause noticeable injury or illness, even though permanent lung damage may be occurring.

Carcinogenicity Listings:

NTP:	Known carcinogen
OSHA:	Not listed as a carcinogen
IARC Monographs:	Group 1 Carcinogen
California Proposition 65:	Known carcinogen

NTP: The National Toxicology Program, in its “Ninth Report on Carcinogens” (released May 15, 2000) concluded that “Respirable crystalline silica (RCS), primarily quartz dusts occurring in industrial and occupational settings, is *known to be a human carcinogen*, based on sufficient evidence of carcinogenicity from studies in humans indicating a causal relationship between exposure to RCS and increased lung cancer rates in workers exposed to crystalline silica dust (reviewed in IAC, 1997; Brown *et al.*, 1997; Hind *et al.*, 1997)

IARC: The International Agency for Research on Cancer (“IARC”) concluded that there was “*sufficient evidence* in humans for the carcinogenicity of crystalline silica in the forms of quartz or cristobalite from occupational sources”, and that there is “*sufficient evidence* in experimental animals for the carcinogenicity of quartz or cristobalite.” The overall IARC evaluation was that “crystalline silica inhaled in the form of quartz or cristobalite from occupational sources is carcinogenic to humans (Group 1).” The IARC evaluation noted that “carcinogenicity was not detected in all industrial circumstances or studies. Carcinogenicity may be dependent on inherent characteristics of the crystalline silica or on external factors affecting its biological activity or distribution of its polymorphs.” For further information on the IARC evaluation, see IARC Monographs on the Evaluation of Carcinogenic Risks to Humans, Volume 68, “Silica, Some Silicates...” (1997)

Signs and symptoms of Exposure: Undue breathlessness, wheezing, cough, and sputum production.

Medical Conditions Generally Aggravated by Exposure: Pulmonary function may be reduced by inhalation of respirable crystalline silica. Also lung scarring produced by such inhalation may lead to a progressive massive fibrosis of the lung (silicosis) which may aggravate other pulmonary conditions and diseases and which increases susceptibility to pulmonary failure. Smoking aggravates the effect of exposure. Exposure to crystalline silica or the disease silicosis is associated with increased incidence of scleroderma, Tuberculosis and possibly increased incidence of kidney lesions.

Emergency and First Aid Procedures: For sand in eyes, wash immediately with water. If irritation persists, seek medical attention. For gross inhalation, remove person immediately to fresh air, give artificial respiration as needed, seek medical attention as needed.

SECTION VII - PRECAUTIONS FOR SAFE HANDLING AND USE

Spills: If spilled, use dustless methods (vacuum) and place into covered container for disposal or flush with water. Do not dry sweep. Wear protective equipment specified below.

Waste Disposal Method: The packaging and material may be land filled; however, material should be covered to minimize generation of airborne dust. This product is not classified as a hazardous waste under RCRA or CERCLA.

SECTION VIII - CONTROL MEASURES/PERSONAL PROTECTION

Inhalation: DO NOT BREATHE DUST. In cases where the sand can be used in a damp condition, the most effective dust control measure is to keep the sand damp. Many uses of silica sand require it to be used in a dry condition, in such cases PEL exposure limits may be exceeded. Local exhaust can be helpful to reduce airborne dust levels. When dust levels exceed PEL exposure limits, the use of an OSHA, MSHA or NIOSH approved respirator is required. Respirator requirements are based on exposure level as shown below:

5 x PEL or less: Any dust respirator

10 x PEL or less: Any dust respirator, except single-use or quarter-mask respirator. Any fume respirator or high efficiency particulate filter respirator.

50 x PEL or less: A high efficiency particulate filter respirator with a full face-piece.

500 x PEL or less: A powered air-purifying respirator with a high efficiency particulate filter. A Type C supplied-air respirator operated in pressure-demand or other positive pressure or continuous-flow mode.

Greater than 500 x PEL or entry and escape from unknown concentrations: Self-contained breathing apparatus with a full face-piece operated pressure-demand or other positive pressure mode. A combination respirator which includes a Type C supplied-air respirator with a full face-piece operated in pressure-demand or other positive pressure continuous-flow mode and an auxiliary self-contained breathing apparatus operated in pressure demand or other positive pressure mode.

Eyes: Wear tight fitting goggles

WARN EMPLOYEES AND/OR CUSTOMERS OF THE HAZARDS AND REQUIRED OSHA PRECAUTIONS ASSOCIATED WITH THE USE OF THIS PRODUCT.

NOTE: The information and recommendations contained herein are based upon data believed to be correct. However, no guarantee or warranty of any kind, express or implied, is made with respect to the information contained herein. We accept no responsibility and disclaim all liability for any harmful effects which may be caused by exposure to silica contained in our products. Customers-users must comply with all applicable health and safety laws, regulations and orders covering silica.



Safety Data Sheet

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Issue Date:	2023/07/13	Supersedes Date:	2023/04/24

This Safety Data Sheet has been prepared in accordance with the Canadian Hazardous Products Regulations.

SECTION 1: Identification

1.1. Product identifier

Scotchgard™ Fabric Water Shield 4106-PF

Product Identification Numbers

LN-B100-2900-3	70-0070-4554-8	70-0070-4555-5	70-0070-4556-3	70-0070-4557-1
70-0070-4827-8	70-0070-4846-8	70-0070-4849-2	70-0070-4850-0	70-0070-4851-8
70-0070-4852-6	70-0070-4855-9	70-0070-4903-7	70-0070-4991-2	70-0070-5071-2
70-0070-5261-9	70-0070-5300-5	70-0070-6044-8	HB-0046-6685-3	UU-0127-0892-9
XI-0039-0774-2				

1.2. Recommended use and restrictions on use

Intended Use

Water repellent

Restrictions on use

Not applicable

1.3. Supplier's details

Company:	3M Canada Company
Division:	Home Health and Auto Care Division
Address:	1840 Oxford Street East, Post Office Box 5757, London, Ontario N6A 4T1
Telephone:	(800) 364-3577
Website:	www.3M.ca

1.4. Emergency telephone number

Medical Emergency Telephone: 1-800-3M HELPS / 1-800-364-3577; Transportation Emergency Telephone (CANUTEC): (613) 996-6666

SECTION 2: Hazard identification

The following product identification number(s) are sold in the consumer market place:
70-0070-4903-7

2.1. Classification of the substance or mixture

Flammable Aerosol: Category 1.

Gas Under Pressure: Liquefied gas.

Simple Asphyxiant.

Specific Target Organ Toxicity (single exposure): Category 1.

Specific Target Organ Toxicity (single exposure): Category 3.

2.2. Label elements

Signal word

Danger

Symbols

Flame | Gas cylinder | Exclamation mark | Health Hazard |

Pictograms



Hazard statements

Extremely flammable aerosol. Contains gas under pressure; may explode if heated.

May cause drowsiness or dizziness. May displace oxygen and cause rapid suffocation.

Causes damage to organs: cardiovascular system |

Precautionary statements

General:

Keep out of reach of children.

Prevention:

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Do not spray on an open flame or other ignition source. Do not pierce or burn, even after use. Do not breathe dust/fume/gas/mist/vapours/spray. Use only outdoors or in a well-ventilated area. Do not eat, drink or smoke when using this product. Wash exposed skin thoroughly after handling.

Response:

IF INHALED: Remove person to fresh air and keep comfortable for breathing. IF exposed or concerned: Call a POISON CENTRE or doctor/physician. Specific treatment (see Notes to Physician on this label).

Storage:

Protect from sunlight. Do not expose to temperatures exceeding 50C/122F. Store in a well-ventilated place. Keep container tightly closed. Store locked up.

Disposal:

Dispose of contents/container in accordance with applicable local/regional/national/international regulations.

Notes to Physician:

Exposure may increase myocardial irritability. Do not administer sympathomimetic drugs unless absolutely necessary.

2.3. Other hazards

None known.

3% of the mixture consists of ingredients of unknown acute oral toxicity.

3% of the mixture consists of ingredients of unknown acute dermal toxicity.

SECTION 3: Composition/information on ingredients

This material is a mixture.

Ingredient	C.A.S. No.	% by Wt	Common Name
Hydrotreated Light Petroleum Distillates	64742-47-8	60 - 70 Trade Secret *	Distillates, petroleum, hydrotreated light
Petroleum Gases, Liquified, Sweetened	68476-86-8	24 - 25 Trade Secret *	Petroleum gases, liquefied, sweetened
Proprietary Silicone Mixture	Trade Secret	2 - 7	Not Applicable
Proprietary Resin	Trade Secret	0.5 - 4	Not Applicable

Proprietary Silicone Mixture is a non-hazardous Trade Secret material according to WHMIS criteria.
Proprietary Resin is a non-hazardous Trade Secret material according to WHMIS criteria.

*The actual concentration of this ingredient has been withheld as a trade secret.

SECTION 4: First aid measures

4.1. Description of first aid measures

Inhalation:

Remove person to fresh air. Get medical attention.

Skin Contact:

Wash with soap and water. If signs/symptoms develop, get medical attention.

Eye Contact:

Flush with large amounts of water. Remove contact lenses if easy to do. Continue rinsing. If signs/symptoms persist, get medical attention.

If Swallowed:

Rinse mouth. If you feel unwell, get medical attention.

4.2. Most important symptoms and effects, both acute and delayed

Central nervous system depression (headache, dizziness, drowsiness, incoordination, nausea, slurred speech, giddiness, and unconsciousness). Target organ effects. See Section 11 for additional details.

4.3. Indication of any immediate medical attention and special treatment required

Exposure may increase myocardial irritability. Do not administer sympathomimetic drugs unless absolutely necessary.

SECTION 5: Fire-fighting measures

5.1. Suitable extinguishing media

Use a fire fighting agent suitable for the surrounding fire.

5.2. Special hazards arising from the substance or mixture

Closed containers exposed to heat from fire may build pressure and explode.

Hazardous Decomposition or By-Products

Substance

Formaldehyde
Carbon monoxide
Carbon dioxide
Toxic Vapor, Gas, Particulate

Condition

During Combustion
During Combustion
During Combustion
During Combustion

5.3. Special protective actions for fire-fighters

Water may not effectively extinguish fire; however, it should be used to keep fire-exposed containers and surfaces cool and prevent explosive rupture.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Evacuate area. Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Use only non-sparking tools. Ventilate the area with fresh air. For large spill, or spills in confined spaces, provide mechanical ventilation to disperse or exhaust vapours, in accordance with good industrial hygiene practice. Warning! A motor could be an ignition source and could cause flammable gases or vapours in the spill area to burn or explode. Refer to other sections of this SDS for information regarding physical and health hazards, respiratory protection, ventilation, and personal protective equipment.

6.2. Environmental precautions

Avoid release to the environment.

6.3. Methods and material for containment and cleaning up

If possible, seal leaking container. Place leaking containers in a well-ventilated area, preferably an operating exhaust hood, or if necessary outdoors on an impermeable surface until appropriate packaging for the leaking container or its contents is available. Contain spill. Cover spill area with a fire-extinguishing foam. Working from around the edges of the spill inward, cover with bentonite, vermiculite, or commercially available inorganic absorbent material. Mix in sufficient absorbent until it appears dry. Remember, adding an absorbent material does not remove a physical, health, or environmental hazard. Collect as much of the spilled material as possible using non-sparking tools. Place in a metal container approved for transportation by appropriate authorities. Clean up residue with an appropriate solvent selected by a qualified and authorized person. Ventilate the area with fresh air. Read and follow safety precautions on the solvent label and SDS. Seal the container. Dispose of collected material as soon as possible in accordance with applicable local/regional/national/international regulations.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Do not use in a confined area with minimal air exchange. Keep out of reach of children. Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Do not spray on an open flame or other ignition source. Do not pierce or burn, even after use. Do not breathe dust/fume/gas/mist/vapours/spray. Do not get in eyes, on skin, or on clothing. Do not eat, drink or smoke when using this product. Wash thoroughly after handling. Avoid contact with oxidizing agents (eg. chlorine, chromic acid etc.)

7.2. Conditions for safe storage including any incompatibilities

Store in a well-ventilated place. Protect from sunlight. Do not expose to temperatures exceeding 50C/122F. Store away from heat. Store away from acids. Store away from oxidizing agents.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Occupational exposure limits

No occupational exposure limit values exist for any of the components listed in Section 3 of this SDS.

8.2. Exposure controls

8.2.1. Engineering controls

Do not remain in area where available oxygen may be reduced. Use general dilution ventilation and/or local exhaust ventilation to control airborne exposures to below relevant Exposure Limits and/or control dust/fume/gas/mist/vapours/spray. If ventilation is not adequate, use respiratory protection equipment.

8.2.2. Personal protective equipment (PPE)

Eye/face protection

Select and use eye/face protection to prevent contact based on the results of an exposure assessment. The following eye/face protection(s) are recommended:

Indirect Vented Goggles

Skin/hand protection

Select and use gloves and/or protective clothing approved to relevant local standards to prevent skin contact based on the results of an exposure assessment. Selection should be based on use factors such as exposure levels, concentration of the substance or mixture, frequency and duration, physical challenges such as temperature extremes, and other use conditions. Consult with your glove and/or protective clothing manufacturer for selection of appropriate compatible gloves/protective clothing. Note: Nitrile gloves may be worn over polymer laminate gloves to improve dexterity.

Gloves made from the following material(s) are recommended: Polymer laminate

Respiratory protection

An exposure assessment may be needed to decide if a respirator is required. If a respirator is needed, use respirators as part of a full respiratory protection program. Based on the results of the exposure assessment, select from the following respirator type(s) to reduce inhalation exposure:

Half facepiece or full facepiece supplied-air respirator

For questions about suitability for a specific application, consult with your respirator manufacturer.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	Liquid : Aerosol
Specific Physical Form:	Aerosol
Colour	Colourless
Odour	Faint Petroleum, Faint Hydrocarbon
Odour threshold	No Data Available
pH	Not Applicable
Melting point/Freezing point	Not Applicable
Boiling point	174 °C
Flash Point	39.4 °C [Test Method:Closed Cup] [Details:Liquid only; propellant flash point <0 F]
Evaporation rate	No Data Available
Flammability (solid, gas)	Not Applicable
Flammable Limits(LEL)	0.8 %
Flammable Limits(UEL)	6 %
Vapour Pressure	146.7 Pa [@ 20 °C]
Vapour Density and/or Relative Vapour Density	4.8 [Ref Std:AIR=1] [Details:Conditions: for CAS 64742-47-8]
Density	0.76 g/cm3
Relative density	0.76 [Ref Std:WATER=1]
Water solubility	Negligible
Solubility- non-water	No Data Available
Partition coefficient: n-octanol/ water	No Data Available
Autoignition temperature	230 °C - 315.6 °C [Details:Conditions: for CAS 64742-47-8]
Decomposition temperature	No Data Available
Viscosity/Kinematic Viscosity	1 mPa-s
Volatile Organic Compounds	0.94 g O3/g product [Test Method:calculated per CARB]
Percent volatile	93.84 % weight
VOC Less H2O & Exempt Solvents	No Data Available

Molecular weight	No Data Available
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SECTION 10: Stability and reactivity

10.1. Reactivity

This material may be reactive with certain agents under certain conditions - see the remaining headings in this section.

10.2. Chemical stability

Stable.

10.3. Possibility of hazardous reactions

Hazardous polymerization will not occur.

10.4. Conditions to avoid

Heat

10.5. Incompatible materials

Strong oxidizing agents

10.6. Hazardous decomposition products

<u>Substance</u>	<u>Condition</u>
None known.	

Refer to section 5.2 for hazardous decomposition products during combustion.

SECTION 11: Toxicological information

The information below may not be consistent with the material classification in Section 2 if specific ingredient classifications are mandated by a competent authority. In addition, toxicological data on ingredients may not be reflected in the material classification and/or the signs and symptoms of exposure, because an ingredient may be present below the threshold for labeling, an ingredient may not be available for exposure, or the data may not be relevant to the material as a whole.

11.1. Information on Toxicological effects

Signs and Symptoms of Exposure

Based on test data and/or information on the components, this material may produce the following health effects:

Inhalation:

Simple Asphyxiation: Signs/symptoms may include increased heart rate, rapid respirations, drowsiness, headache, incoordination, altered judgement, nausea, vomiting, lethargy, seizures, coma, and may be fatal. Respiratory Tract Irritation: Signs/symptoms may include cough, sneezing, nasal discharge, headache, hoarseness, and nose and throat pain. May cause additional health effects (see below).

Skin Contact:

May be harmful in contact with skin. Mild Skin Irritation: Signs/symptoms may include localized redness, swelling, itching, and dryness.

Eye Contact:

Contact with the eyes during product use is not expected to result in significant irritation.

Ingestion:

Gastrointestinal Irritation: Signs/symptoms may include abdominal pain, stomach upset, nausea, vomiting and diarrhea. May cause additional health effects (see below).

Additional Health Effects:

Single exposure may cause target organ effects:

Central Nervous System (CNS) Depression: Signs/symptoms may include headache, dizziness, drowsiness, incoordination, nausea, slowed reaction time, slurred speech, giddiness, and unconsciousness. Single exposure, above recommended guidelines, may cause: Cardiac Sensitization: Signs/symptoms may include irregular heartbeat (arrhythmia), faintness, chest pain, and may be fatal.

Toxicological Data

If a component is disclosed in section 3 but does not appear in a table below, either no data are available for that endpoint or the data are not sufficient for classification.

Acute Toxicity

Name	Route	Species	Value
Overall product	Dermal		No data available; calculated ATE >2,000 - =5,000 mg/kg
Overall product	Ingestion		No data available; calculated ATE >5,000 mg/kg
Hydrotreated Light Petroleum Distillates	Dermal	Rabbit	LD50 > 3,160 mg/kg
Hydrotreated Light Petroleum Distillates	Inhalation-Dust/Mist (4 hours)	Rat	LC50 > 3 mg/l
Hydrotreated Light Petroleum Distillates	Ingestion	Rat	LD50 > 5,000 mg/kg
Petroleum Gases, Liquified, Sweetened	Inhalation-Gas (4 hours)	Rat	LC50 277,000 ppm
Proprietary Silicone Mixture	Dermal	Rabbit	LD50 > 19,400 mg/kg
Proprietary Silicone Mixture	Ingestion	Rat	LD50 > 17,000 mg/kg

ATE = acute toxicity estimate

Skin Corrosion/Irritation

Name	Species	Value
Hydrotreated Light Petroleum Distillates	Rabbit	Mild irritant
Petroleum Gases, Liquified, Sweetened	Professional judgement	No significant irritation
Proprietary Silicone Mixture	Rabbit	No significant irritation

Serious Eye Damage/Irritation

Name	Species	Value
Hydrotreated Light Petroleum Distillates	Rabbit	Mild irritant
Petroleum Gases, Liquified, Sweetened	Professional judgement	No significant irritation
Proprietary Silicone Mixture	Rabbit	No significant irritation

Skin Sensitization

Name	Species	Value
Hydrotreated Light Petroleum Distillates	Guinea pig	Not classified

Respiratory Sensitization

For the component/components, either no data are currently available or the data are not sufficient for classification.

Germ Cell Mutagenicity

Name	Route	Value
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Hydrotreated Light Petroleum Distillates	In Vitro	Not mutagenic
Petroleum Gases, Liquified, Sweetened	In Vitro	Not mutagenic

Carcinogenicity

Name	Route	Species	Value
Hydrotreated Light Petroleum Distillates	Dermal	Mouse	Some positive data exist, but the data are not sufficient for classification

Reproductive Toxicity

Reproductive and/or Developmental Effects

For the component/components, either no data are currently available or the data are not sufficient for classification.

Target Organ(s)

Specific Target Organ Toxicity - single exposure

Name	Route	Target Organ(s)	Value	Species	Test result	Exposure Duration
Hydrotreated Light Petroleum Distillates	Inhalation	central nervous system depression	May cause drowsiness or dizziness	Human and animal	NOAEL Not available	
Hydrotreated Light Petroleum Distillates	Inhalation	respiratory irritation	Some positive data exist, but the data are not sufficient for classification		NOAEL Not available	
Hydrotreated Light Petroleum Distillates	Ingestion	central nervous system depression	May cause drowsiness or dizziness	Professional judgement	NOAEL Not available	
Petroleum Gases, Liquified, Sweetened	Inhalation	cardiac sensitization	Causes damage to organs	similar compounds	NOAEL Not available	
Petroleum Gases, Liquified, Sweetened	Inhalation	central nervous system depression	May cause drowsiness or dizziness		NOAEL Not available	
Petroleum Gases, Liquified, Sweetened	Inhalation	respiratory irritation	Not classified		NOAEL Not available	

Specific Target Organ Toxicity - repeated exposure

Name	Route	Target Organ(s)	Value	Species	Test result	Exposure Duration
Petroleum Gases, Liquified, Sweetened	Inhalation	kidney and/or bladder	Not classified	Rat	NOAEL Not available	

Aspiration Hazard

Name	Value
Hydrotreated Light Petroleum Distillates	Aspiration hazard

Please contact the address or phone number listed on the first page of the SDS for additional toxicological information on this material and/or its components.

SECTION 12: Ecological information

No data available.

SECTION 13: Disposal considerations

13.1. Disposal methods

Dispose of contents/ container in accordance with the local/regional/national/international regulations.

Incinerate in a permitted waste incineration facility. Facility must be capable of handling aerosol cans. As a disposal alternative, utilize an acceptable permitted waste disposal facility. Empty drums/barrels/containers used for transporting and handling hazardous chemicals (chemical substances/mixtures/preparations classified as Hazardous as per applicable regulations) shall be considered, stored, treated & disposed of as hazardous wastes unless otherwise defined by applicable waste regulations. Consult with the respective regulating authorities to determine the available treatment and disposal facilities.

SECTION 14: Transport Information

For Transport Information, please visit <http://3M.com/Transportinfo> or call 1-800-364-3577 or 651-737-6501.

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

Global inventory status

Contact 3M for more information. The components of this material are in compliance with the provisions of the Korea Chemical Control Act. Certain restrictions may apply. Contact the selling division for additional information. The components of this material are in compliance with the provisions of Australia National Industrial Chemical Notification and Assessment Scheme (NICNAS). Certain restrictions may apply. Contact the selling division for additional information. The components of this material are in compliance with the provisions of Philippines RA 6969 requirements. Certain restrictions may apply. Contact the selling division for additional information. The components of this product are in compliance with the new substance notification requirements of CEPA. This product complies with Measures on Environmental Management of New Chemical Substances. All ingredients are listed on or exempt from on China IECSC inventory. The components of this product are in compliance with the chemical notification requirements of TSCA. All required components of this product are listed on the active portion of the TSCA Inventory.

SECTION 16: Other information

National Fire Protection Association (NFPA) hazard ratings are designed for use by emergency response personnel to address the hazards that are presented by short-term, acute exposure to a material under conditions of fire, spill, or similar emergencies. Hazard ratings are primarily based on the inherent physical and toxic properties of the material but also include the toxic properties of combustion or decomposition products that are known to be generated in significant quantities.

Health: 2 Flammability: 2 Instability: 0 Special Hazards: None
Aerosol Storage Code: 3

National Fire Protection Association (NFPA) hazard ratings are designed for use by emergency response personnel to address the hazards that are presented by short-term, acute exposure to a material under conditions of fire, spill, or similar emergencies. Hazard ratings are primarily based on the inherent physical and toxic properties of the material but also include the toxic properties of combustion or decomposition products that are known to be generated in significant quantities.

HMIS Hazard Classification

Health: 4 Flammability: 2 Physical Hazard: 0 Personal Protection: X - See PPE section.

Hazardous Material Identification System (HMIS® IV) hazard ratings are designed to inform employees of chemical hazards in the workplace. These ratings are based on the inherent properties of the material under expected conditions of normal use and are not intended for use in emergency situations. HMIS® IV ratings are to be used with a fully implemented HMIS® IV program. HMIS® is a registered mark of the American Coatings Association (ACA).

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3M Canada SDSs are available at www.3M.ca



SAFETY DATA SHEET

1. Identification

Product identifier	BEHR ULTRA™ Scuff Defense™ Interior Semi-Gloss - Deep Base
Other means of identification	
Product number	3753
Recommended use	Architectural Coating
Recommended restrictions	None known.
Manufacturer/Importer/Supplier/Distributor information	
Supplier	Behr Process Corp. 1801 E. St. Andrew Place Santa Ana, CA 92705
Telephone	714-545-7101
Emergency telephone	+1 760 476 3962 +1 866 519 4752
Access code	335213

2. Hazard(s) identification

Physical hazards	Not classified.
Health hazards	Not classified.
OSHA defined hazards	Not classified.
Label elements	
Hazard symbol	None.
Signal word	None.
Hazard statement	The mixture does not meet the criteria for classification.
Precautionary statement	
Prevention	Observe good industrial hygiene practices.
Response	Wash hands after handling.
Storage	Store away from incompatible materials.
Disposal	Dispose of waste and residues in accordance with local authority requirements.
Hazard(s) not otherwise classified (HNOC)	None known.
Supplemental information	None.

3. Composition/information on ingredients

Mixtures

Chemical name	CAS number	%
Kaolin	1332-58-7	1 - 5

Composition comments	All concentrations are in percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume. The manufacturer has claimed the exact percentage as trade secret under the OSHA Hazard Communication Standard.
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4. First-aid measures

Inhalation	Move to fresh air. Call a physician if symptoms develop or persist.
Skin contact	Wash off with soap and water. Get medical attention if irritation develops and persists.
Eye contact	Rinse with water. Get medical attention if irritation develops and persists.
Ingestion	Rinse mouth. Get medical attention if symptoms occur.

Most important symptoms/effects, acute and delayed

Direct contact with eyes may cause temporary irritation.

Indication of immediate medical attention and special treatment needed

Treat symptomatically.

General information

Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.

5. Fire-fighting measures

Suitable extinguishing media

Water fog. Foam. Dry chemical powder. Carbon dioxide (CO₂).

Unsuitable extinguishing media

Do not use water jet as an extinguisher, as this will spread the fire.

Specific hazards arising from the chemical

During fire, gases hazardous to health may be formed.

Special protective equipment and precautions for firefighters

Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

Fire fighting equipment/instructions

Move containers from fire area if you can do so without risk.

Specific methods

Use standard firefighting procedures and consider the hazards of other involved materials.

General fire hazards

No unusual fire or explosion hazards noted.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Keep unnecessary personnel away. For personal protection, see section 8 of the SDS.

Methods and materials for containment and cleaning up

This product is miscible in water.

Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Absorb in vermiculite, dry sand or earth and place into containers. Following product recovery, flush area with water.

Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.

Never return spills to original containers for re-use. For waste disposal, see section 13 of the SDS. Avoid discharge into drains, water courses or onto the ground.

Environmental precautions

7. Handling and storage

Precautions for safe handling

Avoid prolonged exposure. Observe good industrial hygiene practices.

Conditions for safe storage, including any incompatibilities

Store in tightly closed container. Store away from incompatible materials (see Section 10 of the SDS).

8. Exposure controls/personal protection

Occupational exposure limits**US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)**

Components	Type	Value	Form
Kaolin (CAS 1332-58-7)	PEL	5 mg/m ³	Respirable fraction.
		15 mg/m ³	Total dust.

US. OSHA Table Z-3 (29 CFR 1910.1000)

Components	Type	Value	Form
Kaolin (CAS 1332-58-7)	TWA	5 mg/m ³	Respirable fraction.
		15 mg/m ³	Total dust.
		50 mppcf	Total dust.
		15 mppcf	Respirable fraction.

US. ACGIH Threshold Limit Values

Components	Type	Value	Form
Kaolin (CAS 1332-58-7)	TWA	2 mg/m3	Respirable fraction.

US. NIOSH: Pocket Guide to Chemical Hazards

Components	Type	Value	Form
Kaolin (CAS 1332-58-7)	TWA	5 mg/m3	Respirable.
		10 mg/m3	Total

Biological limit values	No biological exposure limits noted for the ingredient(s).
Appropriate engineering controls	Good general ventilation should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level.
Individual protection measures, such as personal protective equipment	
Eye/face protection	Wear safety glasses with side shields (or goggles).
Skin protection	
Hand protection	Wear appropriate chemical resistant gloves.
Skin protection	
Other	Wear suitable protective clothing.
Respiratory protection	If airborne concentrations are above the applicable exposure limits, use NIOSH approved respiratory protection. Use a positive-pressure air-supplied respirator if there is any potential for an uncontrolled release, exposure levels are not known, or any other circumstances where air-purifying respirators may not provide adequate protection.
Thermal hazards	Wear appropriate thermal protective clothing, when necessary.
General hygiene considerations	Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

9. Physical and chemical properties**Appearance**

Physical state	Liquid.
Form	Liquid.
Color	Opaque.
Odor	Slight.
Odor threshold	Not available.
pH	7 - 10
Melting point/freezing point	Not available.
Initial boiling point and boiling range	> 99 °F (> 37.2 °C)
Flash point	Not available.
Evaporation rate	Not available.
Flammability (solid, gas)	Not applicable.
Upper/lower flammability or explosive limits	
Flammability limit - lower (%)	Not available.
Flammability limit - upper (%)	Not available.
Vapor pressure	Not available.
Vapor density	Not available.
Relative density	1.08
Solubility(ies)	
Solubility (water)	Soluble.
Partition coefficient (n-octanol/water)	Not available.

Auto-ignition temperature	Not available.
Decomposition temperature	Not available.
Viscosity	50 - 140 KU at 25°C
Other information	
Density	9.01 lbs/gal
Explosive properties	Not explosive.
Oxidizing properties	Not oxidizing.
VOC	18 g/l (including water) (Material) 47 g/l (excluding water) (Coating)

10. Stability and reactivity

Reactivity	The product is stable and non-reactive under normal conditions of use, storage and transport.
Chemical stability	Material is stable under normal conditions.
Possibility of hazardous reactions	No dangerous reaction known under conditions of normal use.
Conditions to avoid	Contact with incompatible materials.
Incompatible materials	Strong oxidizing agents.
Hazardous decomposition products	No hazardous decomposition products are known.

11. Toxicological information

Information on likely routes of exposure

Inhalation	Prolonged inhalation may be harmful.
Skin contact	Prolonged skin contact may cause temporary irritation.
Eye contact	Direct contact with eyes may cause temporary irritation.
Ingestion	Expected to be a low ingestion hazard.

Symptoms related to the physical, chemical and toxicological characteristics	Direct contact with eyes may cause temporary irritation.
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Information on toxicological effects

Skin corrosion/irritation	Prolonged skin contact may cause temporary irritation.
Serious eye damage/eye irritation	Direct contact with eyes may cause temporary irritation.

Respiratory or skin sensitization

Respiratory sensitization	Not a respiratory sensitizer.
Skin sensitization	This product is not expected to cause skin sensitization.

Germ cell mutagenicity	No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.
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Carcinogenicity	Not classifiable as to carcinogenicity to humans.
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IARC Monographs. Overall Evaluation of Carcinogenicity

Not listed.

NTP Report on Carcinogens

Not listed.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053)

Not listed.

Reproductive toxicity	This product is not expected to cause reproductive or developmental effects.
Specific target organ toxicity - single exposure	Not classified.
Specific target organ toxicity - repeated exposure	Not classified.
Aspiration hazard	Not an aspiration hazard.
Chronic effects	Prolonged inhalation may be harmful.

12. Ecological information

Ecotoxicity	The product is not classified as environmentally hazardous.
Persistence and degradability	No data is available on the degradability of any ingredients in the mixture.
Bioaccumulative potential	No data available.
Mobility in soil	No data available.
Other adverse effects	The product contains volatile organic compounds which have a photochemical ozone creation potential.

13. Disposal considerations

Disposal instructions	Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Incinerate the material under controlled conditions in an approved incinerator.
Local disposal regulations	Dispose in accordance with all applicable regulations.
Hazardous waste code	The waste code should be assigned in discussion between the user, the producer and the waste disposal company.
Waste from residues / unused products	Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions).
Contaminated packaging	Since emptied containers may retain product residue, follow label warnings even after container is emptied. Empty containers should be taken to an approved waste handling site for recycling or disposal.

14. Transport information

DOT	Not regulated as dangerous goods.
IATA	Not regulated as dangerous goods.
IMDG	Not regulated as dangerous goods.
Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code	Not applicable.

15. Regulatory information

US federal regulations	This product is not known to be a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200. All components are listed on or exempt from the U.S. EPA TSCA Inventory List.	
TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)	Not regulated.	
CERCLA Hazardous Substance List (40 CFR 302.4)	Ammonium hydroxide (CAS 1336-21-6) Listed.	
SARA 304 Emergency release notification	Not regulated.	
OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053)	Not listed.	
Toxic Substances Control Act (TSCA)		
Superfund Amendments and Reauthorization Act of 1986 (SARA)		
SARA 302 Extremely hazardous substance	Not listed.	
SARA 311/312 Hazardous chemical	No	
SARA 313 (TRI reporting)	Not regulated.	
Other federal regulations		
Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List	Not regulated.	
Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)	Not regulated.	

Safe Drinking Water Act (SDWA)	Contains component(s) regulated under the Safe Drinking Water Act.
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US state regulations

US, Massachusetts RTK - Substance List

Ammonium hydroxide (CAS 1336-21-6)

Kaolin (CAS 1332-58-7)

US. New Jersey Worker and Community Right-to-Know Act

Ammonium hydroxide (CAS 1336-21-6)

Kaolin (CAS 1332-58-7)

Mildewcide (CAS 55406-53-6)

US. Pennsylvania Worker and Community Right-to-Know Law

Ammonium hydroxide (CAS 1336-21-6)

Kaolin (CAS 1332-58-7)

US, Rhode Island RTK

Kaolin (CAS 1332-58-7)

16. Other information, including date of preparation or last revision

Issue date 17-July-2020

Revision date -

Version # 01

List of abbreviations

DOT: Department of Transportation (49 CFR 172.101).
IATA: International Air Transport Association.
IMDG Code: International Maritime Dangerous Goods Code.
MARPOL: International Convention for the Prevention of Pollution from Ships.
PEL: Permissible Exposure Limit.
TWA: Time Weighted Average Value.

References

HSDB® - Hazardous Substances Data Bank
IARC Monographs. Overall Evaluation of Carcinogenicity

Disclaimer

Behr Process Corp cannot anticipate all conditions under which this information and its product, or the products of other manufacturers in combination with its product, may be used. It is the user's responsibility to ensure safe conditions for handling, storage and disposal of the product, and to assume liability for loss, injury, damage or expense due to improper use. The information in the sheet was written based on the best knowledge and experience currently available.



Section 1: IDENTIFICATION

Product Name: Simple Green® All-Purpose Cleaner

Additional Names:

Manufacturer's Part Number: **Please refer to Section 16*

Recommended Use: Cleaner & Degreaser for water tolerant surfaces.

Restrictions on Use: Do not use on non-rinseable surfaces.

Company: Sunshine Makers, Inc.
15922 Pacific Coast Highway
Huntington Beach, CA 92649 USA

Telephone: 800-228-0709 • 562-795-6000 Mon – Fri, 8am – 5pm PST

Fax: 562-592-3830

Email: info@simplegreen.com

Emergency Phone: Chem-Tel 24-Hour Emergency Service: 800-255-3924

Section 2: HAZARDS IDENTIFICATION

This product is not considered hazardous under 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200).

OSHA HCS 2012

Label Elements

Signal Word: None

Hazard Symbol(s)/Pictogram(s): None required

Hazard Statements: None

Precautionary Statements: None

Hazards Not Otherwise Classified (HNOC): None

Other Information: None Known

Section 3: COMPOSITION/INFORMATION ON INGREDIENTS

<u>Ingredient</u>	<u>CAS Number</u>	<u>Percent Range</u>
Water	7732-18-5	> 85.000%*
Surfactant	Proprietary	< 5.000%*
C9-11 Alcohols Ethoxylated	68439-46-3	< 5.000%*
Tetrasodium Glutamate Diacetate	51981-21-6	< 2.000%*
Sodium Bicarbonate	144-55-8	< 1.000%*
Hydrochloric Acid	7647-01-0	< 1.000%*
Fragrances	Proprietary Mixture	< 1.000%*
Blend of Polyoxyalkylene Substituted Chromophores (Cyan and Yellow)	Proprietary Mixture	< 0.100%*
Anethole	104-46-1	< 0.100%*
Eucalyptol	470-82-6	< 0.100%*
Methylchlorisothiazolinone	26172-55-4	< 0.001%*
Methylisothiazolinone	2682-20-4	< 0.0001%*

**specific percentages of composition are being withheld as a trade secret*

Section 4: FIRST-AID MEASURES

Inhalation: Not expected to cause respiratory irritation. If adverse effect occurs, move to fresh air.

Skin Contact: Not expected to cause skin irritation. If adverse effect occurs, rinse skin with water.

Eye Contact: Not expected to cause eye irritation. If adverse effect occurs, flush eyes with water.

Ingestion: May cause upset stomach. Drink plenty of water to dilute. See section 11.

Most Important Symptoms/Effects, Acute and Delayed: None known.

Indication of Immediate Medical Attention and Special Treatment Needed, if necessary: Treat symptomatically

Section 5: FIRE-FIGHTING MEASURES

Suitable & Unsuitable Extinguishing Media: Use Dry chemical, CO₂, water spray or “alcohol” foam. Avoid high volume jet water.
Specific Hazards Arising from Chemical: In event of fire, fire created carbon oxides may be formed.
Special Protective Actions for Fire-Fighters: Wear positive pressure self-contained breathing apparatus; Wear full protective clothing.

This product is non-flammable. See Section 9 for Physical Properties.

Section 6: ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment and Emergency Procedures: *For non-emergency and emergency personnel:* See section 8 – personal protection. Avoid eye contact. Safety goggles suggested.

Environmental Precautions: Do not allow into open waterways and ground water systems.

Methods and Materials for Containment and Clean Up: Dike or soak up with inert absorbent material. See section 13 for disposal considerations.

Section 7: HANDLING AND STORAGE

Precautions for Safe Handling: Ensure adequate ventilation. Keep out of reach of children. Keep away from heat, sparks, open flame and direct sunlight. Do not pierce any part of the container. Do not mix or contaminate with any other chemical. Do not eat, drink or smoke while using this product.

Conditions for Safe Storage including Incompatibilities: Keep container tightly closed. Keep in cool dry area. Avoid prolonged exposure to sunlight. Do not store at temperatures above 109°F (42.7°C). If separation occurs, mix the product for reconstitution.

Section 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Limit Values: No components listed with TWA or STEL values under OSHA or ACGIH.

Appropriate Engineering Controls: Showers, eyewash stations, ventilation systems

Individual Protection Measures / Personal Protective Equipment (PPE)

Eye Contact: Use protective glasses or safety goggles if splashing or spray-back is likely.
Respiratory: Use in well ventilated areas or local exhaust ventilations when cleaning small spaces.
Skin Contact: Use protective gloves (any material) when used for prolonged periods or dermally sensitive.
General Hygiene Considerations: Wash thoroughly after handling and before eating or drinking.

Section 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Green Liquid	Partition Coefficient: n-octanol/water:	Not determined		
Odor:	Added sassafras odor	Autoignition Temperature:	Non-flammable		
Odor Threshold:	Not determined	Decomposition Temperature:	42.7°C (109°F)		
pH:	8.5 – 9.5	Viscosity:	Like water		
Freezing Point:	0-3.33°C (32-38°F)	Specific Gravity:	1.00 – 1.03		
Boiling Point & Range:	101°C (213.8°F)	VOCs:	**Water & fragrance exemption in calculation		
Flash Point:	> 212°F	SCAQMD 304-91 / EPA 24:	0 g/L	0 lb/gal	0%
Evaporation Rate:	Not determined	CARB Method 310**:	<5 g/L	<0.0417lb/gal	<0.5%
Flammability (solid, gas):	Not applicable	SCAQMD Method 313:	Not tested		
Upper/Lower Flammability or Explosive Limits:	Not applicable	VOC Composite Partial Pressure:	Not determined		

Section 9: PHYSICAL AND CHEMICAL PROPERTIES - continued

Vapor Pressure:	0.60 PSI @77°F, 2.05 PSI @100°F	Relative Density:	8.34 – 8.59 lb/gal
Vapor Density:	Not determined	Solubility:	100% in water

Section 10: STABILITY AND REACTIVITY

Reactivity:	Non-reactive.
Chemical Stability:	Stable under normal conditions 70°F (21°C) and 14.7 psig (760 mmHg).
Possibility of Hazardous Reactions:	None known.
Conditions to Avoid:	Excessive heat or cold.
Incompatible Materials:	Do not mix with oxidizers, acids, bathroom cleaners, or disinfecting agents.
Hazardous Decomposition Products:	Normal products of combustion - CO, CO2.

Section 11: TOXICOLOGICAL INFORMATION

Likely Routes of Exposure:	Inhalation -	Overexposure may cause headache.
	Skin Contact -	Not expected to cause irritation, repeated contact may cause dry skin.
	Eye Contact -	Not expected to cause irritation.
	Ingestion -	May cause upset stomach.

Symptoms related to the physical, chemical and toxicological characteristics: no symptoms expected under typical use conditions.

Delayed and immediate effects and or chronic effects from short term exposure: no symptoms expected under typical use conditions.

Delayed and immediate effects and or chronic effects from long term exposure: headache, dry skin, or skin irritation may occur.

Interactive effects: Not known.

Numerical Measures of Toxicity

Acute Toxicity:	Oral LD ₅₀ (rat)	> 5 g/kg body weight
	Dermal LD ₅₀ (rabbit)	> 5 g/kg body weight

Calculated via OSHA HCS 2012 / Globally Harmonized System of Classification and Labelling of Chemicals

Skin Corrosion/Irritation:	Non-irritant per Dermal Irritation® assay modeling. No animal testing performed.
Eye Damage/Irritation:	Non-irritant per Ocular Irritation® assay modeling. No animal testing performed.
Germ Cell Mutagenicity:	Mixture does not classify under this category.
Carcinogenicity:	Mixture does not classify under this category.
Reproductive Toxicity:	Mixture does not classify under this category.
STOT-Single Exposure:	Mixture does not classify under this category.
STOT-Repeated Exposure:	Mixture does not classify under this category.
Aspiration Hazard:	Mixture does not classify under this category.

Section 12: ECOLOGICAL INFORMATION

Ecotoxicity:	Volume of ingredients used does not trigger toxicity classifications under the Globally Harmonized System of Classification and Labelling of Chemicals.
Aquatic:	Aquatic Toxicity - Low, based on OECD 201, 202, 203 + Microtox: EC ₅₀ & IC ₅₀ ≥100 mg/L. Volume of ingredients used does not trigger toxicity classifications under the Globally Harmonized System of Classification and Labelling of Chemicals.
Terrestrial:	Not tested on finished formulation.

Section 12: ECOLOGICAL INFORMATION - continued

Persistence and Degradability:	Readily Biodegradable per OCED 301D, Closed Bottle Test. Reaches 100% biodegradation within 60 days.
Bioaccumulative Potential:	No data available.
Mobility in Soil:	No data available.
Other Adverse Effects:	No data available.

Section 13: DISPOSAL CONSIDERATIONS

Unused or Used Liquid: May be considered hazardous in your area depending on usage and tonnage of disposal – check with local, regional, and or national regulations for appropriate methods of disposal.

Empty Containers: May be offered for recycling.

Never dispose of used degreasing rinsates into lakes, streams, and open bodies of water or storm drains.

Section 14: TRANSPORT INFORMATION

U.N. Number:	Not applicable
U.N. Proper Shipping Name:	Cleaning Compound, Liquid NOI
Transport Hazard Class(es):	Not applicable
Packing Group:	Not applicable
Environmental Hazards:	Marine Pollutant - NO
Transport in Bulk (according to Annex II of MARPOL 73/78 and IBC Code):	Unknown.
Special precautions which user needs to be aware of/comply with, in connection with transport or conveyance either within or outside their premises:	None known.

U.S. (DOT) / Canadian TDG:	Not Regulated for shipping.	ICAO/ IATA:	Not classified as Hazardous
IMO / IDMG:	Not classified as Hazardous	ADR/RID:	Not classified as Hazardous

Section 15: REGULATORY INFORMATION

All components are listed on: TSCA and DSL Inventory.

SARA Title III: Sections 311/312 Hazard Categories – Not applicable.
Sections 313 Superfunds Amendments and Reauthorizations Act of 1986 – Not applicable.
Sections 302 – Not applicable.

Clean Air Act (CAA): Not applicable

Clean Water Act (CWA): Not applicable

State Right To Know Lists: No ingredients listed

California Proposition 65: No ingredients listed

This product has been classified as “not classifiable as hazardous” in accordance with Consumer Product Safety Commission (16 CFR Chapter 2) and labelled and packaged accordingly.

US Consumer Product Safety Commission Regulations

This product is labeled in accordance with regulations administered by the Consumer Product Safety Commission (CPSC). However, the use pattern and exposure in the workplace are generally not consistent with those experienced by consumers. Therefore, the requirements of the Occupational Safety and Health Administration applicable to this SDS differ from the labeling requirements of the CPSC, and this SDS may contain additional health hazard information not pertinent to consumer use and not found on the product label.

Section 16: OTHER INFORMATION

<u>Size</u>	<u>UPC</u>	<u>Size</u>	<u>UPC</u>
2 fl. oz.	043318131035	67.6 fl. oz.	043318000393
4 fl. oz.	043318130014	67.6 fl. oz.w/ dilution bottle	043318005442
16 fl. oz.	043318130021	140 fl. oz.	043318001390
22 fl. oz.	043318130229	140 fl. oz. w/ dilution bottle	043318001468
24 fl. oz.	043318006241	1 gallon	043318000799
24 fl. oz.	043318130137	1 gallon	043318004957
32 fl. oz.	043318000652	1 gallon	043318130052
32 fl. oz.	043318002557	1 gallon w/ dilution bottle	043318480416
32 fl. oz.	043318130335	1 gallon w/ dilution bottle	043318480492
67.6 fl. oz.	043318130144	2.5 gallon	043318004889

USA items listed only. Not all items listed. USA items may not be valid for international sale.

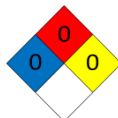
NFPA:

Health – None

Flammability – Non-flammable

Stability – Stable

Special - None

**Acronyms**

NTP National Toxicology Program

OSHA Occupational Safety and Health Administration

TSCA Toxic Substances Control Act

IARC International Agency for Research on Cancer

CPSC Consumer Product Safety Commission

DSL Domestic Substances List

Prepared / Revised By: Sunshine Makers, Inc., Regulatory Department.

This SDS has been revised in the following sections: Updated chemical properties in Section 9.

DISCLAIMER: The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.



SAFETY DATA SHEET

1. Identification

Product identifier	BEHR PREMIUM Concrete, Brick & Tile Wet-Look Sealer - Hi-Gloss
Other means of identification	
Product code	985
Recommended use	Architectural Coating
Recommended restrictions	None known.
Manufacturer/Importer/Supplier/Distributor information	
Supplier	Behr Process Corp. 1801 E. St. Andrew Place Santa Ana, CA 92705
Telephone	714-545-7101
Emergency telephone	+1 760 476 3962 +1 866 519 4752
Access code	335213

2. Hazard(s) identification

Physical hazards	Not classified.
Health hazards	Not classified.
OSHA defined hazards	Not classified.
Label elements	
Hazard symbol	None.
Signal word	None.
Hazard statement	The mixture does not meet the criteria for classification.
Precautionary statement	
Prevention	Observe good industrial hygiene practices.
Response	Wash hands after handling.
Storage	Store away from incompatible materials.
Disposal	Dispose of waste and residues in accordance with local authority requirements.
Hazard(s) not otherwise classified (HNOC)	None known.
Supplemental information	None.

3. Composition/information on ingredients

Mixtures

The manufacturer lists no ingredients as hazardous to health according to OSHA 29 CFR 1910.1200.

4. First-aid measures

Inhalation	Move to fresh air. Call a physician if symptoms develop or persist.
Skin contact	Wash off with soap and water. Get medical attention if irritation develops and persists.
Eye contact	Rinse with water. Get medical attention if irritation develops and persists.
Ingestion	Rinse mouth. Get medical attention if symptoms occur.
Most important symptoms/effects, acute and delayed	Direct contact with eyes may cause temporary irritation.
Indication of immediate medical attention and special treatment needed	Treat symptomatically.

General information	Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.
5. Fire-fighting measures	
Suitable extinguishing media	Water fog. Foam. Dry chemical powder. Carbon dioxide (CO ₂).
Unsuitable extinguishing media	Do not use water jet as an extinguisher, as this will spread the fire.
Specific hazards arising from the chemical	During fire, gases hazardous to health may be formed.
Special protective equipment and precautions for firefighters	Self-contained breathing apparatus and full protective clothing must be worn in case of fire.
Fire fighting equipment/instructions	Move containers from fire area if you can do so without risk.
Specific methods	Use standard firefighting procedures and consider the hazards of other involved materials.
General fire hazards	No unusual fire or explosion hazards noted.
6. Accidental release measures	
Personal precautions, protective equipment and emergency procedures	Keep unnecessary personnel away. For personal protection, see section 8 of the SDS.
Methods and materials for containment and cleaning up	Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Absorb in vermiculite, dry sand or earth and place into containers. Following product recovery, flush area with water.
	Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.
	Never return spills to original containers for re-use. For waste disposal, see section 13 of the SDS.
Environmental precautions	Avoid discharge into drains, water courses or onto the ground.
7. Handling and storage	
Precautions for safe handling	Avoid prolonged exposure. Observe good industrial hygiene practices.
Conditions for safe storage, including any incompatibilities	Store in tightly closed container. Store away from incompatible materials (see Section 10 of the SDS).
8. Exposure controls/personal protection	
Occupational exposure limits	No exposure limits noted for ingredient(s).
Biological limit values	No biological exposure limits noted for the ingredient(s).
Appropriate engineering controls	Good general ventilation should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level.
Individual protection measures, such as personal protective equipment	
Eye/face protection	Wear safety glasses with side shields (or goggles).
Skin protection	
Hand protection	Wear appropriate chemical resistant gloves.
Skin protection	
Other	Wear suitable protective clothing.
Respiratory protection	If airborne concentrations are above the applicable exposure limits, use NIOSH approved respiratory protection. Use a positive-pressure air-supplied respirator if there is any potential for an uncontrolled release, exposure levels are not known, or any other circumstances where air-purifying respirators may not provide adequate protection.
Thermal hazards	Wear appropriate thermal protective clothing, when necessary.
General hygiene considerations	Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

9. Physical and chemical properties

Appearance

Physical state	Liquid.
Form	Liquid.
Color	Opaque.
Odor	Slight.
Odor threshold	Not available.
pH	7 - 10
Melting point/freezing point	Not available.
Initial boiling point and boiling range	> 99 °F (> 37.2 °C)
Flash point	Not applicable.
Evaporation rate	Not available.
Flammability (solid, gas)	Not applicable.
Upper/lower flammability or explosive limits	
Flammability limit - lower (%)	Not available.
Flammability limit - upper (%)	Not available.
Vapor pressure	Not available.
Vapor density	Not available.
Relative density	1.03
Solubility(ies)	
Solubility (water)	Soluble
Partition coefficient (n-octanol/water)	Not available.
Auto-ignition temperature	Not available.
Decomposition temperature	Not available.
Viscosity	50 - 140 KU (25 °C)
Other information	
Density	8.55 lb/gal
Explosive properties	Not explosive.
Oxidizing properties	Not oxidizing.
VOC	27 (including water)(Material) 98 (excluding water)(Coating)

10. Stability and reactivity

Reactivity	The product is stable and non-reactive under normal conditions of use, storage and transport.
Chemical stability	Material is stable under normal conditions.
Possibility of hazardous reactions	No dangerous reaction known under conditions of normal use.
Conditions to avoid	Contact with incompatible materials.
Incompatible materials	Strong oxidizing agents.
Hazardous decomposition products	No hazardous decomposition products are known.

11. Toxicological information

Information on likely routes of exposure

Inhalation	Prolonged inhalation may be harmful.
Skin contact	Prolonged skin contact may cause temporary irritation.
Eye contact	Direct contact with eyes may cause temporary irritation.
Ingestion	Expected to be a low ingestion hazard.
Symptoms related to the physical, chemical and toxicological characteristics	Direct contact with eyes may cause temporary irritation.

Information on toxicological effects

Acute toxicity	Not expected to be acutely toxic.
Skin corrosion/irritation	Prolonged skin contact may cause temporary irritation.
Serious eye damage/eye irritation	Direct contact with eyes may cause temporary irritation.
Respiratory or skin sensitization	
Respiratory sensitization	Not a respiratory sensitizer.
Skin sensitization	This product is not expected to cause skin sensitization.
Germ cell mutagenicity	No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.
Carcinogenicity	Not classifiable as to carcinogenicity to humans.
IARC Monographs. Overall Evaluation of Carcinogenicity	Not listed.
NTP Report on Carcinogens	Not listed.
OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053)	Not listed.

Reproductive toxicity This product is not expected to cause reproductive or developmental effects.

Specific target organ toxicity - single exposure Not classified.

Specific target organ toxicity - repeated exposure Not classified.

Aspiration hazard Not an aspiration hazard.

Chronic effects Prolonged inhalation may be harmful.

12. Ecological information

Ecotoxicity Harmful to aquatic life.

Persistence and degradability No data is available on the degradability of any ingredients in the mixture.

Bioaccumulative potential No data available.

Mobility in soil This product is water soluble and may disperse in soil.

Other adverse effects The product contains volatile organic compounds which have a photochemical ozone creation potential.

13. Disposal considerations

Disposal instructions Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Incinerate the material under controlled conditions in an approved incinerator.

Local disposal regulations Dispose in accordance with all applicable regulations.

Hazardous waste code The waste code should be assigned in discussion between the user, the producer and the waste disposal company.

Waste from residues / unused products Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner.

Contaminated packaging Since emptied containers may retain product residue, follow label warnings even after container is emptied. Empty containers should be taken to an approved waste handling site for recycling or disposal.

14. Transport information

DOT

Not regulated as dangerous goods.

IATA

Not regulated as dangerous goods.

IMDG

Not regulated as dangerous goods.

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code Not applicable.

15. Regulatory information

US federal regulations

This product is not known to be a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated.

CERCLA Hazardous Substance List (40 CFR 302.4)

Not listed.

SARA 304 Emergency release notification

Not regulated.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053)

Not listed.

Toxic Substances Control Act (TSCA)

All components are listed on or exempt from the U.S. EPA TSCA Inventory List.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

SARA 302 Extremely hazardous substance

Not listed.

SARA 311/312 Hazardous chemical

No

SARA 313 (TRI reporting)

Not regulated.

Other federal regulations

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

Not regulated.

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Not regulated.

Safe Drinking Water Act (SDWA)

Not regulated.

US state regulations

US. Massachusetts RTK - Substance List

Not regulated.

US. New Jersey Worker and Community Right-to-Know Act

Not listed.

US. Pennsylvania Worker and Community Right-to-Know Law

Not listed.

US. Rhode Island RTK

Not regulated.

16. Other information, including date of preparation or last revision

Issue date 16-January-2020

Revision date 31-August-2020

Version # 02

HMIS® ratings
Health: 0
Flammability: 0
Physical hazard: 0

List of abbreviations
DOT: Department of Transportation (49 CFR 172.101).
IATA: International Air Transport Association.
IBC Code: International Code for the Construction and Equipment of Ships Carrying Dangerous Chemicals in Bulk.
IMDG Code: International Maritime Dangerous Goods Code.
MARPOL: International Convention for the Prevention of Pollution from Ships.

References
HSDB® - Hazardous Substances Data Bank
IARC Monographs. Overall Evaluation of Carcinogenicity

Disclaimer
Behr Process Corp cannot anticipate all conditions under which this information and its product, or the products of other manufacturers in combination with its product, may be used. It is the user's responsibility to ensure safe conditions for handling, storage and disposal of the product, and to assume liability for loss, injury, damage or expense due to improper use. The information in the sheet was written based on the best knowledge and experience currently available.

1. Identification of the Substance / Mixture and of the Company

1.1 PRODUCT IDENTIFICATION (for finished and basemix products)

Xypex Cementitious Products

Concentrate

Modified

Admix C-500 & C-500 NF

Admix C-1000 & C-1000 NF

Admix C-500 NF Red & Admix C-1000 Red

Admix C-2000 & C-2000 NF

Megamix I, Megamix II & Megamix II with Bio-San

FCM 80 (powder component)

Patch'n Plug

PRODUCT USE

Waterproofing and protection of concrete

1.2

COMPANY IDENTIFICATION

Xypex Chemical Corporation

1.3

13731 Mayfield Place

Richmond, B.C., Canada

Tel: 604-273-5265 or 800-961-4477

Fax: 604-270-0451

E-mail: enquiry@xypex.com

Web: www.xypex.com

EMERGENCY TELEPHONE NUMBERS

During normal Pacific Standard Time (PST)

1.4

800-961-4477 or 604-273-5265

All other times, and in times of unavailability, contact your local emergency services.

2. Hazards Identification

2.1 CLASSIFICATION OF THE MIXTURE

2.1.1 Classification In Accordance With GHS (5th Edition)

Skin Irrit. 2: H315 Causes skin irritation.

Eye Dam. 1: H318 Causes serious eye damage.

Skin Sens. 1: H317 May cause an allergic skin reaction.

STOT SE 3: H335 May cause respiratory irritation.

STOT RE 2: H373 May cause damage to respiratory organs through prolonged or repeated exposure.

2.2 LABEL ELEMENTS: in Accordance with GHS (5th Edition)



DANGER

2.3 HAZARD STATEMENTS

H315 Causes skin irritation.

H318 Causes serious eye damage.

H317 May cause an allergic skin reaction.

H335 May cause respiratory irritation.

H373 May cause damage to respiratory organs through prolonged or repeated exposure.

2.4 PRECAUTIONARY STATEMENTS

P280 Wear protective gloves / protective clothing / eye protection / face protection & approved duct masks.

P260 Do not breathe dust.

P264 Wash thoroughly after handling.

2.5 RESPONSIVE PRECAUTIONARY STATEMENTS

P260 Do not breathe dust

P264 Wash thoroughly after handling

P280 Wear protective gloves / protective clothing / eye protection / face protection.

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes.

Remove contact lenses, if present and easy to do. Continue rinsing.

P310 Immediately call a POISON CENTRE or doctor / physician.

P304 + P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

3. Composition / Information on Ingredients

Hazardous Ingredients	%	CAS. No.	Classification According to GHS (5th Edition)
Portland Cement	35 - 60%	65997-15-1	Skin Irrit. 2: H315 Skin Sens. 1: H317 Eye Dam. 1: H318 STOT SE 3: H335
Alkaline Earth Compounds (calcium dihydroxide)	5 - 20%	1305-62-0	Skin Irrit. 2: H315 Eye Dam. 1: H318 STOT SE 3: H335
Silica Sand (< 0.005 % (w/w) 10 µm respirable silica)	30 - 40%	14808-60-7	STOT RE 2: H373

4. First Aid Measures

4.1 DESCRIPTION OF FIRST AID MEASURES

When seeking medical advice take this safety data sheet with you.

INHALATION: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Dust in throat and nasal passages should clear spontaneously. If not, irrigate nose and throat with clean water for at least 20 minutes. Seek immediate professional medical attention.

EYE CONTACT: IF IN EYES – Quickly and gently blot away any dry powder. Irrigate cautiously with large amounts of water for at least 20 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Do not rub eyes as this may cause additional irritation or damage. Seek immediate professional medical attention if irritation persists.

SKIN CONTACT: Quickly and gently blot away any dry powder. Under running water, remove contaminated clothing, shoes and leather goods. Continuously flush contaminated area with lukewarm, gently flowing water for at least 20 minutes. If skin irritation or rash occurs, seek medical advice / attention.

INGESTION: Do not induce vomiting. If vomiting occurs naturally, have victim lean forward to reduce risk of aspiration. If conscious, wash out mouth with clean water. Drink 1 cup (240 - 300 ml) of water followed by dilution with milk if available. Never give anything by mouth if victim is rapidly losing consciousness, unconscious or convulsing. Seek immediate professional medical assistance and contact a poison centre.

4.2 MOST IMPORTANT SYMPTOMS AND EFFECTS, BOTH ACUTE AND DELAYED

ACUTE: Irritation to skin and mucous membranes.

DELAYED: Precautions should be taken to ensure that dust is not inhaled; however, long-term exposure to high levels of dust may result in damage to the lungs.

4.3 IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENT

Move person to fresh air and away from exposure. Wash and clean eyes or skin as described in 4.1. Ensure eyewash facilities are available.

5. Firefighting Measures

5.1 EXTINGUISHING MEDIA

Xypex Cementitious Products are not flammable and are not subject to explosion.

5.2 SPECIAL HAZARDS ARISING FROM THE SUBSTANCE OR MIXTURE

No hazardous combustion products.

Alkaline earth compounds will cause explosive decomposition of maleic anhydride, nitroalkanes and nitroparaffins, in the presence of water, form salts with inorganic salts and with inorganic bases. The dry salts are explosive.

5.3 ADVICE FOR FIREFIGHTERS

No need for specialist protective equipment for firefighters. Prior to using the product liaise with local fire authority for confirmation of best and most current form of firefighting equipment for the product.

6. Accidental Release Measures

6.1 PERSONAL PROTECTIVE MEASURES

Always wear full protective equipment as referred to under Section 8.2.2 to prevent any contamination of skin, eyes, respiratory system and personal clothing. Ensure adequate measures are in place to prevent airborne dust. Avoid airborne dust generation.

6.2 ENVIRONMENT PROTECTION MEASURES

Do not allow product into drains or water courses. Any spillages into watercourses must be alerted to the Environment Agency or other regulatory body.

6.3 METHODS FOR CLEANING UP

At all times avoid inhalation of product and contact with skin and eyes. Contain the spillage. Keep the material dry if possible. Wear full personal protective equipment when cleaning up, whatever method is chosen. When the product is in a dry state, avoid airborne dust generation when cleaning up. Avoid dry sweeping. Examples of cleanup methods when in dry state are:

(A) Using a vacuum cleaner (Industrial portable units), equipped with high efficiency particulate filters (HEPA filter) or equivalent technique.

(B) Wipe up the dust by mopping, wet brushing or water sprays or hoses with a fine mist to avoid the dust becoming airborne and remove slurry. Ensure drains are covered.

If the product has become wet, clean up and place in watertight container. Allow material to dry and solidify before disposal. Check current regulations before disposing of spillage, whether in dry state or not.

7. Handling & Storage

7.1 HANDLING

Avoid all types of dust generation; particularly the creation of respirable dust. At all times avoid inhalation of product and contact with skin and eyes. Carrying the product may cause back injuries, strains, sprains or the like. Use correct handling techniques to avoid injury. Use handling equipment and controls if necessary to avoid injury. If in doubt, contact your local health and safety body for further guidance on annual handling. Always wear sufficient and full protective equipment and suitable clothing when handling the product. General – During work avoid kneeling in the product. If kneeling is absolutely necessary then appropriate impervious waterproof personal protective equipment must be worn.

Ensure adequate ventilation and have ventilation equipment available if required due to possibility of generation of airborne dust.

Do not eat, drink or smoke when handling or applying product. Remove contaminated clothing and protective equipment before entering eating areas.

Avoid mishandling of pails of bags so as to prevent accidental bursting and creation of dust.

7.2 STORAGE

P402 + P232 + 233 Store in a dry place. Protect from moisture. Keep container tightly closed.

Store this product in a draught free environment, clear of the ground, avoiding humid conditions and extremes of temperature (minimum lower temperature of 7°C (45°F)). The product should be used within 12 months of the date of production; product should not have been exposed to the atmosphere prior to use.

Any product that is stacked should be done so in a stable manner, and to a safe height. The stacking of product should be done in such a manner that it does not create any risk of product falling and accidentally bursting the packaging open.

This product contains Portland cement and thus Chromium (VI) and may produce an allergic reaction. The cement in this product may contain a reducing agent; the effectiveness of the reducing agent reduces with time.

8. Exposure Control / Personal Protection

8.1 CONTROL PARAMETERS

P260 Do not breathe dust.

P401 Store in original containers.

Substance	CAS No	Regulatory Limits			Recommended Limits	
		OSHA PEL		Cal/OSHA PEL (as of 4/26/13)	NIOSH REL (as of 4/26/13)	ACGIH 2015 TLV
		ppm	mg/m	8-hour TWA (ST) STEL (C) Ceiling	Up to 10-hour TWA (ST) STEL (C) Ceiling	8-hour TWA (ST) STEL (C) Ceiling
Calcium hydroxide	1305-62-0					
Total dust			15	5 mg/m ³	5 mg/m ³	5 mg/m ³
Respirable fraction			5			
Portland cement	65997-15-1					
Total dust			15	10 mg/m ³	10 mg/m ³	
Respirable fraction			5	5 mg/m ³	5 mg/m ³	1 mg/m (no asbestos and < 1% crystalline silica)
Silica: Crystalline	14808-60-7					0.025 (resp.) for a-quartz and cristobalite mg/m ³
Quartz (Respirable)		250(h) (%SiO ₂ +5)	10 mg/m (%SiO ₂ +2)	0.1 mg/m ³	Ca 0.05 mg/m ³	
Quartz (Total Dust)			30 mg/m (%SiO ₂ +2)			

Please refer to OSHA website for additional information.

Please note that the % of respirable crystalline silica in the silica sand is < 0.005 % but some processes and uses may increase this fraction.

8.2 EXPOSURE CONTROLS

8.2.1 Appropriate Engineering Controls

Provide adequate and suitable ventilation / ventilation equipment when handling product, to maintain dust below OES. All ventilation systems should be filtered before discharge to atmosphere. Isolate personnel from dusty areas.

Do not eat, drink or smoke when working with the product to avoid contact with skin or mouth. Immediately after working with the product, workers should wash or shower or use skin moisturizers. Remove contaminated clothing, footwear, watches, etc... and clean thoroughly before re-using.

8.2.2 *Personal Protection Equipment*

P280	Wear protective gloves / protective clothing / eye protection / face protection.
P264	Wash hands thoroughly after handling.
P272	Contaminated work clothing should not be allowed out of the workplace.

Skin Protection – Use impervious, abrasion and alkali resistant gloves, enclosed rubber boots that resist powder and liquid penetration, closed long-sleeved impervious protective clothing that protects skin from contact. Close all fittings at opening.

Eye Protection – Wear safety goggles / glasses at all times when handling the product. Ensure the goggles / glasses have suitable side protection, are wide vision, and that there is no risk of product particles being able to enter the eye(s).

Respiratory Protection – Always use respiratory protection. Inhalation of product dust must be avoided at all times. Use an APPROVED NIOSH dust mask. Respiratory protective equipment must be in compliance with relevant national legislation. It is good practice to conduct fit-testing when selecting respiratory protective equipment.

Additional safety precautions may include the provision a shower facility.

8.2.3 *Environmental Exposure Controls*

According to available technology that limit dust dispersion into the environment.

9. Physical & Chemical Properties

9.1 INFORMATION ON BASIC PHYSICAL AND CHEMICAL PROPERTIES

<i>Appearance</i>	Grey particulate powder
<i>Odour</i>	None
<i>pH</i>	pH 9.1 – 9.8 (EPA method 2 parts water to 1 part powder by volume weight)
<i>Melting / Freezing Point</i>	Not applicable
<i>Initial Boiling Point and Range</i>	Not applicable
<i>Flash Point</i>	Not applicable
<i>Evaporation Rate</i>	Not applicable
<i>Flammability Upper / Lower flammability / Explosive Limits</i>	Not applicable
<i>Vapour Pressure</i>	Not applicable
<i>Vapour Density</i>	Not applicable
<i>Solubility</i>	Powder forms slurry with water, hardens over time
<i>Auto-ignition Temperature</i>	Not applicable
<i>Decomposition Temperature</i>	Alkaline earth compounds: 580°C
<i>Viscosity</i>	Not applicable
<i>Explosive Properties</i>	Not applicable
<i>Oxidizing Properties</i>	Not applicable
<i>Specific Gravity</i>	2.0 to 2.8 (water = 1)

10. Stability & Reactivity

10.1 REACTIVITY

Alkaline earth compounds react vigorously with strong acids. They also attack aluminum, lead and brass in the presence of moisture.

In the presence of water, calcium aluminates react chemically and harden to form stable calcium aluminate hydrates. This reaction is exo-thermal and may last up to 24 hours. The total heat released is < 500 kJ/kg.

10.2 CHEMICAL STABILITY

The product is chemically stable. When mixed with water it will harden, with time, into a stable mass. Products may liberate Carbon Monoxide or Carbon Dioxide.

10.3 POSSIBILITY OF HAZARDOUS REACTIONS

Alkaline earth compounds will cause explosive decomposition of maleic anhydride, nitroalkanes and nitroparaffins, in the presence of water, form salts with inorganic salts and with inorganic bases. The dry salts are explosive.

Alkaline earth compound is stable up to 580°C. Alkaline earth compounds decompose with loss of water at approximately 580°C to form Calcium Oxide.

10.4 CONDITIONS TO AVOID

Avoid humid and drafty environments during storage. Also avoid storage temperatures below 7°C.

10.5 INCOMPATIBLE MATERIALS

Products are incompatible with strong acids.

It should be noted that the uncontrolled use of aluminum powder in wet cement should be avoided as hydrogen is produced.

10.6 HAZARDOUS DECOMPOSITION PRODUCTS

None known.

11. Toxicological Information

11.1 INFORMATION ON TOXICOLOGICAL EFFECTS

Acute Dermal Toxicity: The cement incorporated with the other ingredients in this product has been subject to a Limit test. (Limit test, rabbit, 24 hours contact, 2,000 mg/kg body weight – no lethality.) Calcium dihydroxide is not acutely toxic. Rabbit dermal LD50 > 2,500 mg/kg/bw.

Acute Oral Toxicity: May cause irritation to the gastrointestinal tract. Calcium dihydroxide is not acutely toxic. Rat oral LD50 > 2,000 mg/kg/bw.

Acute Inhalation Toxicity: The product may irritate the throat and respiratory tract. Inhalation may lead to irritation, inflammation or burns. Coughing, sneezing and shortness of breath may occur following exposures in excess of occupational exposure limits.

Skin Corrosion / Irritation: When skin is exposed to the product in its dry or wet state, thickening, cracking or fissuring of the skin may occur. Prolonged contact in combination with abrasion can cause severe burns.

Portland cement and alkaline earth compound are an irritant to skin. Ingredients are dermal irritants and dermatitis may develop following exposure.

Cement may have an irritating effect on moist skin (due to transpiration of humidity) after prolonged contact. Prolonged skin contact with wet cement or fresh concrete may cause serious burns because they develop without pain being felt. Repeated skin contact with wet cement may cause dermatitis.

This mixture contains < 2 ppm Chromium (VI), which is a skin irritant.

Serious Eye Damage / Irritation: Direct contact with product may cause corneal damage by mechanical stress, immediate or delayed irritation or inflammation. Direct contact either in dry or wet form may cause effects ranging from moderate eye irritation (eg. conjunctivitis or blepharitis) to chemical burns or blindness.

Skin Sensitization: This product contains Portland cement which is classified as a skin sensitizer.

Contact Dermatitis / Sensitizing Effects: Prolonged and repeated skin contact with Alkaline earth products may cause dermatitis.

Some individuals may exhibit eczema upon exposure to wet cementitious products, caused either by the high pH which induces irritant contact dermatitis, or by an immunological reaction to soluble Cr (VI) which elicits allergic contact dermatitis. The response may appear in a variety of forms ranging from a mild rash to severe dermatitis and is a combination of those two mechanisms. An exact diagnosis is often difficult to assess.

Germ Cell Mutagenicity: With the exception of Chromium (VI) (< 2 ppm) in the Portland cement, none of the individual substances in this mixture are classified as mutagenic.

Carcinogenicity: This product contains silica sand and this form of silica is not classified as carcinogenic due to its large particle size. However, prolonged and / or massive exposure to respirable crystalline silica-containing dust may cause silicosis, a nodular pulmonary fibrosis caused by deposition in the lungs of fine respirable particles of crystalline silica.

In 1997, IARC (the International Agency for Research on Cancer) concluded that crystalline silica inhaled from occupational sources can cause lung cancer in humans. However it pointed out that not all industrial circumstances, nor all crystalline silica types, were to be incriminated.

IARC (1997) has concluded that there is 'sufficient evidence for the carcinogenicity of inhaled crystalline silica in the form of quartz and cristobalite in certain industrial circumstances, but that the carcinogenicity may be dependent on inherent characteristics of the crystalline silica or on external factors affecting its biological activity or distribution of polymorphs'.

Principle symptoms of lung fibrosis (commonly referred to as silicosis) are cough and breathlessness. Occupational exposure to respirable dust and respirable crystalline silica dust should be monitored and controlled.

Reproductive Toxicity: None of the individual substances in this mixture are classified as reproductive toxicants.

Specific Target Organ Toxicity – Single Exposure: Inhalation of dust can result in damage to the respiratory tract.

Specific Target Organ Toxicity – Repeat Exposure: Prolonged or repeated inhalation exposure may cause damage to the lungs, including chronic obstructive pulmonary disease (COPD).

Certain ingredients within these products do give potential for generation of respirable dust during handling and use. The dust may contain respirable crystalline silica.

Prolonged or frequent or excessive exposure to respirable crystalline silica dust, cement dust and alkaline earth products may cause respiratory disease, lung disease, lung and respiratory tract damage, ulceration and perforation of the nasal septum, pneumonitis and other serious bad health effects.

The excessive inhalation of crystalline silica dust may result in respiratory disease, including silicosis, pneumoconiosis and pulmonary fibrosis.

11.2 ASPIRATION HAZARD

No data available.

11.3 LIKELY ROUTES OF EXPOSURE

Inhalation: YES

Skin – Eyes: YES

Ingestion: NO – except in accidental cases

11.4 POTENTIAL HEALTH EFFECTS

The product may irritate and burn the throat and respiratory tract. Coughing, sneezing and shortness of breath may occur following exposures in excess of occupational exposure limits. Causes skin irritation and is a severe eye irritant.

Chronic exposure to respirable dust in excess of occupational exposure limits may cause coughing, shortness of breath and may cause chronic obstructive lung disease (COPD).

11.5 MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE

Inhaling dust may aggravate existing respiratory system disease(s) and / or medical conditions such as emphysema or asthma and / or existing skin and / or eye conditions.

12. Ecological Information

12.1 ECOTOXICITY

Do not allow the material to enter water course. If water is contaminated inform the relevant authorities immediately. The addition of a significant amount of cementitious products to water may cause a rise in the pH value and therefore may be toxic to aquatic life under certain circumstances.

Alkaline conditions may also have effects on vegetation.

The following toxicity values are available for calcium dihydroxide:

LC50 (96h) for freshwater / marine fish: 50.6 mg/l and 457 mg/l

EC50 (48h) for freshwater invertebrates: 49.1 mg/l

LD50 (96h) for marine water invertebrates: 158 mg/l

EC50 (72h) for freshwater algae: 184.57 mg/l and the NOEC is 48 mg/l

NOEC (14d) for marine water invertebrates: 32 mg/l

EC10/LC10 or NOEC for soil macro-organisms: 2,000 mg/kg soil dw and for micro-organisms is 12,000 mg/kg/ soil dw

NOEC (21d) for terrestrial plants: 1,080 mg/kg

12.2 PERSISTENCE AND DEGRADABILITY

Alkaline earth material is non bio-degradable; it reacts with atmosphere and dissolved carbon dioxide to form calcium carbonate (chalk).

12.3 BIO ACCUMULATIVE POTENTIAL

None of the substances in this mixture are known to bioaccumulate.

12.4 MOBILITY IN SOIL

Not known.

12.5 RESULTS OF PBT AND VPVB ASSESSMENT

This mixture does not contain any substances that are assessed to be PBT or vPvB.

13. Disposal Considerations

13.1 WASTE TREATMENT METHODS

Avoid creation of airborne and respirable dust when disposing of product.

Product – Unused Residue or Dry Spillage

Pick up dry and put in containers. Mark container clearly. In case of disposal, harden with water to avoid dust creation. Dispose of at a licensed waste facility accepting cementitious and alkaline earth based waste. Dispose of all materials in accordance with current local regulations / legislation.

Product – Slurries

Allow to harden. Avoid entry into sewage and drainage systems or into bodies of water and dispose of as indicated for hardened product.

Product – After Addition of Water, Hardened

Dispose of at a licensed waste facility accepting cementitious and alkaline earth based waste. Dispose of all materials in accordance with current regulations / legislation. Avoid entry into sewage and drainage systems or into bodies of water.

13.2 PACKAGING

Completely empty packaging and process it according to current regulations / legislation.

14. Transportation Information

The product is not classified as hazardous for transport purposes.

15. Regulatory Information

GHS
WHMIS
OSHA

16. Other Information

Abbreviations

ACGIH	American Conference of Governmental Industrial Hygienists
CAS	Chemical Abstract Service Number
OEL	Occupational Exposure Limit
TWA	Time Weighted Averages
PEL	Permissible Exposure Limit
MEL	Maximum Exposure Limit
LC	Lethal Concentration
LD	Lethal Dose
UEL	Upper Explosion Limit
LEL	Lower Explosion Limit
PPE	Personal Protective Equipment
EC50	Median effective concentration
LC50	Median lethal concentration
LD50	Median lethal dose
NOEC	No observable effect concentration
WHMIS	Workplace Hazardous Materials Information System

Hazard Statements In Full

H315	Causes skin irritation.
H318	Causes serious eye damage.
H317	May cause an allergic skin reaction.
H335	May cause respiratory irritation.
H373	May cause damage to respiratory organs through prolonged or repeated exposure.

Precautionary Statements In Full

P260	Do not breathe dust.
P271	Use only outdoors or in a well-ventilated area.
P280	Wear protective gloves / protective clothing / eye protection / face protection.
P272	Contaminated work clothing should not be allowed out of the workplace.
P264	Wash ... thoroughly after handling.

Responsive Precautionary Statements

P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310	Immediately call a POISON CENTRE or doctor / physician.
P304 + P340	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P302 + P352	IF ON SKIN: Wash with plenty of soap and water.
P332+ P313	If skin irritation or rash occurs: Get medical advice / attention.
P362	Take off contaminated clothing and wash before reuse.
P501	Dispose of contents / container to ...
P403 + P233	Store in a well-ventilated place. Keep container tightly closed.
P405	Store locked up.
P314	Get medical advice / attention if you feel unwell.

Revisions Date: February 23, 2023

Disclaimer: Xypex Chemical Corporation believes the information contained herein is accurate; however, Xypex makes no guarantees with respect to such accuracy and assumes no liability in connection with the use of the information contained herein which is not intended to be and should not be construed as legal advice or as insuring compliance with any federal, state, provincial or local laws or regulations. Any party using these products should review all such laws, rules, regulations prior to use, including, but not limited to the US and Canada Federal, Provincial and State regulations.

Attachment G – Proposed Upgraded Fan Specifications



GX PRO SERIES



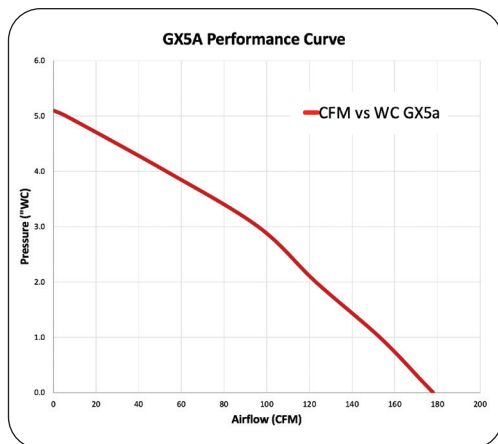
GX5A



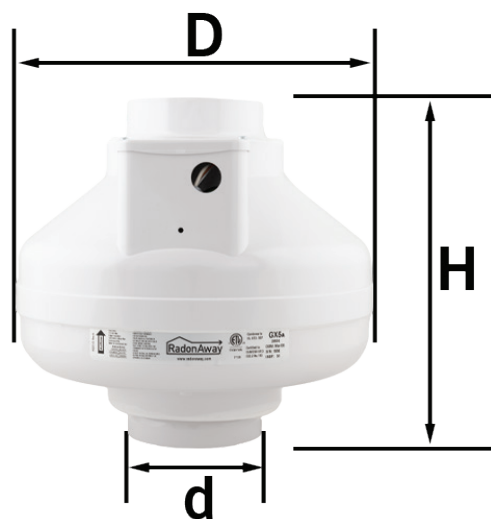
Features

- Eternalast™ polycarbonate plastic fan housing
- Revolutionary impeller
- Water-hardened thermally-protected motor
- Quiet operation
- 4" duct for use with 3" or 4" Pipe
- Sealed seams to inhibit radon leakage
- Electrical box for hard wire or plug in
- For indoor or outdoor use
- Rated for commercial or residential use

MODEL	P/N	FAN DUCT DIAMETER	WATTS	RECOM. MAX. OP. PRESSURE "WC	MAX PRESSURE	TYPICAL CFM vs. STATIC PRESSURE WC						
						0"	0.2"	1.0"	2.0"	3.0"	4.0"	5.0"
GX5A	28536	4"	80-180	5.0"	5.1"	178	173	153	123	96	53	6



MODEL	DUCT SIZE - OD (d)	DIAMETER (D)	HEIGHT (H)
GX5A	4.5"	11.9"	11.1"



with U.S. and imported parts.



ETL Listed



RadonAway® Pro Series inline radon fans are covered by a 5-year, limited warranty.

For more information
(800) 767-3703
radonaway.com



Rev B 0723
P/N 02104



Rn Radon fans

For Active Soil Depressurization (ASD) mitigation applications

- Designed specifically for Active Soil Depressurization (ASD) mitigation applications
- Air-tight housing - zero leakage
- UV-resistant resin housing
- UL Listed for safety and outdoor use
- HVI-certified fan performance
- 5-year factory warranty

[Find more details in our online catalogue](#)

Various Mitigation Scenarios

The suction and air range of Rn 1, Rn 2, and Rn 3 models covers the majority of Radon mitigation applications for both residential and commercial jobs.

Adjust suction on the go

Rn 2EC and Rn 4EC are equipped with a built-in speed controller, giving the user the option to adjust the fan speed to reach a desired level of suction with low power consumption.

Certifications



HVI Certified



UL Listed



Green Ventilation