May 27, 2025

Christopher Allan
New York State Department of Environmental Conservation
Division of Environmental Remediation
47-20 21st Street
Long Island City, NY 11101
Christopher.Allan@dec.ny.gov

Re: Pilot Study II Work Plan
IRM LNAPL Recovery with Best Management Practices
ABC Block 26
Long Island City, NY
BCP Site No. C241174
Langan Project No. 170340203

Dear Mr. Allan:

Langan Engineering, Environmental, Surveying, Landscape Architecture and Geology, D.P.C (Langan) prepared this Pilot Study Work Plan for New York State Department of Environmental Conservation (NYSDEC) Brownfield Cleanup Program (BCP) Site No. C241174 (ABC Block 26 or the site). The site is located at 5-25 46th Avenue in Long Island City, New York and is identified as Queens Tax Block 26, Lots 17 and 21. A site location map is provided as Figure 1.

As requested by NYSDEC and New York State Department of Health (NYSDOH) in the Pilot Study Results Memo Approval letter sent on April 7, 2025 (included as Appendix A), Langan will complete a second field pilot study, referred to as "Pilot Study II", that will consist of a light non-aqueous phase liquid (LNAPL) recovery event within an indoor space at the site to understand the potential impacts to air quality while using best management practices. Pilot Study II results will be used to refine the scope of work for the forthcoming NAPL recovery Interim Remedial Measures Work Plans (IRMWP) for the site and the other two ABC BCP sites (ABC Block 25 [BCP Site No. C241173] and ABC Block 27 [BCP Site No. C241175]).

SITE BACKGROUND

The ABC sites enrolled into the NYSDEC BCP in 2015. Remedial investigations (RI) and Supplemental Remedial Investigations (SRI) were performed on all three sites between August 2016 and February 2022. NAPL was identified on all three BCP sites during the RIs. On May 4, 2023, the NYSDEC approved Remedial Investigation Reports (RIR) for all three BCP sites. During a conference call on May 15, 2023, the NYSDEC agreed to a conceptual course of action to start addressing BCP requirements through IRMWPs, while New York City pursues potential land use

actions affecting the sites, to enable the final remedy to occur in conjunction with future redevelopment of the sites. During a subsequent meeting with the NYSDEC and NYSDOH, the NYSDEC agreed that the scope of the IRMWPs at all three BCP sites will include an inspection and repair of the current cover systems and LNAPL recovery events. The NYSDEC and NYSDOH asked the Participant to conduct a pilot study on one of the BCP sites to evaluate whether product recovery events could adversely impact indoor air at the sites before the IRMWPs are submitted.

Distinct sources of LNAPL were identified during the RIs at the ABC sites. Mineral spirits and diesel fuel related to the upgradient Paragon Paint and Varnish Corp. BCP site were identified in the eastern part of ABC Block 26. Residual/weathered LNAPL (without a clear hydrocarbon signature) related to historical on-site petroleum bulk storage was identified in defined areas on all three sites. Since these sources/types of LNAPL were observed at ABC Block 26, NYSDEC and Langan agreed to utilize ABC Block 26 as the test site for the pilot study and utilize the results to support development of the IRMWP scope for all three BCP sites.

Langan submitted a pilot study work plan to NYSDEC and NYSDOH on August 21, 2023 (included as Appendix B) and, upon approval by NYSDEC, Langan implemented the work plan on February 10 and February 17, 2024. Langan issued a pilot study results memorandum to NYSDEC and NYSDOH on February 19, 2025 (included as Appendix C). Langan recommended conducting a second iteration of the pilot study with a focus on evaluating indoor air quality during absorbent sock replacement activity when best management practices are employed (i.e., opening exterior doors/windows and using a fan) to assess the effectiveness of these practices on mitigating impacts to indoor air quality. NYSDEC agreed with the recommendation to conduct a second iteration of the pilot study focusing on evaluating indoor air quality during LNAPL recovery efforts when best practices are employed and requested a second field pilot study work plan in a Pilot Study Results Approval Letter dated April 7, 2025.

Langan proposes to utilize monitoring well MW30D (where the observed LNAPL is related to historical on-site petroleum bulk storage) and neighboring monitoring wells C241174_MW16D and C241174_MW19D (where the LNAPL is related to the Paragon Paint and Varnish Corp. BCP site) for Pilot Study II.

PILOT STUDY II IMPLEMENTATION

Pilot Study II will be completed during three separate field deployments (one field day each) to 1) evaluate indoor air quality during product recovery events when best management practices are employed, 2) to assess the effectiveness of these practices on mitigating impacts to indoor air quality, and 3) to evaluate the return of indoor air quality to baseline conditions after the product recovery events. Each deployment will occur while sample/LNAPL recovery locations are not occupied by tenants.

Baseline Indoor Air Sampling and Absorbent Sock Deployment

During the first field deployment, Langan will complete a baseline air sampling event in two locations – one near monitoring well MW30D and one between monitoring wells MW16D and MW19D. The proposed baseline air sampling locations are included on Figure 2. Langan will subsequently install absorbent socks[1] at monitoring wells MW16D and MW19D. An absorbent sock will not be installed in MW30D, as there is an existing absorbent sock from Pilot Study I.

Before absorbent sock installation, a baseline product/chemical inventory, NYSDOH indoor air quality questionnaire, and a baseline indoor air and ambient air sampling event will be completed. The sampling event will occur after the inventory and questionnaire are completed. Before, during, and after implementation of the baseline indoor air sampling event, a photoionization detector (PID) will be used to periodically monitor volatile organic compounds (VOC) within the immediate areas of the work zone. Indoor air samples and ambient air samples will be collected over a 2-hour sampling period into laboratory-supplied batch-certified clean 2.7- or 6-liter Summa® canisters with calibrated flow controllers and analyzed for VOCs via United States Environmental Protection Agency (USEPA) method TO-15, Select Ion Monitoring (SIM) to achieve lower reporting for select compounds.[2,3] The indoor air samples will be collected at a height above the ground that represents the breathing zone (about 3 to 5 feet) . The ambient air samples will be collected from a location upwind to the fresh air intake for the building to evaluate potential outdoor air interferences. Mechanical heating, ventilation, and air conditioning (HVAC) systems will operate normally and windows and/or doors will be closed during the baseline air sampling.

Following collection of the baseline samples, the monitoring wells will be gauged for LNAPL thickness and depth to groundwater and absorbent socks will be deployed at each monitoring well. A proposed sample summary is included as Table 1.

Indoor Air Sampling and LNAPL Recovery Event

About one week after the first deployment, Langan will return to the site to change out the absorbent socks at monitoring wells MW30D, MW16D and MW19D and collect indoor air and ambient air samples during the retrieval, change-out, and disposal process (estimated to take approximately 20 minutes during the 2-hour sampling event).

The spent absorbent socks will be collected from the monitoring wells and placed directly into a high-density polyethylene (HDPE) bucket with a lid, which will be used to transfer the spent socks to a 55-gallon drum stored in a secured outdoor area at the adjoining ABC Block 27 site. Before the air monitoring event, a chemical inventory and NYSDOH indoor air quality questionnaire will be completed for each sampling location. Before, during, and after implementation of the LNAPL

[1] New Pig® hydrophobic monitoring well skimming sock (1.5" x 18") or similar equivalent

[2] Analytical services protocol (ASP) Category B data packages will be requested from the laboratory.

[3] TO-15 SIM analysis will be used to provide reporting limits of 0.20 micrograms per cubic meter or lower for trichloroethene, cis-1,2-dichloroethene, 1,1-dichloroethene, carbon tetrachloride, and vinyl chloride.

recovery indoor air sampling event, a PID will be used to periodically monitor VOCs within the immediate area of the work zone. The sock change-out and disposal process will occur during the indoor air and ambient air sampling event. The indoor and ambient sampling locations will be the same as the baseline samples and sampling methodology will be consistent with the baseline event and as described below. Mechanical HVAC systems will be on and windows and/or doors will be opened about 15-30 minutes before the start of the changeout and air sampling. A fan (RIDGID AM2560 Air Mover or equivalent) will be used adjacent to the LNAPL changeout location to move air towards the open windows and/or door. The air mover fan will also be turned on about 15-30 minutes before the start of the changeout and air sampling.

The air sampling event during the LNAPL recovery effort will include the following steps:

1. Position Summa® canister adjacent to the monitoring well at the same distance and height as recorded during the baseline sampling event
2. Open flow controller about 30 minutes before absorbent sock retrieval and change-out
3. At about the 30-minute mark:
    a. open well cover and cap
    b. retrieve the absorbent sock and place it into a HDPE bucket with a lid
    c. gauge monitoring well for depth to LNAPL and water
    d. attach string to a new absorbent sock and deploy sock into the monitoring well
    e. affix string to well cap
    f. close and tighten well cap and cover
4. Transfer spent absorbent sock from HDPE bucket to the outdoor storage drum.
5. Continue to monitor vacuum pressure and stop the sampling period before or at about the 120-minute mark.
6. Once the canisters are closed, turn off the fan and close any doors and/or windows opened for the sampling event.
7. Deliver sample canisters to the laboratory courier under standard chain of custody protocol to be analyzed for VOCs via USEPA method TO-15 SIM.

The proposed sample locations are included on Figure 2. A proposed sample summary is included as Table 1.

<u>Post-LNAPL Recovery Event Indoor Air Sampling</u>

About 24 hours after the second deployment, we will return to the site and collect indoor air and ambient air samples to evaluate if indoor air quality returns to baseline conditions.

Before the air monitoring event, a chemical inventory and NYSDOH indoor air quality questionnaire will be completed for each sampling location. A PID will be used to periodically monitor VOCs within the immediate area of the work zone. The indoor and ambient sampling locations will be the same as the baseline samples and the sampling methodology will be consistent with the baseline event. Mechanical HVAC systems will operate normally and windows and/or doors will be closed during the air sampling.

The proposed sample locations are included on Figure 2. A proposed sample summary is included as Table 1.

REPORTING

Langan will prepare a letter-style report that describes our methodologies and presents our field observations, analytical results, and conclusions. Analytical data will be validated consistent with the procedures outlined in the Remedial Investigation Work Plan (RIWP) and submitted as electronic data deliverables (EDDs) to the NYSDEC EQuIS database. The report will also include site photographs, indoor air and ambient air sampling logs, copies of the chemical/product inventories, and the completed NYSDOH questionnaires.

SCHEDULE

Mobilization for Pilot Study II will commence after this work plan is approved pending coordination of access with tenants. Mobilization is expected to be about two weeks after receiving approval of the work plan. Once Pilot Study II is completed and the analytical data is validated, Langan will draft and submit the report. We anticipate delivering a draft report about four weeks after receipt and validation of analytical data.

CERTIFICATION

I, Jason J. Hayes, certify that I am currently a Qualified Environmental Professional [as defined in 6 NYCRR Part 375] and that this Pilot Study II Work Plan was prepared in accordance with all applicable statutes and regulations and in substantial conformance with the DER Technical Guidance for Site Investigation and Remediation (DER-10).

Sincerely,

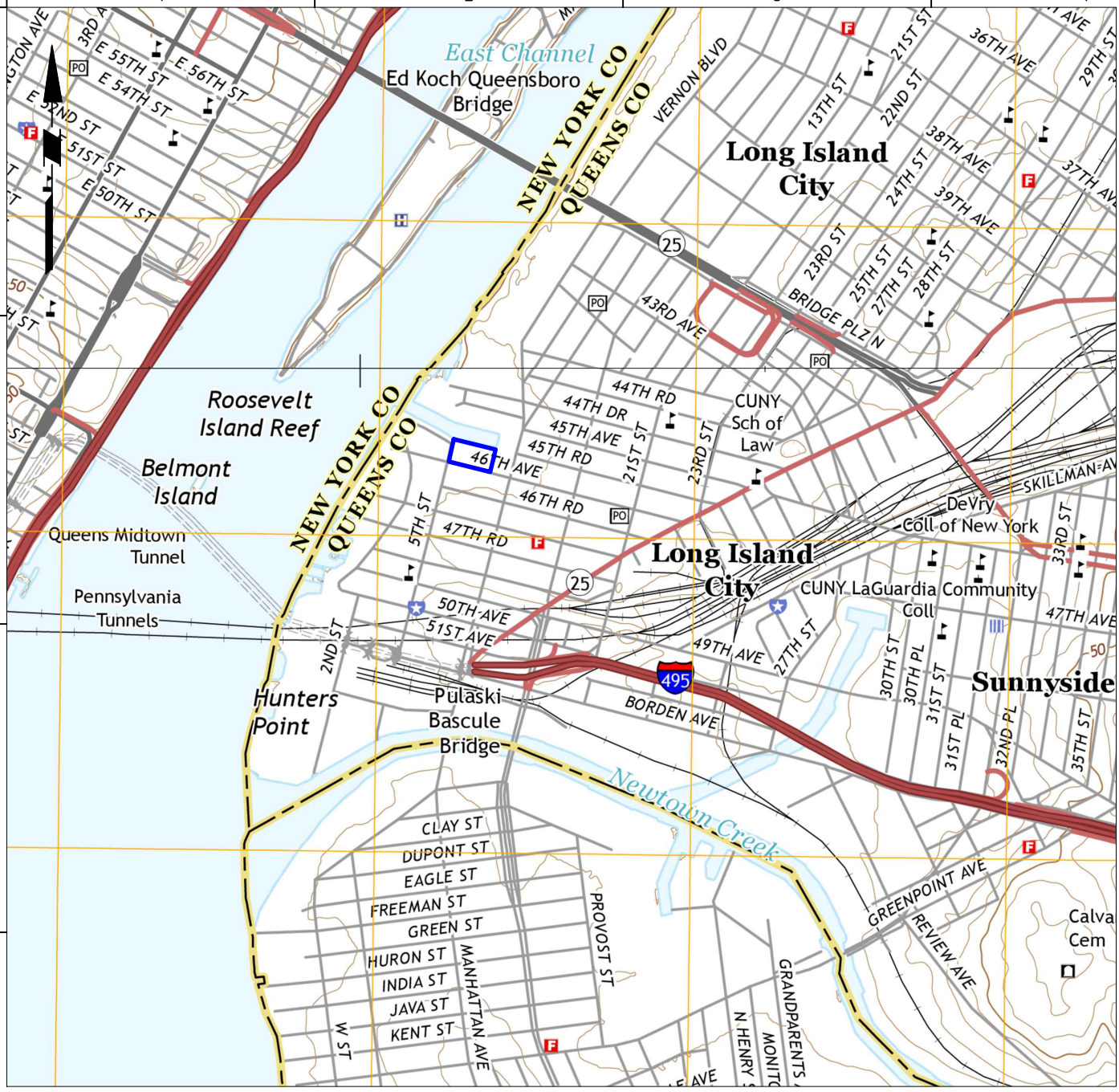
Langan Engineering, Environmental, Surveying
Landscape Architecture and Geology, D.P.C.

Jason J. Hayes, P.E.
Vice President/Principal

cc: J. O'Connell, C. Allan, M. Yau (NYSDEC)
S. Berninger (NYSDOH)
T. Pfohl, M. Quigley, P. Kirby, J. Hare (Plaxall)
E. Knauer (SPR)
M. Raygorodetsky, G. Wyka, R. Lo (Langan)

Enclosures: Figure 1 – Site Location Map
Figure 2 – Proposed Location Plan
Table 1 – Proposed Sample Summary
Appendix A – Pilot Study Results Approval and Pilot Study II Request Letter
Appendix B – Pilot Study Work Plan
Appendix C – Pilot Study Results Memo

FIGURES



LEGEND

APPROXIMATE SITE BOUNDARY

SOURCE: UNITED STATES GEOLOGICAL SURVEY TOPOGRAPHIC MAP, BROOKLYN (2016) AND CENTRAL PARK (2016)

LANGAN
Langan Engineering, Environmental, Surveying, Landscape Architecture and Geology, D.P.C.
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New York, NY 10001
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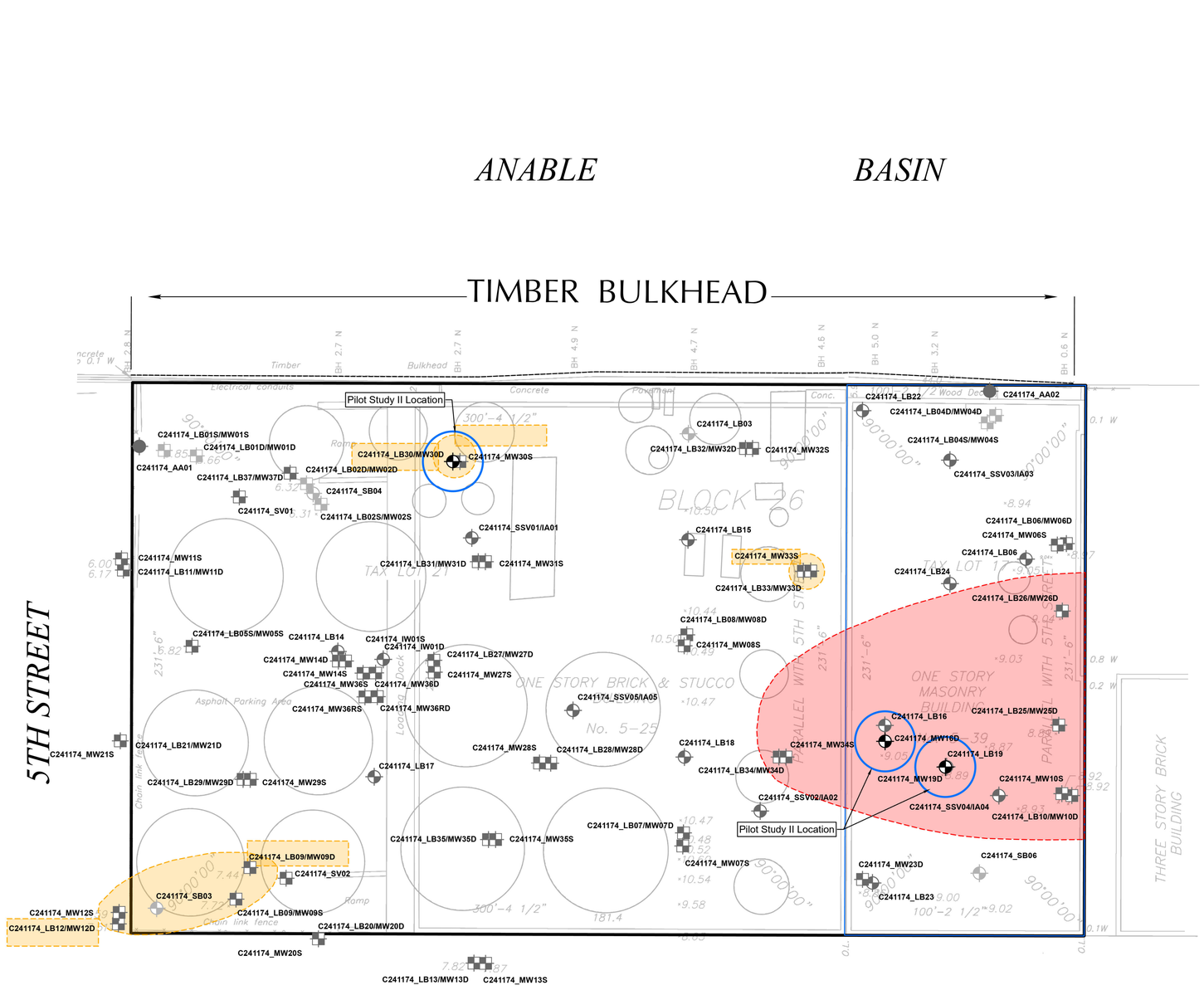
Project	ABC - BLOCK 26 BLOCK No. 26, LOT Nos. 17 and 21 QUEENS NEW YORK
Figure Title	SITE LOCATION MAP
Project No.	170340203
Date	4/29/2025
Drawn By	RL
Checked By	GW
Figure No.	1

Filename: \\Langan.com\data\NYC\data2\170340201\Cadd Data - 170340201\SheetFiles\Environmental_Block 26 - C241174\LNAPL Pilot Study\Figure 1 - Site Location Map.dwg Date: 4/29/2025 Time: 11:49 User: rolo Style Table: Langan.stb Layout: ANSIA-BP



LEGEND

C241174_MW19D	PILOT STUDY SAMPLE AND ID
C241174_LB06	RI SOIL BORING LOCATION AND ID
C241174_SB04	PREVIOUS SOIL BORING LOCATION AND ID (LANGAN APRIL 2015)
C241174_LB03	PREVIOUS SOIL BORING LOCATION AND ID (LANGAN DECEMBER 2015)
C241174_LB04D/MW04D	PREVIOUS SOIL BORING/MONITORING LOCATION AND ID (LANGAN DECEMBER 2015) S = SHALLOW - SCREEN ABOVE MEADOW MAT D = DEEP - SCREEN BELOW MEADOW MAT
C241174_LB06/MW06D	RI SOIL BORING/MONITORING WELL (DEEP) LOCATION AND ID
C241174_MW11S	RI SOIL BORING/MONITORING WELL (SHALLOW) LOCATION AND ID
C241174_SV01	RI SOIL VAPOR POINT LOCATION AND ID
C241174_SSV03/IA03	RI SUB-SLAB SOIL VAPOR POINT/INDOOR AIR LOCATION AND ID
C241174_AA01	RI AMBIENT AIR SAMPLE LOCATION AND ID
	APPROXIMATE BCP SITE BOUNDARY
	APPROXIMATE TAX LOT BOUNDARY
	APPROXIMATE EXTENT OF BULKHEAD ALONG SITE
	APPROXIMATE LOCATION OF HISTORICAL UNDERGROUND STORAGE TANK (UST) OR ABOVEGROUND STORAGE TANK (AST)
	APPROXIMATE EXTENT OF PARAGON LNAPL PRESENT IN MONITORING WELLS
	APPROXIMATE EXTENT OF OTHER LNAPL PRESENT IN MONITORING WELLS
	PILOT STUDY II LOCATION

GENERAL NOTES

1. BASE MAP SOURCE: SURVEY BY ALBERT W. TAY DATED SEPTEMBER 6, 2012.
2. ELEVATIONS ARE REFERENCED TO NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88) AND WERE OBTAINED FROM GROUND SURVEYS BY LANGAN ENGINEERING, ENVIRONMENTAL, SURVEYING AND LANDSCAPE ARCHITECTURE, D.P.C.
3. HISTORICAL UST AND AST LOCATIONS ARE APPROXIMATE AND ARE BASED ON AVAILABLE SANBORN MAPS (1898, 1915, AND 1936) AND 2005 PHASE I ESA PREPARED BY FLEMING LEE SHUE, INC.
4. LNAPL = LIGHT NON-AQUEOUS PHASE LIQUID
5. RI = REMEDIAL INVESTIGATION
6. CVOCs = CHLORINATED VOLATILE ORGANIC COMPOUNDS

0 25 50
SCALE IN FEET

LANGAN
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Langan Engineering & Environmental Services, Inc.
Langan Engineering, Environmental, Surveying and Landscape Architecture, D.P.C.
Langan International LLC
Collectively known as Langan

Project

ABC - BLOCK 26

BLOCK No. 26, LOT No. 17 and 21
LONG ISLAND CITY

QUEENS NEW YORK

Figure Title

PROPOSED PILOT STUDY II LOCATION PLAN

Project No. 170340203	Figure 2
Date 5/21/2025	
Scale 1" = 25'	
Drawn By MG	
Submission Date	Sheet 2 of 2

LANGAN
SUBMISSION DATE: XXXX ##, ####
PROJECT No. 170340203

Path: \\Langan.com\data\NYC\data2\170340203\ArcGIS\APRX\Block 26\170340201 - Block 26.aprx

TABLE

Table 1
Pilot Study II Work Plan
Proposed Sample Summary

ABC Block 26
NYSDEC BCP Site No. C241174
Long Island City, New York
Langan Project No. 170340203

No.	Sample Name	Sample Type	Sample Location	Date	Time	Analysis
INDOOR AIR SAMPLING - BASELINE						
1	C241174_BL-IA01_MW16D19D_XXXXXX	2-hour	BL-MW16D19D-IA01	XX/XX/XXXX	XX:XX	TO-15 VOCs
2	C241174_BL-IA01_MW30D_XXXXXX		BL-MW30D-IA01	XX/XX/XXXX	XX:XX	
3	C241174_BL-AA01_MW16D19D_XXXXXX		BL-MW16D19D-AA01	XX/XX/XXXX	XX:XX	
4	C241174_BL-AA01_MW30D_XXXXXX		BL-MW30D-AA01	XX/XX/XXXX	XX:XX	
INDOOR AIR SAMPLING - LNAPL RECOVERY						
5	C241174_LR-IA02_MW16D19D_XXXXXX	2-hour	LR-MW16D19D-IA02	XX/XX/XXXX	XX:XX	TO-15 VOCs
6	C241174_LR-IA02_MW30D_XXXXXX		LR-MW30D-IA02	XX/XX/XXXX	XX:XX	
7	C241174_LR-AA02_MW16D19D_XXXXXX		LR-MW16D19D-AA02	XX/XX/XXXX	XX:XX	
8	C241174_LR-AA02_MW30D_XXXXXX		LR-MW30D-AA02	XX/XX/XXXX	XX:XX	
INDOOR AIR SAMPLING - POST-LNAPL RECOVERY						
9	C241174_PLR-IA03_MW16D19D_XXXXXX	2-hour	PLR-MW16D19D-IA03	XX/XX/XXXX	XX:XX	TO-15 VOCs
10	C241174_PLR-IA03_MW30D_XXXXXX		PLR-MW30D-IA03	XX/XX/XXXX	XX:XX	
11	C241174_PLR-AA03_MW16D19D_XXXXXX		PLR-MW16D19D-AA03	XX/XX/XXXX	XX:XX	
12	C241174_PLR-AA03_MW30D_XXXXXX		PLR-MW30D-AA03	XX/XX/XXXX	XX:XX	

Notes:
1. VOC = Volatile Organic Compound

APPENDIX A

PILOT STUDY APPROVAL AND PILOT STUDY II REQUEST LETTER

NEW YORK STATE | Department of Environmental Conservation

KATHY HOCHUL
Governor

AMANDA LEFTON
Acting Commissioner

April 7, 2025

Paula C. Kirby
Plastic Center Realty Sub, LLC
5-46 46th Ave
Long Island City, NY 11101

Matt Quigley
PLAX BL26, LLC
5-46 46th Avenue
Long Island City, NY 11101

Re: ABC - Block 26
Brownfield Cleanup Program Site No. C241174
Pilot Study Results Memo

Dear Ms. Kirby and Mr. Quigley:

The New York State Department of Environmental Conservation (NYSDEC), in consultation with the New York State Department of Health, has reviewed the Pilot Study Results Memo (the Memo) dated February 19, 2025, which was prepared by Langan Engineering, Environmental, Surveying, Landscape Architecture and Geology, D.P.C. on behalf of Plastic Center Realty Sub, LLC and PLAX BL26, LLC (collectively, the Participant). The Memo was submitted to NYSDEC under the Brownfield Cleanup Program (BCP) for project number C241174. In accordance with 6 NYCRR Part 375 1.6(d)(2), the Department has reviewed this report, and it is hereby approved.

The approved Memo must be placed in all publicly accessible repositories for the Site within five business days. A certification that this document has been placed, and that the repositories are complete with all project documents, must be submitted to the NYSDEC project manager.

The NYSDEC and NYSDOH agree with the recommendation to conduct a second iteration of the pilot study focusing on evaluating indoor air quality during LNAPL recovery efforts (using sorbent socks) at two monitoring wells when best practices are employed. Within 30 days of the date of this letter, please submit a work plan describing the proposed work to be completed under the second pilot study.

If you have any questions, please feel free to contact me at (718) 482-4065 or christopher.allan@dec.ny.gov.

Sincerely,

Christopher Allan
Project Manager

Ec: J. O'Connell, C. Maycock – NYSDEC
S. McLaughlin, S. Berninger – NYSDOH
M. Raygorodetsky, G. Wyka – Langan

APPENDIX B

PILOT STUDY WORK PLAN

August 21, 2023

Christopher Allan
New York State Department of Environmental Conservation
Division of Environmental Remediation
47-20 21st Street
Long Island City, NY 11101
Christopher.Allan@dec.ny.gov

Re: Pilot Study Work Plan
IRM LNAPL Recovery
ABC Block 26
Long Island City, NY
BCP Site No. C241174
Langan Project No. 170340203

Dear Mr. Allan:

Langan Engineering, Environmental, Surveying, Landscape Architecture and Geology, D.P.C (Langan) presents this Pilot Study Work Plan for New York State Department of Environmental Conservation (NYSDEC) Brownfield Cleanup Program (BCP) Site No. C241174 (ABC Block 26 or the site). The site is located at 5-25 46th Avenue in Long Island City, New York and is identified as Queens Tax Block 26, Lots 17 and 21. A site location map is provided as Figure 1.

As discussed with the NYSDEC and New York State Department of Health (NYSDOH) during a conference call on June 27, 2023, Langan will complete a field pilot study that will consist of a light non-aqueous phase liquid (LNAPL) recovery event within an indoor space at the site to understand the potential impacts to air quality. The pilot study results will be used to refine the scope of work for the forthcoming NAPL recovery Interim Remedial Measures Work Plans (IRMWP) for the site and the other two ABC BCP sites (ABC Block 25 [BCP Site No. C241173] and ABC Block 27 [BCP Site No. C241175]).

SITE BACKGROUND

The ABC sites enrolled into the NYSDEC BCP in 2015. Remedial investigations (RI) and Supplemental Remedial Investigations (SRI) were performed on all three sites between August 2016 and February 2022. NAPL was identified on all three BCP sites during the RIs. On May 4, 2023, the NYSDEC approved Remedial Investigation Reports (RIR) for all three BCP sites. During a conference call on May 15, 2023, the NYSDEC agreed to a conceptual course of action to start addressing BCP requirements through IRMWPs, while the Participants pursue potential land use actions to enable the final remedy to occur in conjunction with future redevelopment of the sites.

During a subsequent meeting with the NYSDEC and NYSDOH, the NYSDEC agreed that the scope of the IRMWPs at all three BCP sites will include an inspection and repair of the current cover systems and LNAPL recovery events. The NYSDEC and NYSDOH asked the Participant to conduct a pilot study on one of the BCP sites to evaluate whether product recovery events could adversely impact indoor air at the sites before the IRMWPs are submitted.

Distinct sources of LNAPL were identified during the RIs at the ABC sites. Mineral spirits and diesel fuel related to the upgradient Paragon Paint and Varnish Corp. BCP site were identified in the eastern part of ABC Block 26. Residual/weathered LNAPL (without a clear hydrocarbon signature) related to historical on-site petroleum bulk storage was identified in defined areas on all three sites. Since these sources/types of LNAPL were observed at ABC Block 26, the NYSDEC and Langan agreed to utilize ABC Block 26 as the test site for the pilot study and utilize the results to support development of the IRMWP scope for all three BCP sites. We plan to utilize monitoring well MW30D (where the observed LNAPL is related to historical on-site petroleum bulk storage) and monitoring well MW34D (where the LNAPL is related to the Paragon Paint and Varnish Corp. BCP site) for the field pilot study.

PILOT STUDY IMPLEMENTATION

The pilot study will be completed during two separate field deployments (one field day each) to evaluate potential adverse impacts to indoor air during product recovery events. Each deployment will occur on weekends while sample/LNAPL recovery locations are not occupied by personnel of tenants.

Baseline Indoor Air Sampling and Absorbent Sock Deployment

During the first field deployment, Langan will complete a baseline air sampling event and subsequently install two absorbent socks[1] at monitoring wells MW30D and MW34D.

Before installation of the absorbent socks, a baseline product/chemical inventory, NYSDOH indoor air quality questionnaire, and a baseline indoor air and ambient air sampling event will be completed. The sampling event will occur after the inventory and questionnaire are completed. Two indoor (one for each monitoring well) and one ambient air sample will be collected over a 2-hour sampling period into laboratory-supplied batch-certified clean 2.7- or 6-liter Summa® canisters with calibrated flow controllers and analyzed for United States Environmental Protection Agency (USEPA) TO-15 volatile organic compounds (VOCs).[2] The indoor air samples will be collected at a height above the ground that represents the breathing zone (about 3 to 5 feet) and placed adjacent to each monitoring well. The ambient air sample will be collected from an upwind location to the fresh air intake for the building to evaluate potential outdoor air interferences.

[1] New Pig® hydrophobic monitoring well skimming sock (1.5" x 18") or similar equivalent

[2] Analytical services protocol (ASP) Category B data packages will be requested from the laboratory.

Mechanical heating, ventilation, and air conditioning (HVAC) systems will operate normally and windows and/or doors will be closed during the baseline air sampling.

Following collection of the baseline samples, the monitoring wells will be gauged for LNAPL thickness and depth to groundwater and absorbent socks will be deployed at each monitoring well. The proposed baseline air sampling locations are included on Figure 2. A proposed sample summary is included as Table 1.

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The spent absorbent socks will be collected from the monitoring wells and placed directly into a high-density polyethylene (HDPE) bucket with a lid, which will be used to transfer the spent socks to a 55-gallon drum stored in a secured outdoor area at the adjoining ABC Block 27 site. Before the air monitoring event, a chemical inventory and NYSDOH indoor air quality questionnaire will be completed. The sock change-out and disposal process will occur during the indoor air and ambient air sampling event. The indoor and ambient sampling locations will be the same as the baseline samples and sampling methodology will be consistent with the baseline event and as described below. Mechanical HVAC systems will operate normally and windows and/or doors will be closed during the air sampling.

The air sampling event during the LNAPL recovery effort will include the following steps:

1. Position Summa® canister adjacent to the monitoring well at the same distance and height as recorded during the baseline sampling event
2. Open flow controller about 30 minutes before absorbent sock retrieval and change-out
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    a. open well cover and cap
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    c. gauge monitoring well for depth to LNAPL and water
    d. attach string to a new absorbent sock and deploy sock into the monitoring well
    e. affix string to well cap
    f. close and tighten well cap and cover
4. Transfer spent absorbent sock from HDPE bucket to the outdoor storage drum.

5. Continue to monitor vacuum pressure and stop the sampling period before or at about the 120-minute mark.
6. Deliver sample canisters to the laboratory courier under change of custody for analysis.

The proposed sample locations are included on Figure 2. A proposed sample summary is included as Table 1.

REPORTING

Langan will prepare a letter-style report that describes our methodologies and presents our field observations, analytical results, and conclusions. Analytical data will be validated consistent with the procedures outlined in the Remedial Investigation Work Plan (RIWPs) and submitted as electronic data deliverables (EDDs) to the NYSDEC EQuIS database. The report will also include site photographs, indoor air and ambient air sampling logs, copies of the chemical/product inventories, and the completed NYSDOH questionnaires.

SCHEDULE

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CERTIFICATION

I, Jason J. Hayes, certify that I am currently a Qualified Environmental Professional [as defined in 6 NYCRR Part 375] and that this Pilot Study Work Plan was prepared in accordance with all applicable statutes and regulations and in substantial conformance with the DER Technical Guidance for Site Investigation and Remediation (DER-10).

Sincerely,

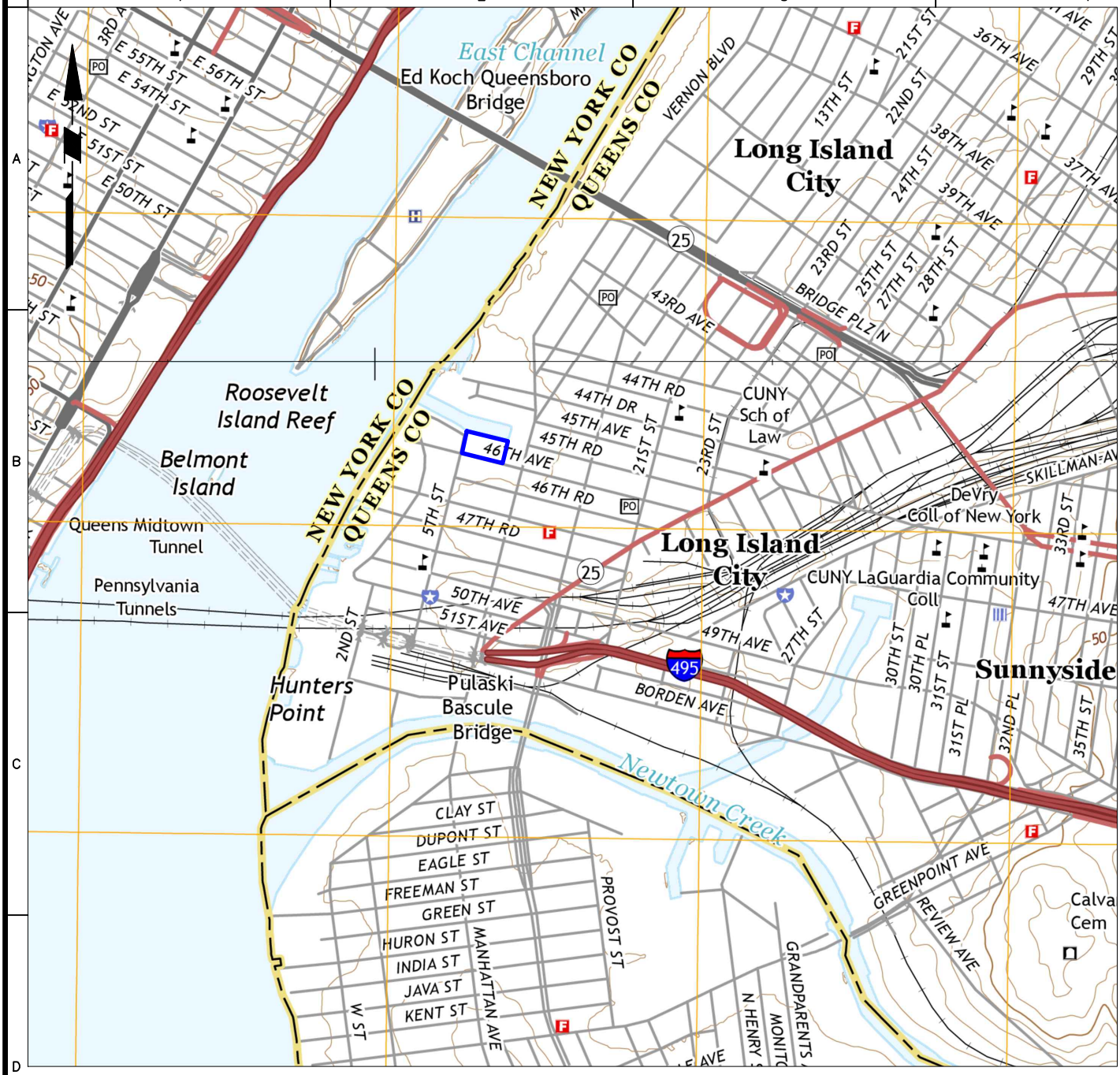
Langan Engineering, Environmental, Surveying
Landscape Architecture and Geology, D.P.C.

Jason J. Hayes, P.E.
Vice President/Principal

cc: J. O'Connell, C. Allan, M. Yau (NYSDEC)
S. Berninger (NYSDOH)
T. Pfohl, M. Quigley, P. Kirby, J. Hare (Plaxall)
E. Knauer (SPR)
M. Raygorodetsky, G. Wyka, A. Nesci (Langan)

Enclosures: Figure 1 – Site Location Map
Figure 2 – Proposed Sample Location Plan
Table 1 – Proposed Sample Summary

FIGURES



LEGEND

APPROXIMATE SITE BOUNDARY

SOURCE: UNITED STATES GEOLOGICAL SURVEY TOPOGRAPHIC MAP, BROOKLYN (2016) AND CENTRAL PARK (2016)

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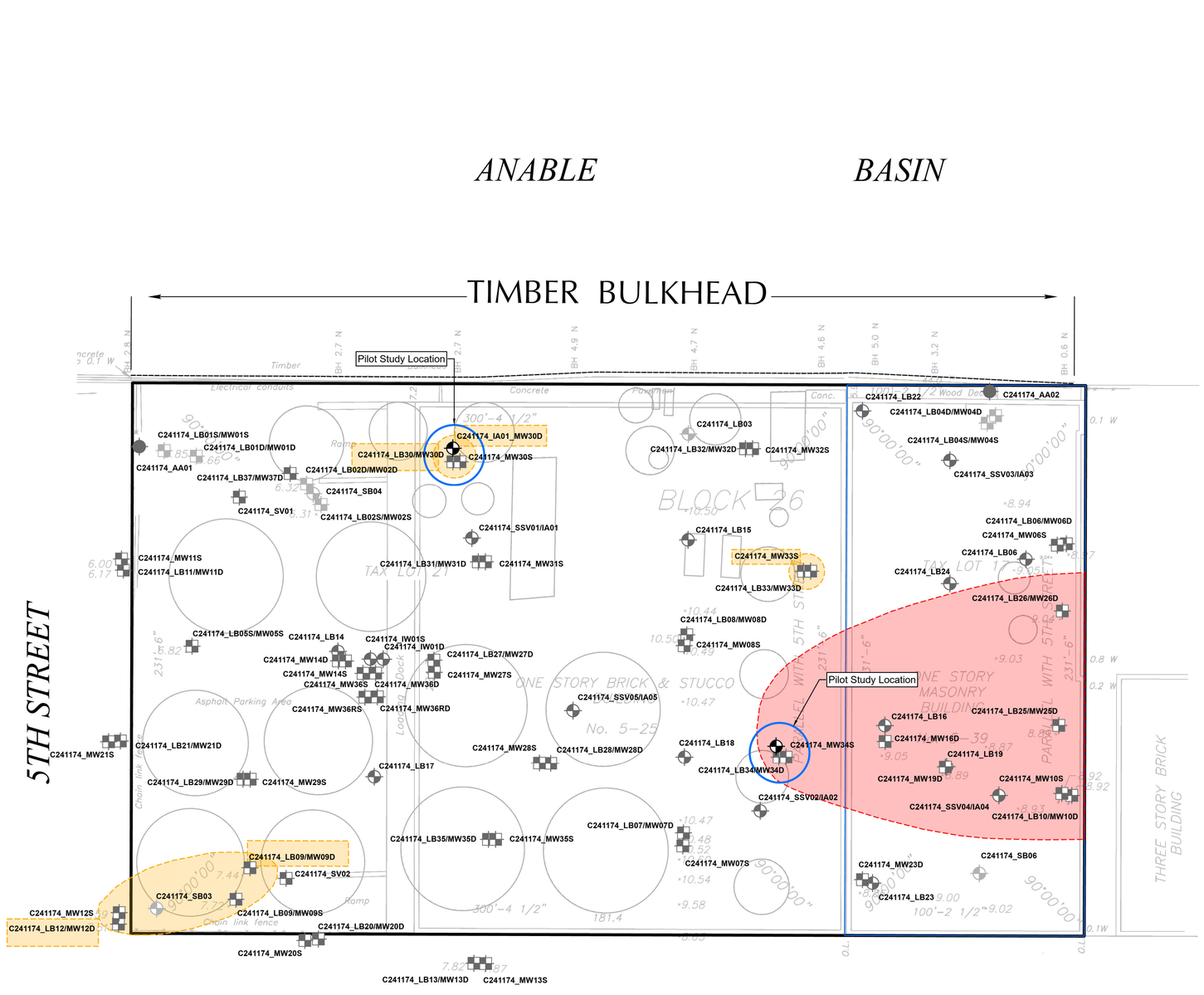
Project	Figure Title	Project No.	Figure No.
ABC - BLOCK 26 BLOCK No. 26, LOT Nos. 17 and 21 QUEENS NEW YORK	SITE LOCATION MAP	170340203 Date 8/9/2023 Drawn By ANN Checked By GW	1

Filename: \\langan.com\data\NYC\data2\170340201\Cadd Data - 170340201\SheetFiles\Environmental_Block 26 - C241174\LNAPL Pilot Study\Figure 1 - Site Location Map.dwg Date: 8/9/2023 Time: 13:22 User: anesci Style Table: Langan.stb Layout: ANSIA-BP



LEGEND

C241174_IA30	PILOT STUDY INDOOR AIR SAMPLE AND ID
C241174_LB06	RI SOIL BORING LOCATION AND ID
C241174_SB04	PREVIOUS SOIL BORING LOCATION AND ID (LANGAN APRIL 2015)
C241174_LB03	PREVIOUS SOIL BORING LOCATION AND ID (LANGAN DECEMBER 2015)
C241174_LB04D/MW04D	PREVIOUS SOIL BORING/MONITORING LOCATION AND ID (LANGAN DECEMBER 2015) S = SHALLOW - SCREEN ABOVE MEADOW MAT D = DEEP - SCREEN BELOW MEADOW MAT
C241174_LB06/MW06D	RI SOIL BORING/MONITORING WELL (DEEP) LOCATION AND ID
C241174_MW11S	RI SOIL BORING/MONITORING WELL (SHALLOW) LOCATION AND ID
C241174_SV01	RI SOIL VAPOR POINT LOCATION AND ID
C241174_SSV03/IA03	RI SUB-SLAB SOIL VAPOR POINT/INDOOR AIR LOCATION AND ID
C241174_AA01	RI AMBIENT AIR SAMPLE LOCATION AND ID
	APPROXIMATE BCP SITE BOUNDARY
	APPROXIMATE TAX LOT BOUNDARY
	APPROXIMATE EXTENT OF BULKHEAD ALONG SITE
	APPROXIMATE LOCATION OF HISTORICAL UNDERGROUND STORAGE TANK (UST) OR ABOVEGROUND STORAGE TANK (AST)
	APPROXIMATE EXTENT OF PARAGON LNAPL PRESENT IN MONITORING WELLS
	APPROXIMATE EXTENT OF OTHER LNAPL PRESENT IN MONITORING WELLS
	PILOT STUDY LOCATION

GENERAL NOTES

1. BASE MAP SOURCE: SURVEY BY ALBERT W. TAY DATED SEPTEMBER 6, 2012.
2. ELEVATIONS ARE REFERENCED TO NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88) AND WERE OBTAINED FROM GROUND SURVEYS BY LANGAN ENGINEERING, ENVIRONMENTAL, SURVEYING AND LANDSCAPE ARCHITECTURE, D.P.C.
3. HISTORICAL UST AND AST LOCATIONS ARE APPROXIMATE AND ARE BASED ON AVAILABLE SANBORN MAPS (1898, 1915, AND 1936) AND 2005 PHASE I ESA PREPARED BY FLEMING LEE SHUE, INC.
4. LNAPL = LIGHT NON-AQUEOUS PHASE LIQUID
5. RI = REMEDIAL INVESTIGATION
6. CVOCs = CHLORINATED VOLATILE ORGANIC COMPOUNDS

WARNING: IT IS A VIOLATION OF THE NYS EDUCATION LAW ARTICLE 145 FOR ANY PERSON, UNLESS HE IS ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, TO ALTER THIS ITEM IN ANY WAY.

0 25 50
SCALE IN FEET

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Langan International LLC
Collectively known as Langan

Project

ABC - BLOCK 26

BLOCK No. 26, LOT No. 17 and 21
LONG ISLAND CITY

QUEENS NEW YORK

Figure Title

PROPOSED SAMPLE LOCATION PLAN

Project No. 170340203	Figure 2
Date 8/9/2023	
Scale 1" = 25'	
Drawn By MG	
Submission Date	Sheet 2 of 2

SUBMISSION DATE: XXXX ##, ####
PROJECT No. 170340203

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TABLES

Table 1
Pilot Study Work Plan
Proposed Sample Summary

ABC Block 26
NYSDEC BCP Site No. C241174
Long Island City, New York
Langan Project No. 170340203

INDOOR AIR SAMPLING - BASELINE						
No.	**Sample Name**	**Sample Type**	**Sample Location**	**Date**	**Time**	**Analysis**
1	C241174_BL-IA01_MW30D_XXXXXX	2-hour	BL-IA01	XX/XX/XXXX	XX:XX	TO-15 VOCs
2	C241174_BL-IA02_MW34D_XXXXXX		BL-IA02	XX/XX/XXXX	XX:XX	
3	C241174_AA01_XXXXXX		BL-AA01	XX/XX/XXXX	XX:XX	
INDOOR AIR SAMPLING - LNAPL RECOVERY						
4	C241174_LR-IA01_MW30D_XXXXXX	2-hour	LR-IA01	XX/XX/XXXX	XX:XX	TO-15 VOCs
5	C241174_LR-IA02_MW34D_XXXXXX		LR-IA02	XX/XX/XXXX	XX:XX	
6	C241174_AA02_XXXXXX		LR-AA02	XX/XX/XXXX	XX:XX	

Notes:
1. VOC = Volatile Organic Compound

APPENDIX C

PILOT STUDY RESULTS MEMO

LANGAN

Technical Memorandum

Langan Engineering, Environmental, Surveying, Landscape Architecture and Geology, D.P.C.
368 Ninth Avenue, 8th Floor New York, NY 10001 T: 212.479.5400 F: 212.479.5444

To: Christopher Allan
New York State Department of Environmental Conservation
Division of Environmental Remediation
47-20 21st Street
Long Island City, NY 11101
Christopher.Allan@dec.ny.gov

From: Jason Hayes, Greg Wyka, Roswell Lo (Langan)

Info: J. Hare, M. Quigley, P. Kirby, T. Pfohl (Plaxall)
E. Knauer, M. Chertok (SPR)
S. Berninger (NYSDOH)

Date: February 19, 2025

Re: Pilot Study Results Memo
ABC Block 26
Long Island City, NY
BCP Site No. C241174
Langan Project No.: 170340203

Dear Mr. Allan:

Langan Engineering, Environmental, Surveying, Landscape Architecture and Geology, D.P.C (Langan) presents this Pilot Study Results Memo for New York State Department of Environmental Conservation (NYSDEC) Brownfield Cleanup Program (BCP) Site No. C241174 (ABC Block 26 or the site). The site is located at 5-25 46th Avenue in Long Island City, New York and is identified as Queens Tax Block 26, Lots 17 and 21. A site location map is provided as Figure 1.

As discussed with the NYSDEC and New York State Department of Health (NYSDOH) during a conference call on June 27, 2023, Langan completed a field pilot study that consisted of a light non-aqueous phase liquid (LNAPL) recovery event within two indoor spaces at the site to understand worst-case potential impacts to air quality from indoor recovery events without the use of mitigating measures. The pilot study results will be used to refine the scope of work for the forthcoming NAPL recovery Interim Remedial Measures Work Plans (IRMWP) for the site and the other two ABC BCP sites (ABC Block 25 [BCP Site No. C241173] and ABC Block 27 [BCP Site No. C241175]).

SITE BACKGROUND

The ABC sites enrolled into the NYSDEC BCP in 2015. Remedial investigations (RI) and Supplemental Remedial Investigations (SRI) were performed on all three sites between August 2016 and February 2022. NAPL was identified on all three BCP sites during the RIs. On May 4, 2023, the NYSDEC approved Remedial Investigation Reports (RIR) for all three BCP sites. During a conference call on May 15, 2023, the NYSDEC agreed to a conceptual course of action to start addressing BCP requirements through IRMWPs, pending an anticipated environmental and land use review process for zoning changes affecting the BCP sites. This approach was chosen to enable the final remedy to occur in conjunction with future redevelopment of the sites pursuant to potential zoning changes. In October 2023, the Department of City Planning and Councilmember Julie Won announced the commencement of the Long Island City Neighborhood Plan, a City-led effort which proposes to rezone a 54 block area of Long Island City, including the three ABC BCP sites owned by the Participants.

During a subsequent meeting with the NYSDEC and NYSDOH, the agencies agreed that the scope of the IRMWPs at all three BCP sites will include an inspection and repair of the current cover systems and LNAPL recovery events. The NYSDEC and NYSDOH asked the Participant to conduct a pilot study on one of the BCP sites to evaluate whether product recovery events taking place within existing buildings would adversely impact indoor air at the sites before the IRMWPs are submitted.

Distinct sources of LNAPL were identified during the RIs at the ABC sites. Mineral spirits and diesel fuel related to the upgradient Paragon Paint and Varnish Corp. BCP site were identified in the eastern part of ABC Block 26. Residual/weathered LNAPL (without a clear hydrocarbon signature) related to historical on-site petroleum bulk storage was identified in defined areas at all three sites. Since both sources/types of LNAPL were observed at ABC Block 26, the NYSDEC and Langan agreed to utilize ABC Block 26 as the test site for the pilot study and apply the results to support development of the IRMWP scope for all three BCP sites. We utilized monitoring well C241174_MW30D (where the observed LNAPL is related to historical on-site petroleum bulk storage) and monitoring well C241174_MW34D (where the LNAPL is related to the Paragon Paint and Varnish Corp. BCP site) for the field pilot study.

Monitoring well C241174_MW30D is located inside a facility/shop for a custom architectural materials fabricator. At the time the pilot study was completed, monitoring well C241174_MW34D was located in a space that was a low-traffic area occupied by an artist, and the monitoring well was located inside a closet used to store paints/primers, adhesives, cleaning products, and other materials. Since the time that the tests were completed, the artist left the space which has since been re-leased to a high-traffic on-demand pickleball business that is open

24 hours per day. The closet no longer exists, as interior partitions were removed to construct the pickleball courts, which are in constant usage.

PILOT STUDY IMPLEMENTATION

The pilot study was completed in accordance with the November 29, 2023 Pilot Study Work Plan prepared by Langan. The work plan was approved by the NYSDEC on January 24, 2024. The pilot study was completed across two separate field deployments (one field day each) to evaluate potential adverse impacts to indoor air during product recovery events. Each deployment occurred on weekends when the tenant spaces with the monitoring wells selected for the pilot study were unoccupied.

Baseline Indoor Air Sampling and Absorbent Sock Deployment

During the first field deployment, Langan completed a baseline air sampling event and subsequently installed two absorbent socks[1] at monitoring wells C241174_MW30D and C241174_MW34D.

Before installation of the absorbent socks, a baseline product/chemical inventory and NYSDOH indoor air quality questionnaire for each space (Appendix A), and a baseline indoor air and ambient air sampling event were completed. The sampling event was conducted after the inventory and questionnaire were completed. Before, during, and after the implementation of the baseline indoor air sampling event, a photoionization detector (PID) was used to periodically monitor volatile organic compounds (VOC) within the immediate area of the work zone. Two indoor (one for each monitoring well) and one ambient air sample were collected over a 2-hour sampling period into laboratory-supplied batch-certified clean 6-liter Summa® canisters with calibrated flow controllers and analyzed for VOCs via United States Environmental Protection Agency (USEPA) method TO-15, Select Ion Monitoring (SIM) to achieve lower reporting for select compounds.[2,3] The indoor air samples were collected at a height above the ground that represents the breathing zone (about 3 to 5 feet) and placed adjacent to each monitoring well. The ambient air sample was collected from an outdoor, upwind location to the fresh air intake for the building to evaluate potential outdoor air interferences. Mechanical heating, ventilation, and air conditioning (HVAC) systems operated normally, and windows and/or doors were closed during the baseline air sampling.

Following collection of the baseline samples, the monitoring wells were gauged for LNAPL thickness and depth to groundwater and absorbent socks were deployed at each monitoring well.

[1] New Pig® hydrophobic monitoring well skimming sock (1.5" x 18")

[2] Analytical services protocol (ASP) Category B data packages were requested from the laboratory.

[3] TO-15 SIM analysis was used to provide reporting limits of 0.20 micrograms per cubic meter or lower for trichloroethene, cis-1,2-dichloroethene, 1,1-dichloroethene, carbon tetrachloride, and vinyl chloride.

The baseline air sampling locations are included on the Pilot Study Results Map (Figure 2). A sample summary is included as Table 1.

Indoor Air Sampling and LNAPL Recovery Event

One week after the first deployment, Langan returned to the site to change out the absorbent socks at monitoring wells C241174_MW30D and C241174_MW34D and collected indoor air and ambient air samples during the retrieval, change-out, and disposal process (a duration of approximately 20 minutes during the 2-hour sampling event).

The spent absorbent socks were collected from the monitoring wells and placed directly into a high-density polyethylene (HDPE) bucket with a lid, which was used to transfer the spent socks to a 55-gallon drum stored in a secured outdoor area at the adjoining ABC Block 27 site. Before the air monitoring event, a chemical inventory and NYSDOH indoor air quality questionnaire were completed. Before, during, and after the implementation of the LNAPL recovery indoor air sampling event, a PID was used to periodically monitor VOCs within the immediate area of the work zone. The sock change-out and disposal process occurred during the indoor air and ambient air sampling event. The indoor and ambient sampling locations were the same as the baseline samples and sampling methodology was consistent with the baseline event as described below. Mechanical HVAC systems operated normally, and windows and/or doors were closed during the air sampling. A sock change-out event and NYSDOH indoor air quality questionnaire and product/chemical inventory were completed for each space (Appendix A).

The air sampling event during the LNAPL recovery effort included the following steps:

1. The Summa® canister was positioned adjacent to the monitoring well at the same distance and height as recorded during the baseline sampling event
2. The flow controller was opened about 30 minutes before absorbent sock retrieval and change-out
3. At about the 30-minute mark, Langan:
    a. opened the well cover and cap
    b. retrieved the absorbent sock and placed it into a HDPE bucket with a lid
    c. gauged the monitoring well for depth to LNAPL and/or water
    d. attached string to a new absorbent sock and deployed the sock into the monitoring well
    e. affixed string to well cap
    f. closed and tightened the well cap and cover

4. The spent absorbent sock was transferred from the HDPE bucket to the outdoor storage drum.
5. The vacuum pressure was continually monitored and the sampling period was stopped before or at about the 120-minute mark.
6. The sample canisters were delivered to the laboratory courier under standard chain of custody protocol for analysis of VOCs via USEPA method TO-15 SIM.

The sample location map is included as Figure 2. A sample summary is included as Table 1.

FIELD OBSERVATIONS AND ANALYTICAL RESULTS

The indoor and ambient air sampling logs are included as Appendix B. Tabulated analytical results from the baseline event and sock change-out events are presented in Table 2.

No analytes exceeded the NYSDOH AGVs except methylene chloride in the baseline and LNAPL recovery samples collected at well C241174_MW30D.

The analytical results from air samples collected at both wells (C241174_MW30D and C241174_MW34D) were also compared to mean indoor air concentrations from USEPA's Building Assessment Survey Evaluation (BASE) database.[4] The study measured concentrations of VOCs in indoor and outdoor air at 100 randomly selected public and commercial office buildings across the United States. Fourteen, VOCs, including 1,2,4-trimethylbenzene, 1,3,5-trimethylbenzene, 4-ethyltoluene, acetone, carbon disulfide, ethyl acetate, ethylbenzene, isopropanol, m,p-xylene, methyl ethyl ketone, methyl isobutyl ketone, methylene chloride, n-hexane, o-xylene (1,2-dimethylbenzene), and toluene exceeded the mean indoor air concentrations in the baseline and/or LNAPL recovery event samples across both sampling locations. Most of these VOCs were within the same order of magnitude as the BASE mean value; five VOCs, including acetone, ethyl acetate, methyl ethyl ketone, methylene chloride, and n-hexane were higher by one or two orders of magnitude.

The laboratory analytical data reports are provided in Appendix C. The data was validated in accordance with the standard protocols and a Data Usability Summary Report (DUSR) is provided in Appendix D. A photographic log of both baseline and sock change-out events are provided in Appendix E. Electronic Deliverable Documents (EDDs) were submitted to NYSDEC on April 23, 2024.

Monitoring well headspace PID readings, depth to product and depth to water readings were recorded at each well during baseline and sock change-out events and shown in the table below:

[4] Appendix C, Table C.2 (NYSDOH Guidance for Evaluating Soil Vapor Intrusion in the State of New York, October 2006 (as amended)).

	Baseline				Sock Change-out			
	PID headspace reading	Depth to Product (ft bTOC)	Depth to water (ft bTOC)	Product Thickness (ft)	PID headspace reading	Depth to Product (ft bTOC)	Depth to water (ft bTOC)	Product Thickness (ft)
C241174_MW30D	310	11.82	13.65	1.83	399	NR	11.45	NR
C241174_MW34D	615	12.05	12.55	0.50	736	NR	12.00	NR
NR – Not recorded bTOC – Below top of well casing								

Petroleum-like odors were observed at each location when the wells were accessed. Tenant operations were paused for about one day leading up to the baseline event, and during the day of the sock change-out event.

CONCLUSIONS

The findings and conclusions of the pilot study are as follows:

- At sample location C241174_MW30D, the baseline indoor air sample exhibited higher concentrations of some VOCs than in the sample collected during the NAPL recovery event. Total VOCs without acetone in the baseline sample were 1,004.647 µg/m^3 while total VOCs without acetone in the LNAPL recovery event sample were 304.107 µg/m^3. Methylene chloride was detected above the NYSDOH AGV (air guidance value) of 60 µg/m^3 at C241174_MW30D both during the baseline sampling event (351 ug/m^3) and the LNAPL recovery event (159 µg/m^3). The indoor air quality sampling results and the detections of methylene chloride are attributed to tenant operations including light industrial manufacturing and fabrication. Methylene chloride was also detected in indoor air in this location during the Remedial Investigation (RI) and Supplemental Remedial Investigations (SRIs) and attributed to tenant operations. No other AGV exceedances were found.
- At sample location C241174_MW34D, the LNAPL recovery indoor air sample exhibited higher concentrations of some VOCs than detected in the sample collected during the baseline sampling event, suggesting a contribution of VOCs from the absorbent sock replacement activity. Total VOCs without acetone in the baseline sample were 96.563 µg/m^3 while total VOCs without acetone in the LNAPL recovery event sample were 283.65 µg/m^3. No AGV exceedances were found. The sample was collected inside of a closet (with no air flow aside from the opening and closing of the door).

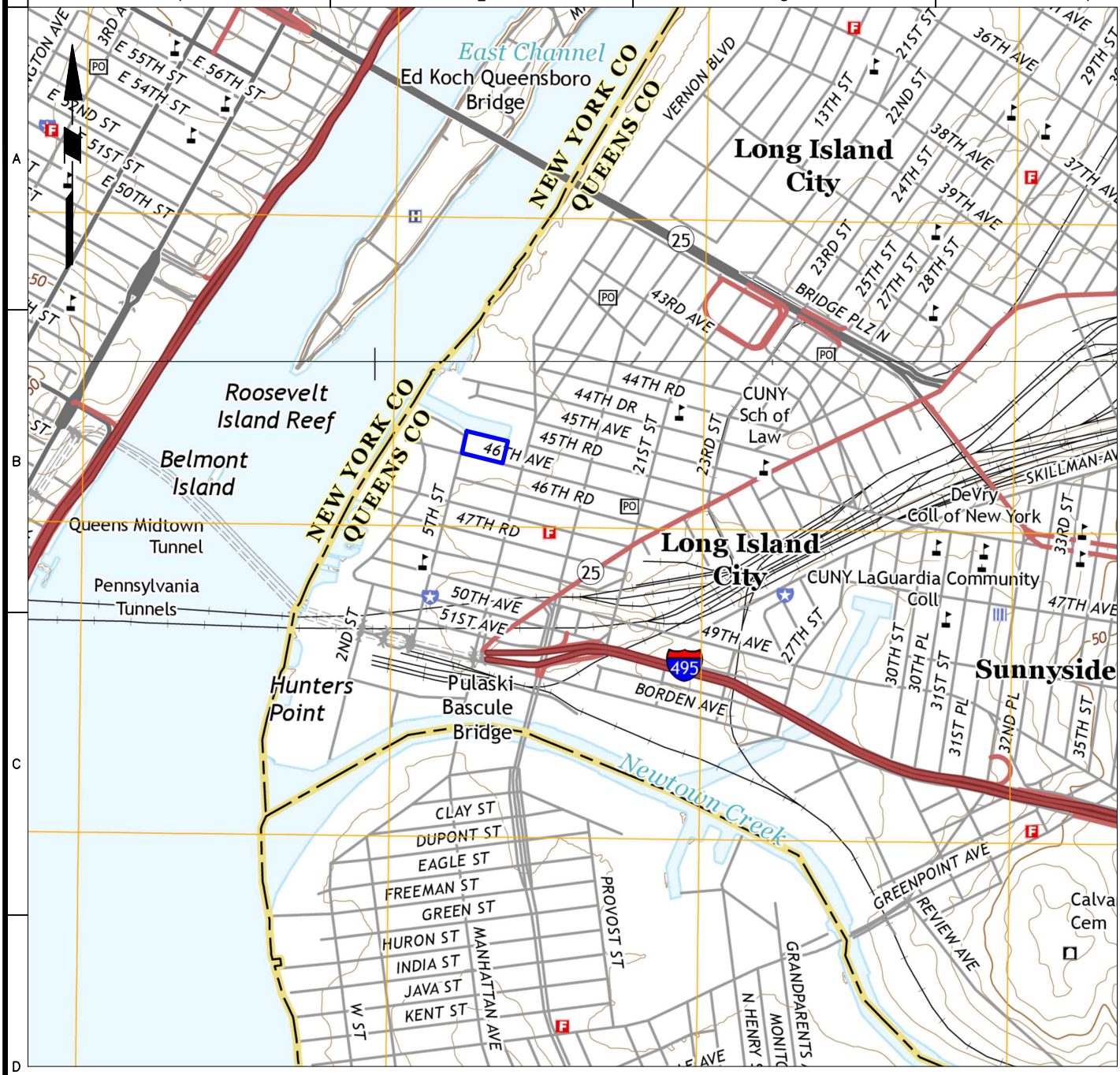
- Carbon disulfide, a byproduct of anerobic biodegradation (a documented condition for the site), was only detected in the samples collected during the LNAPL recovery event at both locations. This observation confirms that there was no open pathway to the subsurface and groundwater table when the monitoring wells were closed.
- The completed pilot study attempted to assess worst-case scenario conditions. Langan recommends conducting a second iteration of the pilot study with a focus on evaluating indoor air quality during absorbent sock replacement activity efforts when best management practices are employed (i.e., opening exterior doors/windows and using air mover fans) to assess the effectiveness of these practices on mitigating impacts to indoor air quality. The new sampling locations will be chosen in building spaces to minimize potential exposures to tenants, visitors, and/or the public. The new pilot study would also involve the collection of additional baseline samples and post-replacement activity samples (next day or other interval) to determine if indoor air quality returns to baseline conditions.

LIST OF FIGURES

LIST OF TABLES

LIST OF APPENDICES

FIGURES



LEGEND

APPROXIMATE SITE BOUNDARY

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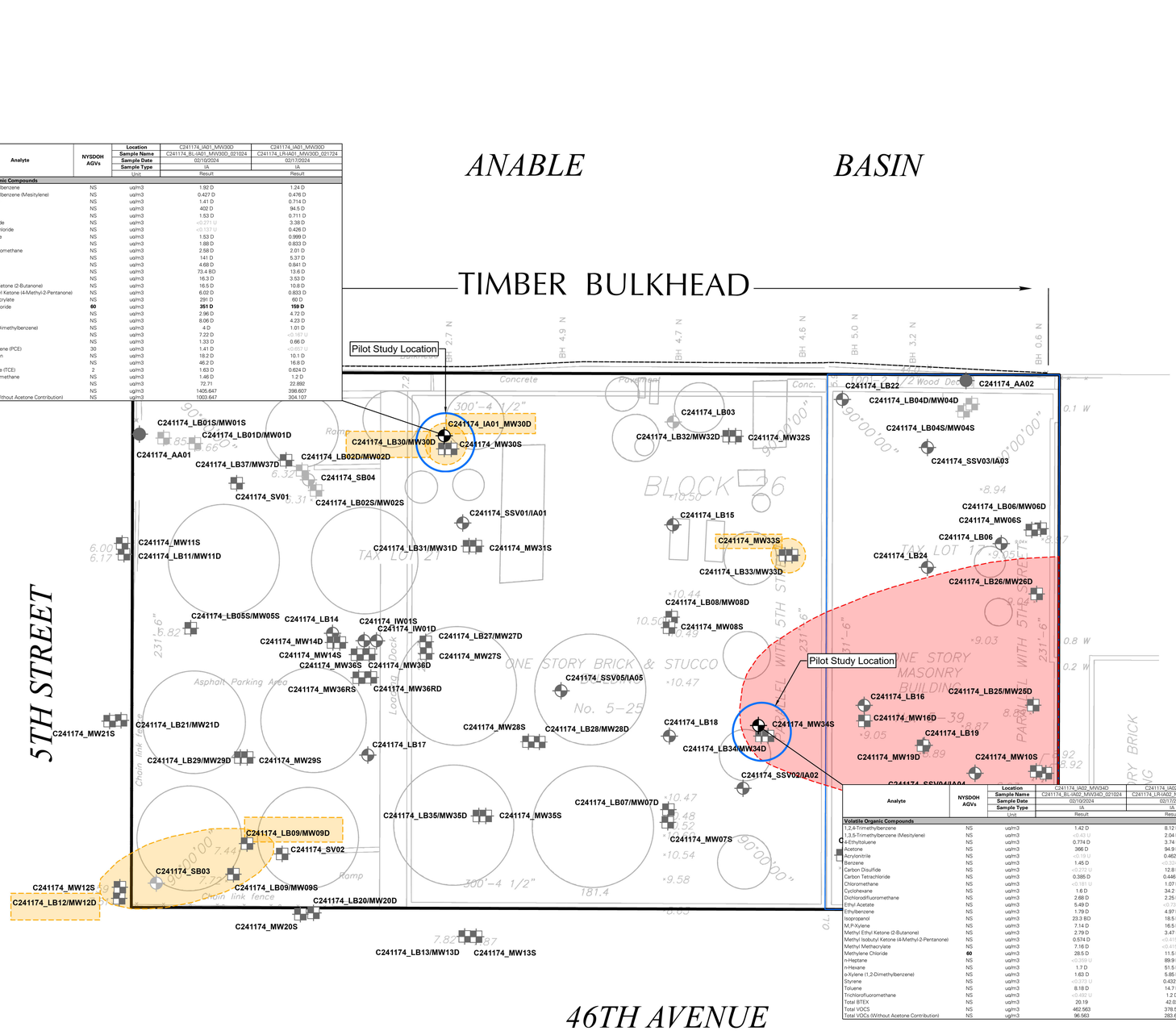

Analyte	NYSDOH AGVs	Location	C241174_IA01_MW30D	C241174_IA01_MW30D
		Sample Name	C241174_BL-IA01_MW30D_021024	C241174_LR-IA01_MW30D_021724
		Sample Date	02/10/2024	02/17/2024
		Sample Type	IA	IA
		Unit	Result	Result
Volatile Organic Compounds				
1,2,4-Trimethylbenzene	NS	ug/m3	1.92 D	1.24 D
1,3,5-Trimethylbenzene (Mesitylene)	NS	ug/m3	0.427 D	0.476 D
4-Ethyltoluene	NS	ug/m3	1.41 D	0.714 D
Acetone	NS	ug/m3	402 D	94.5 D
Benzene	NS	ug/m3	1.53 D	0.711 D
Carbon Disulfide	NS	ug/m3	<0.271 U	3.38 D
Carbon Tetrachloride	NS	ug/m3	<0.137 U	0.426 D
Chloromethane	NS	ug/m3	1.53 D	0.999 D
Cyclohexane	NS	ug/m3	1.88 D	0.833 D
Dichlorodifluoromethane	NS	ug/m3	2.58 D	2.01 D
Ethyl Acetate	NS	ug/m3	141 D	5.37 D
Ethylbenzene	NS	ug/m3	4.68 D	0.841 D
Isopropanol	NS	ug/m3	73.4 BD	13.6 D
M,P-Xylene	NS	ug/m3	16.3 D	3.53 D
Methyl Ethyl Ketone (2-Butanone)	NS	ug/m3	16.5 D	10.8 D
Methyl Isobutyl Ketone (4-Methyl-2-Pentanone)	NS	ug/m3	6.02 D	0.833 D
Methyl Methacrylate	NS	ug/m3	291 D	60 D
Methylene Chloride	**60**	ug/m3	**351 D**	**159 D**
n-Heptane	NS	ug/m3	2.96 D	4.72 D
n-Hexane	NS	ug/m3	8.06 D	4.23 D
o-Xylene (1,2-Dimethylbenzene)	NS	ug/m3	4 D	1.01 D
Propylene	NS	ug/m3	7.22 D	<0.107 U
Styrene	NS	ug/m3	1.33 D	0.66 D
Tetrachloroethene (PCE)	30	ug/m3	1.41 D	<0.607 U
Tetrahydrofuran	NS	ug/m3	18.2 D	10.1 D
Toluene	NS	ug/m3	46.2 D	16.8 D
Trichloroethene (TCE)	2	ug/m3	1.63 D	0.634 D
Trichlorofluoromethane	NS	ug/m3	1.46 D	1.2 D
Total BTEX	NS	ug/m3	72.71	22.882
Total VOCS	NS	ug/m3	1405.647	398.607
Total VOCs (Without Acetone Contribution)	NS	ug/m3	1003.647	304.107

Analyte	NYSDOH AGVs
Volatile Organic Compounds	
1,2,4-Trimethylbenzene	NS
1,3,5-Trimethylbenzene (Mesitylene)	NS
4-Ethyltoluene	NS
Acetone	NS
Benzene	NS
Carbon Disulfide	NS
Carbon Tetrachloride	NS
Chloromethane	NS
Cyclohexane	NS
Dichlorodifluoromethane	NS
Ethyl Acetate	NS
Ethylbenzene	NS
Isopropanol	NS
M,P-Xylene	NS
Methyl Ethyl Ketone (2-Butanone)	NS
Methyl Isobutyl Ketone (4-Methyl-2-Pentanone)	NS
Methyl Methacrylate	NS
Methylene Chloride	60 ug/m3
n-Heptane	NS
n-Hexane	NS
o-Xylene (1,2-Dimethylbenzene)	NS
Propylene	NS
Styrene	NS
Tetrachloroethene (PCE)	30 ug/m3
Tetrahydrofuran	NS
Toluene	NS
Trichloroethene (TCE)	2 ug/m3
Trichlorofluoromethane	NS
Total BTEX	NS
Total VOCS	NS
Total VOCs (Without Acetone Contribution)	NS

Analyte	NYSDOH AGVs	Location	C241174_IA02_MW34D	C241174_IA02_MW34D
		Sample Name	C241174_BL-IA02_MW34D_021024	C241174_LR-IA02_MW34D_021724
		Sample Date	02/10/2024	02/17/2024
		Sample Type	IA	IA
		Unit	Result	Result
Volatile Organic Compounds				
1,2,4-Trimethylbenzene	NS	ug/m3	1.42 D	8.12 D
1,3,5-Trimethylbenzene (Mesitylene)	NS	ug/m3	<0.421 U	2.04 D
4-Ethyltoluene	NS	ug/m3	0.774 D	3.74 D
Acetone	NS	ug/m3	366 D	94.9 D
Acrylonitrile	NS	ug/m3	<0.181 U	0.462 J
Benzene	NS	ug/m3	1.45 D	<0.334 U
Carbon Disulfide	NS	ug/m3	<0.272 U	12.8 D
Carbon Tetrachloride	NS	ug/m3	0.385 D	0.446 D
Chloromethane	NS	ug/m3	<0.181 U	1.07 D
Cyclohexane	NS	ug/m3	1.6 D	34.2 D
Dichlorodifluoromethane	NS	ug/m3	2.68 D	2.25 D
Ethyl Acetate	NS	ug/m3	5.49 D	<0.75 U
Ethylbenzene	NS	ug/m3	1.79 D	4.97 D
Isopropanol	NS	ug/m3	23.3 BD	18.5 D
M,P-Xylene	NS	ug/m3	7.14 D	16.5 D
Methyl Ethyl Ketone (2-Butanone)	NS	ug/m3	2.79 D	3.47 D
Methyl Isobutyl Ketone (4-Methyl-2-Pentanone)	NS	ug/m3	0.574 D	<0.410 U
Methyl Methacrylate	NS	ug/m3	7.16 D	<0.478 U
Methylene Chloride	**60**	ug/m3	28.5 D	11.5 D
n-Heptane	NS	ug/m3	<0.359 U	89.9 D
n-Hexane	NS	ug/m3	1.7 D	51.5 D
o-Xylene (1,2-Dimethylbenzene)	NS	ug/m3	1.63 D	5.85 D
Styrene	NS	ug/m3	<0.373 U	0.432 D
Toluene	NS	ug/m3	8.18 D	14.7 D
Trichlorofluoromethane	NS	ug/m3	<0.402 U	1.2 D
Total BTEX	NS	ug/m3	20.19	42.02
Total VOCS	NS	ug/m3	462.563	378.55
Total VOCs (Without Acetone Contribution)	NS	ug/m3	96.563	283.65

LEGEND

- C241174_IA30 — PILOT STUDY INDOOR AIR SAMPLE AND ID
- C241174_LB06 — RI SOIL BORING LOCATION AND ID
- C241174_SB04 — PREVIOUS SOIL BORING LOCATION AND ID (LANGAN APRIL 2015)
- C241174_LB03 — PREVIOUS SOIL BORING LOCATION AND ID (LANGAN DECEMBER 2015)
- C241174_LB04D/MW04D — PREVIOUS SOIL BORING/MONITORING LOCATION AND ID (LANGAN DECEMBER 2015)
  - S = SHALLOW - SCREEN ABOVE MEADOW MAT
  - D = DEEP - SCREEN BELOW MEADOW MAT
- C241174_LB06/MW06D — RI SOIL BORING/MONITORING WELL (DEEP) LOCATION AND ID
- C241174_MW11S — RI SOIL BORING/MONITORING WELL (SHALLOW) LOCATION AND ID
- C241174_SV01 — RI SOIL VAPOR POINT LOCATION AND ID
- C241174_SSV03/IA03 — RI SUB-SLAB SOIL VAPOR POINT/INDOOR AIR LOCATION AND ID
- C241174_AA01 — RI AMBIENT AIR SAMPLE LOCATION AND ID
- APPROXIMATE BCP SITE BOUNDARY
- APPROXIMATE TAX LOT BOUNDARY
- APPROXIMATE EXTENT OF BULKHEAD ALONG SITE
- APPROXIMATE LOCATION OF HISTORICAL UNDERGROUND STORAGE TANK (UST) OR ABOVEGROUND STORAGE TANK (AST)
- APPROXIMATE EXTENT OF PARAGON LNAPL PRESENT IN MONITORING WELLS
- APPROXIMATE EXTENT OF OTHER LNAPL PRESENT IN MONITORING WELLS
- PILOT STUDY LOCATION

GENERAL NOTES

1. BASE MAP SOURCE: SURVEY BY ALBERT W. TAY DATED SEPTEMBER 6, 2012.
2. ELEVATIONS ARE REFERENCED TO NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88) AND WERE OBTAINED FROM GROUND SURVEYS BY LANGAN ENGINEERING, ENVIRONMENTAL, SURVEYING AND LANDSCAPE ARCHITECTURE, D.P.C.
3. HISTORICAL UST AND AST LOCATIONS ARE APPROXIMATE AND ARE BASED ON AVAILABLE SANBORN MAPS (1898, 1915, AND 1936) AND 2005 PHASE I ESA PREPARED BY FLEMING LEE SHUE, INC.
4. LNAPL = LIGHT NON-AQUEOUS PHASE LIQUID
5. RI = REMEDIAL INVESTIGATION
6. CVOCs = CHLORINATED VOLATILE ORGANIC COMPOUNDS

WARNING: IT IS A VIOLATION OF THE NYS EDUCATION LAW ARTICLE 145 FOR ANY PERSON, UNLESS HE IS ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, TO ALTER THIS ITEM IN ANY WAY.

0 25 50
SCALE IN FEET

LANGAN

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Project

ABC - BLOCK 26

BLOCK No. 26, LOT No. 17 and 21
LONG ISLAND CITY

QUEENS NEW YORK

Figure Title

Pilot Study Results Map

Project No. 170340203	Figure 2
Date 8/9/2023	
Scale 1" = 25'	
Drawn By MG	
Submission Date	Sheet 1 of 1

LANGAN
SUBMISSION DATE: XXXX ##, ####
PROJECT No. 170340203

Path: \\langan.com\data\NYC\data2\170340203\ArcGIS\ARR\Block 26\170340201 - Block 26.aprx

TABLES

Table 1
Pilot Study Report Memo
Sample Summary

ABC Block 26
NYSDEC BCP Site No. C241174
Long Island City, New York
Langan Project No. 170340203

No.	Sample Name	Sample Type	Sample Location	Date	Time	Analysis
INDOOR AIR SAMPLING - BASELINE						
1	C241174_BL-IA01_MW30D_021024	2-hour	BL-IA01	2/10/2024	15:39	TO-15 VOCs
2	C241174_BL-IA02_MW34D_021024		BL-IA02	2/10/2024	15:47	
3	C241174_AA01_021024		BL-AA01	2/10/2024	15:50	
INDOOR AIR SAMPLING - LNAPL RECOVERY						
4	C241174_LR-IA01_MW30D_021724	2-hour	LR-IA01	2/17/2024	16:23	TO-15 VOCs
5	C241174_LR-IA02_MW34D_021724		LR-IA02	2/17/2024	16:24	
6	C241174_AA02_021724		LR-AA02	2/17/2024	16:26	

Notes:
1. VOC = Volatile Organic Compound

Table 2
Pilot Study Analytical Results

ABC Block 26
Long Island City, New York
BCP Site No. C241174
Langan Project No.: 170340203

Analyte	CAS Number	NYSDOH AGVs	NYSDOH BASE Indoor Air Mean	Location	C241174_AA01	C241174_AA02	Baseline C241174_IA01_MW30D	LNAPL Recovery/Sock Replacement C241174_IA01_MW30D	Baseline C241174_IA02_MW34D	LNAPL Recovery/Sock Replacement C241174_IA02_MW34D
				Sample Name	C241174_AA01_021024	C241174_AA02_021724	C241174_BL-IA01_MW30D_021024	C241174_LR-IA01_MW30D_021704	C241174_BL-IA02_MW34D_021024	C241174_LR-IA02_MW34D_021704
				Sample Date	02/10/2024	02/17/2024	02/10/2024	02/17/2024	02/10/2024	02/17/2024
				Sample Type	AA	AA	IA	IA	IA	IA
				Unit	Result	Result	Result	Result	Result	Result
Volatile Organic Compounds										
1,1,1,2-Tetrachloroethane	630-20-6	NS	NS	ug/m3	<0.515 U	<0.654 U	<0.597 U	<0.665 U	<0.601 U	<0.695 U
1,1,1-Trichloroethane	71-55-6	NS	16.2	ug/m3	<0.409 U	<0.519 U	<0.474 U	<0.528 U	<0.477 U	<0.553 U
1,1,2,2-Tetrachloroethane	79-34-5	NS	NS	ug/m3	<0.515 U	<0.654 U	<0.597 U	<0.665 U	<0.601 U	<0.695 U
1,1,2-Trichloro-1,2,2-Trifluoroethane	76-13-1	NS	NS	ug/m3	<0.575 U	<0.73 U	<0.666 U	<0.742 U	<0.671 U	<0.776 U
1,1,2-Trichloroethane	79-00-5	NS	0.6	ug/m3	<0.409 U	<0.519 U	<0.474 U	<0.528 U	<0.477 U	<0.553 U
1,1-Dichloroethane	75-34-3	NS	0.2	ug/m3	<0.304 U	<0.385 U	<0.352 U	<0.392 U	<0.354 U	<0.41 U
1,1-Dichloroethene	75-35-4	NS	0.5	ug/m3	<0.149 U	<0.189 U	<0.172 U	<0.192 U	<0.173 U	<0.201 U
1,2,4-Trichlorobenzene	120-82-1	NS	1.1	ug/m3	<1.11 U	<0.707 U	<1.29 U	<0.718 U	<1.3 U	<0.752 U
1,2,4-Trimethylbenzene	95-63-6	NS	4.8	ug/m3	0.59 D	3.46 D	1.92 D	1.24 D	1.42 D	8.12 D
1,2-Dibromoethane (Ethylene Dibromide)	106-93-4	NS	0.6	ug/m3	<0.576 U	<0.731 U	<0.668 U	<0.744 U	<0.672 U	<0.778 U
1,2-Dichlorobenzene	95-50-1	NS	0.6	ug/m3	<0.451 U	<0.572 U	<0.522 U	<0.582 U	<0.526 U	<0.609 U
1,2-Dichloroethane	107-06-2	NS	0.9	ug/m3	<0.304 U	<0.385 U	<0.352 U	<0.392 U	<0.354 U	<0.41 U
1,2-Dichloropropane	78-87-5	NS	0.6	ug/m3	<0.347 U	<0.44 U	<0.402 U	<0.447 U	<0.404 U	<0.468 U
1,2-Dichlorotetrafluoroethane	76-14-2	NS	NS	ug/m3	<0.524 U	<0.666 U	<0.607 U	<0.677 U	<0.612 U	<0.708 U
1,3,5-Trimethylbenzene (Mesitylene)	108-67-8	NS	1.6	ug/m3	<0.369 U	0.796 D	0.427 D	0.476 D	<0.43 U	2.04 D
1,3-Butadiene	106-99-0	NS	1.4	ug/m3	<0.498 U	<0.632 U	<0.577 U	<0.642 U	<0.581 U	<0.672 U
1,3-Dichlorobenzene	541-73-1	NS	0.6	ug/m3	<0.451 U	<0.572 U	<0.522 U	<0.582 U	<0.526 U	<0.609 U
1,3-Dichloropropane	142-28-9	NS	NS	ug/m3	<0.347 U	<0.44 U	<0.402 U	<0.447 U	<0.404 U	<0.468 U
1,4-Dichlorobenzene	106-46-7	NS	3.1	ug/m3	<0.451 U	<0.572 U	<0.522 U	<0.582 U	<0.526 U	<0.609 U
1,4-Dioxane (P-Dioxane)	123-91-1	NS	NS	ug/m3	<0.54 U	<0.686 U	<0.626 U	<0.698 U	<0.631 U	<0.73 U
2-Hexanone (MBK)	591-78-6	NS	NS	ug/m3	1.14 D	<0.78 U	<0.712 U	<0.793 U	<0.717 U	<0.83 U
4-Ethyltoluene	622-96-8	NS	1.7	ug/m3	0.369 D	0.936 D	1.41 D	0.714 D	0.774 D	3.74 D
Acetone	67-64-1	NS	54	ug/m3	10.3 D	17.2 D	402 D	94.5 D	366 D	94.9 D
Acrylonitrile	107-13-1	NS	NS	ug/m3	<0.163 U	2.36 BD	<0.189 U	<0.336 U	<0.19 U	0.462 J
Allyl Chloride (3-Chloropropene)	107-05-1	NS	NS	ug/m3	<1.17 U	<1.49 U	<1.36 U	<1.51 U	<1.37 U	<1.59 U
Benzene	71-43-2	NS	4.5	ug/m3	1.03 D	0.639 D	1.53 D	0.711 D	1.45 D	<0.324 U
Benzyl Chloride	100-44-7	NS	1.2	ug/m3	<0.388 U	<0.493 U	<0.45 U	<0.501 U	<0.453 U	<0.524 U
Bromodichloromethane	75-27-4	NS	NS	ug/m3	<0.502 U	<0.638 U	<0.582 U	<0.649 U	<0.586 U	<0.679 U
Bromoethene	593-60-2	NS	NS	ug/m3	<0.328 U	<0.416 U	<0.38 U	<0.423 U	<0.383 U	<0.443 U
Bromoform	75-25-2	NS	NS	ug/m3	<0.775 U	<0.984 U	<0.898 U	<1 U	<0.904 U	<1.05 U
Bromomethane	74-83-9	NS	0.6	ug/m3	<0.291 U	<0.37 U	<0.337 U	<0.376 U	<0.34 U	<0.393 U
Carbon Disulfide	75-15-0	NS	1.9	ug/m3	<0.234 U	25.6 D	<0.271 U	3.38 D	<0.272 U	12.8 D
Carbon Tetrachloride	56-23-5	NS	0.5	ug/m3	<0.118 U	0.479 D	<0.137 U	0.426 D	0.385 D	0.446 D
Chlorobenzene	108-90-7	NS	0.4	ug/m3	<0.345 U	<0.438 U	<0.4 U	<0.446 U	<0.403 U	<0.466 U
Chloroethane	75-00-3	NS	1.1	ug/m3	<0.198 U	<0.251 U	<0.229 U	<0.255 U	<0.231 U	<0.267 U
Chloroform	67-66-3	NS	0.5	ug/m3	<0.366 U	<0.465 U	<0.424 U	<0.473 U	<0.427 U	<0.495 U
Chloromethane	74-87-3	NS	2.9	ug/m3	1.16 D	2.02 D	1.53 D	0.999 D	<0.181 U	1.07 D
Cis-1,2-Dichloroethene	156-59-2	NS	0.6	ug/m3	<0.149 U	<0.189 U	<0.172 U	<0.192 U	<0.173 U	<0.201 U
Cis-1,3-Dichloropropene	10061-01-5	NS	0.9	ug/m3	<0.34 U	<0.432 U	<0.394 U	<0.439 U	<0.397 U	<0.46 U
Cyclohexane	110-82-7	NS	NS	ug/m3	0.361 D	<0.328 U	1.88 D	0.833 D	1.6 D	34.2 D
Dibromochloromethane	124-48-1	NS	NS	ug/m3	<0.639 U	<0.811 U	<0.74 U	<0.825 U	<0.745 U	<0.863 U
Dichlorodifluoromethane	75-71-8	NS	13.8	ug/m3	2.34 D	2.21 D	2.58 D	2.01 D	2.68 D	2.25 D
Ethyl Acetate	141-78-6	NS	3	ug/m3	0.54 D	<0.686 U	141 D	5.37 D	5.49 D	<0.73 U
Ethylbenzene	100-41-4	NS	2.8	ug/m3	0.391 D	0.455 D	4.68 D	0.841 D	1.79 D	4.97 D
Hexachlorobutadiene	87-68-3	NS	1.5	ug/m3	<0.8 U	<1.02 U	<0.927 U	<1.03 U	<0.933 U	<1.08 U
Isopropanol	67-63-0	NS	73.1	ug/m3	4.44 J	3.09 D	73.4 BD	13.6 D	23.3 BD	18.5 D
M,P-Xylene	179601-23-1	NS	10.8	ug/m3	1.07 D	1.98 D	16.3 D	3.53 D	7.14 D	16.5 D
Methyl Ethyl Ketone (2-Butanone)	78-93-3	NS	6.2	ug/m3	2.15 D	5.22 D	16.5 D	10.8 D	2.79 D	3.47 D
Methyl Isobutyl Ketone (4-Methyl-2-Pentanone)	108-10-1	NS	3.1	ug/m3	<0.307 U	0.429 D	6.02 D	0.833 D	0.574 D	<0.415 U
Methyl Methacrylate	80-62-6	NS	NS	ug/m3	<0.307 U	<0.39 U	291 D	60 D	7.16 D	<0.415 U
Methylene Chloride	75-09-2	**60**	21.2	ug/m3	0.651 D	1.69 D	**351 D**	**159 D**	28.5 D	11.5 D
Naphthalene	91-20-3	NS	6.6	ug/m3	<0.786 UJ	<0.998 U	<0.911 UJ	<1.01 U	<0.917 UJ	<1.06 U
n-Heptane	142-82-5	NS	NS	ug/m3	<0.307 U	<0.39 U	2.96 D	4.72 D	<0.359 U	89.9 D
n-Hexane	110-54-3	NS	6.3	ug/m3	0.978 D	0.403 D	8.06 D	4.23 D	1.7 D	51.5 D
o-Xylene (1,2-Dimethylbenzene)	95-47-6	NS	3.8	ug/m3	0.488 D	1.36 D	4 D	1.01 D	1.63 D	5.85 D
Propylene	115-07-1	NS	NS	ug/m3	<0.129 U	<0.164 U	7.22 D	<0.167 U	<0.151 U	<0.174 U
Styrene	100-42-5	NS	1.5	ug/m3	<0.319 U	<0.406 U	1.33 D	0.66 D	<0.373 U	0.432 D
Tert-Butyl Methyl Ether	1634-04-4	NS	3.3	ug/m3	<0.27 U	<0.343 U	<0.313 U	<0.349 U	<0.315 U	<0.365 U
Tetrachloroethene (PCE)	127-18-4	30	6	ug/m3	0.56 D	<0.646 U	1.41 D	<0.657 U	<0.593 U	<0.687 U
Tetrahydrofuran	109-99-9	NS	NS	ug/m3	<0.442 U	<0.562 U	18.2 D	10.1 D	<0.516 U	<0.598 U
Toluene	108-88-3	NS	25.1	ug/m3	1.89 D	1.72 D	46.2 D	16.8 D	8.18 D	14.7 D
Total Xylenes	1330-20-7	NS	NS	ug/m3	1.56 D	3.35 D	20.3 D	4.54 D	8.78 D	22.3 D
Trans-1,2-Dichloroethene	156-60-5	NS	NS	ug/m3	<0.297 U	<0.377 U	<0.345 U	<0.384 U	<0.347 U	<0.402 U
Trans-1,3-Dichloropropene	10061-02-6	NS	0.5	ug/m3	<0.34 U	<0.432 U	<0.394 U	<0.439 U	<0.397 U	<0.46 U
Trichloroethene (TCE)	79-01-6	2	2.6	ug/m3	<0.101 U	<0.128 U	1.63 D	0.624 D	<0.118 U	<0.136 U
Trichlorofluoromethane	75-69-4	NS	19.4	ug/m3	1.22 D	1.28 D	1.46 D	1.2 D	<0.492 U	1.2 D
Vinyl Acetate	108-05-4	NS	NS	ug/m3	<0.264 U	<0.335 U	<0.306 U	<0.341 U	<0.308 U	<0.357 U
Vinyl Chloride	75-01-4	NS	0.5	ug/m3	<0.0959 U	<0.122 U	<0.111 U	<0.124 U	<0.112 U	<0.129 U

Table 2
Pilot Study Analytical Results

ABC Block 26
Long Island City, New York
BCP Site No. C241174
Langan Project No.: 170340203

Notes:

AA - Ambient Air
IA - Indoor Air
CAS - Chemical Abstract Service
NS - No standard
ug/m3 - microgram per cubic meter
NA - Not analyzed
RL - Reporting limit
<RL - Not detected

Indoor air sample analytical results are compared to the New York State Department of Health (NYSDOH) Air Guideline Values (AGVs) as set forth in the NYSDOH October 2006 Guidance for Evaluating Soil Vapor Intrusion in the State of New York and subsequent updates (through to 2017).

Indoor air sample analytical results are compared to the mean concentrations for indoor air as shown in the New York State Department of Health (NYSDOH) October 2006 Guidance for Evaluating Soil Vapor Intrustion in the State of New York, Appendix C, Table C.2 EPA 2001 Building Assessment and Survey Evaluation (BASE) Database.

Ambient air sample analytical results are shown for reference only.

Qualifiers:

D - The concentration reported is a result of a diluted sample.
B - The analyte was found in the associated analysis batch blank.
J - The analyte was positively identified and the associated numerical value is the approximate concentration of the analyte in the sample.
UJ - The analyte was not detected at a level greater than or equal to the RL; however, the reported RL is approximate and may be inaccurate or imprecise.
U - The analyte was analyzed for, but was not detected at a level greater than or equal to the level of the RL or the sample concentration for results impacted by blank contamination.

Exceedance Summary:

10 - Result exceeds NYSDOH AGVs
10 - Result exceeds NYSDOH BASE Mean

APPENDIX A

NYSDOH QUESTIONNAIRES AND IAQ INVENTORY

NEW YORK STATE DEPARTMENT OF HEALTH
INDOOR AIR QUALITY QUESTIONNAIRE AND BUILDING INVENTORY
CENTER FOR ENVIRONMENTAL HEALTH

This form must be completed for each residence involved in indoor air testing.

Preparer's Name Camille Quick Date/Time Prepared 2/10/2024 - 13:20

Preparer's Affiliation Langan Engineering Phone No. (212) 479-5400

Purpose of Investigation ABC Block 26 Pilot Study

1. OCCUPANT:

Interviewed: Y / N

Last Name: Wheeler First Name: Edjo

Address: 5-25 46th Ave, Long Island City, New York

County: Queens County

Home Phone: _____ Office Phone: 917 287 3093

Number of Occupants/persons at this location 10 Age of Occupants 20-50 years

2. OWNER OR LANDLORD: (Check if same as occupant ___)

Interviewed: Y / (N)

Last Name: _____ First Name: _____

Address: _____

County: _____

Home Phone: _____ Office Phone: _____

3. BUILDING CHARACTERISTICS

Type of Building: (Circle appropriate response)

Residential	School	(Commercial/Multi-use)
Industrial	Church	Other: _____

If the property is residential, type? (Circle appropriate response)

Ranch	2-Family	3-Family
Raised Ranch	Split Level	Colonial
Cape Cod	Contemporary	Mobile Home
Duplex	Apartment House	Townhouses/Condos
Modular	Log Home	Other:_____

If multiple units, how many? _____

If the property is commercial, type?

Business Type(s) manufacturing

Does it include residences (i.e., multi-use)? Y / (N) If yes, how many? _____

Other characteristics:

Number of floors 1 Building age _____

Is the building insulated? Y / (N) How air tight? Tight / (Average) / Not Tight

4. AIRFLOW

Use air current tubes or tracer smoke to evaluate airflow patterns and qualitatively describe:

Airflow between floors

NA, Single Story Structure

Airflow near source

NA

Outdoor air infiltration

Infiltration through southern wall

Infiltration into air ducts

NA

5. BASEMENT AND CONSTRUCTION CHARACTERISTICS (Circle all that apply)

a. Above grade construction:	wood frame	(concrete)	stone	brick
b. Basement type:	full	crawlspace	slab	other NA
c. Basement floor:	concrete	dirt	stone	other NA
d. Basement floor:	uncovered	covered	covered with NA	
e. Concrete floor:	(unsealed)	sealed	sealed with _____	
f. Foundation walls:	poured	(block)	stone	other _____
g. Foundation walls:	unsealed	(sealed)	sealed with _____	
h. The basement is:	wet	damp	dry	moldy (NA)
i. The basement is:	finished	unfinished	partially finished (NA)	
j. Sump present?	Y / (N)			
k. Water in sump?	Y / N / not applicable			

Basement/Lowest level depth below grade: _____(feet)

Identify potential soil vapor entry points and approximate size (e.g., cracks, utility ports, drains)

NA

6. HEATING, VENTING and AIR CONDITIONING (Circle all that apply)

Type of heating system(s) used in this building: (circle all that apply – note primary)

(Hot air circulation)	Heat pump	Hot water baseboard	
Space Heaters	Stream radiation	Radiant floor	
Electric baseboard	Wood stove	Outdoor wood boiler	Other _____

The primary type of fuel used is:

(Natural Gas)	Fuel Oil	Kerosene
Electric	Propane	Solar
Wood	Coal	

Domestic hot water tank fueled by: electric and natural gas

Boiler/furnace located in:	Basement	Outdoors	(Main Floor)	Other_____
Air conditioning:	(Central Air)	Window units	Open Windows	None

Are there air distribution ducts present? (Y) / N

Describe the supply and cold air return ductwork, and its condition where visible, including whether there is a cold air return and the tightness of duct joints. Indicate the locations on the floor plan diagram.

Forced air supply ductwork There is no return to the outdoors for recirculation.

7. OCCUPANCY

Is basement/lowest level occupied? (Full-time) Occasionally Seldom Almost Never

Level	**General Use of Each Floor (e.g., familyroom, bedroom, laundry, workshop, storage)**
Basement	NA
1st Floor	wood workshop
2nd Floor	NA
3rd Floor	NA
4th Floor	NA

8. FACTORS THAT MAY INFLUENCE INDOOR AIR QUALITY

a. Is there an attached garage? (Y) / N

b. Does the garage have a separate heating unit? Y / (N) / NA

c. Are petroleum-powered machines or vehicles stored in the garage (e.g., lawnmower, atv, car) Y / (N) / NA
Please specify_____

d. Has the building ever had a fire? Y / (N) When?_____

e. Is a kerosene or unvented gas space heater present? Y / (N) Where? _____

f. Is there a workshop or hobby/craft area? (Y) / N Where & Type? woodshop

g. Is there smoking in the building? Y / (N) How frequently? _____

h. Have cleaning products been used recently? (Y) / N When & Type? weekly, disinfectants

i. Have cosmetic products been used recently? Y / (N) When & Type? _____

j. Has painting/staining been done in the last 6 months? (Y) / N Where & When? woodshop

k. Is there new carpet, drapes or other textiles? Y / (N) Where & When? _____

l. Have air fresheners been used recently? Y / (N) When & Type? _____

m. Is there a kitchen exhaust fan? Y / (N) If yes, where vented? _____

n. Is there a bathroom exhaust fan? (Y) / N If yes, where vented? on ceilings

o. Is there a clothes dryer? Y / (N) If yes, is it vented outside? Y / N

p. Has there been a pesticide application? Y / (N) When & Type? _____

Are there odors in the building? (Y) / N
If yes, please describe: spray paint

Do any of the building occupants use solvents at work? (Y) / N
(e.g., chemical manufacturing or laboratory, auto mechanic or auto body shop, painting, fuel oil delivery, boiler mechanic, pesticide application, cosmetologist

If yes, what types of solvents are used? paint thinner, spray paint

If yes, are their clothes washed at work? Y / (N)

Do any of the building occupants regularly use or work at a dry-cleaning service? (Circle appropriate response)

Yes, use dry-cleaning regularly (weekly) (No)
Yes, use dry-cleaning infrequently (monthly or less) Unknown
Yes, work at a dry-cleaning service

Is there a radon mitigation system for the building/structure? Y / (N) Date of Installation: _____
Is the system active or passive? Active/Passive

9. WATER AND SEWAGE

Water Supply: (Public Water) Drilled Well Driven Well Dug Well Other: _____

Sewage Disposal: (Public Sewer) Septic Tank Leach Field Dry Well Other: _____

10. RELOCATION INFORMATION (for oil spill residential emergency)

a. Provide reasons why relocation is recommended: _____

b. Residents choose to: remain in home relocate to friends/family relocate to hotel/motel

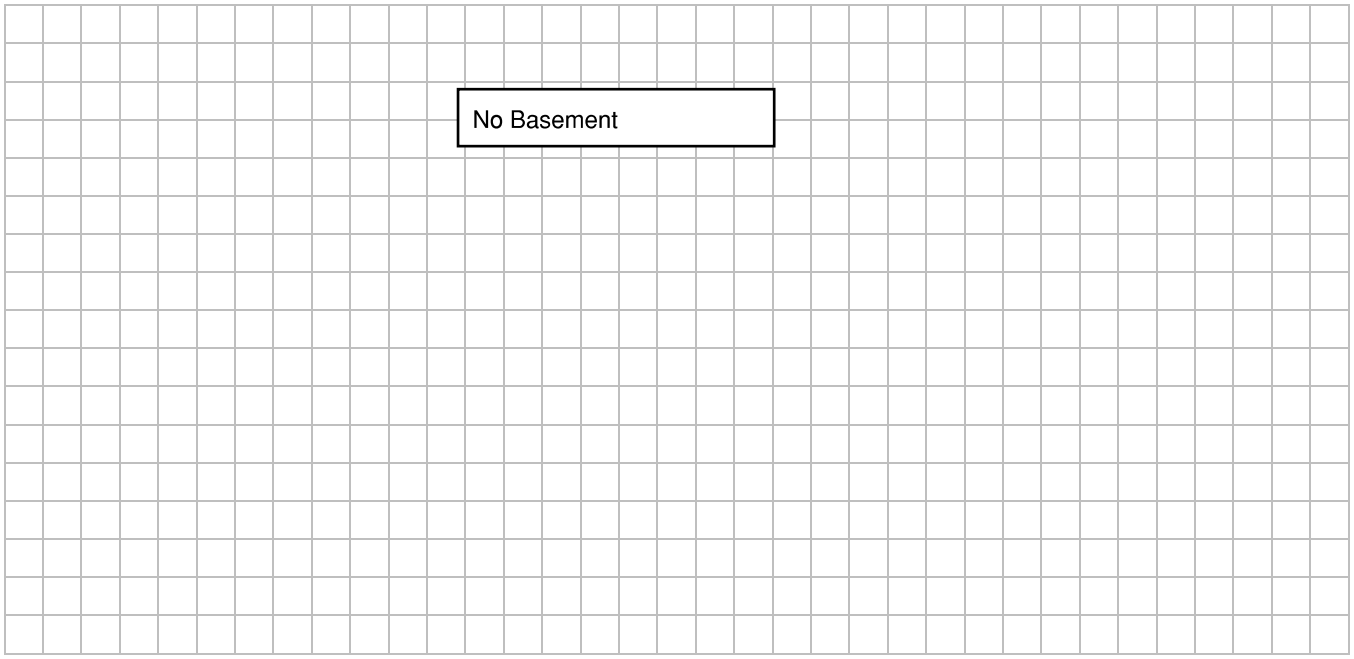
c. Responsibility for costs associated with reimbursement explained? Y / N

d. Relocation package provided and explained to residents? Y / N

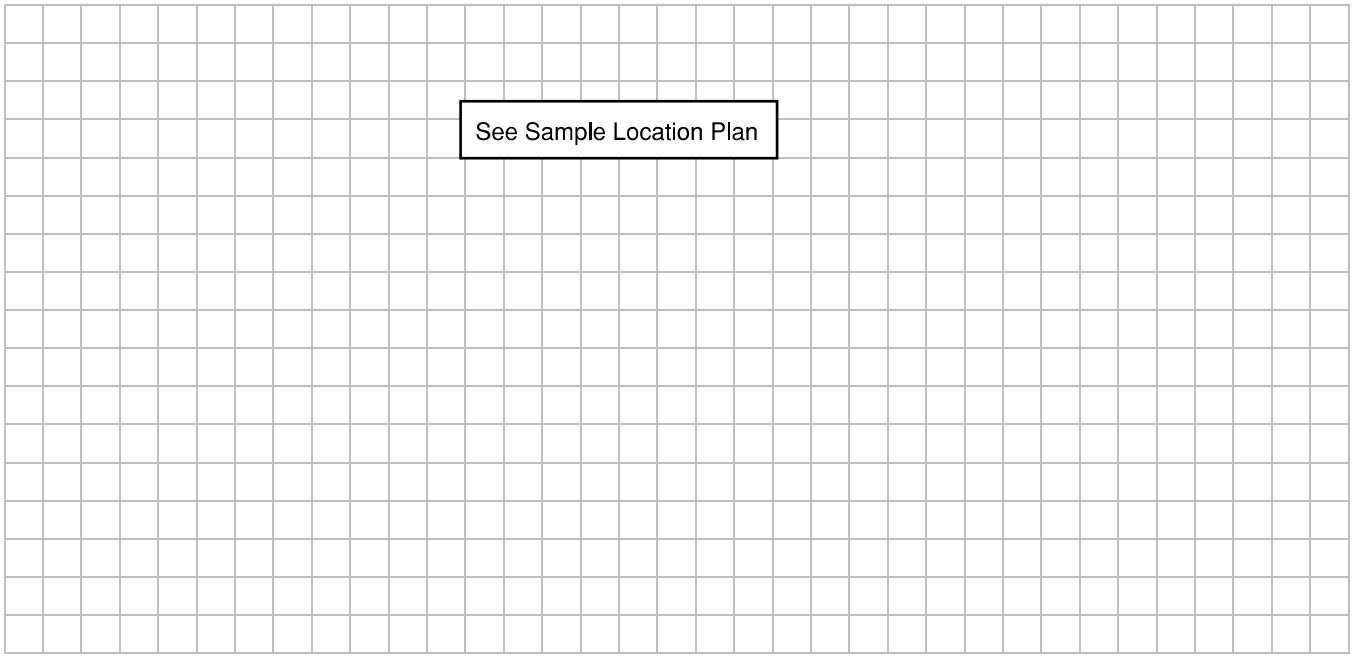
11. FLOOR PLANS

Draw a plan view sketch of the basement and first floor of the building. Indicate air sampling locations, possible indoor air pollution sources and PID meter readings. If the building does not have a basement, please note.

Basement:



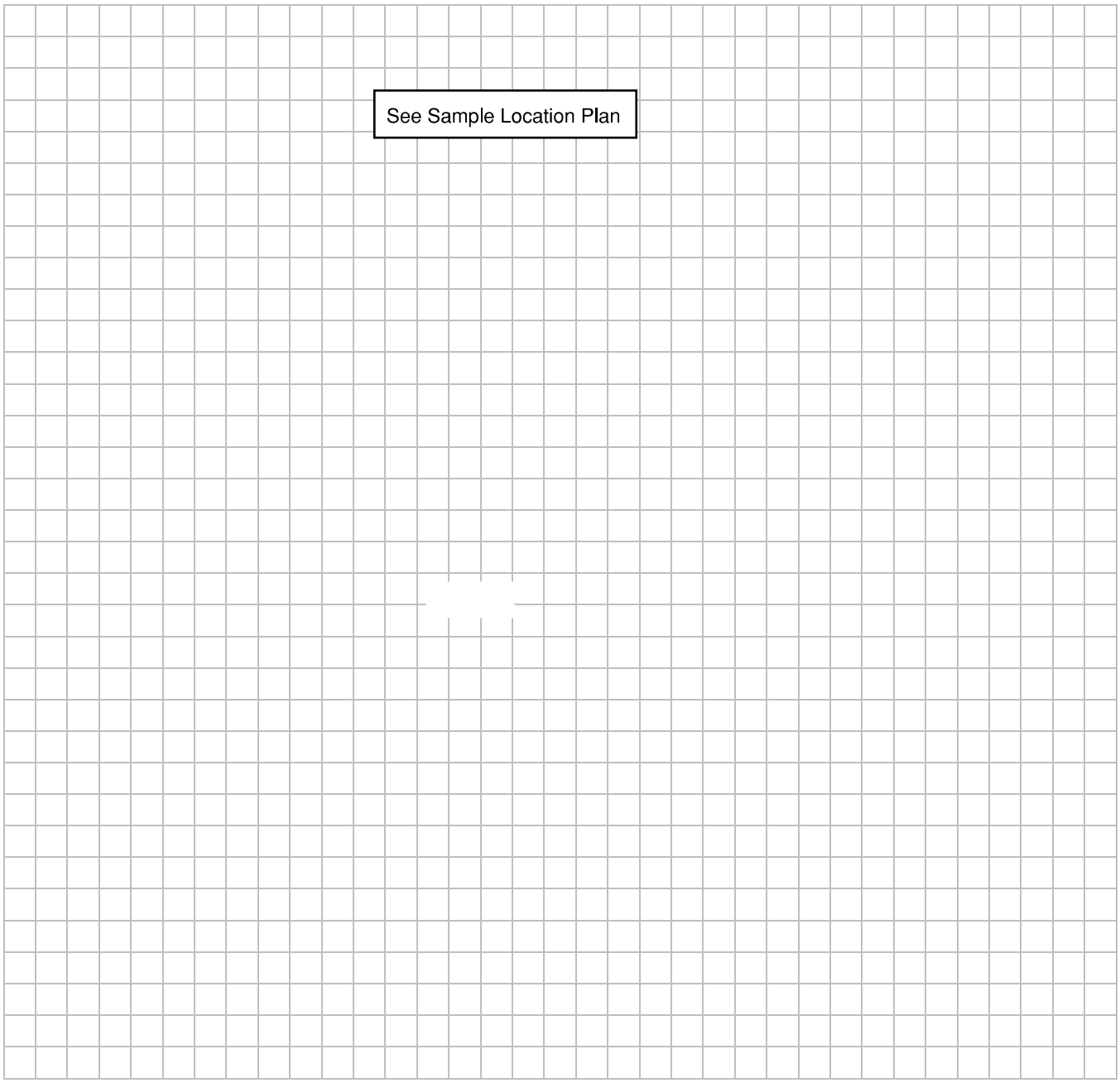
First Floor:



12. OUTDOOR PLOT

Draw a sketch of the area surrounding the building being sampled. If applicable, provide information on spill locations, potential air contamination sources (industries, gas stations, repair shops, landfills, etc.), outdoor air sampling location(s) and PID meter readings.

Also indicate compass direction, wind direction and speed during sampling, the locations of the well and septic system, if applicable, and a qualifying statement to help locate the site on a topographic map.



Indoor Air Quality Investigation
Pre-Inspection Product Inventory

Site Name: **ABC Block 26 - MW30D** **Langan Project No.: 170340203**

Site Location: **Long Island City, NY** **Date: 02/10/2024**

Make and model of field instrument used: MiniRAE 3000

Location	Product Description	Size (units)	Condition*	Chemical Ingredients/Cas number	Field Instrument Reading (ppm)	Photo Y/N
MW30D	Metaflux - Anti Seize Lubricant Spray (x1)	13.5 oz	U	Butane, Propane, Pentane, Hydrocarbons, Carbon, Isobutane, Aluminum, Propylene Carbonate, n-Hexane, Cyclohexane, Chromium, Phosphorodithioic Acid	0.0	Y
MW30D	Rust Free - Rust & Stain Remover (x1)	8 oz	U	Phosphoric acid, Isopropanol, C12-13 Pareth-15	0.0	Y
MW30D	Titebond - Wood Adhesive (x1)	8 oz	U	"Non-hazardous"	0.0	Y
MW30D	Titebond - Wood Adhesive (x9)	16 oz	U	"Non-hazardous"	1.0	Y
MW30D	Titebond - Wood Adhesive (x11)	1 gal	(x5 U) (x6 UO)	"Non-hazardous"	2.0	Y
MW30D	T-9 - Waterproof Lubricant (x1)	4 oz	U	C13-14 Isoparaffin, C9-11 Alkane/Cycloalkane, Hydrotreated Heavy Naphthenic Distillate Solvent Extract, Petrolatum, Carbon Dioxide, Sodium Petroleum Sulfonate, Sorbitan Tristerate	0.0	Y
MW30D	Klean Strip - Denatured Alcohol (x2)	1 gal	U	Ethyl alcohol, Methanol	0.0	Y
MW30D	Formica 200 - Spray Adhesive (x2)	38 lb	U	Methylene Chloride, Liquefied Petroleum Gas	0.0	Y
MW30D	ProMar 200 - Interior Latex (x2)	4.6 gal	U	Titanium Dioxide	0.0	Y
MW30D	Uline Tuff Wipes - Disinfectant Wipes (x1)	75 ct	U	Water, Butyl3-Hydroxybutyrate, Ethoxylated C11 Alocohol, Glycerol, Ethoxylated lauryl Alocohol, Ethoxylated Coco Ammonium Chloride, Lauryl Dimethyl Amine Oxide, 2-methyl-2H-isothiazol-3-one, 1,2-benzisothiazol-3(2H)-one, 5-chloro-2-methyl-2H-isothiazol-3-one	0.0	Y
MW30D	Goo Gone - Adhesive Remover (x1)	16 oz	U	Petroleum Distillates, Hydrotreated Light, D-Limonene, Orange Sweet Extract	0.0	Y

* Describe the condition of the product containers as Unopened (UO), Used (U), or Deteriorated (D).

Indoor Air Quality Investigation
Pre-Inspection Product Inventory

MW30D	Blaster - Silicone Lubricant Spray (x2)	11 oz	U	Alkanes, Petroleum Distillates, Hydrotrated Light, Carbon Dioxide	0.0	Y
MW30D	WD-40 - Lubricant (x2)	11 oz	U	LVP Aliphatic Hydrocarbon, Petroleum Base Oil, Carbon Dioxide	0.0	Y
MW30D	Irwin - Marking Chalk (x1)	8 oz	U	Calcium Carbonate, Crystalline Silica	0.0	Y
MW30D	Benzomatic - Propane Canister (x1)	14.1 oz	U	Propane, Propylene, Ethane, Butane, Ethyl Mercaptan	0.0	Y
MW30D	KD Edge Paint	NA	U	NA	0.0	Y
MW30D	Hercules Purple PVC Primer (x1)	8 oz	U	Tetrahydrofuran, Methyl Ethly Ketone, Cyclohexanone, Acetone	0.0	Y
MW30D	Oatey PVC Medium Clear PVC Cement (x1)	8 oz	U	Furan, Tetrahydro-, Acetone, Methyl Ethly Ketone, Ethene, Chloro-, Homopolymer, Polyvinyl Chloride, Cyclohexanone, Fumed Silica	0.0	Y
MW30D	Renolit Syn 940 - Synthetic Grease (x1)	400 g	U	Zinc Oxide, Boric Acid, Potassium Salt, Mineral Oil, Glycerin	0.0	Y
MW30D	UnibondOne - Adhesive (x1)	1 qt	U	NA	0.0	Y
MW30D	Bostik - Lubricant Aerosol (x1)	5.5 oz	U	Acetone, 1,1-Difluoroethane, 2,2,4-Trimethylpentane, Naphtha, Light Alkylate, 1-Decene, Ethylbenzene, Tricresyl Phosphate	0.0	Y
MW30D	3-in-one Multi-Purpose Oil - Lubricant (x1)	8 oz	U	Severely Hydrotreated Heavy Naphthenic Oil, Naphtha	0.0	Y
MW30D	Gojo - Hand Cleaner (x1)	1 gal	U	1-Methyl 4-(1-Methylethenyl) Cyclohexene, Alcohols, C12-15, Ethoxylated Propoxylated	0.3	Y
MW30D	Uline - Degreaser (x2)	32 oz	U	Cylohexene, Propane, Alkanes - C12-14iso	0.3	Y
MW30D	Eyesaline - Eyewash (x2)	32 oz	(x1 U) (x1 UO)	"Non-hazardous"	0.3	Y

* Describe the condition of the product containers as Unopened (UO), Used (U), or Deteriorated (D).

Indoor Air Quality Investigation
Pre-Inspection Product Inventory

MW30D	Simple Green - Degreaser (x2)	1 gal	U	Water, Surfactant, C9-11 Alcohols Ethoxylated, Tetrasodium Gluamate Diacetate, Sodium Bicarbonate, Hydrochloric Acid, Fragrances, Blend of Polyoxyalkylene Substituted Chromophores (Cyan and Yellow), Anethole, Eucalyptol, Methylchloroisothiazolinone, Methylisothiazolinone	0.3	Y
MW30D	Krud Kutter - Degreaser (x1)	1 gal	U	Disodium Metasilicate Pentahydrate, Ethoxylated Alcohols	0.3	Y
MW30D	Honeywell Hydrogen Peroxide - First Aid Antiseptic (x1)	16 oz	UO	Hydrogen Peroxide	0.3	Y
MW30D	Krylon Colormaxx - Spray Paint (x30+)	16 oz	U	Methyl Acetate, Propane, Toluene, Butane, Lt. Aliphatic Hydrocarbon Solvent, Hexane, Xylene Mixed Isomers, 2-Methylpentane, 3-Methylpentane, 2,3-Dimethylbutane, Methyl Ethyl Ketxime, Ethylbenzene, Light Aliphatic Hydrocarbon	1.2	Y
MW30D	Krylon - Spray Adhesive (x30+)	11 oz	U	Methyl Acetate, Propane, Butane, Heptane, p-Cholorobenzotrifluoride	0.0	Y
MW30D	Kimball Midwest Cat Iron Coat - Spray Paint (x30+)	16 oz	U	Acetone, Propane, Toluene, n-Butane, VM&P Naphtha, Barium Sulfate, Xylene, PM Acetate	1.2	Y
MW30D	Rust-oluem - Metallic Paint (x30+)	1 qt	U	Dimethyl Ether, Ethlene Glycol Monobutyl, 2-Propanol, n-Butane, Titanium Dioxide	1.2	Y
MW30D	Rust-oluem - Filler Primer (x30+)	15 oz	U	Acetone, Propane, Hydrous Magnesium Silicate, n-Butyl Acetate, n-Butane, Xylenes (o-, m-, p- Isomers), Titanium Dioxide, Ethylbenzene, Zinc Phosphate, Zinc Oxide	1.2	Y
MW30D	Rust-oleum - Ultra Cover Paint (x30+)	1 gal	U	Propane, Naphtha, Hydrotreated Light, Hydrous Magnesium Silicate, n-Butane, Titanium Dioxide, Xylene (mixed isomers), Hydrotreated Light Distillate, n-Butyle Acetate, Acetone, Barium Sulfate, Ethylbenzene, Zinc Phosphate, Methyl Ethyl Ketoxime	1.2	Y

* Describe the condition of the product containers as Unopened (UO), Used (U), or Deteriorated (D).

Indoor Air Quality Investigation
Pre-Inspection Product Inventory

MW30D	Benjamin Moore - Regal Classic Paint (x5+)	1 gal	U	Titanium Dioxide, Zinc Oxide, Crystalline Silica, Diatomaceous Earth	1.2	Y
MW30D	Benjamin Moore - Regal Classic Paint (x5+)	5 gal	U	Titanium Dioxide, Zinc Oxide, Crystalline Silica, Diatomaceous Earth	1.2	Y
MW30D	Walgreens 70% Isopropyl Alcohol - First Aid Antiseptic (x1)	16 oz	U	Isopropyl Alcohol	1.2	Y
MW30D	Walgreens 91% Isopropyl Alcohol - First Aid Antiseptic (x1)	32 oz	UO	Isopropyl Alcohol	1.2	Y
MW30D	Minwax - Polyurethane (x1)	1 qt	U	Light Aliphatic Hydrocarbon, Zirconium 2-Ethylhexanoate, Methyl Ethyl Ketoxime, Dibutyltin Dichloride	1.2	Y
MW30D	Armor All - Car Cleaner (x1)	28 oz	U	Mineral Oil	0.3	Y
MW30D	Prestone - Antifreeze Coolant (x1)	32 oz	U	Ethylene Glycol 2-Ethyl Hexanoic Acid, Neodecanoic Acid, Diethylene Glycol	0.3	Y
MW30D	Latex-ite Ice and Snow Melt - De-Icer (x2)	30 lb	(x1 U) (x1 UO)	Sodium Chloride, Calcium Chloride, Magnesium Chloride, CMA	0.3	Y
MW30D	Meguiars - Tire Coating (x4)	15 oz	U	Petroleum Distillate	0.3	Y
MW30D	Fix-A-Flat - Tire Sealer (x1)	20 oz	U	Glycerol, (1E)-1,3,3,3-Tetrafluoro-1-propene	0.3	Y
MW30D	Mohawk Ultra Penetrating NGR DYE Stain - Wood Stain (x1)	1 qt	U	Acetone, Ethanol	0.0	Y
MW30D	Ingersoll Rand - Compressor Coolant (x1)	10 oz	U	Polypropylene Glycol, Pentaerythritol Ester, Alkylated Diphenylamine, Barium Dinony	0.0	Y
MW30D	WAHL Hair Clipper Blade Oil - Lubricant (x1)	4.6 oz	U	White Mineral Oil	0.0	Y

* Describe the condition of the product containers as Unopened (UO), Used (U), or Deteriorated (D).

NEW YORK STATE DEPARTMENT OF HEALTH
INDOOR AIR QUALITY QUESTIONNAIRE AND BUILDING INVENTORY
CENTER FOR ENVIRONMENTAL HEALTH

This form must be completed for each residence involved in indoor air testing.

Preparer's Name Roswell Lo Date/Time Prepared 2/17/2024

Preparer's Affiliation Langan Engineering Phone No. (212) 479-5400

Purpose of Investigation ABC Block 26 Pilot Study

1. OCCUPANT:

Interviewed: Y / N

Last Name: Wheeler First Name: Edjo

Address: 5-25 46th Ave, Long Island City, New York

County: Queens County

Home Phone: _____ Office Phone: 917 287 3093

Number of Occupants/persons at this location 10 Age of Occupants 20-50 years

2. OWNER OR LANDLORD: (Check if same as occupant ___)

Interviewed: Y / (N)

Last Name: _____ First Name: _____

Address: _____

County: _____

Home Phone: _____ Office Phone: _____

3. BUILDING CHARACTERISTICS

Type of Building: (Circle appropriate response)

Residential	School	(Commercial/Multi-use)
Industrial	Church	Other: _____

If the property is residential, type? (Circle appropriate response)

Ranch	2-Family	3-Family
Raised Ranch	Split Level	Colonial
Cape Cod	Contemporary	Mobile Home
Duplex	Apartment House	Townhouses/Condos
Modular	Log Home	Other:_____

If multiple units, how many? _____

If the property is commercial, type?

Business Type(s) manufacturing

Does it include residences (i.e., multi-use)? Y / N If yes, how many? _____

Other characteristics:

Number of floors 1 Building age_____

Is the building insulated? Y / (N) How air tight? Tight / (Average) / Not Tight

4. AIRFLOW

Use air current tubes or tracer smoke to evaluate airflow patterns and qualitatively describe:

Airflow between floors

NA, Single Story Structure

Airflow near source

NA

Outdoor air infiltration

Infiltration through southern wall

Infiltration into air ducts

NA

5. BASEMENT AND CONSTRUCTION CHARACTERISTICS (Circle all that apply)

a. Above grade construction:	wood frame	(concrete)	stone	brick
b. Basement type:	full	crawlspace	slab	other NA
c. Basement floor:	concrete	dirt	stone	other NA
d. Basement floor:	uncovered	covered	covered with NA	
e. Concrete floor:	(unsealed)	sealed	sealed with _____	
f. Foundation walls:	poured	(block)	stone	other _____
g. Foundation walls:	unsealed	(sealed)	sealed with _____	
h. The basement is:	wet	damp	dry	moldy (NA)
i. The basement is:	finished	unfinished	partially finished (NA)	
j. Sump present?	Y /(N)			
k. Water in sump?	Y / N /(not applicable)			

Basement/Lowest level depth below grade: _____(feet)

Identify potential soil vapor entry points and approximate size (e.g., cracks, utility ports, drains)

Crack in floor

_____

6. HEATING, VENTING and AIR CONDITIONING (Circle all that apply)

Type of heating system(s) used in this building: (circle all that apply – note primary)

(Hot air circulation)	Heat pump	Hot water baseboard	
Space Heaters	Stream radiation	Radiant floor	
Electric baseboard	Wood stove	Outdoor wood boiler	Other _____

The primary type of fuel used is:

(Natural Gas)	Fuel Oil	Kerosene
Electric	Propane	Solar
Wood	Coal	

Domestic hot water tank fueled by: electric and natural gas

Boiler/furnace located in: Basement Outdoors (Main Floor) Other_____

Air conditioning: (Central Air) Window units Open Windows None

Are there air distribution ducts present? (Y) / N

Describe the supply and cold air return ductwork, and its condition where visible, including whether there is a cold air return and the tightness of duct joints. Indicate the locations on the floor plan diagram.

Forced air supply ductwork There is no return to the outdoors for recirculation.

7. OCCUPANCY

Is basement/lowest level occupied? (Full-time) Occasionally Seldom Almost Never

Level	**General Use of Each Floor (e.g., familyroom, bedroom, laundry, workshop, storage)**
Basement	NA
1st Floor	wood workshop
2nd Floor	NA
3rd Floor	NA
4th Floor	NA

8. FACTORS THAT MAY INFLUENCE INDOOR AIR QUALITY

a. Is there an attached garage? (Y) / N

b. Does the garage have a separate heating unit? Y / (N) / NA

c. Are petroleum-powered machines or vehicles stored in the garage (e.g., lawnmower, atv, car) Y / (N) / NA
Please specify_____

d. Has the building ever had a fire? Y / (N) When?_____

e. Is a kerosene or unvented gas space heater present? Y / (N) Where? _____

f. Is there a workshop or hobby/craft area? (Y) / N Where & Type? woodshop

g. Is there smoking in the building? Y / (N) How frequently? _____

h. Have cleaning products been used recently? (Y) / N When & Type? weekly, disinfectants

i. Have cosmetic products been used recently? Y / (N) When & Type? _____

j. Has painting/staining been done in the last 6 months? (Y) / N Where & When? woodshop

k. Is there new carpet, drapes or other textiles? Y / (N) Where & When? _____

l. Have air fresheners been used recently? Y / (N) When & Type? _____

m. Is there a kitchen exhaust fan? Y / (N) If yes, where vented? _____

n. Is there a bathroom exhaust fan? (Y) / N If yes, where vented? on ceilings

o. Is there a clothes dryer? Y / (N) If yes, is it vented outside? Y / N

p. Has there been a pesticide application? Y / (N) When & Type? _____

Are there odors in the building? (Y) / N
If yes, please describe: spray paint

Do any of the building occupants use solvents at work? (Y) / N
(e.g., chemical manufacturing or laboratory, auto mechanic or auto body shop, painting, fuel oil delivery, boiler mechanic, pesticide application, cosmetologist

If yes, what types of solvents are used? paint thinner, spray paint

If yes, are their clothes washed at work? Y / (N)

Do any of the building occupants regularly use or work at a dry-cleaning service? (Circle appropriate response)

Yes, use dry-cleaning regularly (weekly) (No)
Yes, use dry-cleaning infrequently (monthly or less) Unknown
Yes, work at a dry-cleaning service

Is there a radon mitigation system for the building/structure? Y / (N) Date of Installation: _____
Is the system active or passive? Active/Passive

9. WATER AND SEWAGE

Water Supply: (Public Water) Drilled Well Driven Well Dug Well Other: _____

Sewage Disposal: (Public Sewer) Septic Tank Leach Field Dry Well Other: _____

10. RELOCATION INFORMATION (for oil spill residential emergency)

a. Provide reasons why relocation is recommended: _____

b. Residents choose to: remain in home relocate to friends/family relocate to hotel/motel

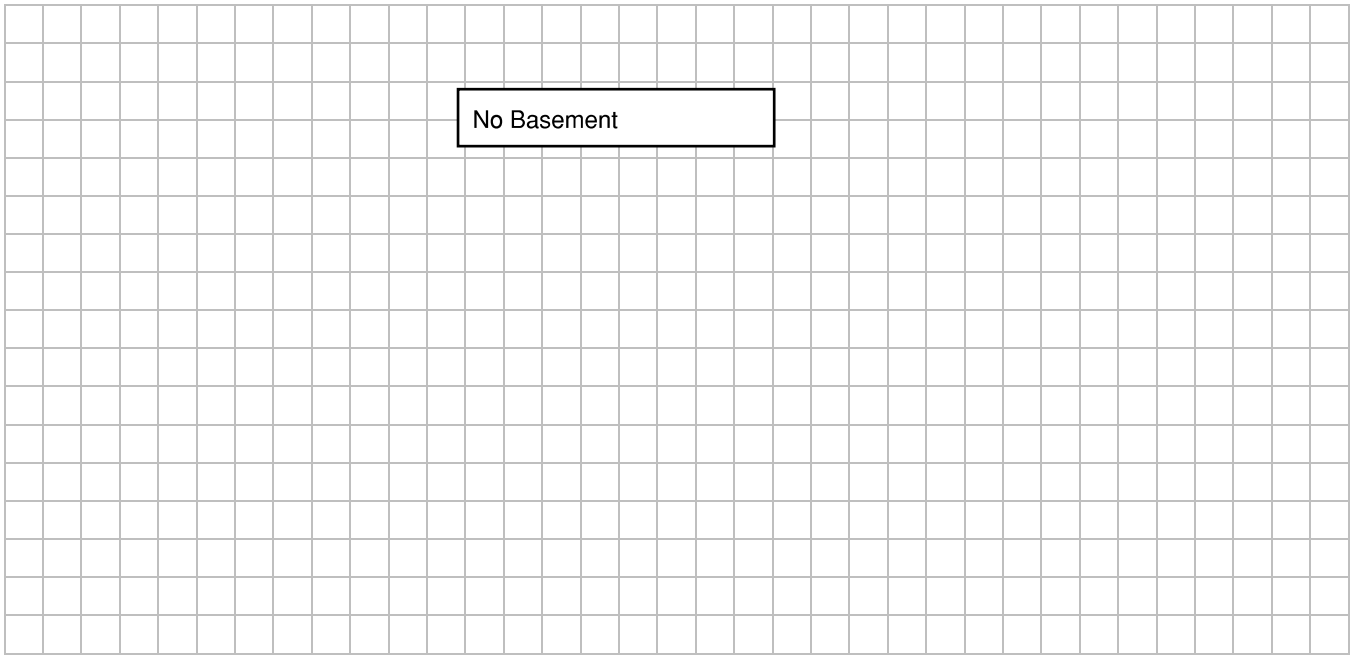
c. Responsibility for costs associated with reimbursement explained? Y / N

d. Relocation package provided and explained to residents? Y / N

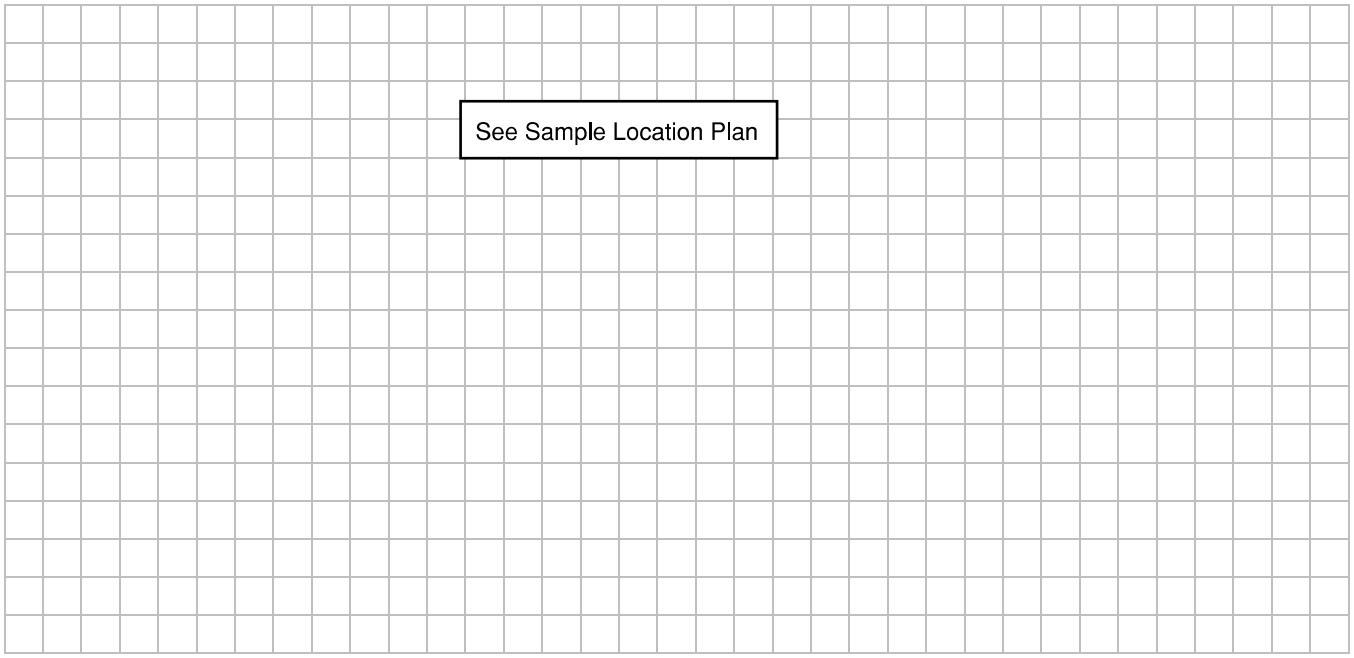
11. FLOOR PLANS

Draw a plan view sketch of the basement and first floor of the building. Indicate air sampling locations, possible indoor air pollution sources and PID meter readings. If the building does not have a basement, please note.

Basement:



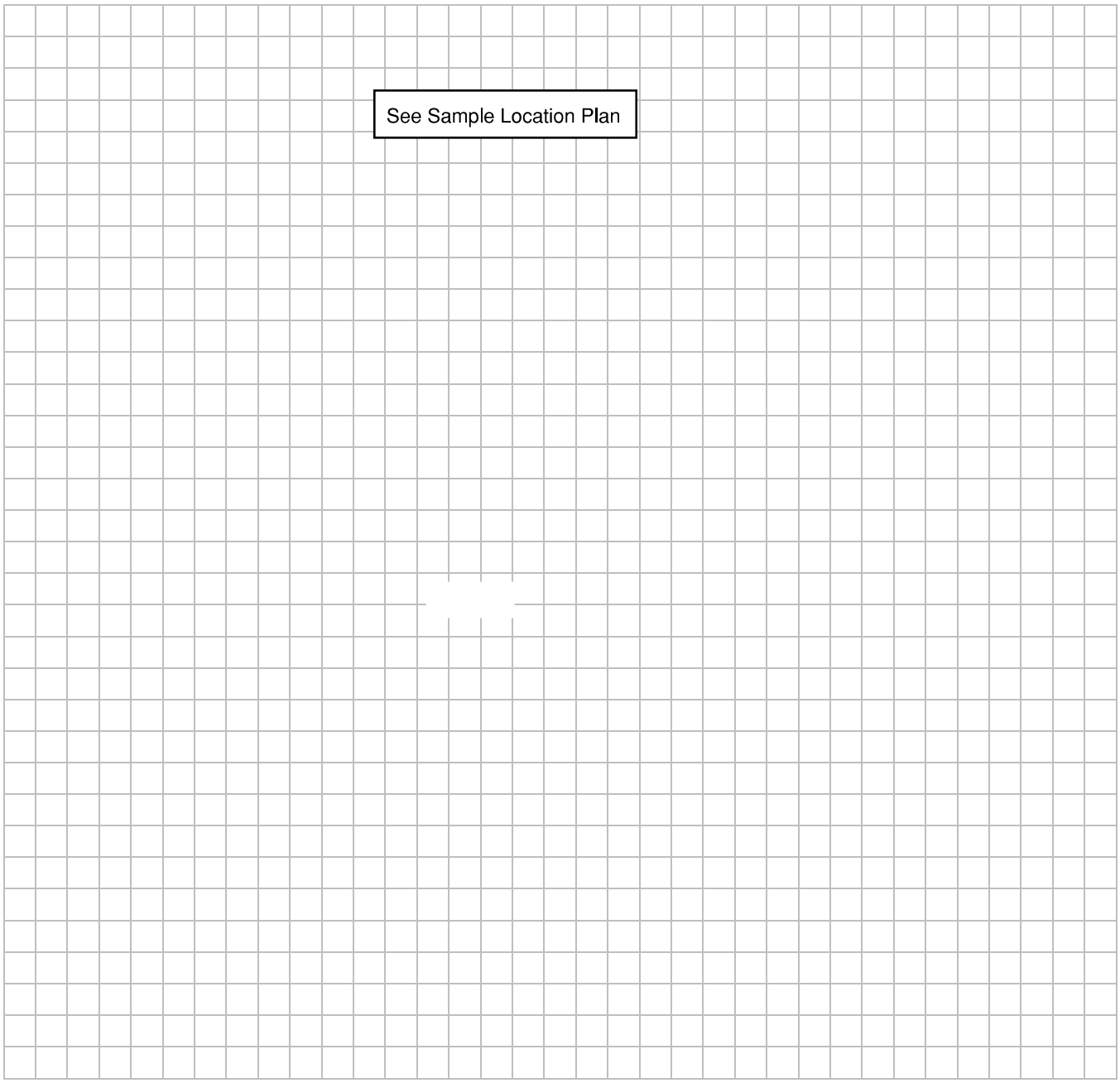
First Floor:



12. OUTDOOR PLOT

Draw a sketch of the area surrounding the building being sampled. If applicable, provide information on spill locations, potential air contamination sources (industries, gas stations, repair shops, landfills, etc.), outdoor air sampling location(s) and PID meter readings.

Also indicate compass direction, wind direction and speed during sampling, the locations of the well and septic system, if applicable, and a qualifying statement to help locate the site on a topographic map.



Indoor Air Quality Investigation
Pre-Inspection Product Inventory

Site Name: **ABC Block 26 - MW30D** **Langan Project No.: 170340203**

Site Location: **Long Island City, NY** **Date: 02/17/2024**

Make and model of field instrument used: MiniRAE 3000

Location	Product Description	Size (units)	Condition*	Chemical Ingredients/Cas number	Field Instrument Reading (ppm)	Photo Y/N
MW30D	Metaflux - Anti Seize Lubricant Spray (x1)	13.5 oz	U	Butane, Propane, Pentane, Hydrocarbons, Carbon, Isobutane, Aluminum, Propylene Carbonate, n-Hexane, Cyclohexane, Chromium, Phosphorodithioic Acid	0.0	Y
MW30D	Rust Free - Rust & Stain Remover (x1)	8 oz	U	Phosphoric acid, Isopropanol, C12-13 Pareth-15	0.0	Y
MW30D	Titebond - Wood Adhesive (x1)	8 oz	U	"Non-hazardous"	0.0	Y
MW30D	Titebond - Wood Adhesive (x9)	16 oz	U	"Non-hazardous"	1.0	Y
MW30D	Titebond - Wood Adhesive (x11)	1 gal	(x5 U) (x6 UO)	"Non-hazardous"	2.0	Y
MW30D	T-9 - Waterproof Lubricant (x1)	4 oz	U	C13-14 Isoparaffin, C9-11 Alkane/Cycloalkane, Hydrotreated Heavy Naphthenic Distillate Solvent Extract, Petrolatum, Carbon Dioxide, Sodium Petroleum Sulfonate, Sorbitan Tristerate	0.0	Y
MW30D	Klean Strip - Denatured Alcohol (x2)	1 gal	U	Ethyl alcohol, Methanol	0.0	Y
MW30D	Formica 200 - Spray Adhesive (x2)	38 lb	U	Methylene Chloride, Liquefied Petroleum Gas	0.0	Y
MW30D	ProMar 200 - Interior Latex (x2)	4.6 gal	U	Titanium Dioxide	0.0	Y
MW30D	Uline Tuff Wipes - Disinfectant Wipes (x1)	75 ct	U	Water, Butyl3-Hydroxybutyrate, Ethoxylated C11 Alocohol, Glycerol, Ethoxylated lauryl Alocohol, Ethoxylated Coco Ammonium Chloride, Lauryl Dimethyl Amine Oxide, 2-methyl-2H-isothiazol-3-one, 1,2-benzisothiazol-3(2H)-one, 5-chloro-2-methyl-2H-isothiazol-3-one	0.0	Y
MW30D	Goo Gone - Adhesive Remover (x1)	16 oz	U	Petroleum Distillates, Hydrotreated Light, D-Limonene, Orange Sweet Extract	0.0	Y

* Describe the condition of the product containers as Unopened (UO), Used (U), or Deteriorated (D).

Indoor Air Quality Investigation
Pre-Inspection Product Inventory

MW30D	Blaster - Silicone Lubricant Spray (x2)	11 oz	U	Alkanes, Petroleum Distillates, Hydrotrated Light, Carbon Dioxide	0.0	Y
MW30D	WD-40 - Lubricant (x2)	11 oz	U	LVP Aliphatic Hydrocarbon, Petroleum Base Oil, Carbon Dioxide	0.0	Y
MW30D	Irwin - Marking Chalk (x1)	8 oz	U	Calcium Carbonate, Crystalline Silica	0.0	Y
MW30D	Benzomatic - Propane Canister (x1)	14.1 oz	U	Propane, Propylene, Ethane, Butane, Ethyl Mercaptan	0.0	Y
MW30D	KD Edge Paint	NA	U	NA	0.0	Y
MW30D	Hercules Purple PVC Primer (x1)	8 oz	U	Tetrahydrofuran, Methyl Ethly Ketone, Cyclohexanone, Acetone	0.0	Y
MW30D	Oatey PVC Medium Clear PVC Cement (x1)	8 oz	U	Furan, Tetrahydro-, Acetone, Methyl Ethly Ketone, Ethene, Chloro-, Homopolymer, Polyvinyl Chloride, Cyclohexanone, Fumed Silica	0.0	Y
MW30D	Renolit Syn 940 - Synthetic Grease (x1)	400 g	U	Zinc Oxide, Boric Acid, Potassium Salt, Mineral Oil, Glycerin	0.0	Y
MW30D	UnibondOne - Adhesive (x1)	1 qt	U	NA	0.0	Y
MW30D	Bostik - Lubricant Aerosol (x1)	5.5 oz	U	Acetone, 1,1-Difluoroethane, 2,2,4-Trimethylpentane, Naphtha, Light Alkylate, 1-Decene, Ethylbenzene, Tricresyl Phosphate	0.0	Y
MW30D	3-in-one Multi-Purpose Oil - Lubricant (x1)	8 oz	U	Severely Hydrotreated Heavy Naphthenic Oil, Naphtha	0.0	Y
MW30D	Gojo - Hand Cleaner (x1)	1 gal	U	1-Methyl 4-(1-Methylethenyl) Cyclohexene, Alcohols, C12-15, Ethoxylated Propoxylated	0.3	Y
MW30D	Uline - Degreaser (x2)	32 oz	U	Cylohexene, Propane, Alkanes - C12-14iso	0.3	Y
MW30D	Eyesaline - Eyewash (x2)	32 oz	(x1 U) (x1 UO)	"Non-hazardous"	0.3	Y

* Describe the condition of the product containers as Unopened (UO), Used (U), or Deteriorated (D).

Indoor Air Quality Investigation
Pre-Inspection Product Inventory

MW30D	Simple Green - Degreaser (x2)	1 gal	U	Water, Surfactant, C9-11 Alcohols Ethoxylated, Tetrasodium Gluamate Diacetate, Sodium Bicarbonate, Hydrochloric Acid, Fragrances, Blend of Polyoxyalkylene Substituted Chromophores (Cyan and Yellow), Anethole, Eucalyptol, Methylchloroisothiazolinone, Methylisothiazolinone	0.3	Y
MW30D	Krud Kutter - Degreaser (x1)	1 gal	U	Disodium Metasilicate Pentahydrate, Ethoxylated Alcohols	0.3	Y
MW30D	Honeywell Hydrogen Peroxide - First Aid Antiseptic (x1)	16 oz	UO	Hydrogen Peroxide	0.3	Y
MW30D	Krylon Colormaxx - Spray Paint (x30+)	16 oz	U	Methyl Acetate, Propane, Toluene, Butane, Lt. Aliphatic Hydrocarbon Solvent, Hexane, Xylene Mixed Isomers, 2-Methylpentane, 3-Methylpentane, 2,3-Dimethylbutane, Methyl Ethyl Ketxime, Ethylbenzene, Light Aliphatic Hydrocarbon	1.2	Y
MW30D	Krylon - Spray Adhesive (x30+)	11 oz	U	Methyl Acetate, Propane, Butane, Heptane, p-Cholorobenzotrifluoride	0.0	Y
MW30D	Kimball Midwest Cat Iron Coat - Spray Paint (x30+)	16 oz	U	Acetone, Propane, Toluene, n-Butane, VM&P Naphtha, Barium Sulfate, Xylene, PM Acetate	1.2	Y
MW30D	Rust-oluem - Metallic Paint (x30+)	1 qt	U	Dimethyl Ether, Ethlene Glycol Monobutyl, 2-Propanol, n-Butane, Titanium Dioxide	1.2	Y
MW30D	Rust-oluem - Filler Primer (x30+)	15 oz	U	Acetone, Propane, Hydrous Magnesium Silicate, n-Butyl Acetate, n-Butane, Xylenes (o-, m-, p- Isomers), Titanium Dioxide, Ethylbenzene, Zinc Phosphate, Zinc Oxide	1.2	Y
MW30D	Rust-oleum - Ultra Cover Paint (x30+)	1 gal	U	Propane, Naphtha, Hydrotreated Light, Hydrous Magnesium Silicate, n-Butane, Titanium Dioxide, Xylene (mixed isomers), Hydrotreated Light Distillate, n-Butyle Acetate, Acetone, Barium Sulfate, Ethylbenzene, Zinc Phosphate, Methyl Ethyl Ketoxime	1.2	Y

* Describe the condition of the product containers as Unopened (UO), Used (U), or Deteriorated (D).

Indoor Air Quality Investigation
Pre-Inspection Product Inventory

MW30D	Benjamin Moore - Regal Classic Paint (x5+)	1 gal	U	Titanium Dioxide, Zinc Oxide, Crystalline Silica, Diatomaceous Earth	1.2	Y
MW30D	Benjamin Moore - Regal Classic Paint (x5+)	5 gal	U	Titanium Dioxide, Zinc Oxide, Crystalline Silica, Diatomaceous Earth	1.2	Y
MW30D	Walgreens 70% Isopropyl Alcohol - First Aid Antiseptic (x1)	16 oz	U	Isopropyl Alcohol	1.2	Y
MW30D	Walgreens 91% Isopropyl Alcohol - First Aid Antiseptic (x1)	32 oz	UO	Isopropyl Alcohol	1.2	Y
MW30D	Minwax - Polyurethane (x1)	1 qt	U	Light Aliphatic Hydrocarbon, Zirconium 2-Ethylhexanoate, Methyl Ethyl Ketoxime, Dibutyltin Dichloride	1.2	Y
MW30D	Armor All - Car Cleaner (x1)	28 oz	U	Mineral Oil	0.3	Y
MW30D	Prestone - Antifreeze Coolant (x1)	32 oz	U	Ethylene Glycol 2-Ethyl Hexanoic Acid, Neodecanoic Acid, Diethylene Glycol	0.3	Y
MW30D	Latex-ite Ice and Snow Melt - De-Icer (x2)	30 lb	(x1 U) (x1 UO)	Sodium Chloride, Calcium Chloride, Magnesium Chloride, CMA	0.3	Y
MW30D	Meguiars - Tire Coating (x4)	15 oz	U	Petroleum Distillate	0.3	Y
MW30D	Fix-A-Flat - Tire Sealer (x1)	20 oz	U	Glycerol, (1E)-1,3,3,3-Tetrafluoro-1-propene	0.3	Y
MW30D	Mohawk Ultra Penetrating NGR DYE Stain - Wood Stain (x1)	1 qt	U	Acetone, Ethanol	0.0	Y
MW30D	Ingersoll Rand - Compressor Coolant (x1)	10 oz	U	Polypropylene Glycol, Pentaerythritol Ester, Alkylated Diphenylamine, Barium Dinony	0.0	Y
MW30D	WAHL Hair Clipper Blade Oil - Lubricant (x1)	4.6 oz	U	White Mineral Oil	0.0	Y

* Describe the condition of the product containers as Unopened (UO), Used (U), or Deteriorated (D).

NEW YORK STATE DEPARTMENT OF HEALTH
INDOOR AIR QUALITY QUESTIONNAIRE AND BUILDING INVENTORY
CENTER FOR ENVIRONMENTAL HEALTH

This form must be completed for each residence involved in indoor air testing.

Preparer's Name Camille Quick Date/Time Prepared 2/10/2024 - 13:20

Preparer's Affiliation Langan Engineering Phone No. (212) 479-5400

Purpose of Investigation ABC Block 26 Pilot Study

1. OCCUPANT:

Interviewed: Y / N

Last Name: Wheeler First Name: Edjo

Address: 5-25 46th Ave, Long Island City, New York

County: Queens County

Home Phone: _____ Office Phone: 917 287 3093

Number of Occupants/persons at this location 10 Age of Occupants 20-50 years

2. OWNER OR LANDLORD: (Check if same as occupant ___)

Interviewed: Y / (N)

Last Name: _____ First Name: _____

Address: _____

County: _____

Home Phone: _____ Office Phone: _____

3. BUILDING CHARACTERISTICS

Type of Building: (Circle appropriate response)

Residential	School	(Commercial/Multi-use)
Industrial	Church	Other: _____

If the property is residential, type? (Circle appropriate response)

Ranch	2-Family	3-Family
Raised Ranch	Split Level	Colonial
Cape Cod	Contemporary	Mobile Home
Duplex	Apartment House	Townhouses/Condos
Modular	Log Home	Other:_____

If multiple units, how many? _____

If the property is commercial, type?

Business Type(s) _____

Does it include residences (i.e., multi-use)? Y / (N) If yes, how many? _____

Other characteristics:

Number of floors 1 Building age_____

Is the building insulated? Y / (N) How air tight? Tight / (Average) / Not Tight

4. AIRFLOW

Use air current tubes or tracer smoke to evaluate airflow patterns and qualitatively describe:

Airflow between floors

NA, Single Story Structure

Airflow near source

NA

Outdoor air infiltration

Infiltration through southern wall

Infiltration into air ducts

NA

5. BASEMENT AND CONSTRUCTION CHARACTERISTICS (Circle all that apply)

a. Above grade construction:	wood frame	(concrete)	stone	brick
b. Basement type:	full	crawlspace	slab	other NA
c. Basement floor:	concrete	dirt	stone	other NA
d. Basement floor:	uncovered	covered	covered with NA	
e. Concrete floor:	(unsealed)	sealed	sealed with _____	
f. Foundation walls:	poured	(block)	stone	other _____
g. Foundation walls:	unsealed	(sealed)	sealed with _____	
h. The basement is:	wet	damp	dry	moldy (NA)
i. The basement is:	finished	unfinished	partially finished (NA)	
j. Sump present?	Y / (N)			
k. Water in sump?	Y / N / not applicable			

Basement/Lowest level depth below grade: _____(feet)

Identify potential soil vapor entry points and approximate size (e.g., cracks, utility ports, drains)

NA

6. HEATING, VENTING and AIR CONDITIONING (Circle all that apply)

Type of heating system(s) used in this building: (circle all that apply – note primary)

(Hot air circulation)	Heat pump	Hot water baseboard	
Space Heaters	Stream radiation	Radiant floor	
Electric baseboard	Wood stove	Outdoor wood boiler	Other _____

The primary type of fuel used is:

(Natural Gas)	Fuel Oil	Kerosene
Electric	Propane	Solar
Wood	Coal	

Domestic hot water tank fueled by: electric and natural gas

Boiler/furnace located in:	Basement	Outdoors	(Main Floor)	Other_____
Air conditioning:	(Central Air)	Window units	Open Windows	None

Are there air distribution ducts present? (Y) / N

Describe the supply and cold air return ductwork, and its condition where visible, including whether there is a cold air return and the tightness of duct joints. Indicate the locations on the floor plan diagram.

Forced air supply ductwork There is no return to the outdoors for recirculation.

7. OCCUPANCY

Is basement/lowest level occupied? (Full-time) Occasionally Seldom Almost Never

Level	**General Use of Each Floor (e.g., familyroom, bedroom, laundry, workshop, storage)**
Basement	NA
1st Floor	Artist studio/creative space open to the public
2nd Floor	NA
3rd Floor	NA
4th Floor	NA

8. FACTORS THAT MAY influence INDOOR AIR QUALITY

a. Is there an attached garage? (Y) / N

b. Does the garage have a separate heating unit? Y / (N) / NA

c. Are petroleum-powered machines or vehicles stored in the garage (e.g., lawnmower, atv, car) Y / (N) / NA Please specify_____

d. Has the building ever had a fire? Y / (N) When?_____

e. Is a kerosene or unvented gas space heater present? Y / (N) Where? _____

f. Is there a workshop or hobby/craft area? (Y) / N Where & Type? art studio main floor

g. Is there smoking in the building? Y / (N) How frequently? _____

h. Have cleaning products been used recently? (Y) / N When & Type? weekly, disinfectants

i. Have cosmetic products been used recently? Y / (N) When & Type? _____

j. Has painting/staining been done in the last 6 months? (Y) / N Where & When? main floor/art studio

k. Is there new carpet, drapes or other textiles? Y / (N) Where & When? _____

l. Have air fresheners been used recently? Y / (N) When & Type? _____

m. Is there a kitchen exhaust fan? Y / (N) If yes, where vented? _____

n. Is there a bathroom exhaust fan? (Y) / N If yes, where vented? on ceilings

o. Is there a clothes dryer? Y / (N) If yes, is it vented outside? Y / N

p. Has there been a pesticide application? Y / (N) When & Type? _____

Are there odors in the building? (Y) / N
If yes, please describe: spray paint

Do any of the building occupants use solvents at work? (Y) / N
(e.g., chemical manufacturing or laboratory, auto mechanic or auto body shop, painting, fuel oil delivery, boiler mechanic, pesticide application, cosmetologist

If yes, what types of solvents are used? paint thinner, spray paint

If yes, are their clothes washed at work? Y / (N)

Do any of the building occupants regularly use or work at a dry-cleaning service? (Circle appropriate response)

Yes, use dry-cleaning regularly (weekly) (No)
Yes, use dry-cleaning infrequently (monthly or less) Unknown
Yes, work at a dry-cleaning service

Is there a radon mitigation system for the building/structure? Y / (N) Date of Installation: _____
Is the system active or passive? Active/Passive

9. WATER AND SEWAGE

Water Supply: (Public Water) Drilled Well Driven Well Dug Well Other: _____

Sewage Disposal: (Public Sewer) Septic Tank Leach Field Dry Well Other: _____

10. RELOCATION INFORMATION (for oil spill residential emergency)

a. Provide reasons why relocation is recommended: _____

b. Residents choose to: remain in home relocate to friends/family relocate to hotel/motel

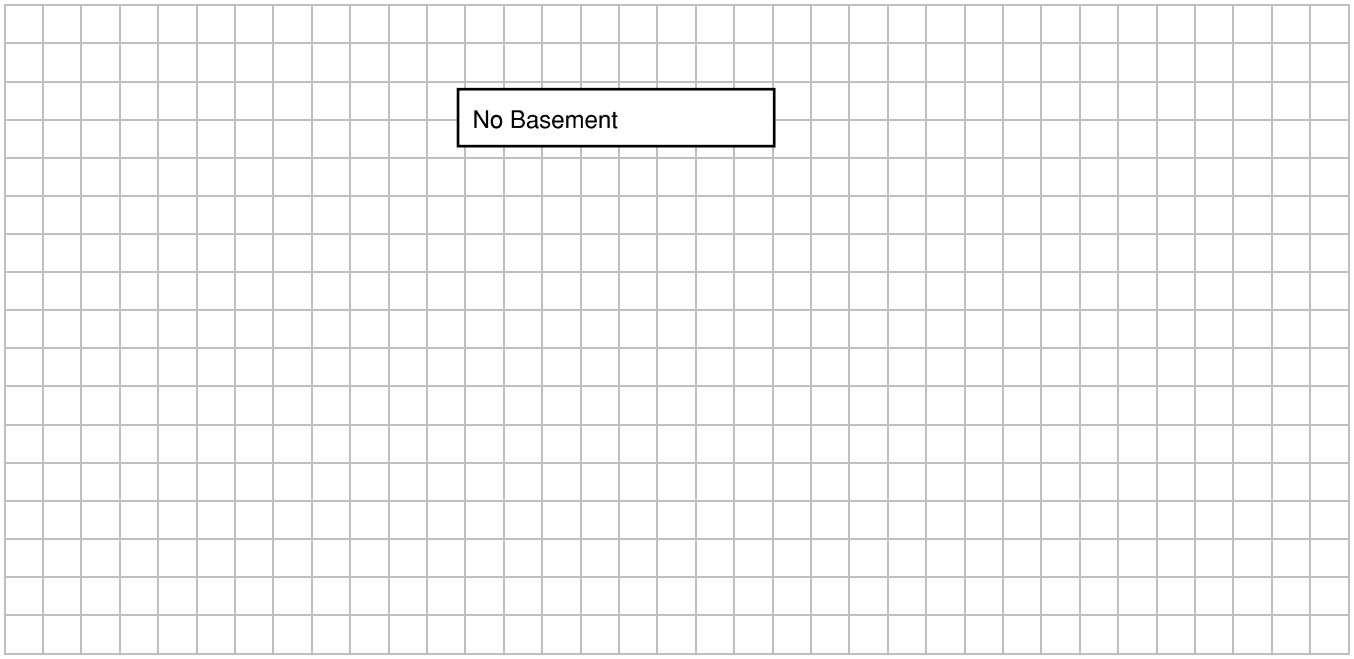
c. Responsibility for costs associated with reimbursement explained? Y / N

d. Relocation package provided and explained to residents? Y / N

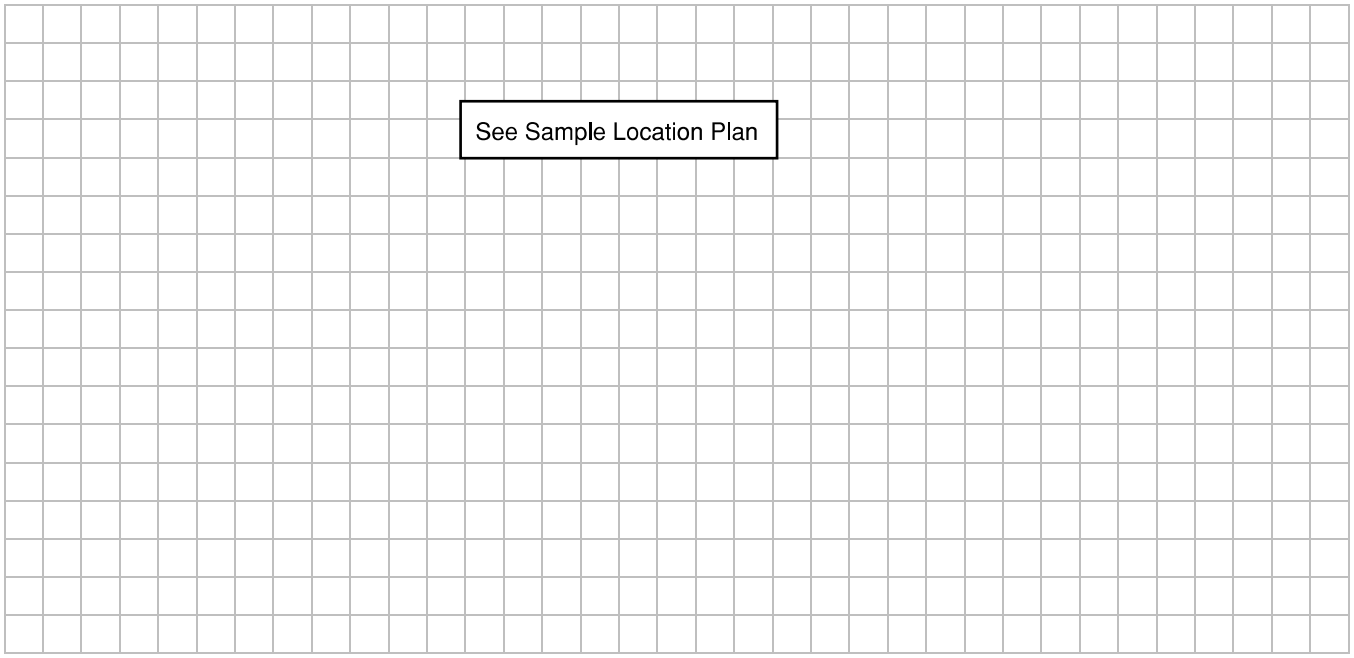
11. FLOOR PLANS

Draw a plan view sketch of the basement and first floor of the building. Indicate air sampling locations, possible indoor air pollution sources and PID meter readings. If the building does not have a basement, please note.

Basement:



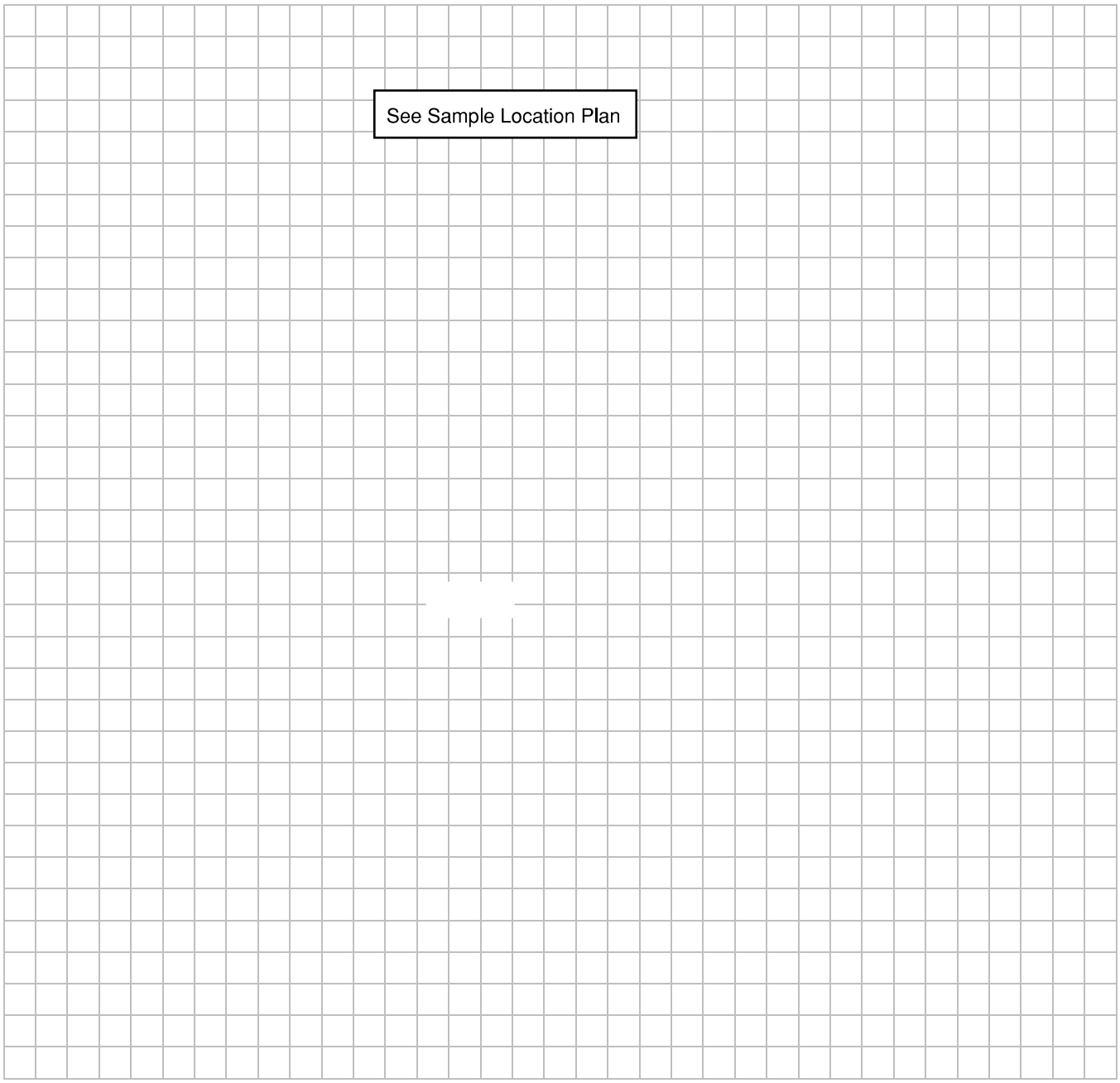
First Floor:



12. OUTDOOR PLOT

Draw a sketch of the area surrounding the building being sampled. If applicable, provide information on spill locations, potential air contamination sources (industries, gas stations, repair shops, landfills, etc.), outdoor air sampling location(s) and PID meter readings.

Also indicate compass direction, wind direction and speed during sampling, the locations of the well and septic system, if applicable, and a qualifying statement to help locate the site on a topographic map.



Indoor Air Quality Investigation
Pre-Inspection Product Inventory

Site Name: **ABC Block 26 - MW34D** **Langan Project No.: 170340203**

Site Location: **Long Island City, NY** **Date: 02/10/2024**

Make and model of field instrument used: MiniRAE 3000

Location	Product Description	Size (units)	Condition*	Chemical Ingredients/Cas number	Field Instrument Reading (ppm)	Photo Y/N
MW34D	West Sytem 207 Special Clear Hardener - Epoxy Resin (x1)	1.45 gal	U	Trimethylhexamethylenediamine, Polyoxypropylenediamine, Phenol, 4,4′-(1-methylethylidene)bis-, Polymer with (chloromethyl)Oxirane, Isophoronediamine, Hydroxybenzene	0.0	Y
MW34D	Soho Materials - Painting Medium (x1)	32 oz	UO	NA	0.0	Y
MW34D	Hydrogen Peroxide - First Aid Antiseptic (x1)	16 oz	UO	Hydrogen Peroxide	0.0	Y
MW34D	Walgreens 70% Isopropyl Alcohol - First Aid Antiseptic (x1)	16 oz	U	Isopropyl Alcohol	0.0	Y
MW34D	CRC Duster - Pressurized Gas (x6)	8 oz	(x4 U) (x2 UO)	1,1,1,2-tetrafluoroethane	0.0	Y
MW34D	Benzomatic - Propane Canister (x5)	14.1 oz	(x3 U) (x2 UO)	Propane, Propylene, Ethane, Butane, Ethyl Mercaptan	0.0	Y
MW34D	Uline Air In A Can - Pressurized Gas (x12)	12 oz	(x3 U) (x9 UO)	1,1-difluoroethane	0.0	Y
MW34D	Krylon - Spray Adhesive (x1)	11 oz	U	Methyl Acetate, Propane, Butane, Heptane, p-Cholorobenzotrifluoride	0.0	Y
MW34D	Golden Acrylics - Paint (x30+)	2 oz	U	Ammonium Hydroxide, Alumina, Aluminum Oxide, Amorphous Silica, Antimony, Barium Sulfate, Barium, Bismuth Vanadium Oxide, Cadmium Sulfide,	0.0	Y
MW34D	Golden Acrylics - Paint (x30+)	5 oz	U	Ammonium Hydroxide, Alumina, Aluminum Oxide, Amorphous Silica, Antimony, Barium Sulfate, Barium, Bismuth Vanadium Oxide, Cadmium Sulfide, Cadmium Selenide, Calcium Carbonate, Calcium Silicate, Carbon Black, Chromium (III) Compounds, Chromium Metal, CI PY 35 (Cadmium Pigment), CI PR 108 (Cadmium Pigment), Cobalt Compounds, Copper, Crystalline Silica, Dipropylene	0.0	Y
MW34D	Golden Acrylics - Paint (x30+)	8 oz	U	Ammonium Hydroxide, Alumina, Aluminum Oxide, Amorphous Silica, Antimony, Barium Sulfate, Barium, Bismuth Vanadium Oxide, Cadmium Sulfide,	0.0	Y

* Describe the condition of the product containers as Unopened (UO), Used (U), or Deteriorated (D).

Indoor Air Quality Investigation
Pre-Inspection Product Inventory

MW34D	Golden Acrylics - Paint (x30+)	16 oz	U	Ammonium Hydroxide, Alumina, Aluminum Oxide, Amorphous Silica, Antimony, Barium Sulfate, Barium, Bismuth Vanadium Oxide, Cadmium Sulfide,	0.0	Y
MW34D	Novus Plastic Clean & Shine - Plastic Polish (x8)	8 oz	(x4 U) (x4 UO)	Isopropyl Alcohol, Polydimethylsiloxane, Silanol Terminated, Dimethylpolysiloxane	0.0	Y
MW34D	Windolene - Glass Cleaner (x3)	17 oz	UO	Kerosine, Naphtha, Benzisothiazolinone	0.0	Y
MW34D	Method - Wood Polish (x1)	14 oz	U	Glycerin, 2-methyl-2H-isothiazolin-3-one	0.0	Y
MW34D	Klean Strip - Lacquer Thinner (x2)	1 gal	UO	Acetone, Light Aliphatic Solvent Naphtha, Toluene, Methanol	0.0	Y
MW34D	Krylon Colormaxx - Spray Paint (x30+)	16 oz	U	Methyl Acetate, Propane, Toluene, Butane, Lt. Aliphatic Hydrocarbon Solvent, Hexane, Xylene Mixed Isomers, 2-Methylpentane, 3-Methylpentane,	0.0	Y
MW34D	Goo Gone - Adhesive Remover (x1)	16 oz	U	Petroleum Distillates, Hydrotreated Light, D-Limonene, Orange Sweet Extract	0.0	Y
MW34D	Titebond - Wood Adhesive (x1)	16 oz	U	"Non-hazardous"	0.0	Y
MW34D	Lysol - Disinfectant Spray (x1)	32 oz	U	Ethanol, Butane, Propane	0.0	Y
MW34D	Oxiclean- Laudry Detergent (x1)	56 oz	U	C12-15 Ethoxylated Alcohols, Hydrogen Peroxide, Benzenesulfonic Acid, 4-dodecyl-, Poly(oxy-1,2-ethanediyl), .alpha.-undecyl-.omega.-hydroxy-, Sodium Hydroxide	0.0	Y
MW34D	Fast Orange - Hand Cleaner (x1)	1 gal	U	"Non-hazardous"	0.0	Y
MW34D	Clorox Bleach Foamer - Disinfectant (x1)	30 oz	U	Sodium Hypochlorite, Sodium Hydroxide	0.0	Y
MW34D	Meyer's Clean Day - Dish Soap (x1)	16 oz	U	Sodium Lauryl Sulfate, Lauramine Oxide, Glycerine, Fragrance	0.0	Y
MW34D	Raw Sugar - Hand Cleaner (x1)	16.9 oz	U	Water, Cocamidopropyl Betaine, Sodium C14-16 Olefin Sulfonate, Sodium Cocoamphoacetate, Sodium Cocoyl Glutamate, Sodium Cocoyl	0.0	Y
MW34D	Devcon Epoxy Resin (x12)	4.25 oz	U	Bisphenol A, Epichlorohydrin	0.0	Y

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NEW YORK STATE DEPARTMENT OF HEALTH
INDOOR AIR QUALITY QUESTIONNAIRE AND BUILDING INVENTORY
CENTER FOR ENVIRONMENTAL HEALTH

This form must be completed for each residence involved in indoor air testing.

Preparer's Name Roswell Lo Date/Time Prepared 2/17/2024

Preparer's Affiliation Langan Engineering Phone No. (212) 479-5400

Purpose of Investigation ABC Block 26 Pilot Study

1. OCCUPANT:

Interviewed: Y / N

Last Name: Wheeler First Name: Edjo

Address: 5-25 46th Ave, Long Island City, New York

County: Queens County

Home Phone: _____ Office Phone: 917 287 3093

Number of Occupants/persons at this location 10 Age of Occupants 20-50 years

2. OWNER OR LANDLORD: (Check if same as occupant ___)

Interviewed: Y / (N)

Last Name: _____ First Name: _____

Address: _____

County: _____

Home Phone: _____ Office Phone: _____

3. BUILDING CHARACTERISTICS

Type of Building: (Circle appropriate response)

Residential	School	(Commercial/Multi-use)
Industrial	Church	Other: _____

If the property is residential, type? (Circle appropriate response)

Ranch	2-Family	3-Family
Raised Ranch	Split Level	Colonial
Cape Cod	Contemporary	Mobile Home
Duplex	Apartment House	Townhouses/Condos
Modular	Log Home	Other:_____

If multiple units, how many? _____

If the property is commercial, type?

Business Type(s) fine/performing art

Does it include residences (i.e., multi-use)? Y / N If yes, how many? _____

Other characteristics:

Number of floors 1 Building age_____

Is the building insulated? Y / (N) How air tight? Tight / (Average) / Not Tight

4. AIRFLOW

Use air current tubes or tracer smoke to evaluate airflow patterns and qualitatively describe:

Airflow between floors

NA, Single Story Structure

Airflow near source

NA

Outdoor air infiltration

Infiltration through southern wall

Infiltration into air ducts

NA

5. BASEMENT AND CONSTRUCTION CHARACTERISTICS (Circle all that apply)

a. Above grade construction:	wood frame	(concrete)	stone	brick
b. Basement type:	full	crawlspace	slab	other NA
c. Basement floor:	concrete	dirt	stone	other NA
d. Basement floor:	uncovered	covered	covered with NA	
e. Concrete floor:	(unsealed)	sealed	sealed with _____	
f. Foundation walls:	poured	(block)	stone	other _____
g. Foundation walls:	unsealed	(sealed)	sealed with _____	
h. The basement is:	wet	damp	dry	moldy (NA)
i. The basement is:	finished	unfinished	partially finished (NA)	
j. Sump present?	Y /(N)			
k. Water in sump?	Y / N /(not applicable)			

Basement/Lowest level depth below grade: _____(feet)

Identify potential soil vapor entry points and approximate size (e.g., cracks, utility ports, drains)

Crack in floor

_____

6. HEATING, VENTING and AIR CONDITIONING (Circle all that apply)

Type of heating system(s) used in this building: (circle all that apply – note primary)

(Hot air circulation)	Heat pump	Hot water baseboard	
Space Heaters	Stream radiation	Radiant floor	
Electric baseboard	Wood stove	Outdoor wood boiler	Other _____

The primary type of fuel used is:

(Natural Gas)	Fuel Oil	Kerosene
Electric	Propane	Solar
Wood	Coal	

Domestic hot water tank fueled by: electric and natural gas

Boiler/furnace located in: Basement Outdoors (Main Floor) Other_____

Air conditioning: (Central Air) Window units Open Windows None

Are there air distribution ducts present? (Y) / N

Describe the supply and cold air return ductwork, and its condition where visible, including whether there is a cold air return and the tightness of duct joints. Indicate the locations on the floor plan diagram.

Forced air supply ductwork There is no return to the outdoors for recirculation.

7. OCCUPANCY

Is basement/lowest level occupied? (Full-time) Occasionally Seldom Almost Never

Level	**General Use of Each Floor (e.g., familyroom, bedroom, laundry, workshop, storage)**
Basement	NA
1st Floor	Artist studio, creative space open to the public
2nd Floor	NA
3rd Floor	NA
4th Floor	NA

8. FACTORS THAT MAY influence INDOOR AIR QUALITY

a. Is there an attached garage? (Y) / N

b. Does the garage have a separate heating unit? Y / (N) / NA

c. Are petroleum-powered machines or vehicles stored in the garage (e.g., lawnmower, atv, car) Y / (N) / NA Please specify

d. Has the building ever had a fire? Y / (N) When?

e. Is a kerosene or unvented gas space heater present? Y / (N) Where?

f. Is there a workshop or hobby/craft area? (Y) / N Where & Type? Art studio main floor

g. Is there smoking in the building? Y / (N) How frequently?

h. Have cleaning products been used recently? (Y) / N When & Type? weekly, disinfectants

i. Have cosmetic products been used recently? Y / (N) When & Type?

j. Has painting/staining been done in the last 6 months? (Y) / N Where & When? main floor/art studio

k. Is there new carpet, drapes or other textiles? Y / (N) Where & When? _____

l. Have air fresheners been used recently? Y / (N) When & Type? _____

m. Is there a kitchen exhaust fan? Y / (N) If yes, where vented? _____

n. Is there a bathroom exhaust fan? (Y) / N If yes, where vented? on ceilings

o. Is there a clothes dryer? Y / (N) If yes, is it vented outside? Y / N

p. Has there been a pesticide application? Y / (N) When & Type? _____

Are there odors in the building? (Y) / N
If yes, please describe: spray paint

Do any of the building occupants use solvents at work? (Y) / N
(e.g., chemical manufacturing or laboratory, auto mechanic or auto body shop, painting, fuel oil delivery, boiler mechanic, pesticide application, cosmetologist

If yes, what types of solvents are used? paint thinner, spray paint

If yes, are their clothes washed at work? Y / (N)

Do any of the building occupants regularly use or work at a dry-cleaning service? (Circle appropriate response)

Yes, use dry-cleaning regularly (weekly) (No)
Yes, use dry-cleaning infrequently (monthly or less) Unknown
Yes, work at a dry-cleaning service

Is there a radon mitigation system for the building/structure? Y / (N) Date of Installation: _____
Is the system active or passive? Active/Passive

9. WATER AND SEWAGE

Water Supply: (Public Water) Drilled Well Driven Well Dug Well Other: _____

Sewage Disposal: (Public Sewer) Septic Tank Leach Field Dry Well Other: _____

10. RELOCATION INFORMATION (for oil spill residential emergency)

a. Provide reasons why relocation is recommended: _____

b. Residents choose to: remain in home relocate to friends/family relocate to hotel/motel

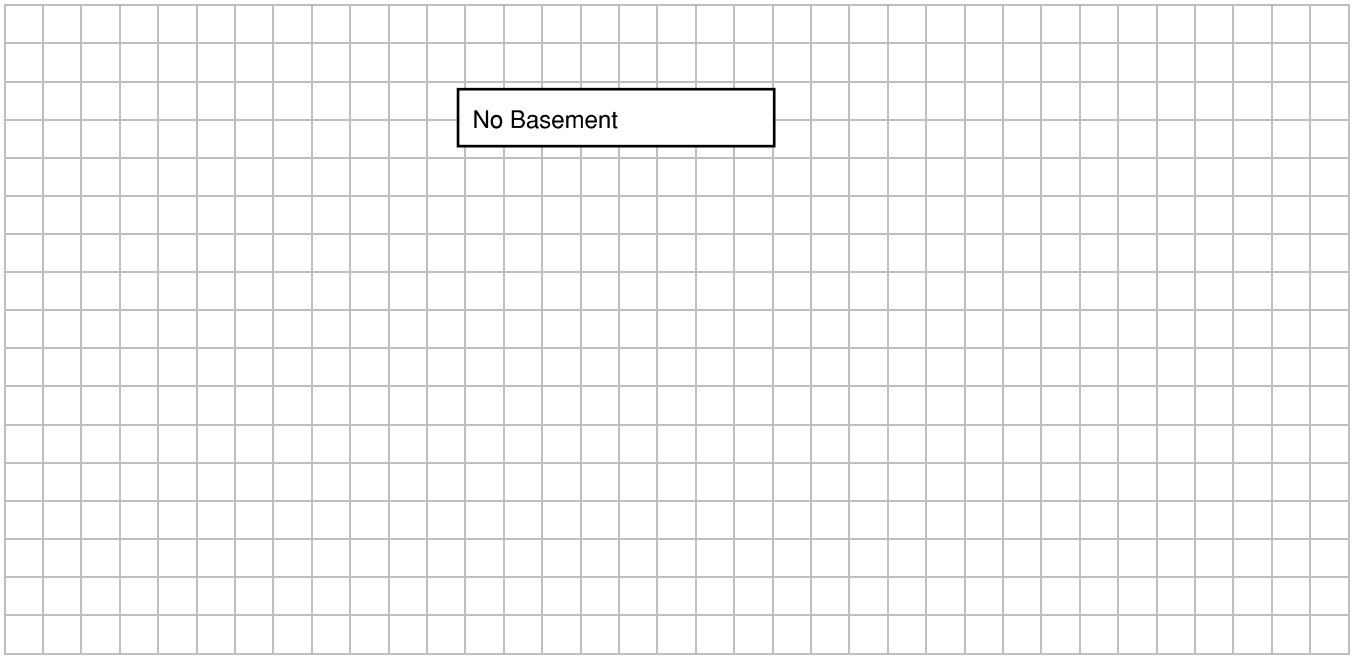
c. Responsibility for costs associated with reimbursement explained? Y / N

d. Relocation package provided and explained to residents? Y / N

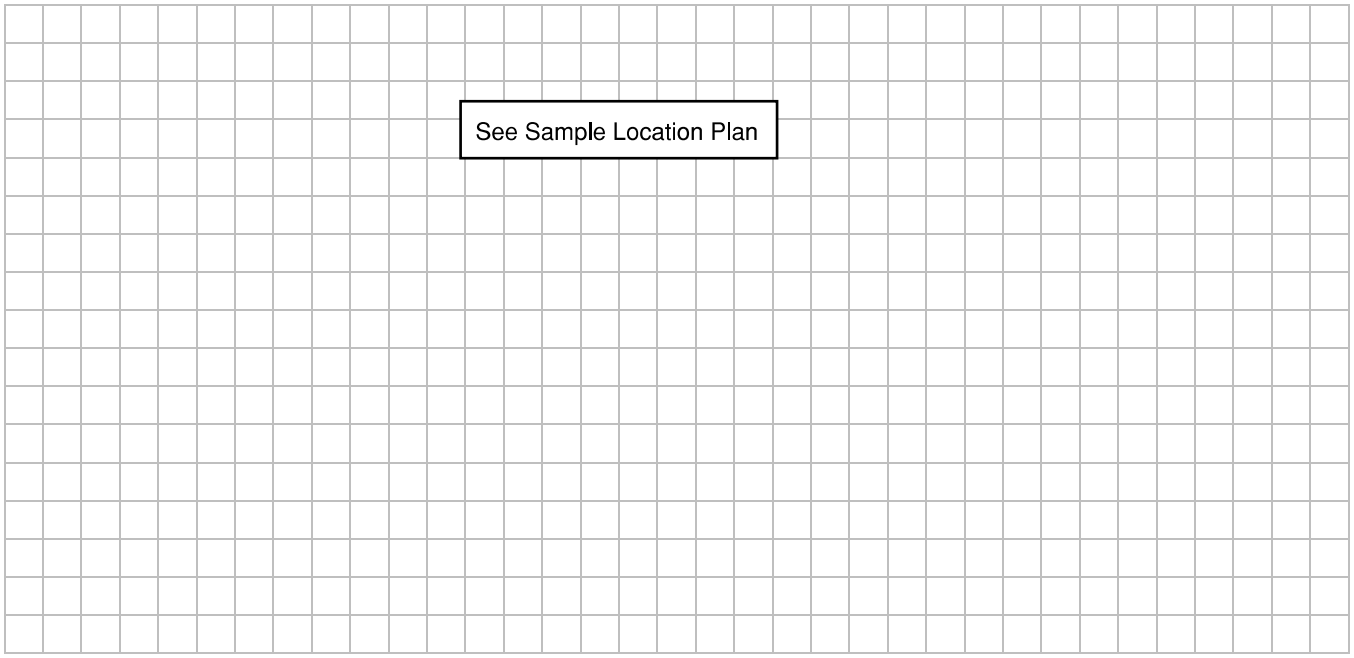
11. FLOOR PLANS

Draw a plan view sketch of the basement and first floor of the building. Indicate air sampling locations, possible indoor air pollution sources and PID meter readings. If the building does not have a basement, please note.

Basement:



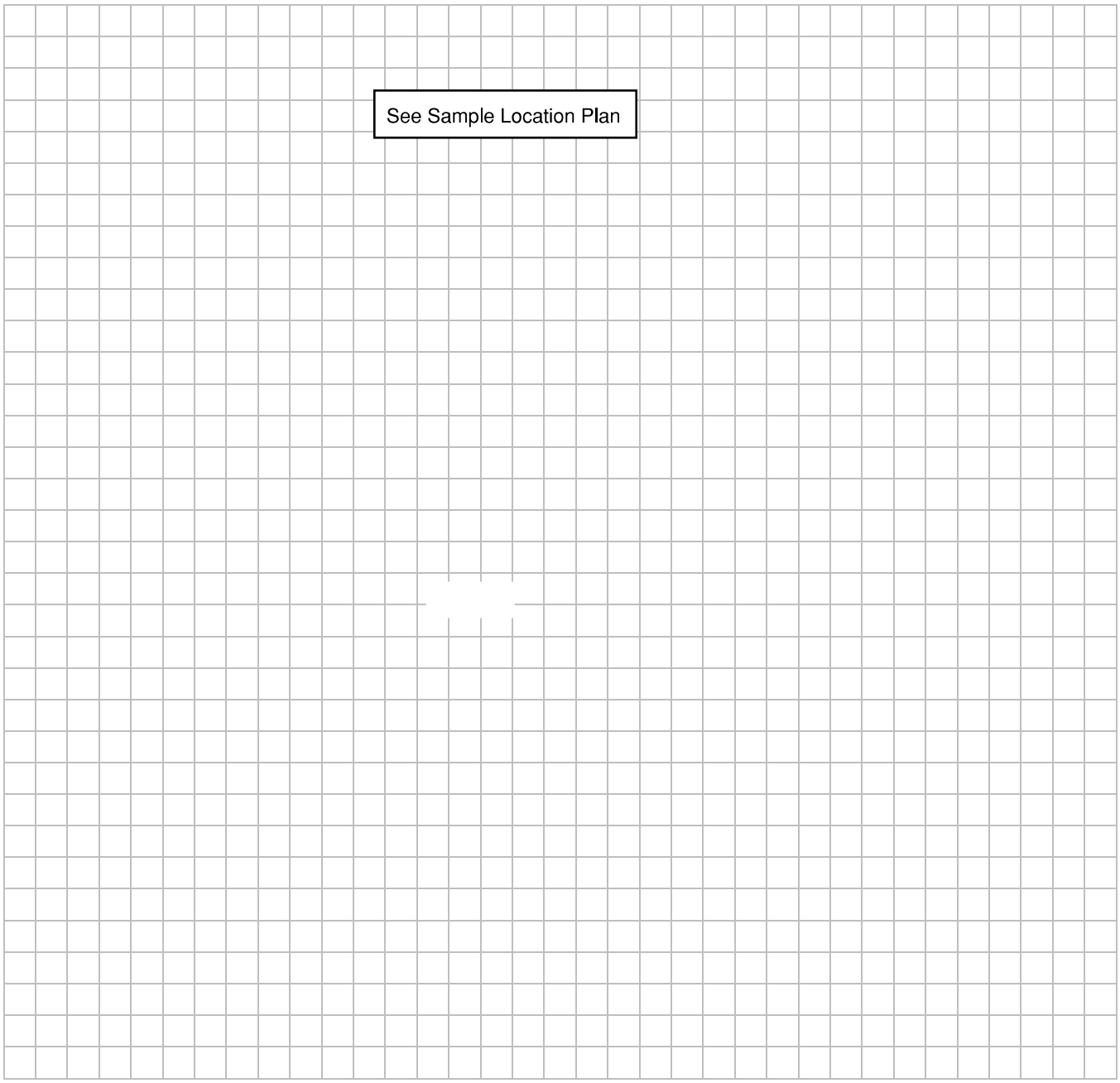
First Floor:



12. OUTDOOR PLOT

Draw a sketch of the area surrounding the building being sampled. If applicable, provide information on spill locations, potential air contamination sources (industries, gas stations, repair shops, landfills, etc.), outdoor air sampling location(s) and PID meter readings.

Also indicate compass direction, wind direction and speed during sampling, the locations of the well and septic system, if applicable, and a qualifying statement to help locate the site on a topographic map.



Indoor Air Quality Investigation
Pre-Inspection Product Inventory

Site Name: **ABC Block 26 - MW34D** **Langan Project No.: 170340203**

Site Location: **Long Island City, NY** **Date: 02/17/2024**

Make and model of field instrument used: MiniRAE 3000

Location	Product Description	Size (units)	Condition*	Chemical Ingredients/Cas number	Field Instrument Reading (ppm)	Photo Y/N
MW34D	Soho Materials - Painting Medium (x1)	32 oz	UO	NA	0.0	Y
MW34D	Hydrogen Peroxide - First Aid Antiseptic (x1)	16 oz	UO	Hydrogen Peroxide	0.0	Y
MW34D	Walgreens 70% Isopropyl Alcohol - First Aid Antiseptic (x1)	16 oz	U	Isopropyl Alcohol	0.0	Y
MW34D	CRC Duster - Pressurized Gas (x6)	8 oz	(x4 U) (x2 UO)	1,1,1,2-tetrafluoroethane	0.0	Y
MW34D	Benzomatic - Propane Canister (x5)	14.1 oz	(x3 U) (x2 UO)	Propane, Propylene, Ethane, Butane, Ethyl Mercaptan	0.0	Y
MW34D	Uline Air In A Can - Pressurized Gas (x12)	12 oz	(x3 U) (x9 UO)	1,1-difluoroethane	0.0	Y
MW34D	Krylon - Spray Adhesive (x1)	11 oz	U	Methyl Acetate, Propane, Butane, Heptane, p-Cholorobenzotrifluoride	0.0	Y
MW34D	Golden Acrylics - Paint (x30+)	2 oz	U	Ammonium Hydroxide, Alumina, Aluminum Oxide, Amorphous Silica, Antimony, Barium Sulfate, Barium, Bismuth Vanadium Oxide, Cadmium Sulfide,	0.0	Y
MW34D	Golden Acrylics - Paint (x30+)	5 oz	U	Ammonium Hydroxide, Alumina, Aluminum Oxide, Amorphous Silica, Antimony, Barium Sulfate, Barium, Bismuth Vanadium Oxide, Cadmium Sulfide,	0.0	Y
MW34D	Golden Acrylics - Paint (x30+)	8 oz	U	Ammonium Hydroxide, Alumina, Aluminum Oxide, Amorphous Silica, Antimony, Barium Sulfate, Barium, Bismuth Vanadium Oxide, Cadmium Sulfide, Cadmium Selenide, Calcium Carbonate, Calcium Silicate, Carbon Black, Chromium (III) Compounds, Chromium Metal, CI PY 35 (Cadmium Pigment), CI PR 108 (Cadmium Pigment), Cobalt Compounds, Copper, Crystalline Silica, Dipropylene	0.0	Y
MW34D	Golden Acrylics - Paint (x30+)	16 oz	U	Ammonium Hydroxide, Alumina, Aluminum Oxide, Amorphous Silica, Antimony, Barium Sulfate, Barium, Bismuth Vanadium Oxide, Cadmium Sulfide,	0.0	Y

* Describe the condition of the product containers as Unopened (UO), Used (U), or Deteriorated (D).

Indoor Air Quality Investigation
Pre-Inspection Product Inventory

MW34D	Novus Plastic Clean & Shine - Plastic Polish (x8)	8 oz	(x4 U) (x4 UO)	Isopropyl Alcohol, Polydimethylsiloxane, Silanol Terminated, Dimethylpolysiloxane	0.0	Y
MW34D	Windolene - Glass Cleaner (x3)	17 oz	UO	Kerosine, Naphtha, Benzisothiazolinone	0.0	Y
MW34D	Method - Wood Polish (x1)	14 oz	U	Glycerin, 2-methyl-2H-isothiazolin-3-one	0.0	Y
MW34D	Klean Strip - Lacquer Thinner (x2)	1 gal	UO	Acetone, Light Aliphatic Solvent Naphtha, Toluene, Methanol	0.0	Y
MW34D	Krylon Colormaxx - Spray Paint (x30+)	16 oz	U	Methyl Acetate, Propane, Toluene, Butane, Lt. Aliphatic Hydrocarbon Solvent, Hexane, Xylene Mixed Isomers, 2-Methylpentane, 3-Methylpentane,	0.0	Y
MW34D	Goo Gone - Adhesive Remover (x1)	16 oz	U	Petroleum Distillates, Hydrotreated Light, D-Limonene, Orange Sweet Extract	0.0	Y
MW34D	Titebond - Wood Adhesive (x1)	16 oz	U	"Non-hazardous"	0.0	Y
MW34D	Lysol - Disinfectant Spray (x1)	32 oz	U	Ethanol, Butane, Propane	0.0	Y
MW34D	Oxiclean- Laudry Detergent (x1)	56 oz	U	C12-15 Ethoxylated Alcohols, Hydrogen Peroxide, Benzenesulfonic Acid, 4-dodecyl-, Poly(oxy-1,2-ethanediyl), .alpha.-undecyl-.omega.-hydroxy-,	0.0	Y
MW34D	Fast Orange - Hand Cleaner (x1)	1 gal	U	"Non-hazardous"	0.0	Y
MW34D	Clorox Bleach Foamer - Disinfectant (x1)	30 oz	U	Sodium Hypochlorite, Sodium Hydroxide	0.0	Y
MW34D	Meyer's Clean Day - Dish Soap (x1)	16 oz	U	Sodium Lauryl Sulfate, Lauramine Oxide, Glycerine, Fragrance	0.0	Y
MW34D	Raw Sugar - Hand Cleaner (x1)	16.9 oz	U	Water, Cocamidopropyl Betaine, Sodium C14-16 Olefin Sulfonate, Sodium Cocoamphoacetate, Sodium Cocoyl Glutamate, Sodium Cocoyl	0.0	Y
MW34D	Devcon Epoxy Resin (x12)	4.25 oz	U	Bisphenol A, Epichlorohydrin	0.0	Y

* Describe the condition of the product containers as Unopened (UO), Used (U), or Deteriorated (D).

APPENDIX B

INDOOR AND AMBIENT AIR SAMPLING LOGS

AIR SAMPLING LOG SHEET

Sample Number: C241174_BL-IA01_MW30D

PROJECT: ABC Block 26	**PROJECT NO.:** 170340203	
LOCATION: Long Island City, New York	**SURFACE ELEVATION AND DATUM:** N/A	
SAMPLER: Camille Quick	**SAMPLE DATE STARTED:** 2/10/2024	**DATE FINISHED:** 2/10/2024
INSPECTOR: Camille Quick	**TYPE OF SAMPLING DEVICE:** 6-Liter Summa Canister	
POTENTIAL SAMPLE INTERFERENCES: Tenant operations include manufacturing.	**WEATHER CONDITIONS (PRECIP., TEMP., PRESS., WIND SPEED AND DIR.):** Temp: 41-58F Wind: WSW Precipitation: 0 in Pressure: 29.8 in Hg	

METHOD OF INSTALLATION AND SAMPLING:

Langan field screened the sample location with a MiniRAE 3000 Photionization detector prior to sampling. The sample consisted of 6L summa canister fitted with an 2-hour flow control valve. The flow controller was zeroed and valve opened to initiate the 2-hour sample collection. The sample and flow controller were checked periodically during sampling to ensure proper operation.

SAMPLE DETAILS

HEIGHT ABOVE GROUND (FT):	3
PID BEFORE SAMPLE (PPM):	0.4
SAMPLE START TIME:	13:59
SAMPLE STOP TIME:	15:47
TOTAL SAMPLE TIME (MIN):	107
REGULATOR FLOW RATE (L/MIN):	0.05
VOLUME OF SAMPLE (LITERS):	6
PID AFTER SAMPLE (PPM):	0.4
SAMPLE MOISTURE CONTENT:	NA
CAN SERIAL NUMBER:	20665
REGULATOR SERIAL NUMBER:	13559
CAN START VACUUM PRESS. (" HG):	-29.5
CAN STOP VACUUM PRESS. (" HG):	-5

SAMPLE LOCATION SKETCH

See Sample Location Plan

NOTES

Langan Engineering, Environmental, Surveying, Landscape Architecture and Geology, D.P.C.
360 West 31st Street, 8th Floor, New York, New York 10001-2727

AIR SAMPLING LOG SHEET

Sample Number: C241174_BL-IA01_MW34D

PROJECT: ABC Block 26	**PROJECT NO.:** 170340203	
LOCATION: Long Island City, New York	**SURFACE ELEVATION AND DATUM:** N/A	
SAMPLER: Camille Quick	**SAMPLE DATE STARTED:** 2/10/2024	**DATE FINISHED:** 2/10/2024
INSPECTOR: Camille Quick	**TYPE OF SAMPLING DEVICE:** 6-Liter Summa Canister	
POTENTIAL SAMPLE INTERFERENCES: None	**WEATHER CONDITIONS (PRECIP., TEMP., PRESS., WIND SPEED AND DIR.):** Temp: 41-58F Wind: WSW Precipitation: 0 in Pressure: 29.8 in Hg	

METHOD OF INSTALLATION AND SAMPLING:

Langan field screened the sample location with a MiniRAE 3000 Photionization detector prior to sampling. The sample consisted of 6L summa canister fitted with an 2-hour flow control valve. The flow controller was zeroed and valve opened to initiate the 2-hour sample collection. The sample and flow controller were checked periodically during sampling to ensure proper operation.

SAMPLE DETAILS	
HEIGHT ABOVE GROUND (FT):	3
PID BEFORE SAMPLE (PPM):	0.0
SAMPLE START TIME:	13:55
SAMPLE STOP TIME:	15:39
TOTAL SAMPLE TIME (MIN):	104
REGULATOR FLOW RATE (L/MIN):	0.05
VOLUME OF SAMPLE (LITERS):	6
PID AFTER SAMPLE (PPM):	0.0
SAMPLE MOISTURE CONTENT:	NA
CAN SERIAL NUMBER:	41884
REGULATOR SERIAL NUMBER:	19410
CAN START VACUUM PRESS. (" HG):	-29
CAN STOP VACUUM PRESS. (" HG):	-5

SAMPLE LOCATION SKETCH

See Sample Location Plan

NOTES

Langan Engineering, Environmental, Surveying, Landscape Architecture and Geology, D.P.C.
360 West 31st Street, 8th Floor, New York, New York 10001-2727

AIR SAMPLING LOG SHEET

Sample Number: C241174_AA01_021024

PROJECT: ABC Block 26	**PROJECT NO.:** 170340203	
LOCATION: Long Island City, New York	**SURFACE ELEVATION AND DATUM:** N/A	
SAMPLER: Camille Quick	**SAMPLE DATE STARTED:** 2/10/2024	**DATE FINISHED:** 2/10/2024
INSPECTOR: Camille Quick	**TYPE OF SAMPLING DEVICE:** 6-Liter Summa Canister	
POTENTIAL SAMPLE INTERFERENCES: None	**WEATHER CONDITIONS (PRECIP., TEMP., PRESS., WIND SPEED AND DIR.):** Temp: 41-58F Wind: WSW Precipitation: 0 in Pressure: 29.8 in Hg	

METHOD OF INSTALLATION AND SAMPLING:

Langan field screened the sample location with a MiniRAE 3000 Photionization detector prior to sampling. The sample consisted of 6L summa canister fitted with an 2-hour flow control valve. The flow controller was zeroed and valve opened to initiate the 2-hour sample collection. The sample and flow controller were checked periodically during sampling to ensure proper operation.

SAMPLE DETAILS

HEIGHT ABOVE GROUND (FT):	3
PID BEFORE SAMPLE (PPM):	0.0
SAMPLE START TIME:	14:08
SAMPLE STOP TIME:	15:50
TOTAL SAMPLE TIME (MIN):	102
REGULATOR FLOW RATE (L/MIN):	0.05
VOLUME OF SAMPLE (LITERS):	6
PID AFTER SAMPLE (PPM):	0.0
SAMPLE MOISTURE CONTENT:	NA
CAN SERIAL NUMBER:	28841
REGULATOR SERIAL NUMBER:	16424
CAN START VACUUM PRESS. (" HG):	-29.50
CAN STOP VACUUM PRESS. (" HG):	-5

SAMPLE LOCATION SKETCH

See Sample Location Plan

NOTES

Langan Engineering, Environmental, Surveying, Landscape Architecture and Geology, D.P.C.
360 West 31st Street, 8th Floor, New York, New York 10001-2727

AIR SAMPLING LOG SHEET

Sample Number: C241174_LR-IA01_MW30D

PROJECT: ABC Block 26	**PROJECT NO.:** 170340203	
LOCATION: Long Island City, New York	**SURFACE ELEVATION AND DATUM:** N/A	
SAMPLER: Roswell Lo	**SAMPLE DATE STARTED:** 2/17/2024	**DATE FINISHED:** 2/17/2024
INSPECTOR: Roswell Lo	**TYPE OF SAMPLING DEVICE:** 6-Liter Summa Canister	
POTENTIAL SAMPLE INTERFERENCES: Tenant operations include manufacturing.	**WEATHER CONDITIONS (PRECIP., TEMP., PRESS., WIND SPEED AND DIR.):** Temp: 35-36 F Wind: 14-17 mph WNW Precipitation: None Pressure: 29.72 in Hg	

METHOD OF INSTALLATION AND SAMPLING:

Langan field screened the sample location with a MiniRAE 3000 Photionization detector prior to sampling. The sample consisted of 6L summa canister fitted with an 2-hour flow control valve. The flow controller was zeroed and valve opened to initiate the 2-hour sample collection. The sample and flow controller were checked periodically during sampling to ensure proper operation.

SAMPLE DETAILS

HEIGHT ABOVE GROUND (FT):	3
PID BEFORE SAMPLE (PPM):	0.0
SAMPLE START TIME:	14:24
SAMPLE STOP TIME:	16:24
TOTAL SAMPLE TIME (MIN):	120
REGULATOR FLOW RATE (L/MIN):	0.05
VOLUME OF SAMPLE (LITERS):	6
PID AFTER SAMPLE (PPM):	0.4
SAMPLE MOISTURE CONTENT:	None
CAN SERIAL NUMBER:	16976
REGULATOR SERIAL NUMBER:	6877
CAN START VACUUM PRESS. (" HG):	-31
CAN STOP VACUUM PRESS. (" HG):	-9

SAMPLE LOCATION SKETCH

See Sample Location Plan

NOTES

Langan Engineering, Environmental, Surveying, Landscape Architecture and Geology, D.P.C.
360 West 31st Street, 8th Floor, New York, New York 10001-2727

AIR SAMPLING LOG SHEET

Sample Number: C241174_LR-IA01_MW34D

PROJECT: ABC Block 26	**PROJECT NO.:** 170340203	
LOCATION: Long Island City, New York	**SURFACE ELEVATION AND DATUM:** N/A	
SAMPLER: Roswell Lo	**SAMPLE DATE STARTED:** 2/17/2024	**DATE FINISHED:** 2/17/2024
INSPECTOR: Roswell Lo	**TYPE OF SAMPLING DEVICE:** 6-Liter Summa Canister	
POTENTIAL SAMPLE INTERFERENCES: None	**WEATHER CONDITIONS (PRECIP., TEMP., PRESS., WIND SPEED AND DIR.):** Temp: 35-36 F Wind: 14-17 mph WNW Precipitation: None Pressure: 29.72 in Hg	

METHOD OF INSTALLATION AND SAMPLING:

Langan field screened the sample location with a MiniRAE 3000 Photionization detector prior to sampling. The sample consisted of 6L summa canister fitted with an 2-hour flow control valve. The flow controller was zeroed and valve opened to initiate the 2-hour sample collection. The sample and flow controller were checked periodically during sampling to ensure proper operation.

SAMPLE DETAILS

HEIGHT ABOVE GROUND (FT):	3
PID BEFORE SAMPLE (PPM):	0.0
SAMPLE START TIME:	14:26
SAMPLE STOP TIME:	16:26
TOTAL SAMPLE TIME (MIN):	120
REGULATOR FLOW RATE (L/MIN):	0.050
VOLUME OF SAMPLE (LITERS):	6
PID AFTER SAMPLE (PPM):	1.0
SAMPLE MOISTURE CONTENT:	None
CAN SERIAL NUMBER:	15522
REGULATOR SERIAL NUMBER:	17190
CAN START VACUUM PRESS. (" HG):	-34
CAN STOP VACUUM PRESS. (" HG):	-10

SAMPLE LOCATION SKETCH

See Sample Location Plan

NOTES

Langan Engineering, Environmental, Surveying, Landscape Architecture and Geology, D.P.C.
360 West 31st Street, 8th Floor, New York, New York 10001-2727

AIR SAMPLING LOG SHEET

Sample Number: C241174_AA01_021724

PROJECT: ABC Block 26	**PROJECT NO.:** 170340203	
LOCATION: Long Island City, New York	**SURFACE ELEVATION AND DATUM:** NA	
SAMPLER: Roswell Lo	**SAMPLE DATE STARTED:** 2/17/2024	**DATE FINISHED:** 2/17/2024
INSPECTOR: Roswell Lo	**TYPE OF SAMPLING DEVICE:** 6-Liter Summa Canister	
POTENTIAL SAMPLE INTERFERENCES: None	**WEATHER CONDITIONS (PRECIP., TEMP., PRESS., WIND SPEED AND DIR.):** Temp: 35-36 F Wind: 14-17 mph WNW Precipitation: None Pressure: 29.72 in Hg	

METHOD OF INSTALLATION AND SAMPLING:

Langan field screened the sample location with a MiniRAE 3000 Photionization detector prior to sampling. The sample consisted of 6L summa canister fitted with an 2-hour flow control valve. The flow controller was zeroed and valve opened to initiate the 2-hour sample collection. The sample and flow controller were checked periodically during sampling to ensure proper operation.

SAMPLE DETAILS	
HEIGHT ABOVE GROUND (FT):	3
PID BEFORE SAMPLE (PPM):	0.0
SAMPLE START TIME:	14:23
SAMPLE STOP TIME:	16:23
TOTAL SAMPLE TIME (MIN):	120
REGULATOR FLOW RATE (L/MIN):	0.050
VOLUME OF SAMPLE (LITERS):	6
PID AFTER SAMPLE (PPM):	0.0
SAMPLE MOISTURE CONTENT:	NA
CAN SERIAL NUMBER:	48294
REGULATOR SERIAL NUMBER:	7303
CAN START VACUUM PRESS. (" HG):	-30.00
CAN STOP VACUUM PRESS. (" HG):	-8

SAMPLE LOCATION SKETCH

See Sample Location Plan

NOTES

Langan Engineering, Environmental, Surveying, Landscape Architecture and Geology, D.P.C.
21 Penn Plaza, 360 West 31st Street, 8th Floor, New York, New York 10001-2727

APPENDIX C

LABORATORY ANALYTICAL DATA REPORTS

Technical Report

prepared for:

Langan Engineering & Environmental Services (NYC)
21 Penn Plaza, 360 West 31st Street
New York NY, 10001
Attention: Andrew Nesci

Report Date: 04/11/2024
Client Project ID: 170340203
York Project (SDG) No.: 24B0706

Revision No. 2.0

CT Cert. No. PH-0723 New Jersey Cert. No. CT005 and NY037 New York Cert. Nos. 10854 and 12058 PA Cert. No. 68-04440

120 RESEARCH DRIVE STRATFORD, CT 06615 ■ 132-02 89th AVENUE RICHMOND HILL, NY 11418
www.YORKLAB.com (203) 325-1371 FAX (203) 357-0166 ClientServices@yorklab.com

Report Date: 04/11/2024
Client Project ID: 170340203
York Project (SDG) No.: 24B0706

Langan Engineering & Environmental Services (NYC)
21 Penn Plaza, 360 West 31st Street
New York NY, 10001
Attention: Andrew Nesci

Purpose and Results

This report contains the analytical data for the sample(s) identified on the attached chain-of-custody received in our laboratory on February 13, 2024 and listed below. The project was identified as your project: **170340203**.

The analyses were conducted utilizing appropriate EPA, Standard Methods, and ASTM methods as detailed in the data summary tables.

All samples were received in proper condition meeting the customary acceptance requirements for environmental samples except those indicated under the Sample and Analysis Qualifiers section of this report.

All analyses met the method and laboratory standard operating procedure requirements except as indicated by any data flags, the meaning of which are explained in the Sample and Data Qualifiers Relating to This Work Order section of this report and case narrative if applicable.

The results of the analyses, which are all reported on dry weight basis (soils) unless otherwise noted, are detailed in the following pages.

Please contact Client Services at 203.325.1371 with any questions regarding this report.

York Sample ID	Client Sample ID	Matrix	Date Collected	Date Received
24B0706-01	CAN 15522 / FC 17190	Air	02/12/2024	02/13/2024
24B0706-02	CAN 16976 / FC 6877	Air	02/12/2024	02/13/2024
24B0706-04	CAN 48294 / FC 7363	Air	02/12/2024	02/13/2024
24B1051-01	C241174_AA02_021724	Outdoor Ambient Ai	02/17/2024	02/20/2024
24B1051-02	C241174_LR-IA01_MW30D_021724	Indoor Ambient Air	02/17/2024	02/20/2024
24B1051-03	C241174_LR-IA02_MW34D_021724	Indoor Ambient Air	02/17/2024	02/20/2024

General Notes for York Project (SDG) No.: 24B0706

1. The RLs and MDLs (Reporting Limit and Method Detection Limit respectively) reported are adjusted for any dilution necessary due to the levels of target and/or non-target analytes and matrix interference. The RL(REPORTING LIMIT) is based upon the lowest standard utilized for the calibration where applicable.
2. Samples are retained for a period of thirty days after submittal of report, unless other arrangements are made.
3. York's liability for the above data is limited to the dollar value paid to York for the referenced project.
4. This report shall not be reproduced without the written approval of York Analytical Laboratories, Inc.
5. All analyses conducted met method or Laboratory SOP requirements. See the Sample and Data Qualifiers Section for further information.
6. It is noted that no analyses reported herein were subcontracted to another laboratory, unless noted in the report.
7. This report reflects results that relate only to the samples submitted on the attached chain-of-custody form(s) received by York.
8. Analyses conducted at York Analytical Laboratories, Inc. Stratford, CT are indicated by NY Cert. No. 10854; those conducted at York Analytical Laboratories, Inc., Richmond Hill, NY are indicated by NY Cert. No. 12058.

Approved By  **Date:** 04/11/2024

Cassie L. Mosher
Laboratory Manager

Sample Information

Client Sample ID: CAN 15522 / FC 17190 **York Sample ID:** 24B0706-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
24B0706	170340203	Air	February 12, 2024 10:21 am	02/13/2024

VOA, TO15 MASTER

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	* 1,1,1,2-Tetrachloroethane	ND		ug/m³	0.687	1	EPA TO-15	02/16/2024 01:00	02/16/2024 08:52	VH
							Certifications:			
71-55-6	1,1,1-Trichloroethane	ND		ug/m³	0.546	1	EPA TO-15	02/16/2024 01:00	02/16/2024 08:52	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/m³	0.687	1	EPA TO-15	02/16/2024 01:00	02/16/2024 08:52	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/m³	0.766	1	EPA TO-15	02/16/2024 01:00	02/16/2024 08:52	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
79-00-5	1,1,2-Trichloroethane	ND		ug/m³	0.546	1	EPA TO-15	02/16/2024 01:00	02/16/2024 08:52	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
75-34-3	1,1-Dichloroethane	ND		ug/m³	0.405	1	EPA TO-15	02/16/2024 01:00	02/16/2024 08:52	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
75-35-4	1,1-Dichloroethylene	ND		ug/m³	0.198	1	EPA TO-15	02/16/2024 01:00	02/16/2024 08:52	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
120-82-1	1,2,4-Trichlorobenzene	ND		ug/m³	0.742	1	EPA TO-15	02/16/2024 01:00	02/16/2024 08:52	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
95-63-6	1,2,4-Trimethylbenzene	ND		ug/m³	0.492	1	EPA TO-15	02/16/2024 01:00	02/16/2024 08:52	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
106-93-4	1,2-Dibromoethane	ND		ug/m³	0.768	1	EPA TO-15	02/16/2024 01:00	02/16/2024 08:52	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
95-50-1	1,2-Dichlorobenzene	ND		ug/m³	0.601	1	EPA TO-15	02/16/2024 01:00	02/16/2024 08:52	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
107-06-2	1,2-Dichloroethane	ND		ug/m³	0.405	1	EPA TO-15	02/16/2024 01:00	02/16/2024 08:52	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
78-87-5	1,2-Dichloropropane	ND		ug/m³	0.462	1	EPA TO-15	02/16/2024 01:00	02/16/2024 08:52	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
76-14-2	1,2-Dichlorotetrafluoroethane	ND		ug/m³	0.699	1	EPA TO-15	02/16/2024 01:00	02/16/2024 08:52	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
108-67-8	1,3,5-Trimethylbenzene	ND		ug/m³	0.492	1	EPA TO-15	02/16/2024 01:00	02/16/2024 08:52	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
106-99-0	1,3-Butadiene	ND		ug/m³	0.664	1	EPA TO-15	02/16/2024 01:00	02/16/2024 08:52	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
541-73-1	1,3-Dichlorobenzene	ND		ug/m³	0.601	1	EPA TO-15	02/16/2024 01:00	02/16/2024 08:52	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
142-28-9	* 1,3-Dichloropropane	ND		ug/m³	0.462	1	EPA TO-15	02/16/2024 01:00	02/16/2024 08:52	VH
							Certifications:			
106-46-7	1,4-Dichlorobenzene	ND		ug/m³	0.601	1	EPA TO-15	02/16/2024 01:00	02/16/2024 08:52	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
123-91-1	1,4-Dioxane	ND		ug/m³	0.721	1	EPA TO-15	02/16/2024 01:00	02/16/2024 08:52	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
78-93-3	2-Butanone	ND		ug/m³	0.295	1	EPA TO-15	02/16/2024 01:00	02/16/2024 08:52	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		

Sample Information

Client Sample ID: CAN 15522 / FC 17190 **York Sample ID:** 24B0706-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
24B0706	170340203	Air	February 12, 2024 10:21 am	02/13/2024

VOA, TO15 MASTER

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
591-78-6	* 2-Hexanone	ND		ug/m³	0.819	1	EPA TO-15	02/16/2024 01:00	02/16/2024 08:52	VH
							Certifications:			
107-05-1	3-Chloropropene	ND		ug/m³	1.57	1	EPA TO-15	02/16/2024 01:00	02/16/2024 08:52	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
108-10-1	4-Methyl-2-pentanone	ND		ug/m³	0.410	1	EPA TO-15	02/16/2024 01:00	02/16/2024 08:52	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
67-64-1	Acetone	ND		ug/m³	0.475	1	EPA TO-15	02/16/2024 01:00	02/16/2024 08:52	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
107-13-1	Acrylonitrile	ND		ug/m³	0.217	1	EPA TO-15	02/16/2024 01:00	02/16/2024 08:52	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
71-43-2	Benzene	ND		ug/m³	0.319	1	EPA TO-15	02/16/2024 01:00	02/16/2024 08:52	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
100-44-7	Benzyl chloride	ND		ug/m³	0.518	1	EPA TO-15	02/16/2024 01:00	02/16/2024 08:52	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
75-27-4	Bromodichloromethane	ND		ug/m³	0.670	1	EPA TO-15	02/16/2024 01:00	02/16/2024 08:52	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
75-25-2	Bromoform	ND		ug/m³	1.03	1	EPA TO-15	02/16/2024 01:00	02/16/2024 08:52	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
74-83-9	Bromomethane	ND		ug/m³	0.388	1	EPA TO-15	02/16/2024 01:00	02/16/2024 08:52	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
75-15-0	Carbon disulfide	ND		ug/m³	0.311	1	EPA TO-15	02/16/2024 01:00	02/16/2024 08:52	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
56-23-5	Carbon tetrachloride	ND		ug/m³	0.157	1	EPA TO-15	02/16/2024 01:00	02/16/2024 08:52	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
108-90-7	Chlorobenzene	ND		ug/m³	0.460	1	EPA TO-15	02/16/2024 01:00	02/16/2024 08:52	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
75-00-3	Chloroethane	ND		ug/m³	0.264	1	EPA TO-15	02/16/2024 01:00	02/16/2024 08:52	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
67-66-3	Chloroform	ND		ug/m³	0.488	1	EPA TO-15	02/16/2024 01:00	02/16/2024 08:52	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
74-87-3	Chloromethane	ND		ug/m³	0.207	1	EPA TO-15	02/16/2024 01:00	02/16/2024 08:52	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
156-59-2	cis-1,2-Dichloroethylene	ND		ug/m³	0.198	1	EPA TO-15	02/16/2024 01:00	02/16/2024 08:52	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/m³	0.454	1	EPA TO-15	02/16/2024 01:00	02/16/2024 08:52	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
110-82-7	Cyclohexane	ND		ug/m³	0.344	1	EPA TO-15	02/16/2024 01:00	02/16/2024 08:52	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
124-48-1	Dibromochloromethane	ND		ug/m³	0.852	1	EPA TO-15	02/16/2024 01:00	02/16/2024 08:52	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
75-71-8	Dichlorodifluoromethane	ND		ug/m³	0.495	1	EPA TO-15	02/16/2024 01:00	02/16/2024 08:52	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
141-78-6	* Ethyl acetate	ND		ug/m³	0.721	1	EPA TO-15	02/16/2024 01:00	02/16/2024 08:52	VH
							Certifications:			

Sample Information

Client Sample ID: CAN 15522 / FC 17190 **York Sample ID:** 24B0706-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
24B0706	170340203	Air	February 12, 2024 10:21 am	02/13/2024

VOA, TO15 MASTER

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
100-41-4	Ethyl Benzene	ND		ug/m³	0.434	1	EPA TO-15	02/16/2024 01:00	02/16/2024 08:52	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
87-68-3	Hexachlorobutadiene	ND		ug/m³	1.07	1	EPA TO-15	02/16/2024 01:00	02/16/2024 08:52	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
67-63-0	Isopropanol	ND		ug/m³	1.23	1	EPA TO-15	02/16/2024 01:00	02/16/2024 08:52	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
80-62-6	Methyl Methacrylate	ND		ug/m³	0.409	1	EPA TO-15	02/16/2024 01:00	02/16/2024 08:52	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/m³	0.361	1	EPA TO-15	02/16/2024 01:00	02/16/2024 08:52	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
75-09-2	Methylene chloride	ND		ug/m³	0.695	1	EPA TO-15	02/16/2024 01:00	02/16/2024 08:52	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
91-20-3	* Naphthalene	ND	TO-CCV, TO-LCS-L	ug/m³	1.57	1	EPA TO-15	02/16/2024 01:00	02/16/2024 08:52	VH
							Certifications:	NJDEP-NY037		
142-82-5	n-Heptane	ND		ug/m³	0.410	1	EPA TO-15	02/16/2024 01:00	02/16/2024 08:52	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
110-54-3	n-Hexane	ND		ug/m³	0.352	1	EPA TO-15	02/16/2024 01:00	02/16/2024 08:52	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
95-47-6	o-Xylene	ND		ug/m³	0.434	1	EPA TO-15	02/16/2024 01:00	02/16/2024 08:52	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
179601-23-1	p- & m- Xylenes	ND		ug/m³	0.868	1	EPA TO-15	02/16/2024 01:00	02/16/2024 08:52	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
622-96-8	* p-Ethyltoluene	ND		ug/m³	0.492	1	EPA TO-15	02/16/2024 01:00	02/16/2024 08:52	VH
							Certifications:			
115-07-1	* Propylene	ND		ug/m³	0.172	1	EPA TO-15	02/16/2024 01:00	02/16/2024 08:52	VH
							Certifications:			
100-42-5	Styrene	ND		ug/m³	0.426	1	EPA TO-15	02/16/2024 01:00	02/16/2024 08:52	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
127-18-4	Tetrachloroethylene	ND		ug/m³	0.678	1	EPA TO-15	02/16/2024 01:00	02/16/2024 08:52	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
109-99-9	* Tetrahydrofuran	ND		ug/m³	0.590	1	EPA TO-15	02/16/2024 01:00	02/16/2024 08:52	VH
							Certifications:			
108-88-3	Toluene	ND		ug/m³	0.377	1	EPA TO-15	02/16/2024 01:00	02/16/2024 08:52	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
156-60-5	trans-1,2-Dichloroethylene	ND		ug/m³	0.396	1	EPA TO-15	02/16/2024 01:00	02/16/2024 08:52	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/m³	0.454	1	EPA TO-15	02/16/2024 01:00	02/16/2024 08:52	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
79-01-6	Trichloroethylene	ND		ug/m³	0.134	1	EPA TO-15	02/16/2024 01:00	02/16/2024 08:52	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
75-69-4	Trichlorofluoromethane (Freon 11)	ND		ug/m³	0.562	1	EPA TO-15	02/16/2024 01:00	02/16/2024 08:52	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		

Sample Information

Client Sample ID: CAN 15522 / FC 17190 **York Sample ID:** 24B0706-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
24B0706	170340203	Air	February 12, 2024 10:21 am	02/13/2024

VOA, TO15 MASTER

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
108-05-4	Vinyl acetate	ND		ug/m³	0.352	1	EPA TO-15	02/16/2024 01:00	02/16/2024 08:52	VH
							Certifications: NELAC-NY12058,NJDEP-NY037			
593-60-2	Vinyl bromide	ND		ug/m³	0.437	1	EPA TO-15	02/16/2024 01:00	02/16/2024 08:52	VH
							Certifications: NELAC-NY12058,NJDEP-NY037			
75-01-4	Vinyl Chloride	ND		ug/m³	0.128	1	EPA TO-15	02/16/2024 01:00	02/16/2024 08:52	VH
							Certifications: NELAC-NY12058,NJDEP-NY037			
1330-20-7	* Xylenes, Total	ND		ug/m³	1.30	1	EPA TO-15	02/16/2024 01:00	02/16/2024 08:52	VH
							Certifications:			

Sample Information

Client Sample ID: CAN 16976 / FC 6877 **York Sample ID:** 24B0706-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
24B0706	170340203	Air	February 12, 2024 10:21 am	02/13/2024

VOA, TO15 MASTER

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	* 1,1,1,2-Tetrachloroethane	ND		ug/m³	0.687	1	EPA TO-15 Certifications:	02/16/2024 01:00	02/16/2024 09:55	VH
71-55-6	1,1,1-Trichloroethane	ND		ug/m³	0.546	1	EPA TO-15 Certifications:	02/16/2024 01:00 NELAC-NY12058,NJDEP-NY037	02/16/2024 09:55	VH
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/m³	0.687	1	EPA TO-15 Certifications:	02/16/2024 01:00 NELAC-NY12058,NJDEP-NY037	02/16/2024 09:55	VH
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/m³	0.766	1	EPA TO-15 Certifications:	02/16/2024 01:00 NELAC-NY12058,NJDEP-NY037	02/16/2024 09:55	VH
79-00-5	1,1,2-Trichloroethane	ND		ug/m³	0.546	1	EPA TO-15 Certifications:	02/16/2024 01:00 NELAC-NY12058,NJDEP-NY037	02/16/2024 09:55	VH
75-34-3	1,1-Dichloroethane	ND		ug/m³	0.405	1	EPA TO-15 Certifications:	02/16/2024 01:00 NELAC-NY12058,NJDEP-NY037	02/16/2024 09:55	VH
75-35-4	1,1-Dichloroethylene	ND		ug/m³	0.198	1	EPA TO-15 Certifications:	02/16/2024 01:00 NELAC-NY12058,NJDEP-NY037	02/16/2024 09:55	VH
120-82-1	1,2,4-Trichlorobenzene	ND		ug/m³	0.742	1	EPA TO-15 Certifications:	02/16/2024 01:00 NELAC-NY12058,NJDEP-NY037	02/16/2024 09:55	VH
95-63-6	1,2,4-Trimethylbenzene	ND		ug/m³	0.492	1	EPA TO-15 Certifications:	02/16/2024 01:00 NELAC-NY12058,NJDEP-NY037	02/16/2024 09:55	VH
106-93-4	1,2-Dibromoethane	ND		ug/m³	0.768	1	EPA TO-15 Certifications:	02/16/2024 01:00 NELAC-NY12058,NJDEP-NY037	02/16/2024 09:55	VH
95-50-1	1,2-Dichlorobenzene	ND		ug/m³	0.601	1	EPA TO-15 Certifications:	02/16/2024 01:00 NELAC-NY12058,NJDEP-NY037	02/16/2024 09:55	VH
107-06-2	1,2-Dichloroethane	ND		ug/m³	0.405	1	EPA TO-15 Certifications:	02/16/2024 01:00 NELAC-NY12058,NJDEP-NY037	02/16/2024 09:55	VH
78-87-5	1,2-Dichloropropane	ND		ug/m³	0.462	1	EPA TO-15 Certifications:	02/16/2024 01:00 NELAC-NY12058,NJDEP-NY037	02/16/2024 09:55	VH
76-14-2	1,2-Dichlorotetrafluoroethane	ND		ug/m³	0.699	1	EPA TO-15 Certifications:	02/16/2024 01:00 NELAC-NY12058,NJDEP-NY037	02/16/2024 09:55	VH
108-67-8	1,3,5-Trimethylbenzene	ND		ug/m³	0.492	1	EPA TO-15 Certifications:	02/16/2024 01:00 NELAC-NY12058,NJDEP-NY037	02/16/2024 09:55	VH
106-99-0	1,3-Butadiene	ND		ug/m³	0.664	1	EPA TO-15 Certifications:	02/16/2024 01:00 NELAC-NY12058,NJDEP-NY037	02/16/2024 09:55	VH
541-73-1	1,3-Dichlorobenzene	ND		ug/m³	0.601	1	EPA TO-15 Certifications:	02/16/2024 01:00 NELAC-NY12058,NJDEP-NY037	02/16/2024 09:55	VH
142-28-9	* 1,3-Dichloropropane	ND		ug/m³	0.462	1	EPA TO-15 Certifications:	02/16/2024 01:00	02/16/2024 09:55	VH
106-46-7	1,4-Dichlorobenzene	ND		ug/m³	0.601	1	EPA TO-15 Certifications:	02/16/2024 01:00 NELAC-NY12058,NJDEP-NY037	02/16/2024 09:55	VH
123-91-1	1,4-Dioxane	ND		ug/m³	0.721	1	EPA TO-15 Certifications:	02/16/2024 01:00 NELAC-NY12058,NJDEP-NY037	02/16/2024 09:55	VH
78-93-3	2-Butanone	ND		ug/m³	0.295	1	EPA TO-15 Certifications:	02/16/2024 01:00 NELAC-NY12058,NJDEP-NY037	02/16/2024 09:55	VH
591-78-6	* 2-Hexanone	ND		ug/m³	0.819	1	EPA TO-15 Certifications:	02/16/2024 01:00	02/16/2024 09:55	VH

Sample Information

Client Sample ID: CAN 16976 / FC 6877 **York Sample ID:** 24B0706-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
24B0706	170340203	Air	February 12, 2024 10:21 am	02/13/2024

VOA, TO15 MASTER

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
107-05-1	3-Chloropropene	ND		ug/m³	1.57	1	EPA TO-15	02/16/2024 01:00	02/16/2024 09:55	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
108-10-1	4-Methyl-2-pentanone	ND		ug/m³	0.410	1	EPA TO-15	02/16/2024 01:00	02/16/2024 09:55	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
67-64-1	Acetone	ND		ug/m³	0.475	1	EPA TO-15	02/16/2024 01:00	02/16/2024 09:55	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
107-13-1	Acrylonitrile	ND		ug/m³	0.217	1	EPA TO-15	02/16/2024 01:00	02/16/2024 09:55	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
71-43-2	Benzene	ND		ug/m³	0.319	1	EPA TO-15	02/16/2024 01:00	02/16/2024 09:55	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
100-44-7	Benzyl chloride	ND		ug/m³	0.518	1	EPA TO-15	02/16/2024 01:00	02/16/2024 09:55	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
75-27-4	Bromodichloromethane	ND		ug/m³	0.670	1	EPA TO-15	02/16/2024 01:00	02/16/2024 09:55	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
75-25-2	Bromoform	ND		ug/m³	1.03	1	EPA TO-15	02/16/2024 01:00	02/16/2024 09:55	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
74-83-9	Bromomethane	ND		ug/m³	0.388	1	EPA TO-15	02/16/2024 01:00	02/16/2024 09:55	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
75-15-0	Carbon disulfide	ND		ug/m³	0.311	1	EPA TO-15	02/16/2024 01:00	02/16/2024 09:55	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
56-23-5	Carbon tetrachloride	ND		ug/m³	0.157	1	EPA TO-15	02/16/2024 01:00	02/16/2024 09:55	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
108-90-7	Chlorobenzene	ND		ug/m³	0.460	1	EPA TO-15	02/16/2024 01:00	02/16/2024 09:55	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
75-00-3	Chloroethane	ND		ug/m³	0.264	1	EPA TO-15	02/16/2024 01:00	02/16/2024 09:55	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
67-66-3	Chloroform	ND		ug/m³	0.488	1	EPA TO-15	02/16/2024 01:00	02/16/2024 09:55	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
74-87-3	Chloromethane	ND		ug/m³	0.207	1	EPA TO-15	02/16/2024 01:00	02/16/2024 09:55	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
156-59-2	cis-1,2-Dichloroethylene	ND		ug/m³	0.198	1	EPA TO-15	02/16/2024 01:00	02/16/2024 09:55	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/m³	0.454	1	EPA TO-15	02/16/2024 01:00	02/16/2024 09:55	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
110-82-7	Cyclohexane	ND		ug/m³	0.344	1	EPA TO-15	02/16/2024 01:00	02/16/2024 09:55	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
124-48-1	Dibromochloromethane	ND		ug/m³	0.852	1	EPA TO-15	02/16/2024 01:00	02/16/2024 09:55	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
75-71-8	Dichlorodifluoromethane	ND		ug/m³	0.495	1	EPA TO-15	02/16/2024 01:00	02/16/2024 09:55	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
141-78-6	* Ethyl acetate	ND		ug/m³	0.721	1	EPA TO-15	02/16/2024 01:00	02/16/2024 09:55	VH
							Certifications:			
100-41-4	Ethyl Benzene	ND		ug/m³	0.434	1	EPA TO-15	02/16/2024 01:00	02/16/2024 09:55	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		

Sample Information

Client Sample ID: CAN 16976 / FC 6877 **York Sample ID:** 24B0706-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
24B0706	170340203	Air	February 12, 2024 10:21 am	02/13/2024

VOA, TO15 MASTER

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
87-68-3	Hexachlorobutadiene	ND		ug/m³	1.07	1	EPA TO-15	02/16/2024 01:00	02/16/2024 09:55	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
67-63-0	Isopropanol	ND		ug/m³	1.23	1	EPA TO-15	02/16/2024 01:00	02/16/2024 09:55	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
80-62-6	Methyl Methacrylate	ND		ug/m³	0.409	1	EPA TO-15	02/16/2024 01:00	02/16/2024 09:55	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/m³	0.361	1	EPA TO-15	02/16/2024 01:00	02/16/2024 09:55	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
75-09-2	Methylene chloride	ND		ug/m³	0.695	1	EPA TO-15	02/16/2024 01:00	02/16/2024 09:55	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
91-20-3	* Naphthalene	ND	TO-CCV, TO-LCS-L	ug/m³	1.57	1	EPA TO-15	02/16/2024 01:00	02/16/2024 09:55	VH
							Certifications:	NJDEP-NY037		
142-82-5	n-Heptane	ND		ug/m³	0.410	1	EPA TO-15	02/16/2024 01:00	02/16/2024 09:55	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
110-54-3	n-Hexane	ND		ug/m³	0.352	1	EPA TO-15	02/16/2024 01:00	02/16/2024 09:55	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
95-47-6	o-Xylene	ND		ug/m³	0.434	1	EPA TO-15	02/16/2024 01:00	02/16/2024 09:55	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
179601-23-1	p- & m- Xylenes	ND		ug/m³	0.868	1	EPA TO-15	02/16/2024 01:00	02/16/2024 09:55	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
622-96-8	* p-Ethyltoluene	ND		ug/m³	0.492	1	EPA TO-15	02/16/2024 01:00	02/16/2024 09:55	VH
							Certifications:			
115-07-1	* Propylene	ND		ug/m³	0.172	1	EPA TO-15	02/16/2024 01:00	02/16/2024 09:55	VH
							Certifications:			
100-42-5	Styrene	ND		ug/m³	0.426	1	EPA TO-15	02/16/2024 01:00	02/16/2024 09:55	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
127-18-4	Tetrachloroethylene	ND		ug/m³	0.678	1	EPA TO-15	02/16/2024 01:00	02/16/2024 09:55	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
109-99-9	* Tetrahydrofuran	ND		ug/m³	0.590	1	EPA TO-15	02/16/2024 01:00	02/16/2024 09:55	VH
							Certifications:			
108-88-3	Toluene	ND		ug/m³	0.377	1	EPA TO-15	02/16/2024 01:00	02/16/2024 09:55	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
156-60-5	trans-1,2-Dichloroethylene	ND		ug/m³	0.396	1	EPA TO-15	02/16/2024 01:00	02/16/2024 09:55	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/m³	0.454	1	EPA TO-15	02/16/2024 01:00	02/16/2024 09:55	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
79-01-6	Trichloroethylene	ND		ug/m³	0.134	1	EPA TO-15	02/16/2024 01:00	02/16/2024 09:55	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
75-69-4	Trichlorofluoromethane (Freon 11)	ND		ug/m³	0.562	1	EPA TO-15	02/16/2024 01:00	02/16/2024 09:55	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
108-05-4	Vinyl acetate	ND		ug/m³	0.352	1	EPA TO-15	02/16/2024 01:00	02/16/2024 09:55	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		

Sample Information

Client Sample ID: CAN 16976 / FC 6877 **York Sample ID:** 24B0706-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
24B0706	170340203	Air	February 12, 2024 10:21 am	02/13/2024

VOA, TO15 MASTER

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
593-60-2	Vinyl bromide	ND		ug/m³	0.437	1	EPA TO-15	02/16/2024 01:00	02/16/2024 09:55	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
75-01-4	Vinyl Chloride	ND		ug/m³	0.128	1	EPA TO-15	02/16/2024 01:00	02/16/2024 09:55	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
1330-20-7	* Xylenes, Total	ND		ug/m³	1.30	1	EPA TO-15	02/16/2024 01:00	02/16/2024 09:55	VH
							Certifications:			

Sample Information

Client Sample ID: CAN 48294 / FC 7363 **York Sample ID:** 24B0706-04

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
24B0706	170340203	Air	February 12, 2024 10:21 am	02/13/2024

VOA, TO15 MASTER

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	* 1,1,1,2-Tetrachloroethane	ND		ug/m³	0.687	1	EPA TO-15	02/16/2024 01:00	02/16/2024 11:51	VH
							Certifications:			
71-55-6	1,1,1-Trichloroethane	ND		ug/m³	0.546	1	EPA TO-15	02/16/2024 01:00	02/16/2024 11:51	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/m³	0.687	1	EPA TO-15	02/16/2024 01:00	02/16/2024 11:51	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/m³	0.766	1	EPA TO-15	02/16/2024 01:00	02/16/2024 11:51	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
79-00-5	1,1,2-Trichloroethane	ND		ug/m³	0.546	1	EPA TO-15	02/16/2024 01:00	02/16/2024 11:51	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
75-34-3	1,1-Dichloroethane	ND		ug/m³	0.405	1	EPA TO-15	02/16/2024 01:00	02/16/2024 11:51	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
75-35-4	1,1-Dichloroethylene	ND		ug/m³	0.198	1	EPA TO-15	02/16/2024 01:00	02/16/2024 11:51	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
120-82-1	1,2,4-Trichlorobenzene	ND		ug/m³	0.742	1	EPA TO-15	02/16/2024 01:00	02/16/2024 11:51	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
95-63-6	1,2,4-Trimethylbenzene	ND		ug/m³	0.492	1	EPA TO-15	02/16/2024 01:00	02/16/2024 11:51	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
106-93-4	1,2-Dibromoethane	ND		ug/m³	0.768	1	EPA TO-15	02/16/2024 01:00	02/16/2024 11:51	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
95-50-1	1,2-Dichlorobenzene	ND		ug/m³	0.601	1	EPA TO-15	02/16/2024 01:00	02/16/2024 11:51	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
107-06-2	1,2-Dichloroethane	ND		ug/m³	0.405	1	EPA TO-15	02/16/2024 01:00	02/16/2024 11:51	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
78-87-5	1,2-Dichloropropane	ND		ug/m³	0.462	1	EPA TO-15	02/16/2024 01:00	02/16/2024 11:51	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
76-14-2	1,2-Dichlorotetrafluoroethane	ND		ug/m³	0.699	1	EPA TO-15	02/16/2024 01:00	02/16/2024 11:51	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
108-67-8	1,3,5-Trimethylbenzene	ND		ug/m³	0.492	1	EPA TO-15	02/16/2024 01:00	02/16/2024 11:51	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
106-99-0	1,3-Butadiene	ND		ug/m³	0.664	1	EPA TO-15	02/16/2024 01:00	02/16/2024 11:51	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
541-73-1	1,3-Dichlorobenzene	ND		ug/m³	0.601	1	EPA TO-15	02/16/2024 01:00	02/16/2024 11:51	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
142-28-9	* 1,3-Dichloropropane	ND		ug/m³	0.462	1	EPA TO-15	02/16/2024 01:00	02/16/2024 11:51	VH
							Certifications:			
106-46-7	1,4-Dichlorobenzene	ND		ug/m³	0.601	1	EPA TO-15	02/16/2024 01:00	02/16/2024 11:51	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
123-91-1	1,4-Dioxane	ND		ug/m³	0.721	1	EPA TO-15	02/16/2024 01:00	02/16/2024 11:51	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
78-93-3	2-Butanone	ND		ug/m³	0.295	1	EPA TO-15	02/16/2024 01:00	02/16/2024 11:51	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
591-78-6	* 2-Hexanone	ND		ug/m³	0.819	1	EPA TO-15	02/16/2024 01:00	02/16/2024 11:51	VH
							Certifications:			

Sample Information

Client Sample ID: CAN 48294 / FC 7363 **York Sample ID:** 24B0706-04

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
24B0706	170340203	Air	February 12, 2024 10:21 am	02/13/2024

VOA, TO15 MASTER

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
107-05-1	3-Chloropropene	ND		ug/m³	1.57	1	EPA TO-15	02/16/2024 01:00	02/16/2024 11:51	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
108-10-1	4-Methyl-2-pentanone	ND		ug/m³	0.410	1	EPA TO-15	02/16/2024 01:00	02/16/2024 11:51	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
67-64-1	Acetone	ND		ug/m³	0.475	1	EPA TO-15	02/16/2024 01:00	02/16/2024 11:51	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
107-13-1	Acrylonitrile	ND		ug/m³	0.217	1	EPA TO-15	02/16/2024 01:00	02/16/2024 11:51	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
71-43-2	Benzene	ND		ug/m³	0.319	1	EPA TO-15	02/16/2024 01:00	02/16/2024 11:51	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
100-44-7	Benzyl chloride	ND		ug/m³	0.518	1	EPA TO-15	02/16/2024 01:00	02/16/2024 11:51	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
75-27-4	Bromodichloromethane	ND		ug/m³	0.670	1	EPA TO-15	02/16/2024 01:00	02/16/2024 11:51	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
75-25-2	Bromoform	ND		ug/m³	1.03	1	EPA TO-15	02/16/2024 01:00	02/16/2024 11:51	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
74-83-9	Bromomethane	ND		ug/m³	0.388	1	EPA TO-15	02/16/2024 01:00	02/16/2024 11:51	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
75-15-0	Carbon disulfide	ND		ug/m³	0.311	1	EPA TO-15	02/16/2024 01:00	02/16/2024 11:51	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
56-23-5	Carbon tetrachloride	ND		ug/m³	0.157	1	EPA TO-15	02/16/2024 01:00	02/16/2024 11:51	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
108-90-7	Chlorobenzene	ND		ug/m³	0.460	1	EPA TO-15	02/16/2024 01:00	02/16/2024 11:51	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
75-00-3	Chloroethane	ND		ug/m³	0.264	1	EPA TO-15	02/16/2024 01:00	02/16/2024 11:51	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
67-66-3	Chloroform	ND		ug/m³	0.488	1	EPA TO-15	02/16/2024 01:00	02/16/2024 11:51	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
74-87-3	Chloromethane	ND		ug/m³	0.207	1	EPA TO-15	02/16/2024 01:00	02/16/2024 11:51	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
156-59-2	cis-1,2-Dichloroethylene	ND		ug/m³	0.198	1	EPA TO-15	02/16/2024 01:00	02/16/2024 11:51	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/m³	0.454	1	EPA TO-15	02/16/2024 01:00	02/16/2024 11:51	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
110-82-7	Cyclohexane	ND		ug/m³	0.344	1	EPA TO-15	02/16/2024 01:00	02/16/2024 11:51	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
124-48-1	Dibromochloromethane	ND		ug/m³	0.852	1	EPA TO-15	02/16/2024 01:00	02/16/2024 11:51	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
75-71-8	Dichlorodifluoromethane	ND		ug/m³	0.495	1	EPA TO-15	02/16/2024 01:00	02/16/2024 11:51	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
141-78-6	* Ethyl acetate	ND		ug/m³	0.721	1	EPA TO-15	02/16/2024 01:00	02/16/2024 11:51	VH
							Certifications:			
100-41-4	Ethyl Benzene	ND		ug/m³	0.434	1	EPA TO-15	02/16/2024 01:00	02/16/2024 11:51	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		

Sample Information

Client Sample ID: CAN 48294 / FC 7363 **York Sample ID:** 24B0706-04

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
24B0706	170340203	Air	February 12, 2024 10:21 am	02/13/2024

VOA, TO15 MASTER

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
87-68-3	Hexachlorobutadiene	ND		ug/m³	1.07	1	EPA TO-15	02/16/2024 01:00	02/16/2024 11:51	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
67-63-0	Isopropanol	ND		ug/m³	1.23	1	EPA TO-15	02/16/2024 01:00	02/16/2024 11:51	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
80-62-6	Methyl Methacrylate	ND		ug/m³	0.409	1	EPA TO-15	02/16/2024 01:00	02/16/2024 11:51	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/m³	0.361	1	EPA TO-15	02/16/2024 01:00	02/16/2024 11:51	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
75-09-2	Methylene chloride	ND		ug/m³	0.695	1	EPA TO-15	02/16/2024 01:00	02/16/2024 11:51	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
91-20-3	* Naphthalene	ND	TO-CCV, TO-LCS-L	ug/m³	1.57	1	EPA TO-15	02/16/2024 01:00	02/16/2024 11:51	VH
							Certifications:	NJDEP-NY037		
142-82-5	n-Heptane	ND		ug/m³	0.410	1	EPA TO-15	02/16/2024 01:00	02/16/2024 11:51	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
110-54-3	n-Hexane	ND		ug/m³	0.352	1	EPA TO-15	02/16/2024 01:00	02/16/2024 11:51	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
95-47-6	o-Xylene	ND		ug/m³	0.434	1	EPA TO-15	02/16/2024 01:00	02/16/2024 11:51	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
179601-23-1	p- & m- Xylenes	ND		ug/m³	0.868	1	EPA TO-15	02/16/2024 01:00	02/16/2024 11:51	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
622-96-8	* p-Ethyltoluene	ND		ug/m³	0.492	1	EPA TO-15	02/16/2024 01:00	02/16/2024 11:51	VH
							Certifications:			
115-07-1	* Propylene	ND		ug/m³	0.172	1	EPA TO-15	02/16/2024 01:00	02/16/2024 11:51	VH
							Certifications:			
100-42-5	Styrene	ND		ug/m³	0.426	1	EPA TO-15	02/16/2024 01:00	02/16/2024 11:51	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
127-18-4	Tetrachloroethylene	ND		ug/m³	0.678	1	EPA TO-15	02/16/2024 01:00	02/16/2024 11:51	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
109-99-9	* Tetrahydrofuran	ND		ug/m³	0.590	1	EPA TO-15	02/16/2024 01:00	02/16/2024 11:51	VH
							Certifications:			
108-88-3	Toluene	ND		ug/m³	0.377	1	EPA TO-15	02/16/2024 01:00	02/16/2024 11:51	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
156-60-5	trans-1,2-Dichloroethylene	ND		ug/m³	0.396	1	EPA TO-15	02/16/2024 01:00	02/16/2024 11:51	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/m³	0.454	1	EPA TO-15	02/16/2024 01:00	02/16/2024 11:51	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
79-01-6	Trichloroethylene	ND		ug/m³	0.134	1	EPA TO-15	02/16/2024 01:00	02/16/2024 11:51	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
75-69-4	Trichlorofluoromethane (Freon 11)	ND		ug/m³	0.562	1	EPA TO-15	02/16/2024 01:00	02/16/2024 11:51	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
108-05-4	Vinyl acetate	ND		ug/m³	0.352	1	EPA TO-15	02/16/2024 01:00	02/16/2024 11:51	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		

Sample Information

Client Sample ID: CAN 48294 / FC 7363 **York Sample ID:** 24B0706-04

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
24B0706	170340203	Air	February 12, 2024 10:21 am	02/13/2024

VOA, TO15 MASTER

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
593-60-2	Vinyl bromide	ND		ug/m³	0.437	1	EPA TO-15	02/16/2024 01:00	02/16/2024 11:51	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
75-01-4	Vinyl Chloride	ND		ug/m³	0.128	1	EPA TO-15	02/16/2024 01:00	02/16/2024 11:51	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
1330-20-7	* Xylenes, Total	ND		ug/m³	1.30	1	EPA TO-15	02/16/2024 01:00	02/16/2024 11:51	VH
							Certifications:			

Sample Information

Client Sample ID: C241174_AA02_021724 **York Sample ID:** 24B1051-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
24B1051	170340203	Outdoor Ambient Air	February 17, 2024 4:23 pm	02/20/2024

VOA, TO15 MASTER

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	* 1,1,1,2-Tetrachloroethane	ND		ug/m³	0.654	0.952	EPA TO-15	02/22/2024 09:00	02/23/2024 19:36	VH
							Certifications:			
71-55-6	1,1,1-Trichloroethane	ND		ug/m³	0.519	0.952	EPA TO-15	02/22/2024 09:00	02/23/2024 19:36	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/m³	0.654	0.952	EPA TO-15	02/22/2024 09:00	02/23/2024 19:36	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/m³	0.730	0.952	EPA TO-15	02/22/2024 09:00	02/23/2024 19:36	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
79-00-5	1,1,2-Trichloroethane	ND		ug/m³	0.519	0.952	EPA TO-15	02/22/2024 09:00	02/23/2024 19:36	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
75-34-3	1,1-Dichloroethane	ND		ug/m³	0.385	0.952	EPA TO-15	02/22/2024 09:00	02/23/2024 19:36	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
75-35-4	1,1-Dichloroethylene	ND		ug/m³	0.189	0.952	EPA TO-15	02/22/2024 09:00	02/23/2024 19:36	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
120-82-1	1,2,4-Trichlorobenzene	ND		ug/m³	0.707	0.952	EPA TO-15	02/22/2024 09:00	02/23/2024 19:36	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
95-63-6	**1,2,4-Trimethylbenzene**	**3.46**		ug/m³	0.468	0.952	EPA TO-15	02/22/2024 09:00	02/23/2024 19:36	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
106-93-4	1,2-Dibromoethane	ND		ug/m³	0.731	0.952	EPA TO-15	02/22/2024 09:00	02/23/2024 19:36	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
95-50-1	1,2-Dichlorobenzene	ND		ug/m³	0.572	0.952	EPA TO-15	02/22/2024 09:00	02/23/2024 19:36	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
107-06-2	1,2-Dichloroethane	ND		ug/m³	0.385	0.952	EPA TO-15	02/22/2024 09:00	02/23/2024 19:36	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
78-87-5	1,2-Dichloropropane	ND		ug/m³	0.440	0.952	EPA TO-15	02/22/2024 09:00	02/23/2024 19:36	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
76-14-2	1,2-Dichlorotetrafluoroethane	ND		ug/m³	0.666	0.952	EPA TO-15	02/22/2024 09:00	02/23/2024 19:36	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
108-67-8	**1,3,5-Trimethylbenzene**	**0.796**		ug/m³	0.468	0.952	EPA TO-15	02/22/2024 09:00	02/23/2024 19:36	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
106-99-0	1,3-Butadiene	ND		ug/m³	0.632	0.952	EPA TO-15	02/22/2024 09:00	02/23/2024 19:36	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
541-73-1	1,3-Dichlorobenzene	ND		ug/m³	0.572	0.952	EPA TO-15	02/22/2024 09:00	02/23/2024 19:36	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
142-28-9	* 1,3-Dichloropropane	ND		ug/m³	0.440	0.952	EPA TO-15	02/22/2024 09:00	02/23/2024 19:36	VH
							Certifications:			
106-46-7	1,4-Dichlorobenzene	ND		ug/m³	0.572	0.952	EPA TO-15	02/22/2024 09:00	02/23/2024 19:36	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
123-91-1	1,4-Dioxane	ND		ug/m³	0.686	0.952	EPA TO-15	02/22/2024 09:00	02/23/2024 19:36	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
78-93-3	**2-Butanone**	**5.22**		ug/m³	0.281	0.952	EPA TO-15	02/22/2024 09:00	02/23/2024 19:36	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
591-78-6	* 2-Hexanone	ND		ug/m³	0.780	0.952	EPA TO-15	02/22/2024 09:00	02/23/2024 19:36	VH
							Certifications:			

Sample Information

Client Sample ID: C241174_AA02_021724 **York Sample ID:** 24B1051-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
24B1051	170340203	Outdoor Ambient Air	February 17, 2024 4:23 pm	02/20/2024

VOA, TO15 MASTER

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
107-05-1	3-Chloropropene	ND		ug/m³	1.49	0.952	EPA TO-15	02/22/2024 09:00	02/23/2024 19:36	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
108-10-1	**4-Methyl-2-pentanone**	**0.429**		ug/m³	0.390	0.952	EPA TO-15	02/22/2024 09:00	02/23/2024 19:36	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
67-64-1	**Acetone**	**17.2**		ug/m³	0.452	0.952	EPA TO-15	02/22/2024 09:00	02/23/2024 19:36	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
107-13-1	**Acrylonitrile**	**2.36**	B	ug/m³	0.207	0.952	EPA TO-15	02/22/2024 09:00	02/23/2024 19:36	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
71-43-2	**Benzene**	**0.639**		ug/m³	0.304	0.952	EPA TO-15	02/22/2024 09:00	02/23/2024 19:36	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
100-44-7	Benzyl chloride	ND		ug/m³	0.493	0.952	EPA TO-15	02/22/2024 09:00	02/23/2024 19:36	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
75-27-4	Bromodichloromethane	ND		ug/m³	0.638	0.952	EPA TO-15	02/22/2024 09:00	02/23/2024 19:36	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
75-25-2	Bromoform	ND		ug/m³	0.984	0.952	EPA TO-15	02/22/2024 09:00	02/23/2024 19:36	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
74-83-9	Bromomethane	ND		ug/m³	0.370	0.952	EPA TO-15	02/22/2024 09:00	02/23/2024 19:36	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
75-15-0	**Carbon disulfide**	**25.6**		ug/m³	0.296	0.952	EPA TO-15	02/22/2024 09:00	02/23/2024 19:36	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
56-23-5	**Carbon tetrachloride**	**0.479**		ug/m³	0.150	0.952	EPA TO-15	02/22/2024 09:00	02/23/2024 19:36	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
108-90-7	Chlorobenzene	ND		ug/m³	0.438	0.952	EPA TO-15	02/22/2024 09:00	02/23/2024 19:36	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
75-00-3	Chloroethane	ND		ug/m³	0.251	0.952	EPA TO-15	02/22/2024 09:00	02/23/2024 19:36	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
67-66-3	Chloroform	ND		ug/m³	0.465	0.952	EPA TO-15	02/22/2024 09:00	02/23/2024 19:36	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
74-87-3	**Chloromethane**	**2.02**		ug/m³	0.197	0.952	EPA TO-15	02/22/2024 09:00	02/23/2024 19:36	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
156-59-2	cis-1,2-Dichloroethylene	ND		ug/m³	0.189	0.952	EPA TO-15	02/22/2024 09:00	02/23/2024 19:36	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/m³	0.432	0.952	EPA TO-15	02/22/2024 09:00	02/23/2024 19:36	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
110-82-7	Cyclohexane	ND		ug/m³	0.328	0.952	EPA TO-15	02/22/2024 09:00	02/23/2024 19:36	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
124-48-1	Dibromochloromethane	ND		ug/m³	0.811	0.952	EPA TO-15	02/22/2024 09:00	02/23/2024 19:36	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
75-71-8	**Dichlorodifluoromethane**	**2.21**		ug/m³	0.471	0.952	EPA TO-15	02/22/2024 09:00	02/23/2024 19:36	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
141-78-6	* Ethyl acetate	ND		ug/m³	0.686	0.952	EPA TO-15	02/22/2024 09:00	02/23/2024 19:36	VH
							Certifications:			
100-41-4	**Ethyl Benzene**	**0.455**		ug/m³	0.413	0.952	EPA TO-15	02/22/2024 09:00	02/23/2024 19:36	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		

Sample Information

Client Sample ID: C241174_AA02_021724 **York Sample ID:** 24B1051-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
24B1051	170340203	Outdoor Ambient Air	February 17, 2024 4:23 pm	02/20/2024

VOA, TO15 MASTER

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
87-68-3	Hexachlorobutadiene	ND		ug/m³	1.02	0.952	EPA TO-15	02/22/2024 09:00	02/23/2024 19:36	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
67-63-0	**Isopropanol**	**3.09**		ug/m³	0.468	0.952	EPA TO-15	02/22/2024 09:00	02/23/2024 19:36	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
80-62-6	Methyl Methacrylate	ND		ug/m³	0.390	0.952	EPA TO-15	02/22/2024 09:00	02/23/2024 19:36	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/m³	0.343	0.952	EPA TO-15	02/22/2024 09:00	02/23/2024 19:36	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
75-09-2	**Methylene chloride**	**1.69**		ug/m³	0.661	0.952	EPA TO-15	02/22/2024 09:00	02/23/2024 19:36	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
91-20-3	* Naphthalene	ND		ug/m³	0.998	0.952	EPA TO-15	02/22/2024 09:00	02/23/2024 19:36	VH
							Certifications:	NJDEP-NY037		
142-82-5	n-Heptane	ND		ug/m³	0.390	0.952	EPA TO-15	02/22/2024 09:00	02/23/2024 19:36	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
110-54-3	**n-Hexane**	**0.403**		ug/m³	0.336	0.952	EPA TO-15	02/22/2024 09:00	02/23/2024 19:36	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
95-47-6	**o-Xylene**	**1.36**		ug/m³	0.413	0.952	EPA TO-15	02/22/2024 09:00	02/23/2024 19:36	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
179601-23-1	**p- & m- Xylenes**	**1.98**		ug/m³	0.827	0.952	EPA TO-15	02/22/2024 09:00	02/23/2024 19:36	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
622-96-8	*** p-Ethyltoluene**	**0.936**		ug/m³	0.468	0.952	EPA TO-15	02/22/2024 09:00	02/23/2024 19:36	VH
							Certifications:			
115-07-1	* Propylene	ND		ug/m³	0.164	0.952	EPA TO-15	02/22/2024 09:00	02/23/2024 19:36	VH
							Certifications:			
100-42-5	Styrene	ND		ug/m³	0.406	0.952	EPA TO-15	02/22/2024 09:00	02/23/2024 19:36	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
127-18-4	Tetrachloroethylene	ND		ug/m³	0.646	0.952	EPA TO-15	02/22/2024 09:00	02/23/2024 19:36	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
109-99-9	* Tetrahydrofuran	ND		ug/m³	0.562	0.952	EPA TO-15	02/22/2024 09:00	02/23/2024 19:36	VH
							Certifications:			
108-88-3	**Toluene**	**1.72**		ug/m³	0.359	0.952	EPA TO-15	02/22/2024 09:00	02/23/2024 19:36	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
156-60-5	trans-1,2-Dichloroethylene	ND		ug/m³	0.377	0.952	EPA TO-15	02/22/2024 09:00	02/23/2024 19:36	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/m³	0.432	0.952	EPA TO-15	02/22/2024 09:00	02/23/2024 19:36	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
79-01-6	Trichloroethylene	ND		ug/m³	0.128	0.952	EPA TO-15	02/22/2024 09:00	02/23/2024 19:36	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
75-69-4	**Trichlorofluoromethane (Freon 11)**	**1.28**		ug/m³	0.535	0.952	EPA TO-15	02/22/2024 09:00	02/23/2024 19:36	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
108-05-4	Vinyl acetate	ND		ug/m³	0.335	0.952	EPA TO-15	02/22/2024 09:00	02/23/2024 19:36	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
593-60-2	Vinyl bromide	ND		ug/m³	0.416	0.952	EPA TO-15	02/22/2024 09:00	02/23/2024 19:36	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		

Sample Information

Client Sample ID: C241174_AA02_021724 **York Sample ID:** 24B1051-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
24B1051	170340203	Outdoor Ambient Air	February 17, 2024 4:23 pm	02/20/2024

VOA, TO15 MASTER

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
75-01-4	Vinyl Chloride	ND		ug/m³	0.122	0.952	EPA TO-15	02/22/2024 09:00	02/23/2024 19:36	VH
							Certifications: NELAC-NY12058,NJDEP-NY037			
1330-20-7	*** Xylenes, Total**	**3.35**		ug/m³	1.24	0.952	EPA TO-15	02/22/2024 09:00	02/23/2024 19:36	VH
							Certifications:			

Sample Information

Client Sample ID: C241174_LR-IA01_MW30D_021724 **York Sample ID:** 24B1051-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
24B1051	170340203	Indoor Ambient Air	February 17, 2024 4:24 pm	02/20/2024

VOA, TO15 MASTER

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	* 1,1,1,2-Tetrachloroethane	ND		ug/m³	0.665	0.968	EPA TO-15	02/22/2024 09:00	02/23/2024 20:21	VH
							Certifications:			
71-55-6	1,1,1-Trichloroethane	ND		ug/m³	0.528	0.968	EPA TO-15	02/22/2024 09:00	02/23/2024 20:21	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/m³	0.665	0.968	EPA TO-15	02/22/2024 09:00	02/23/2024 20:21	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/m³	0.742	0.968	EPA TO-15	02/22/2024 09:00	02/23/2024 20:21	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
79-00-5	1,1,2-Trichloroethane	ND		ug/m³	0.528	0.968	EPA TO-15	02/22/2024 09:00	02/23/2024 20:21	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
75-34-3	1,1-Dichloroethane	ND		ug/m³	0.392	0.968	EPA TO-15	02/22/2024 09:00	02/23/2024 20:21	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
75-35-4	1,1-Dichloroethylene	ND		ug/m³	0.192	0.968	EPA TO-15	02/22/2024 09:00	02/23/2024 20:21	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
120-82-1	1,2,4-Trichlorobenzene	ND		ug/m³	0.718	0.968	EPA TO-15	02/22/2024 09:00	02/23/2024 20:21	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
95-63-6	**1,2,4-Trimethylbenzene**	**1.24**		ug/m³	0.476	0.968	EPA TO-15	02/22/2024 09:00	02/23/2024 20:21	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
106-93-4	1,2-Dibromoethane	ND		ug/m³	0.744	0.968	EPA TO-15	02/22/2024 09:00	02/23/2024 20:21	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
95-50-1	1,2-Dichlorobenzene	ND		ug/m³	0.582	0.968	EPA TO-15	02/22/2024 09:00	02/23/2024 20:21	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
107-06-2	1,2-Dichloroethane	ND		ug/m³	0.392	0.968	EPA TO-15	02/22/2024 09:00	02/23/2024 20:21	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
78-87-5	1,2-Dichloropropane	ND		ug/m³	0.447	0.968	EPA TO-15	02/22/2024 09:00	02/23/2024 20:21	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
76-14-2	1,2-Dichlorotetrafluoroethane	ND		ug/m³	0.677	0.968	EPA TO-15	02/22/2024 09:00	02/23/2024 20:21	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
108-67-8	**1,3,5-Trimethylbenzene**	**0.476**		ug/m³	0.476	0.968	EPA TO-15	02/22/2024 09:00	02/23/2024 20:21	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
106-99-0	1,3-Butadiene	ND		ug/m³	0.642	0.968	EPA TO-15	02/22/2024 09:00	02/23/2024 20:21	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
541-73-1	1,3-Dichlorobenzene	ND		ug/m³	0.582	0.968	EPA TO-15	02/22/2024 09:00	02/23/2024 20:21	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
142-28-9	* 1,3-Dichloropropane	ND		ug/m³	0.447	0.968	EPA TO-15	02/22/2024 09:00	02/23/2024 20:21	VH
							Certifications:			
106-46-7	1,4-Dichlorobenzene	ND		ug/m³	0.582	0.968	EPA TO-15	02/22/2024 09:00	02/23/2024 20:21	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
123-91-1	1,4-Dioxane	ND		ug/m³	0.698	0.968	EPA TO-15	02/22/2024 09:00	02/23/2024 20:21	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
78-93-3	**2-Butanone**	**10.8**		ug/m³	0.285	0.968	EPA TO-15	02/22/2024 09:00	02/23/2024 20:21	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
591-78-6	* 2-Hexanone	ND		ug/m³	0.793	0.968	EPA TO-15	02/22/2024 09:00	02/23/2024 20:21	VH
							Certifications:			

Sample Information

Client Sample ID: C241174_LR-IA01_MW30D_021724 **York Sample ID:** 24B1051-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
24B1051	170340203	Indoor Ambient Air	February 17, 2024 4:24 pm	02/20/2024

VOA, TO15 MASTER

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
107-05-1	3-Chloropropene	ND		ug/m³	1.51	0.968	EPA TO-15	02/22/2024 09:00	02/23/2024 20:21	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
108-10-1	**4-Methyl-2-pentanone**	**0.833**		ug/m³	0.397	0.968	EPA TO-15	02/22/2024 09:00	02/23/2024 20:21	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
67-64-1	**Acetone**	**94.5**		ug/m³	0.460	0.968	EPA TO-15	02/22/2024 09:00	02/23/2024 20:21	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
107-13-1	**Acrylonitrile**	**0.336**	B	ug/m³	0.210	0.968	EPA TO-15	02/22/2024 09:00	02/23/2024 20:21	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
71-43-2	**Benzene**	**0.711**		ug/m³	0.309	0.968	EPA TO-15	02/22/2024 09:00	02/23/2024 20:21	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
100-44-7	Benzyl chloride	ND		ug/m³	0.501	0.968	EPA TO-15	02/22/2024 09:00	02/23/2024 20:21	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
75-27-4	Bromodichloromethane	ND		ug/m³	0.649	0.968	EPA TO-15	02/22/2024 09:00	02/23/2024 20:21	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
75-25-2	Bromoform	ND		ug/m³	1.00	0.968	EPA TO-15	02/22/2024 09:00	02/23/2024 20:21	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
74-83-9	Bromomethane	ND		ug/m³	0.376	0.968	EPA TO-15	02/22/2024 09:00	02/23/2024 20:21	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
75-15-0	**Carbon disulfide**	**3.38**		ug/m³	0.301	0.968	EPA TO-15	02/22/2024 09:00	02/23/2024 20:21	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
56-23-5	**Carbon tetrachloride**	**0.426**		ug/m³	0.152	0.968	EPA TO-15	02/22/2024 09:00	02/23/2024 20:21	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
108-90-7	Chlorobenzene	ND		ug/m³	0.446	0.968	EPA TO-15	02/22/2024 09:00	02/23/2024 20:21	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
75-00-3	Chloroethane	ND		ug/m³	0.255	0.968	EPA TO-15	02/22/2024 09:00	02/23/2024 20:21	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
67-66-3	Chloroform	ND		ug/m³	0.473	0.968	EPA TO-15	02/22/2024 09:00	02/23/2024 20:21	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
74-87-3	**Chloromethane**	**0.999**		ug/m³	0.200	0.968	EPA TO-15	02/22/2024 09:00	02/23/2024 20:21	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
156-59-2	cis-1,2-Dichloroethylene	ND		ug/m³	0.192	0.968	EPA TO-15	02/22/2024 09:00	02/23/2024 20:21	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/m³	0.439	0.968	EPA TO-15	02/22/2024 09:00	02/23/2024 20:21	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
110-82-7	**Cyclohexane**	**0.833**		ug/m³	0.333	0.968	EPA TO-15	02/22/2024 09:00	02/23/2024 20:21	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
124-48-1	Dibromochloromethane	ND		ug/m³	0.825	0.968	EPA TO-15	02/22/2024 09:00	02/23/2024 20:21	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
75-71-8	**Dichlorodifluoromethane**	**2.01**		ug/m³	0.479	0.968	EPA TO-15	02/22/2024 09:00	02/23/2024 20:21	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
141-78-6	*** Ethyl acetate**	**5.37**		ug/m³	0.698	0.968	EPA TO-15	02/22/2024 09:00	02/23/2024 20:21	VH
							Certifications:			
100-41-4	**Ethyl Benzene**	**0.841**		ug/m³	0.420	0.968	EPA TO-15	02/22/2024 09:00	02/23/2024 20:21	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		

Sample Information

Client Sample ID: C241174_LR-IA01_MW30D_021724 **York Sample ID:** 24B1051-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
24B1051	170340203	Indoor Ambient Air	February 17, 2024 4:24 pm	02/20/2024

VOA, TO15 MASTER **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
87-68-3	Hexachlorobutadiene	ND		ug/m³	1.03	0.968	EPA TO-15	02/22/2024 09:00	02/23/2024 20:21	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
67-63-0	**Isopropanol**	**13.6**		ug/m³	0.476	0.968	EPA TO-15	02/22/2024 09:00	02/23/2024 20:21	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
80-62-6	**Methyl Methacrylate**	**60.0**		ug/m³	0.396	0.968	EPA TO-15	02/22/2024 09:00	02/23/2024 20:21	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/m³	0.349	0.968	EPA TO-15	02/22/2024 09:00	02/23/2024 20:21	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
75-09-2	**Methylene chloride**	**159**		ug/m³	0.672	0.968	EPA TO-15	02/22/2024 09:00	02/23/2024 20:21	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
91-20-3	* Naphthalene	ND		ug/m³	1.01	0.968	EPA TO-15	02/22/2024 09:00	02/23/2024 20:21	VH
							Certifications:	NJDEP-NY037		
142-82-5	**n-Heptane**	**4.72**		ug/m³	0.397	0.968	EPA TO-15	02/22/2024 09:00	02/23/2024 20:21	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
110-54-3	**n-Hexane**	**4.23**		ug/m³	0.341	0.968	EPA TO-15	02/22/2024 09:00	02/23/2024 20:21	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
95-47-6	**o-Xylene**	**1.01**		ug/m³	0.420	0.968	EPA TO-15	02/22/2024 09:00	02/23/2024 20:21	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
179601-23-1	**p- & m- Xylenes**	**3.53**		ug/m³	0.841	0.968	EPA TO-15	02/22/2024 09:00	02/23/2024 20:21	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
622-96-8	*** p-Ethyltoluene**	**0.714**		ug/m³	0.476	0.968	EPA TO-15	02/22/2024 09:00	02/23/2024 20:21	VH
							Certifications:			
115-07-1	* Propylene	ND		ug/m³	0.167	0.968	EPA TO-15	02/22/2024 09:00	02/23/2024 20:21	VH
							Certifications:			
100-42-5	**Styrene**	**0.660**		ug/m³	0.412	0.968	EPA TO-15	02/22/2024 09:00	02/23/2024 20:21	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
127-18-4	Tetrachloroethylene	ND		ug/m³	0.657	0.968	EPA TO-15	02/22/2024 09:00	02/23/2024 20:21	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
109-99-9	*** Tetrahydrofuran**	**10.1**		ug/m³	0.571	0.968	EPA TO-15	02/22/2024 09:00	02/23/2024 20:21	VH
							Certifications:			
108-88-3	**Toluene**	**16.8**		ug/m³	0.365	0.968	EPA TO-15	02/22/2024 09:00	02/23/2024 20:21	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
156-60-5	trans-1,2-Dichloroethylene	ND		ug/m³	0.384	0.968	EPA TO-15	02/22/2024 09:00	02/23/2024 20:21	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/m³	0.439	0.968	EPA TO-15	02/22/2024 09:00	02/23/2024 20:21	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
79-01-6	**Trichloroethylene**	**0.624**		ug/m³	0.130	0.968	EPA TO-15	02/22/2024 09:00	02/23/2024 20:21	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
75-69-4	**Trichlorofluoromethane (Freon 11)**	**1.20**		ug/m³	0.544	0.968	EPA TO-15	02/22/2024 09:00	02/23/2024 20:21	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
108-05-4	Vinyl acetate	ND		ug/m³	0.341	0.968	EPA TO-15	02/22/2024 09:00	02/23/2024 20:21	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
593-60-2	Vinyl bromide	ND		ug/m³	0.423	0.968	EPA TO-15	02/22/2024 09:00	02/23/2024 20:21	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		

Sample Information

Client Sample ID: C241174_LR-IA01_MW30D_021724 **York Sample ID:** 24B1051-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
24B1051	170340203	Indoor Ambient Air	February 17, 2024 4:24 pm	02/20/2024

VOA, TO15 MASTER

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
75-01-4	Vinyl Chloride	ND		ug/m³	0.124	0.968	EPA TO-15	02/22/2024 09:00	02/23/2024 20:21	VH
							Certifications: NELAC-NY12058,NJDEP-NY037			
1330-20-7	*** Xylenes, Total**	**4.54**		ug/m³	1.26	0.968	EPA TO-15	02/22/2024 09:00	02/23/2024 20:21	VH
							Certifications:			

Sample Information

Client Sample ID: C241174_LR-IA02_MW34D_021724 **York Sample ID:** 24B1051-03

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
24B1051	170340203	Indoor Ambient Air	February 17, 2024 4:26 pm	02/20/2024

VOA, TO15 MASTER

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	* 1,1,1,2-Tetrachloroethane	ND		ug/m³	0.695	1.013	EPA TO-15	02/22/2024 09:00	02/23/2024 21:07	VH
							Certifications:			
71-55-6	1,1,1-Trichloroethane	ND		ug/m³	0.553	1.013	EPA TO-15	02/22/2024 09:00	02/23/2024 21:07	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/m³	0.695	1.013	EPA TO-15	02/22/2024 09:00	02/23/2024 21:07	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/m³	0.776	1.013	EPA TO-15	02/22/2024 09:00	02/23/2024 21:07	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
79-00-5	1,1,2-Trichloroethane	ND		ug/m³	0.553	1.013	EPA TO-15	02/22/2024 09:00	02/23/2024 21:07	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
75-34-3	1,1-Dichloroethane	ND		ug/m³	0.410	1.013	EPA TO-15	02/22/2024 09:00	02/23/2024 21:07	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
75-35-4	1,1-Dichloroethylene	ND		ug/m³	0.201	1.013	EPA TO-15	02/22/2024 09:00	02/23/2024 21:07	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
120-82-1	1,2,4-Trichlorobenzene	ND		ug/m³	0.752	1.013	EPA TO-15	02/22/2024 09:00	02/23/2024 21:07	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
95-63-6	**1,2,4-Trimethylbenzene**	**8.12**		ug/m³	0.498	1.013	EPA TO-15	02/22/2024 09:00	02/23/2024 21:07	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
106-93-4	1,2-Dibromoethane	ND		ug/m³	0.778	1.013	EPA TO-15	02/22/2024 09:00	02/23/2024 21:07	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
95-50-1	1,2-Dichlorobenzene	ND		ug/m³	0.609	1.013	EPA TO-15	02/22/2024 09:00	02/23/2024 21:07	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
107-06-2	1,2-Dichloroethane	ND		ug/m³	0.410	1.013	EPA TO-15	02/22/2024 09:00	02/23/2024 21:07	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
78-87-5	1,2-Dichloropropane	ND		ug/m³	0.468	1.013	EPA TO-15	02/22/2024 09:00	02/23/2024 21:07	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
76-14-2	1,2-Dichlorotetrafluoroethane	ND		ug/m³	0.708	1.013	EPA TO-15	02/22/2024 09:00	02/23/2024 21:07	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
108-67-8	**1,3,5-Trimethylbenzene**	**2.04**		ug/m³	0.498	1.013	EPA TO-15	02/22/2024 09:00	02/23/2024 21:07	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
106-99-0	1,3-Butadiene	ND		ug/m³	0.672	1.013	EPA TO-15	02/22/2024 09:00	02/23/2024 21:07	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
541-73-1	1,3-Dichlorobenzene	ND		ug/m³	0.609	1.013	EPA TO-15	02/22/2024 09:00	02/23/2024 21:07	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
142-28-9	* 1,3-Dichloropropane	ND		ug/m³	0.468	1.013	EPA TO-15	02/22/2024 09:00	02/23/2024 21:07	VH
							Certifications:			
106-46-7	1,4-Dichlorobenzene	ND		ug/m³	0.609	1.013	EPA TO-15	02/22/2024 09:00	02/23/2024 21:07	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
123-91-1	1,4-Dioxane	ND		ug/m³	0.730	1.013	EPA TO-15	02/22/2024 09:00	02/23/2024 21:07	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
78-93-3	**2-Butanone**	**3.47**		ug/m³	0.299	1.013	EPA TO-15	02/22/2024 09:00	02/23/2024 21:07	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
591-78-6	* 2-Hexanone	ND		ug/m³	0.830	1.013	EPA TO-15	02/22/2024 09:00	02/23/2024 21:07	VH
							Certifications:			

Sample Information

Client Sample ID: C241174_LR-IA02_MW34D_021724 **York Sample ID:** 24B1051-03

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
24B1051	170340203	Indoor Ambient Air	February 17, 2024 4:26 pm	02/20/2024

VOA, TO15 MASTER

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
107-05-1	3-Chloropropene	ND		ug/m³	1.59	1.013	EPA TO-15	02/22/2024 09:00	02/23/2024 21:07	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
108-10-1	4-Methyl-2-pentanone	ND		ug/m³	0.415	1.013	EPA TO-15	02/22/2024 09:00	02/23/2024 21:07	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
67-64-1	**Acetone**	**94.9**		ug/m³	0.963	2.026	EPA TO-15	02/22/2024 09:00	02/27/2024 17:49	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
107-13-1	**Acrylonitrile**	**0.462**	B	ug/m³	0.220	1.013	EPA TO-15	02/22/2024 09:00	02/23/2024 21:07	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
71-43-2	Benzene	ND		ug/m³	0.324	1.013	EPA TO-15	02/22/2024 09:00	02/23/2024 21:07	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
100-44-7	Benzyl chloride	ND		ug/m³	0.524	1.013	EPA TO-15	02/22/2024 09:00	02/23/2024 21:07	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
75-27-4	Bromodichloromethane	ND		ug/m³	0.679	1.013	EPA TO-15	02/22/2024 09:00	02/23/2024 21:07	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
75-25-2	Bromoform	ND		ug/m³	1.05	1.013	EPA TO-15	02/22/2024 09:00	02/23/2024 21:07	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
74-83-9	Bromomethane	ND		ug/m³	0.393	1.013	EPA TO-15	02/22/2024 09:00	02/23/2024 21:07	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
75-15-0	**Carbon disulfide**	**12.8**		ug/m³	0.315	1.013	EPA TO-15	02/22/2024 09:00	02/23/2024 21:07	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
56-23-5	**Carbon tetrachloride**	**0.446**		ug/m³	0.159	1.013	EPA TO-15	02/22/2024 09:00	02/23/2024 21:07	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
108-90-7	Chlorobenzene	ND		ug/m³	0.466	1.013	EPA TO-15	02/22/2024 09:00	02/23/2024 21:07	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
75-00-3	Chloroethane	ND		ug/m³	0.267	1.013	EPA TO-15	02/22/2024 09:00	02/23/2024 21:07	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
67-66-3	Chloroform	ND		ug/m³	0.495	1.013	EPA TO-15	02/22/2024 09:00	02/23/2024 21:07	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
74-87-3	**Chloromethane**	**1.07**		ug/m³	0.209	1.013	EPA TO-15	02/22/2024 09:00	02/23/2024 21:07	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
156-59-2	cis-1,2-Dichloroethylene	ND		ug/m³	0.201	1.013	EPA TO-15	02/22/2024 09:00	02/23/2024 21:07	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/m³	0.460	1.013	EPA TO-15	02/22/2024 09:00	02/23/2024 21:07	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
110-82-7	**Cyclohexane**	**34.2**		ug/m³	0.349	1.013	EPA TO-15	02/22/2024 09:00	02/23/2024 21:07	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
124-48-1	Dibromochloromethane	ND		ug/m³	0.863	1.013	EPA TO-15	02/22/2024 09:00	02/23/2024 21:07	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
75-71-8	**Dichlorodifluoromethane**	**2.25**		ug/m³	0.501	1.013	EPA TO-15	02/22/2024 09:00	02/23/2024 21:07	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
141-78-6	* Ethyl acetate	ND		ug/m³	0.730	1.013	EPA TO-15	02/22/2024 09:00	02/23/2024 21:07	VH
							Certifications:			
100-41-4	**Ethyl Benzene**	**4.97**		ug/m³	0.440	1.013	EPA TO-15	02/22/2024 09:00	02/23/2024 21:07	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		

Sample Information

Client Sample ID: C241174_LR-IA02_MW34D_021724 **York Sample ID:** 24B1051-03

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
24B1051	170340203	Indoor Ambient Air	February 17, 2024 4:26 pm	02/20/2024

VOA, TO15 MASTER

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
87-68-3	Hexachlorobutadiene	ND		ug/m³	1.08	1.013	EPA TO-15	02/22/2024 09:00	02/23/2024 21:07	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
67-63-0	**Isopropanol**	**18.5**		ug/m³	0.498	1.013	EPA TO-15	02/22/2024 09:00	02/23/2024 21:07	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
80-62-6	Methyl Methacrylate	ND		ug/m³	0.415	1.013	EPA TO-15	02/22/2024 09:00	02/23/2024 21:07	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/m³	0.365	1.013	EPA TO-15	02/22/2024 09:00	02/23/2024 21:07	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
75-09-2	**Methylene chloride**	**11.5**		ug/m³	0.704	1.013	EPA TO-15	02/22/2024 09:00	02/23/2024 21:07	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
91-20-3	* Naphthalene	ND		ug/m³	1.06	1.013	EPA TO-15	02/22/2024 09:00	02/23/2024 21:07	VH
							Certifications:	NJDEP-NY037		
142-82-5	**n-Heptane**	**89.9**		ug/m³	0.415	1.013	EPA TO-15	02/22/2024 09:00	02/23/2024 21:07	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
110-54-3	**n-Hexane**	**51.5**		ug/m³	0.357	1.013	EPA TO-15	02/22/2024 09:00	02/23/2024 21:07	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
95-47-6	**o-Xylene**	**5.85**		ug/m³	0.440	1.013	EPA TO-15	02/22/2024 09:00	02/23/2024 21:07	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
179601-23-1	**p- & m- Xylenes**	**16.5**		ug/m³	0.880	1.013	EPA TO-15	02/22/2024 09:00	02/23/2024 21:07	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
622-96-8	*** p-Ethyltoluene**	**3.74**		ug/m³	0.498	1.013	EPA TO-15	02/22/2024 09:00	02/23/2024 21:07	VH
							Certifications:			
115-07-1	* Propylene	ND		ug/m³	0.174	1.013	EPA TO-15	02/22/2024 09:00	02/23/2024 21:07	VH
							Certifications:			
100-42-5	**Styrene**	**0.432**		ug/m³	0.432	1.013	EPA TO-15	02/22/2024 09:00	02/23/2024 21:07	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
127-18-4	Tetrachloroethylene	ND		ug/m³	0.687	1.013	EPA TO-15	02/22/2024 09:00	02/23/2024 21:07	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
109-99-9	* Tetrahydrofuran	ND		ug/m³	0.598	1.013	EPA TO-15	02/22/2024 09:00	02/23/2024 21:07	VH
							Certifications:			
108-88-3	**Toluene**	**14.7**		ug/m³	0.382	1.013	EPA TO-15	02/22/2024 09:00	02/23/2024 21:07	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
156-60-5	trans-1,2-Dichloroethylene	ND		ug/m³	0.402	1.013	EPA TO-15	02/22/2024 09:00	02/23/2024 21:07	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/m³	0.460	1.013	EPA TO-15	02/22/2024 09:00	02/23/2024 21:07	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
79-01-6	Trichloroethylene	ND		ug/m³	0.136	1.013	EPA TO-15	02/22/2024 09:00	02/23/2024 21:07	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
75-69-4	**Trichlorofluoromethane (Freon 11)**	**1.20**		ug/m³	0.569	1.013	EPA TO-15	02/22/2024 09:00	02/23/2024 21:07	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
108-05-4	Vinyl acetate	ND		ug/m³	0.357	1.013	EPA TO-15	02/22/2024 09:00	02/23/2024 21:07	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
593-60-2	Vinyl bromide	ND		ug/m³	0.443	1.013	EPA TO-15	02/22/2024 09:00	02/23/2024 21:07	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		

Sample Information

Client Sample ID: C241174_LR-IA02_MW34D_021724 **York Sample ID:** 24B1051-03

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
24B1051	170340203	Indoor Ambient Air	February 17, 2024 4:26 pm	02/20/2024

VOA, TO15 MASTER

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
75-01-4	Vinyl Chloride	ND		ug/m³	0.129	1.013	EPA TO-15	02/22/2024 09:00	02/23/2024 21:07	VH
							Certifications: NELAC-NY12058,NJDEP-NY037			
1330-20-7	*** Xylenes, Total**	**22.3**		ug/m³	1.32	1.013	EPA TO-15	02/22/2024 09:00	02/23/2024 21:07	VH
							Certifications:			

Analytical Batch Summary

Batch ID: BB41057 **Preparation Method:** EPA TO15 PREP **Prepared By:** VH

YORK Sample ID	Client Sample ID	Preparation Date
24B0706-01	CAN 15522 / FC 17190	02/16/24
24B0706-02	CAN 16976 / FC 6877	02/16/24
24B0706-04	CAN 48294 / FC 7363	02/16/24
BB41057-BLK1	Blank	02/16/24
BB41057-BS1	LCS	02/16/24
BB41057-DUP1	Duplicate	02/16/24

Batch ID: BB41687 **Preparation Method:** EPA TO15 PREP **Prepared By:** YR

YORK Sample ID	Client Sample ID	Preparation Date
24B1051-03RE1	C241174_LR-IA02_MW34D_(	02/22/24
BB41687-BLK1	Blank	02/23/24
BB41687-BS1	LCS	02/23/24
BB41687-DUP1	Duplicate	02/23/24

Batch ID: BB41689 **Preparation Method:** EPA TO15 PREP **Prepared By:** YR

YORK Sample ID	Client Sample ID	Preparation Date
24B1051-01	C241174_AA02_021724	02/22/24
24B1051-02	C241174_LR-IA01_MW30D_(	02/22/24
24B1051-03	C241174_LR-IA02_MW34D_(	02/22/24
BB41689-BLK1	Blank	02/22/24
BB41689-BS1	LCS	02/22/24
BB41689-DUP1	Duplicate	02/22/24

Volatile Organic Compounds in Air by GC/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BB41057 - EPA TO15 PREP											
Blank (BB41057-BLK1) Blank									Prepared & Analyzed: 02/16/2024		
1,1,1,2-Tetrachloroethane	ND	0.687	ug/m³								
1,1,1-Trichloroethane	ND	0.546	"								
1,1,2,2-Tetrachloroethane	ND	0.687	"								
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.766	"								
1,1,2-Trichloroethane	ND	0.546	"								
1,1-Dichloroethane	ND	0.405	"								
1,1-Dichloroethylene	ND	0.198	"								
1,2,4-Trichlorobenzene	1.19	0.742	"								
1,2,4-Trimethylbenzene	ND	0.492	"								
1,2-Dibromoethane	ND	0.768	"								
1,2-Dichlorobenzene	ND	0.601	"								
1,2-Dichloroethane	ND	0.405	"								
1,2-Dichloropropane	ND	0.462	"								
1,2-Dichlorotetrafluoroethane	ND	0.699	"								
1,3,5-Trimethylbenzene	ND	0.492	"								
1,3-Butadiene	ND	0.664	"								
1,3-Dichlorobenzene	ND	0.601	"								
1,3-Dichloropropane	ND	0.462	"								
1,4-Dichlorobenzene	ND	0.601	"								
1,4-Dioxane	ND	0.721	"								
2-Butanone	ND	0.295	"								
2-Hexanone	ND	0.819	"								
3-Chloropropene	ND	1.57	"								
4-Methyl-2-pentanone	ND	0.410	"								
Acetone	ND	0.475	"								
Acrylonitrile	0.239	0.217	"								
Benzene	ND	0.319	"								
Benzyl chloride	ND	0.518	"								
Bromodichloromethane	ND	0.670	"								
Bromoform	ND	1.03	"								
Bromomethane	ND	0.388	"								
Carbon disulfide	ND	0.311	"								
Carbon tetrachloride	ND	0.157	"								
Chlorobenzene	ND	0.460	"								
Chloroethane	ND	0.264	"								
Chloroform	ND	0.488	"								
Chloromethane	ND	0.207	"								
cis-1,2-Dichloroethylene	ND	0.198	"								
cis-1,3-Dichloropropylene	ND	0.454	"								
Cyclohexane	ND	0.344	"								
Dibromochloromethane	ND	0.852	"								
Dichlorodifluoromethane	ND	0.495	"								
Ethyl acetate	ND	0.721	"								
Ethyl Benzene	ND	0.434	"								
Hexachlorobutadiene	ND	1.07	"								
Isopropanol	0.615	0.492	"								
Methyl Methacrylate	ND	0.409	"								
Methyl tert-butyl ether (MTBE)	ND	0.361	"								
Methylene chloride	ND	0.695	"								
Naphthalene	1.31	1.05	"								

Volatile Organic Compounds in Air by GC/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BB41057 - EPA TO15 PREP											
Blank (BB41057-BLK1) Blank								Prepared & Analyzed: 02/16/2024			
n-Heptane	ND	0.410	ug/m³								
n-Hexane	ND	0.352	"								
o-Xylene	ND	0.434	"								
p- & m- Xylenes	ND	0.868	"								
p-Ethyltoluene	ND	0.492	"								
Propylene	ND	0.172	"								
Styrene	ND	0.426	"								
Tetrachloroethylene	ND	0.678	"								
Tetrahydrofuran	ND	0.590	"								
Toluene	ND	0.377	"								
trans-1,2-Dichloroethylene	ND	0.396	"								
trans-1,3-Dichloropropylene	ND	0.454	"								
Trichloroethylene	ND	0.134	"								
Trichlorofluoromethane (Freon 11)	ND	0.562	"								
Vinyl acetate	ND	0.352	"								
Vinyl bromide	ND	0.437	"								
Vinyl Chloride	ND	0.128	"								
Xylenes, Total	ND	1.30	"								
LCS (BB41057-BS1) LCS								Prepared & Analyzed: 02/16/2024			
1,1,1,2-Tetrachloroethane	12.1		ppbv	10.0		121	70-130				
1,1,1-Trichloroethane	11.1		"	10.0		111	70-130				
1,1,2,2-Tetrachloroethane	11.1		"	10.0		111	70-130				
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	12.0		"	10.0		120	70-130				
1,1,2-Trichloroethane	11.1		"	10.0		111	70-130				
1,1-Dichloroethane	12.0		"	10.0		120	70-130				
1,1-Dichloroethylene	12.4		"	10.0		124	70-130				
1,2,4-Trichlorobenzene	8.47		"	10.0		84.7	70-130				
1,2,4-Trimethylbenzene	12.2		"	10.0		122	70-130				
1,2-Dibromoethane	10.5		"	10.0		105	70-130				
1,2-Dichlorobenzene	11.4		"	10.0		114	70-130				
1,2-Dichloroethane	11.5		"	10.0		115	70-130				
1,2-Dichloropropane	11.7		"	10.0		117	70-130				
1,2-Dichlorotetrafluoroethane	15.0		"	10.0		150	70-130	High Bias			
1,3,5-Trimethylbenzene	12.2		"	10.0		122	70-130				
1,3-Butadiene	16.4		"	10.0		164	70-130	High Bias			
1,3-Dichlorobenzene	11.8		"	10.0		118	70-130				
1,3-Dichloropropane	11.2		"	10.0		112	70-130				
1,4-Dichlorobenzene	11.6		"	10.0		116	70-130				
1,4-Dioxane	10.3		"	10.0		103	70-130				
2-Butanone	10.9		"	10.0		109	70-130				
2-Hexanone	10.2		"	10.0		102	70-130				
3-Chloropropene	10.8		"	10.0		108	70-130				
4-Methyl-2-pentanone	11.0		"	10.0		110	70-130				
Acetone	11.8		"	10.0		118	70-130				
Acrylonitrile	9.38		"	10.0		93.8	70-130				
Benzene	10.6		"	10.0		106	70-130				
Benzyl chloride	11.9		"	10.0		119	70-130				
Bromodichloromethane	11.9		"	10.0		119	70-130				
Bromoform	11.6		"	10.0		116	70-130				
Bromomethane	11.7		"	10.0		117	70-130				

Volatile Organic Compounds in Air by GC/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BB41057 - EPA TO15 PREP											
LCS (BB41057-BS1) LCS								Prepared & Analyzed: 02/16/2024			
Carbon disulfide	10.4		ppbv	10.0		104	70-130				
Carbon tetrachloride	12.6		"	10.0		126	70-130				
Chlorobenzene	12.0		"	10.0		120	70-130				
Chloroethane	11.9		"	10.0		119	70-130				
Chloroform	11.3		"	10.0		113	70-130				
Chloromethane	16.1		"	10.0		161	70-130	High Bias			
cis-1,2-Dichloroethylene	10.1		"	10.0		101	70-130				
cis-1,3-Dichloropropylene	10.6		"	10.0		106	70-130				
Cyclohexane	11.1		"	10.0		111	70-130				
Dibromochloromethane	11.1		"	10.0		111	70-130				
Dichlorodifluoromethane	12.6		"	10.0		126	70-130				
Ethyl acetate	9.88		"	10.0		98.8	70-130				
Ethyl Benzene	12.3		"	10.0		123	70-130				
Hexachlorobutadiene	11.0		"	10.0		110	70-130				
Isopropanol	10.2		"	10.0		102	70-130				
Methyl Methacrylate	10.9		"	10.0		109	70-130				
Methyl tert-butyl ether (MTBE)	11.6		"	10.0		116	70-130				
Methylene chloride	11.3		"	10.0		113	70-130				
Naphthalene	6.58		"	10.0		65.8	70-130	Low Bias			
n-Heptane	11.2		"	10.0		112	70-130				
n-Hexane	11.5		"	10.0		115	70-130				
o-Xylene	12.2		"	10.0		122	70-130				
p- & m- Xylenes	24.9		"	20.0		124	70-130				
p-Ethyltoluene	12.8		"	10.0		128	70-130				
Propylene	11.2		"	10.0		112	70-130				
Styrene	12.0		"	10.0		120	70-130				
Tetrachloroethylene	9.77		"	10.0		97.7	70-130				
Tetrahydrofuran	11.5		"	10.0		115	70-130				
Toluene	11.0		"	10.0		110	70-130				
trans-1,2-Dichloroethylene	11.7		"	10.0		117	70-130				
trans-1,3-Dichloropropylene	10.2		"	10.0		102	70-130				
Trichloroethylene	12.3		"	10.0		123	70-130				
Trichlorofluoromethane (Freon 11)	12.3		"	10.0		123	70-130				
Vinyl acetate	8.39		"	10.0		83.9	70-130				
Vinyl bromide	12.1		"	10.0		121	70-130				
Vinyl Chloride	16.2		"	10.0		162	70-130	High Bias			
Xylenes, Total	161	1.30	ug/m³								

Volatile Organic Compounds in Air by GC/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BB41057 - EPA TO15 PREP											
Duplicate (BB41057-DUP1) Duplicate	*Source sample: 24B0529-07 (Duplicate)								Prepared & Analyzed: 02/16/2024		
1,1,1,2-Tetrachloroethane	ND	0.590	ug/m³		ND					25	
1,1,1-Trichloroethane	ND	0.469	"		ND					25	
1,1,2,2-Tetrachloroethane	ND	0.590	"		ND					25	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.658	"		ND					25	
1,1,2-Trichloroethane	ND	0.469	"		ND					25	
1,1-Dichloroethane	ND	0.348	"		ND					25	
1,1-Dichloroethylene	ND	0.170	"		ND					25	
1,2,4-Trichlorobenzene	ND	0.637	"		ND					25	
1,2,4-Trimethylbenzene	2.96	0.422	"		2.91				1.44	25	
1,2-Dibromoethane	ND	0.660	"		ND					25	
1,2-Dichlorobenzene	ND	0.516	"		ND					25	
1,2-Dichloroethane	ND	0.348	"		ND					25	
1,2-Dichloropropane	ND	0.397	"		ND					25	
1,2-Dichlorotetrafluoroethane	ND	0.600	"		ND					25	
1,3,5-Trimethylbenzene	0.718	0.422	"		0.802				11.1	25	
1,3-Butadiene	ND	0.570	"		ND					25	
1,3-Dichlorobenzene	ND	0.516	"		ND					25	
1,3-Dichloropropane	ND	0.397	"		ND					25	
1,4-Dichlorobenzene	ND	0.516	"		ND					25	
1,4-Dioxane	ND	0.619	"		ND					25	
2-Butanone	0.861	0.253	"		0.861				0.00	25	
2-Hexanone	ND	0.704	"		ND					25	
3-Chloropropene	ND	1.34	"		ND					25	
4-Methyl-2-pentanone	ND	0.352	"		ND					25	
Acetone	13.0	0.408	"		13.1				0.781	25	
Acrylonitrile	ND	0.186	"		ND					25	
Benzene	1.59	0.274	"		1.59				0.00	25	
Benzyl chloride	ND	0.445	"		ND					25	
Bromodichloromethane	0.288	0.575	"		0.288				0.00	25	
Bromoform	ND	0.888	"		ND					25	
Bromomethane	ND	0.334	"		ND					25	
Carbon disulfide	ND	0.268	"		ND					25	
Carbon tetrachloride	0.540	0.135	"		0.540				0.00	25	
Chlorobenzene	ND	0.395	"		ND					25	
Chloroethane	ND	0.227	"		ND					25	
Chloroform	3.31	0.419	"		3.31				0.00	25	
Chloromethane	2.34	0.177	"		2.20				6.25	25	
cis-1,2-Dichloroethylene	1.33	0.170	"		1.50				12.0	25	
cis-1,3-Dichloropropylene	ND	0.390	"		ND					25	
Cyclohexane	0.444	0.296	"		0.414				6.90	25	
Dibromochloromethane	ND	0.732	"		ND					25	
Dichlorodifluoromethane	3.14	0.425	"		3.14				0.00	25	
Ethyl acetate	0.743	0.619	"		0.774				4.08	25	
Ethyl Benzene	0.522	0.373	"		0.522				0.00	25	
Hexachlorobutadiene	ND	0.916	"		ND					25	
Isopropanol	6.82	0.422	"		6.86				0.617	25	
Methyl Methacrylate	ND	0.352	"		ND					25	
Methyl tert-butyl ether (MTBE)	ND	0.310	"		ND					25	
Methylene chloride	0.865	0.597	"		0.806				7.14	25	
Naphthalene	2.75	0.901	"		2.66				3.33	25	
n-Heptane	0.739	0.352	"		0.739				0.00	25	

Volatile Organic Compounds in Air by GC/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BB41057 - EPA TO15 PREP											
Duplicate (BB41057-DUP1) Duplicate	*Source sample: 24B0529-07 (Duplicate)								Prepared & Analyzed: 02/16/2024		
n-Hexane	1.03	0.303	ug/m³		0.999				2.99	25	
o-Xylene	0.709	0.373	"		0.783				10.0	25	
p- & m- Xylenes	1.86	0.746	"		1.90				1.98	25	
p-Ethyltoluene	1.22	0.422	"		1.22				0.00	25	
Propylene	ND	0.148	"		ND					25	
Styrene	ND	0.366	"		ND					25	
Tetrachloroethylene	21.8	0.583	"		21.8				0.267	25	
Tetrahydrofuran	ND	0.507	"		ND					25	
Toluene	3.46	0.324	"		3.37				2.84	25	
trans-1,2-Dichloroethylene	ND	0.341	"		ND					25	
trans-1,3-Dichloropropylene	ND	0.390	"		ND					25	
Trichloroethylene	0.508	0.115	"		0.508				0.00	25	
Trichlorofluoromethane (Freon 11)	1.50	0.483	"		1.45				3.28	25	
Vinyl acetate	ND	0.302	"		ND					25	
Vinyl bromide	ND	0.376	"		ND					25	
Vinyl Chloride	0.483	0.110	"		0.461				4.65	25	
Xylenes, Total	2.57	1.12	"		2.69				4.26	200	
Batch BB41687 - EPA TO15 PREP											
Blank (BB41687-BLK1) Blank									Prepared: 02/23/2024 Analyzed: 02/27/2024		
1,1,1,2-Tetrachloroethane	ND	0.687	ug/m³								
1,1,1-Trichloroethane	ND	0.546	"								
1,1,2,2-Tetrachloroethane	ND	0.687	"								
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.766	"								
1,1,2-Trichloroethane	ND	0.546	"								
1,1-Dichloroethane	ND	0.405	"								
1,1-Dichloroethylene	ND	0.198	"								
1,2,4-Trichlorobenzene	ND	0.742	"								
1,2,4-Trimethylbenzene	ND	0.492	"								
1,2-Dibromoethane	ND	0.768	"								
1,2-Dichlorobenzene	ND	0.601	"								
1,2-Dichloroethane	ND	0.405	"								
1,2-Dichloropropane	ND	0.462	"								
1,2-Dichlorotetrafluoroethane	ND	0.699	"								
1,3,5-Trimethylbenzene	ND	0.492	"								
1,3-Butadiene	ND	0.664	"								
1,3-Dichlorobenzene	ND	0.601	"								
1,3-Dichloropropane	ND	0.462	"								
1,4-Dichlorobenzene	ND	0.601	"								
1,4-Dioxane	ND	0.721	"								
2-Butanone	0.826	0.295	"								
2-Hexanone	ND	0.819	"								
3-Chloropropene	ND	1.57	"								
4-Methyl-2-pentanone	ND	0.410	"								
Acetone	ND	0.475	"								
Acrylonitrile	ND	0.217	"								
Benzene	ND	0.319	"								
Benzyl chloride	ND	0.518	"								
Bromodichloromethane	ND	0.670	"								
Bromoform	ND	1.03	"								

Volatile Organic Compounds in Air by GC/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BB41687 - EPA TO15 PREP											
Blank (BB41687-BLK1) Blank									Prepared: 02/23/2024 Analyzed: 02/27/2024		
Bromomethane	ND	0.388	ug/m³								
Carbon disulfide	ND	0.311	"								
Carbon tetrachloride	ND	0.157	"								
Chlorobenzene	ND	0.460	"								
Chloroethane	ND	0.264	"								
Chloroform	ND	0.488	"								
Chloromethane	ND	0.207	"								
cis-1,2-Dichloroethylene	ND	0.198	"								
cis-1,3-Dichloropropylene	ND	0.454	"								
Cyclohexane	ND	0.344	"								
Dibromochloromethane	ND	0.852	"								
Dichlorodifluoromethane	ND	0.495	"								
Ethyl acetate	ND	0.721	"								
Ethyl Benzene	ND	0.434	"								
Hexachlorobutadiene	ND	1.07	"								
Isopropanol	0.811	0.492	"								
Methyl Methacrylate	ND	0.409	"								
Methyl tert-butyl ether (MTBE)	ND	0.361	"								
Methylene chloride	ND	0.695	"								
Naphthalene	ND	1.05	"								
n-Heptane	ND	0.410	"								
n-Hexane	ND	0.352	"								
o-Xylene	ND	0.434	"								
p- & m- Xylenes	ND	0.868	"								
p-Ethyltoluene	ND	0.492	"								
Propylene	ND	0.172	"								
Styrene	ND	0.426	"								
Tetrachloroethylene	ND	0.678	"								
Tetrahydrofuran	ND	0.590	"								
Toluene	ND	0.377	"								
trans-1,2-Dichloroethylene	ND	0.396	"								
trans-1,3-Dichloropropylene	ND	0.454	"								
Trichloroethylene	ND	0.134	"								
Trichlorofluoromethane (Freon 11)	ND	0.562	"								
Vinyl acetate	ND	0.352	"								
Vinyl bromide	ND	0.437	"								
Vinyl Chloride	ND	0.128	"								
Xylenes, Total	ND	1.30	"								

Volatile Organic Compounds in Air by GC/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BB41687 - EPA TO15 PREP											
LCS (BB41687-BS1) LCS								Prepared: 02/23/2024 Analyzed: 02/27/2024			
1,1,1,2-Tetrachloroethane	8.38		ppbv	10.0		83.8	70-130				
1,1,1-Trichloroethane	8.50		"	10.0		85.0	70-130				
1,1,2,2-Tetrachloroethane	8.24		"	10.0		82.4	70-130				
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	8.94		"	10.0		89.4	70-130				
1,1,2-Trichloroethane	8.41		"	10.0		84.1	70-130				
1,1-Dichloroethane	9.01		"	10.0		90.1	70-130				
1,1-Dichloroethylene	8.89		"	10.0		88.9	70-130				
1,2,4-Trichlorobenzene	9.48		"	10.0		94.8	70-130				
1,2,4-Trimethylbenzene	8.56		"	10.0		85.6	70-130				
1,2-Dibromoethane	8.52		"	10.0		85.2	70-130				
1,2-Dichlorobenzene	8.83		"	10.0		88.3	70-130				
1,2-Dichloroethane	8.63		"	10.0		86.3	70-130				
1,2-Dichloropropane	8.39		"	10.0		83.9	70-130				
1,2-Dichlorotetrafluoroethane	8.67		"	10.0		86.7	70-130				
1,3,5-Trimethylbenzene	8.41		"	10.0		84.1	70-130				
1,3-Butadiene	8.28		"	10.0		82.8	70-130				
1,3-Dichlorobenzene	8.73		"	10.0		87.3	70-130				
1,3-Dichloropropane	8.56		"	10.0		85.6	70-130				
1,4-Dichlorobenzene	8.85		"	10.0		88.5	70-130				
1,4-Dioxane	9.07		"	10.0		90.7	70-130				
2-Butanone	7.89		"	10.0		78.9	70-130				
2-Hexanone	8.64		"	10.0		86.4	70-130				
3-Chloropropene	8.10		"	10.0		81.0	70-130				
4-Methyl-2-pentanone	8.45		"	10.0		84.5	70-130				
Acetone	8.09		"	10.0		80.9	70-130				
Acrylonitrile	6.91		"	10.0		69.1	70-130	Low Bias			
Benzene	8.71		"	10.0		87.1	70-130				
Benzyl chloride	9.45		"	10.0		94.5	70-130				
Bromodichloromethane	8.44		"	10.0		84.4	70-130				
Bromoform	9.33		"	10.0		93.3	70-130				
Bromomethane	8.70		"	10.0		87.0	70-130				
Carbon disulfide	9.28		"	10.0		92.8	70-130				
Carbon tetrachloride	9.10		"	10.0		91.0	70-130				
Chlorobenzene	8.31		"	10.0		83.1	70-130				
Chloroethane	8.76		"	10.0		87.6	70-130				
Chloroform	8.74		"	10.0		87.4	70-130				
Chloromethane	6.34		"	10.0		63.4	70-130	Low Bias			
cis-1,2-Dichloroethylene	8.57		"	10.0		85.7	70-130				
cis-1,3-Dichloropropylene	8.39		"	10.0		83.9	70-130				
Cyclohexane	8.65		"	10.0		86.5	70-130				
Dibromochloromethane	9.05		"	10.0		90.5	70-130				
Dichlorodifluoromethane	9.20		"	10.0		92.0	70-130				
Ethyl acetate	8.40		"	10.0		84.0	70-130				
Ethyl Benzene	8.17		"	10.0		81.7	70-130				
Hexachlorobutadiene	9.01		"	10.0		90.1	70-130				
Isopropanol	9.01		"	10.0		90.1	70-130				
Methyl Methacrylate	8.86		"	10.0		88.6	70-130				
Methyl tert-butyl ether (MTBE)	8.76		"	10.0		87.6	70-130				
Methylene chloride	8.30		"	10.0		83.0	70-130				
Naphthalene	8.63		"	10.0		86.3	70-130				
n-Heptane	8.50		"	10.0		85.0	70-130				

Volatile Organic Compounds in Air by GC/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BB41687 - EPA TO15 PREP											
LCS (BB41687-BS1) LCS									Prepared: 02/23/2024 Analyzed: 02/27/2024		
n-Hexane	8.65		ppbv	10.0		86.5	70-130				
o-Xylene	8.19		"	10.0		81.9	70-130				
p- & m- Xylenes	16.8		"	20.0		83.8	70-130				
p-Ethyltoluene	8.45		"	10.0		84.5	70-130				
Propylene	8.01		"	10.0		80.1	70-130				
Styrene	8.58		"	10.0		85.8	70-130				
Tetrachloroethylene	8.55		"	10.0		85.5	70-130				
Tetrahydrofuran	8.44		"	10.0		84.4	70-130				
Toluene	8.13		"	10.0		81.3	70-130				
trans-1,2-Dichloroethylene	8.85		"	10.0		88.5	70-130				
trans-1,3-Dichloropropylene	8.42		"	10.0		84.2	70-130				
Trichloroethylene	8.19		"	10.0		81.9	70-130				
Trichlorofluoromethane (Freon 11)	8.81		"	10.0		88.1	70-130				
Vinyl acetate	8.89		"	10.0		88.9	70-130				
Vinyl bromide	8.57		"	10.0		85.7	70-130				
Vinyl Chloride	7.24		"	10.0		72.4	70-130				
Xylenes, Total	108	1.30	ug/m³								
Duplicate (BB41687-DUP1) Duplicate	*Source sample: 24B1173-05 (Duplicate)								Prepared: 02/23/2024 Analyzed: 02/27/2024		
1,1,1,2-Tetrachloroethane	ND	1.06	ug/m³		ND					25	
1,1,1-Trichloroethane	ND	0.844	"		ND					25	
1,1,2,2-Tetrachloroethane	ND	1.06	"		ND					25	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.18	"		ND					25	
1,1,2-Trichloroethane	1.18	0.844	"		ND					25	
1,1-Dichloroethane	ND	0.626	"		ND					25	
1,1-Dichloroethylene	ND	0.306	"		ND					25	
1,2,4-Trichlorobenzene	ND	1.15	"		ND					25	
1,2,4-Trimethylbenzene	5.85	0.760	"		5.70				2.63	25	
1,2-Dibromoethane	ND	1.19	"		ND					25	
1,2-Dichlorobenzene	ND	0.929	"		ND					25	
1,2-Dichloroethane	ND	0.626	"		ND					25	
1,2-Dichloropropane	ND	0.714	"		ND					25	
1,2-Dichlorotetrafluoroethane	ND	1.08	"		ND					25	
1,3,5-Trimethylbenzene	1.67	0.760	"		1.67				0.00	25	
1,3-Butadiene	ND	1.03	"		ND					25	
1,3-Dichlorobenzene	ND	0.929	"		ND					25	
1,3-Dichloropropane	ND	0.714	"		ND					25	
1,4-Dichlorobenzene	ND	0.929	"		ND					25	
1,4-Dioxane	ND	1.11	"		ND					25	
2-Butanone	37.2	0.456	"		36.7				1.23	25	
2-Hexanone	6.14	1.27	"		6.14				0.00	25	
3-Chloropropene	ND	2.42	"		ND					25	
4-Methyl-2-pentanone	ND	0.633	"		ND					25	
Acetone	18.3	0.734	"		18.3				0.201	25	
Acrylonitrile	ND	0.336	"		ND					25	
Benzene	0.543	0.494	"		0.543				0.00	25	
Benzyl chloride	0.480	0.800	"		ND					25	
Bromodichloromethane	2.07	1.04	"		ND					25	
Bromoform	ND	1.60	"		ND					25	
Bromomethane	ND	0.600	"		ND					25	
Carbon disulfide	2.84	0.481	"		2.84				0.00	25	

Volatile Organic Compounds in Air by GC/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BB41687 - EPA TO15 PREP											
Duplicate (BB41687-DUP1) Duplicate	*Source sample: 24B1173-05 (Duplicate)								Prepared: 02/23/2024 Analyzed: 02/27/2024		
Carbon tetrachloride	ND	0.243	ug/m³		ND					25	
Chlorobenzene	ND	0.712	"		ND					25	
Chloroethane	ND	0.408	"		ND					25	
Chloroform	ND	0.755	"		ND					25	
Chloromethane	ND	0.319	"		ND					25	
cis-1,2-Dichloroethylene	ND	0.306	"		ND					25	
cis-1,3-Dichloropropylene	ND	0.702	"		ND					25	
Cyclohexane	0.745	0.532	"		0.692				7.41	25	
Dibromochloromethane	15.4	1.32	"		ND					25	
Dichlorodifluoromethane	2.14	0.765	"		2.14				0.00	25	
Ethyl acetate	ND	1.11	"		ND					25	
Ethyl Benzene	4.10	0.671	"		4.10				0.00	25	
Hexachlorobutadiene	ND	1.65	"		ND					25	
Isopropanol	ND	0.760	"		ND					25	
Methyl Methacrylate	0.443	0.633	"		ND					25	
Methyl tert-butyl ether (MTBE)	ND	0.557	"		ND					25	
Methylene chloride	ND	1.07	"		ND					25	
Naphthalene	ND	1.62	"		ND					25	
n-Heptane	0.824	0.634	"		0.760				8.00	25	
n-Hexane	0.490	0.545	"		0.545				10.5	25	
o-Xylene	5.10	0.671	"		5.03				1.32	25	
p- & m- Xylenes	14.2	1.34	"		14.0				1.90	25	
p-Ethyltoluene	6.23	0.760	"		6.08				2.47	25	
Propylene	3.27	0.266	"		3.14				4.15	25	
Styrene	0.659	0.659	"		0.659				0.00	25	
Tetrachloroethylene	21.2	1.05	"		20.9				1.50	25	
Tetrahydrofuran	ND	0.912	"		ND					25	
Toluene	3.96	0.583	"		3.90				1.48	25	
trans-1,2-Dichloroethylene	ND	0.613	"		ND					25	
trans-1,3-Dichloropropylene	ND	0.702	"		ND					25	
Trichloroethylene	1.58	0.208	"		1.50				5.41	25	
Trichlorofluoromethane (Freon 11)	1.04	0.869	"		1.04				0.00	25	
Vinyl acetate	ND	0.544	"		ND					25	
Vinyl bromide	ND	0.676	"		ND					25	
Vinyl Chloride	ND	0.198	"		ND					25	
Xylenes, Total	19.3	2.01	"		19.0				1.75	200	

Volatile Organic Compounds in Air by GC/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BB41689 - EPA TO15 PREP											
Blank (BB41689-BLK1) Blank									Prepared: 02/22/2024 Analyzed: 02/23/2024		
1,1,1,2-Tetrachloroethane	ND	0.687	ug/m³								
1,1,1-Trichloroethane	ND	0.546	"								
1,1,2,2-Tetrachloroethane	ND	0.687	"								
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.766	"								
1,1,2-Trichloroethane	ND	0.546	"								
1,1-Dichloroethane	ND	0.405	"								
1,1-Dichloroethylene	ND	0.198	"								
1,2,4-Trichlorobenzene	ND	0.742	"								
1,2,4-Trimethylbenzene	ND	0.492	"								
1,2-Dibromoethane	ND	0.768	"								
1,2-Dichlorobenzene	ND	0.601	"								
1,2-Dichloroethane	ND	0.405	"								
1,2-Dichloropropane	ND	0.462	"								
1,2-Dichlorotetrafluoroethane	ND	0.699	"								
1,3,5-Trimethylbenzene	ND	0.492	"								
1,3-Butadiene	ND	0.664	"								
1,3-Dichlorobenzene	ND	0.601	"								
1,3-Dichloropropane	ND	0.462	"								
1,4-Dichlorobenzene	ND	0.601	"								
1,4-Dioxane	ND	0.721	"								
2-Butanone	ND	0.295	"								
2-Hexanone	ND	0.819	"								
3-Chloropropene	ND	1.57	"								
4-Methyl-2-pentanone	ND	0.410	"								
Acetone	ND	0.475	"								
Acrylonitrile	0.217	0.217	"								
Benzene	ND	0.319	"								
Benzyl chloride	ND	0.518	"								
Bromodichloromethane	ND	0.670	"								
Bromoform	ND	1.03	"								
Bromomethane	ND	0.388	"								
Carbon disulfide	ND	0.311	"								
Carbon tetrachloride	ND	0.157	"								
Chlorobenzene	ND	0.460	"								
Chloroethane	ND	0.264	"								
Chloroform	ND	0.488	"								
Chloromethane	ND	0.207	"								
cis-1,2-Dichloroethylene	ND	0.198	"								
cis-1,3-Dichloropropylene	ND	0.454	"								
Cyclohexane	ND	0.344	"								
Dibromochloromethane	ND	0.852	"								
Dichlorodifluoromethane	ND	0.495	"								
Ethyl acetate	ND	0.721	"								
Ethyl Benzene	ND	0.434	"								
Hexachlorobutadiene	ND	1.07	"								
Isopropanol	ND	0.492	"								
Methyl Methacrylate	ND	0.409	"								
Methyl tert-butyl ether (MTBE)	ND	0.361	"								
Methylene chloride	ND	0.695	"								
Naphthalene	ND	1.05	"								
n-Heptane	ND	0.410	"								

Volatile Organic Compounds in Air by GC/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BB41689 - EPA TO15 PREP											
Blank (BB41689-BLK1) Blank									Prepared: 02/22/2024 Analyzed: 02/23/2024		
n-Hexane	ND	0.352	ug/m³								
o-Xylene	ND	0.434	"								
p- & m- Xylenes	ND	0.868	"								
p-Ethyltoluene	ND	0.492	"								
Propylene	ND	0.172	"								
Styrene	ND	0.426	"								
Tetrachloroethylene	0.678	0.678	"								
Tetrahydrofuran	ND	0.590	"								
Toluene	ND	0.377	"								
trans-1,2-Dichloroethylene	ND	0.396	"								
trans-1,3-Dichloropropylene	ND	0.454	"								
Trichloroethylene	ND	0.134	"								
Trichlorofluoromethane (Freon 11)	ND	0.562	"								
Vinyl acetate	ND	0.352	"								
Vinyl bromide	ND	0.437	"								
Vinyl Chloride	ND	0.128	"								
Xylenes, Total	ND	1.30	"								
LCS (BB41689-BS1) LCS									Prepared: 02/22/2024 Analyzed: 02/23/2024		
1,1,1,2-Tetrachloroethane	9.04		ppbv	10.0		90.4	70-130				
1,1,1-Trichloroethane	8.98		"	10.0		89.8	70-130				
1,1,2,2-Tetrachloroethane	8.90		"	10.0		89.0	70-130				
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	9.40		"	10.0		94.0	70-130				
1,1,2-Trichloroethane	9.03		"	10.0		90.3	70-130				
1,1-Dichloroethane	9.59		"	10.0		95.9	70-130				
1,1-Dichloroethylene	9.47		"	10.0		94.7	70-130				
1,2,4-Trichlorobenzene	10.1		"	10.0		101	70-130				
1,2,4-Trimethylbenzene	9.17		"	10.0		91.7	70-130				
1,2-Dibromoethane	9.20		"	10.0		92.0	70-130				
1,2-Dichlorobenzene	9.30		"	10.0		93.0	70-130				
1,2-Dichloroethane	9.06		"	10.0		90.6	70-130				
1,2-Dichloropropane	9.09		"	10.0		90.9	70-130				
1,2-Dichlorotetrafluoroethane	9.84		"	10.0		98.4	70-130				
1,3,5-Trimethylbenzene	9.27		"	10.0		92.7	70-130				
1,3-Butadiene	9.02		"	10.0		90.2	70-130				
1,3-Dichlorobenzene	9.21		"	10.0		92.1	70-130				
1,3-Dichloropropane	9.20		"	10.0		92.0	70-130				
1,4-Dichlorobenzene	9.36		"	10.0		93.6	70-130				
1,4-Dioxane	9.60		"	10.0		96.0	70-130				
2-Butanone	8.54		"	10.0		85.4	70-130				
2-Hexanone	9.56		"	10.0		95.6	70-130				
3-Chloropropene	8.95		"	10.0		89.5	70-130				
4-Methyl-2-pentanone	9.29		"	10.0		92.9	70-130				
Acetone	9.22		"	10.0		92.2	70-130				
Acrylonitrile	8.72		"	10.0		87.2	70-130				
Benzene	9.24		"	10.0		92.4	70-130				
Benzyl chloride	10.2		"	10.0		102	70-130				
Bromodichloromethane	9.07		"	10.0		90.7	70-130				
Bromoform	10.1		"	10.0		101	70-130				
Bromomethane	9.20		"	10.0		92.0	70-130				
Carbon disulfide	9.80		"	10.0		98.0	70-130				

Volatile Organic Compounds in Air by GC/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BB41689 - EPA TO15 PREP											
LCS (BB41689-BS1) LCS									Prepared: 02/22/2024 Analyzed: 02/23/2024		
Carbon tetrachloride	9.43		ppbv	10.0		94.3	70-130				
Chlorobenzene	9.09		"	10.0		90.9	70-130				
Chloroethane	9.33		"	10.0		93.3	70-130				
Chloroform	9.19		"	10.0		91.9	70-130				
Chloromethane	8.45		"	10.0		84.5	70-130				
cis-1,2-Dichloroethylene	9.19		"	10.0		91.9	70-130				
cis-1,3-Dichloropropylene	9.05		"	10.0		90.5	70-130				
Cyclohexane	9.29		"	10.0		92.9	70-130				
Dibromochloromethane	9.79		"	10.0		97.9	70-130				
Dichlorodifluoromethane	9.21		"	10.0		92.1	70-130				
Ethyl acetate	9.10		"	10.0		91.0	70-130				
Ethyl Benzene	8.92		"	10.0		89.2	70-130				
Hexachlorobutadiene	9.36		"	10.0		93.6	70-130				
Isopropanol	10.1		"	10.0		101	70-130				
Methyl Methacrylate	9.64		"	10.0		96.4	70-130				
Methyl tert-butyl ether (MTBE)	9.24		"	10.0		92.4	70-130				
Methylene chloride	8.88		"	10.0		88.8	70-130				
Naphthalene	9.20		"	10.0		92.0	70-130				
n-Heptane	9.36		"	10.0		93.6	70-130				
n-Hexane	9.32		"	10.0		93.2	70-130				
o-Xylene	9.00		"	10.0		90.0	70-130				
p- & m- Xylenes	18.4		"	20.0		91.8	70-130				
p-Ethyltoluene	8.97		"	10.0		89.7	70-130				
Propylene	8.58		"	10.0		85.8	70-130				
Styrene	9.39		"	10.0		93.9	70-130				
Tetrachloroethylene	9.12		"	10.0		91.2	70-130				
Tetrahydrofuran	9.09		"	10.0		90.9	70-130				
Toluene	8.74		"	10.0		87.4	70-130				
trans-1,2-Dichloroethylene	9.42		"	10.0		94.2	70-130				
trans-1,3-Dichloropropylene	9.08		"	10.0		90.8	70-130				
Trichloroethylene	8.75		"	10.0		87.5	70-130				
Trichlorofluoromethane (Freon 11)	9.16		"	10.0		91.6	70-130				
Vinyl acetate	10.0		"	10.0		100	70-130				
Vinyl bromide	9.09		"	10.0		90.9	70-130				
Vinyl Chloride	9.06		"	10.0		90.6	70-130				
Xylenes, Total	119	1.30	ug/m³								

Volatile Organic Compounds in Air by GC/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BB41689 - EPA TO15 PREP											
Duplicate (BB41689-DUP1) Duplicate	*Source sample: 24B0852-05 (Duplicate)								Prepared: 02/22/2024 Analyzed: 02/23/2024		
1,1,1,2-Tetrachloroethane	ND	1.27	ug/m³		ND					25	
1,1,1-Trichloroethane	ND	1.01	"		ND					25	
1,1,2,2-Tetrachloroethane	ND	1.27	"		ND					25	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.42	"		ND					25	
1,1,2-Trichloroethane	ND	1.01	"		ND					25	
1,1-Dichloroethane	ND	0.748	"		ND					25	
1,1-Dichloroethylene	ND	0.366	"		ND					25	
1,2,4-Trichlorobenzene	ND	1.37	"		ND					25	
1,2,4-Trimethylbenzene	ND	0.908	"		ND					25	
1,2-Dibromoethane	ND	1.42	"		ND					25	
1,2-Dichlorobenzene	ND	1.11	"		ND					25	
1,2-Dichloroethane	ND	0.748	"		ND					25	
1,2-Dichloropropane	ND	0.854	"		ND					25	
1,2-Dichlorotetrafluoroethane	ND	1.29	"		ND					25	
1,3,5-Trimethylbenzene	ND	0.909	"		ND					25	
1,3-Butadiene	ND	1.23	"		ND					25	
1,3-Dichlorobenzene	ND	1.11	"		ND					25	
1,3-Dichloropropane	ND	0.854	"		ND					25	
1,4-Dichlorobenzene	ND	1.11	"		ND					25	
1,4-Dioxane	ND	1.33	"		ND					25	
2-Butanone	4.09	0.545	"		8.94				74.5	25	Non-dir.
2-Hexanone	ND	1.51	"		ND					25	
3-Chloropropene	ND	2.89	"		ND					25	
4-Methyl-2-pentanone	ND	0.757	"		ND					25	
Acetone	10.5	0.878	"		11.9				12.5	25	
Acrylonitrile	0.642	0.401	"		0.521				20.7	25	
Benzene	0.767	0.590	"		0.767				0.00	25	
Benzyl chloride	ND	0.957	"		ND					25	
Bromodichloromethane	ND	1.24	"		ND					25	
Bromoform	ND	1.91	"		ND					25	
Bromomethane	ND	0.718	"		ND					25	
Carbon disulfide	ND	0.575	"		ND					25	
Carbon tetrachloride	ND	0.291	"		ND					25	
Chlorobenzene	ND	0.851	"		ND					25	
Chloroethane	ND	0.488	"		ND					25	
Chloroform	ND	0.902	"		ND					25	
Chloromethane	1.07	0.382	"		1.11				3.51	25	
cis-1,2-Dichloroethylene	ND	0.366	"		ND					25	
cis-1,3-Dichloropropylene	ND	0.839	"		ND					25	
Cyclohexane	ND	0.636	"		ND					25	
Dibromochloromethane	ND	1.57	"		ND					25	
Dichlorodifluoromethane	2.28	0.914	"		2.38				3.92	25	
Ethyl acetate	ND	1.33	"		ND					25	
Ethyl Benzene	ND	0.802	"		ND					25	
Hexachlorobutadiene	ND	1.97	"		ND					25	
Isopropanol	3.54	0.909	"		3.59				1.27	25	
Methyl Methacrylate	ND	0.757	"		ND					25	
Methyl tert-butyl ether (MTBE)	ND	0.666	"		ND					25	
Methylene chloride	ND	1.28	"		0.514					25	
Naphthalene	ND	1.94	"		ND					25	
n-Heptane	ND	0.757	"		ND					25	

Volatile Organic Compounds in Air by GC/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BB41689 - EPA TO15 PREP											
Duplicate (BB41689-DUP1) Duplicate	*Source sample: 24B0852-05 (Duplicate)								Prepared: 02/22/2024 Analyzed: 02/23/2024		
n-Hexane	ND	0.651	ug/m³		ND					25	
o-Xylene	0.401	0.802	"		0.481				18.2	25	
p- & m- Xylenes	ND	1.60	"		1.20					25	
p-Ethyltoluene	ND	0.909	"		ND					25	
Propylene	ND	0.318	"		ND					25	
Styrene	ND	0.787	"		ND					25	
Tetrachloroethylene	ND	1.25	"		ND					25	
Tetrahydrofuran	4.58	1.09	"		10.1				75.1	25	Non-dir.
Toluene	1.46	0.696	"		1.53				4.65	25	
trans-1,2-Dichloroethylene	ND	0.733	"		ND					25	
trans-1,3-Dichloropropylene	ND	0.839	"		ND					25	
Trichloroethylene	ND	0.248	"		ND					25	
Trichlorofluoromethane (Freon 11)	1.25	1.04	"		1.45				15.4	25	
Vinyl acetate	ND	0.651	"		ND					25	
Vinyl bromide	ND	0.808	"		ND					25	
Vinyl Chloride	ND	0.236	"		ND					25	
Xylenes, Total	1.52	2.41	"		1.69				10.0	200	

Sample and Data Qualifiers Relating to This Work Order

TO-LCS-L	The result reported for this compound may be biased low due to its behavior in the analysis batch LCS where it recovered less 70% of the expected value.
TO-CCV	The value reported is ESTIMATED for this compound due to its behavior during continuing calibration verification (>30% Difference from initial calibration).
B	Analyte is found in the associated analysis batch blank. For volatiles, methylene chloride and acetone are common lab contaminants.

Definitions and Other Explanations

*	Analyte is not certified or the state of the samples origination does not offer certification for the Analyte.
ND	NOT DETECTED - the analyte is not detected at the Reported to level (LOQ/RL or LOD/MDL)
RL	REPORTING LIMIT - the minimum reportable value based upon the lowest point in the analyte calibration curve.
LOQ	LIMIT OF QUANTITATION - the minimum concentration of a target analyte that can be reported within a specified degree of confidence. This is the lowest point in an analyte calibration curve that has been subjected to all steps of the processing/analysis and verified to meet defined criteria. This is based upon NELAC 2009 Standards and applies to all analyses.
LOD	LIMIT OF DETECTION - a verified estimate of the minimum concentration of a substance in a given matrix that an analytical process can reliably detect. This is based upon NELAC 2009 Standards and applies to all analyses conducted under the auspices of EPA SW-846.
MDL	METHOD DETECTION LIMIT - a statistically derived estimate of the minimum amount of a substance an analytical system can reliably detect with a 99% confidence that the concentration of the substance is greater than zero. This is based upon 40 CFR Part 136 Appendix B and applies only to EPA 600 and 200 series methods.
Reported to	This indicates that the data for a particular analysis is reported to either the LOD/MDL, or the LOQ/RL. In cases where the "Reported to" is located above the LOD/MDL, any value between this and the LOQ represents an estimated value which is "J" flagged accordingly. This applies to volatile and semi-volatile target compounds only.
NR	Not reported
RPD	Relative Percent Difference
Wet	The data has been reported on an as-received (wet weight) basis
Low Bias	Low Bias flag indicates that the recovery of the flagged analyte is below the laboratory or regulatory lower control limit. The data user should take note that this analyte may be biased low but should evaluate multiple lines of evidence including the LCS and site-specific MS/MSD data to draw bias conclusions. In cases where no site-specific MS/MSD was requested, only the LCS data can be used to evaluate such bias.
High Bias	High Bias flag indicates that the recovery of the flagged analyte is above the laboratory or regulatory upper control limit. The data user should take note that this analyte may be biased high but should evaluate multiple lines of evidence including the LCS and site-specific MS/MSD data to draw bias conclusions. In cases where no site-specific MS/MSD was requested, only the LCS data can be used to evaluate such bias.
Non-Dir.	Non-dir. flag (Non-Directional Bias) indicates that the Relative Percent Difference (RPD) (a measure of precision) among the MS and MSD data is outside the laboratory or regulatory control limit. This alerts the data user where the MS and MSD are from site-specific samples that the RPD is high due to either non-homogeneous distribution of target analyte between the MS/MSD or indicates poor reproducibility for other reasons.

If EPA SW-846 method 8270 is included herein it is noted that the target compound N-nitrosodiphenylamine (NDPA) decomposes in the gas chromatographic inlet and cannot be separated from diphenylamine (DPA). These results could actually represent 100% DPA, 100% NDPA or some combination of the two. For this reason, York reports the combined result for n-nitrosodiphenylamine and diphenylamine for either of these compounds as a combined concentration as Diphenylamine.

If Total PCBs are detected and the target aroclors reported are "Not detected", the Total PCB value is reported due to the presence of either or both Aroclors 1262 and 1268 which are non-target aroclors for some regulatory lists.

2-chloroethylvinyl ether readily breaks down under acidic conditions. Samples that are acid preserved, including standards will exhibit breakdown. The data user should take note.

Certification for pH is no longer offered by NYDOH ELAP.

Semi-Volatile and Volatile analyses are reported down to the LOD/MDL, with values between the LOD/MDL and the LOQ being "J" flagged as estimated results.

For analyses by EPA SW-846-8270D, the Limit of Quantitation (LOQ) reported for benzidine is based upon the lowest standard used for calibration and is not a verified LOQ due to this compound's propensity for oxidative losses during extraction/concentration procedures and non-reproducible chromatographic performance.

Revision Description: This report has been revised to include Total Xylenes and Naphthalene in Samples and QC.

York Analytical Laboratories, Inc.
120 Research Drive, Stratford, CT 06615 | 132-02 89th Ave Queens, NY 11418
clientservices@yorklab.com
www.yorklab.com

Field Chain-of-Custody Record - AIR

NOTE: YORK's Standard Terms & Conditions are listed on the back side of this document. This document serves as your written authorization for YORK to proceed with the analyses requested below. Your signature binds you to YORK's Standard Terms & Conditions.

YORK Project No. 24B1051

YOUR Information	Report To:	Invoice To:
Company: 360 W. 31st St.	LANGAN Company:	Company:
Address: 8th fl New York, NY 10001	Address:	Address:
Phone.: 212-479-5400	Phone.:	Phone.:
Contact: Andrew Nesci	Contact:	Contact:
E-mail: ANESCI@LANGAN.COM	E-mail:	E-mail:

YOUR Project Number: 170340203

YOUR Project Name: ABC Block 26

YOUR PO#:

Turn-Around Time

RUSH - Next Day	
RUSH - Two Day	
RUSH - Three Day	
RUSH - Four Day	
Standard (5-7 Day)	X

Please print clearly and legibly. All information must be complete. Samples will not be logged in and the turn-around-time clock will not begin until any questions by YORK are resolved.

Roswell Lo

Samples Collected by: (print your name above and sign below)

Air Matrix Codes

AI - Indoor Ambient Air
AO - Outdoor Amb. Air
AE - Vapor Extraction Well/ Process Gas/Effluent
AS - Soil Vapor/Sub-Slab

Samples From

New York X
New Jersey
Connecticut
Pennsylvania
Other

Report / EDD Type (circle selections)

Summary Report	CT RCP	Standard Excel EDD
QA Report	CT RCP DQA/DUE	EQuIS (Standard)
NY ASP A Package	NJDEP Reduced Deliv.	NYSDEC EQuIS
NY ASP B Package	NJDKQP	NJDEP SRP HazSite
Other:		

YORK Reg. Comp.

Compared to the following Regulation(s): (please fill in)

Certified Canisters: Batch ___ Individual V

Please enter the following REQUIRED Field Data

Reporting Units: ug/m³ ___ ppbv ___ ppmv ___

Sample Identification	Date/Time Sampled	Air Matrix	Canister Vacuum Before Sampling (in Hg)	Canister Vacuum After Sampling (in Hg)	Canister ID	Flow Cont. ID	Analysis Requested
~~C241174-[illegible]~~							
C241174_AA02_021724	2/17/24 16:23	AO	-30.0	-8.0	48294	7305	TO-15 VOCs
C241174-LR-W01_MW30D_02	17/24 2/17/24 16:24	AI	-34.0	-9.0	~~16976~~ R1	~~6877~~ R1	↓
C241174-LR-IA02-MW34D-021724	2/17/24 16:26	AI	-34.0	-10.0	15522	17190	

Comments: Also copy: DATAMANAGEMENT@LANGAN.COM GWYKA@LANGAN.COM

Detection Limits Required

≤ 1 ug/m³ ___ NYSDEC V1 Limits ___
Routine Survey ___ Other ___

Sampling Media

6 Liter Canister V
Tedlar Bag

Samples Relinquished by / Company	Date/Time	Samples Received by / Company	Date/Time	Samples Relinquished by / Company	Date/Time
Roswell Lo / Langan	2/17/24 17:30	Marcel York	2.20.24 8:31	Marcel York	2.20.24
Samples Received by / Company	Date/Time	Samples Relinquished by / Company	Date/Time	Samples Received by / Company	Date/Time
Samples Relinquished by / Company	Date/Time	Samples Received by / Company	Date/Time	Samples Received in LAB by	Date/Time
				[illegible]	02/21/24 1204

Technical Report

prepared for:

Langan Engineering & Environmental Services (NYC)
21 Penn Plaza, 360 West 31st Street
New York NY, 10001
Attention: Greg Wyka

Report Date: 04/11/2024
Client Project ID: 170340203
York Project (SDG) No.: 24B0261

Revision No. 2.0

CT Cert. No. PH-0723 New Jersey Cert. No. CT005 and NY037 New York Cert. Nos. 10854 and 12058 PA Cert. No. 68-04440

120 RESEARCH DRIVE STRATFORD, CT 06615 ■ 132-02 89th AVENUE RICHMOND HILL, NY 11418
www.YORKLAB.com (203) 325-1371 FAX (203) 357-0166 ClientServices@yorklab.com

Report Date: 04/11/2024
Client Project ID: 170340203
York Project (SDG) No.: 24B0261

Langan Engineering & Environmental Services (NYC)
21 Penn Plaza, 360 West 31st Street
New York NY, 10001
Attention: Greg Wyka

Purpose and Results

This report contains the analytical data for the sample(s) identified on the attached chain-of-custody received in our laboratory on February 06, 2024 and listed below. The project was identified as your project: **170340203**.

The analyses were conducted utilizing appropriate EPA, Standard Methods, and ASTM methods as detailed in the data summary tables.

All samples were received in proper condition meeting the customary acceptance requirements for environmental samples except those indicated under the Sample and Analysis Qualifiers section of this report.

All analyses met the method and laboratory standard operating procedure requirements except as indicated by any data flags, the meaning of which are explained in the Sample and Data Qualifiers Relating to This Work Order section of this report and case narrative if applicable.

The results of the analyses, which are all reported on dry weight basis (soils) unless otherwise noted, are detailed in the following pages.

Please contact Client Services at 203.325.1371 with any questions regarding this report.

York Sample ID	Client Sample ID	Matrix	Date Collected	Date Received
24B0261-01	CAN 20665 / FC 13559	Air	02/06/2024	02/06/2024
24B0261-02	CAN 28841 / FC 16424	Air	02/06/2024	02/06/2024
24B0261-04	CAN 41844 / FC 19410	Air	02/06/2024	02/06/2024
24B0667-01	C241174_BL-IA01_MW30D_021024	Indoor Ambient Air	02/10/2024	02/12/2024
24B0667-02	C241174_BL-IA02_MW34D_021024	Indoor Ambient Air	02/10/2024	02/12/2024
24B0667-03	C241174_AA01_021024	Outdoor Ambient Ai	02/10/2024	02/12/2024

General Notes for York Project (SDG) No.: 24B0261

1. The RLs and MDLs (Reporting Limit and Method Detection Limit respectively) reported are adjusted for any dilution necessary due to the levels of target and/or non-target analytes and matrix interference. The RL(REPORTING LIMIT) is based upon the lowest standard utilized for the calibration where applicable.
2. Samples are retained for a period of thirty days after submittal of report, unless other arrangements are made.
3. York's liability for the above data is limited to the dollar value paid to York for the referenced project.
4. This report shall not be reproduced without the written approval of York Analytical Laboratories, Inc.
5. All analyses conducted met method or Laboratory SOP requirements. See the Sample and Data Qualifiers Section for further information.
6. It is noted that no analyses reported herein were subcontracted to another laboratory, unless noted in the report.
7. This report reflects results that relate only to the samples submitted on the attached chain-of-custody form(s) received by York.
8. Analyses conducted at York Analytical Laboratories, Inc. Stratford, CT are indicated by NY Cert. No. 10854; those conducted at York Analytical Laboratories, Inc., Richmond Hill, NY are indicated by NY Cert. No. 12058.

Approved By  **Date:** 04/11/2024

Cassie L. Mosher
Laboratory Manager

Sample Information

Client Sample ID: CAN 20665 / FC 13559 **York Sample ID:** 24B0261-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
24B0261	170340203	Air	February 6, 2024 11:04 am	02/06/2024

VOA, TO15 MASTER

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	* 1,1,1,2-Tetrachloroethane	ND		ug/m³	0.687	1	EPA TO-15	02/08/2024 09:00	02/09/2024 04:52	VH
							Certifications:			
71-55-6	1,1,1-Trichloroethane	ND		ug/m³	0.546	1	EPA TO-15	02/08/2024 09:00	02/09/2024 04:52	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/m³	0.687	1	EPA TO-15	02/08/2024 09:00	02/09/2024 04:52	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/m³	0.766	1	EPA TO-15	02/08/2024 09:00	02/09/2024 04:52	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
79-00-5	1,1,2-Trichloroethane	ND		ug/m³	0.546	1	EPA TO-15	02/08/2024 09:00	02/09/2024 04:52	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
75-34-3	1,1-Dichloroethane	ND		ug/m³	0.405	1	EPA TO-15	02/08/2024 09:00	02/09/2024 04:52	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
75-35-4	1,1-Dichloroethylene	ND		ug/m³	0.198	1	EPA TO-15	02/08/2024 09:00	02/09/2024 04:52	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
120-82-1	1,2,4-Trichlorobenzene	ND		ug/m³	0.742	1	EPA TO-15	02/08/2024 09:00	02/09/2024 04:52	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
95-63-6	1,2,4-Trimethylbenzene	ND		ug/m³	0.492	1	EPA TO-15	02/08/2024 09:00	02/09/2024 04:52	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
106-93-4	1,2-Dibromoethane	ND		ug/m³	0.768	1	EPA TO-15	02/08/2024 09:00	02/09/2024 04:52	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
95-50-1	1,2-Dichlorobenzene	ND		ug/m³	0.601	1	EPA TO-15	02/08/2024 09:00	02/09/2024 04:52	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
107-06-2	1,2-Dichloroethane	ND		ug/m³	0.405	1	EPA TO-15	02/08/2024 09:00	02/09/2024 04:52	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
78-87-5	1,2-Dichloropropane	ND		ug/m³	0.462	1	EPA TO-15	02/08/2024 09:00	02/09/2024 04:52	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
76-14-2	1,2-Dichlorotetrafluoroethane	ND		ug/m³	0.699	1	EPA TO-15	02/08/2024 09:00	02/09/2024 04:52	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
108-67-8	1,3,5-Trimethylbenzene	ND		ug/m³	0.492	1	EPA TO-15	02/08/2024 09:00	02/09/2024 04:52	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
106-99-0	1,3-Butadiene	ND		ug/m³	0.664	1	EPA TO-15	02/08/2024 09:00	02/09/2024 04:52	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
541-73-1	1,3-Dichlorobenzene	ND		ug/m³	0.601	1	EPA TO-15	02/08/2024 09:00	02/09/2024 04:52	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
142-28-9	* 1,3-Dichloropropane	ND		ug/m³	0.462	1	EPA TO-15	02/08/2024 09:00	02/09/2024 04:52	VH
							Certifications:			
106-46-7	1,4-Dichlorobenzene	ND		ug/m³	0.601	1	EPA TO-15	02/08/2024 09:00	02/09/2024 04:52	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
123-91-1	1,4-Dioxane	ND		ug/m³	0.721	1	EPA TO-15	02/08/2024 09:00	02/09/2024 04:52	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
78-93-3	2-Butanone	ND		ug/m³	0.295	1	EPA TO-15	02/08/2024 09:00	02/09/2024 04:52	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		

Sample Information

Client Sample ID: CAN 20665 / FC 13559 **York Sample ID:** 24B0261-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
24B0261	170340203	Air	February 6, 2024 11:04 am	02/06/2024

VOA, TO15 MASTER

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
591-78-6	* 2-Hexanone	ND		ug/m³	0.819	1	EPA TO-15	02/08/2024 09:00	02/09/2024 04:52	VH
							Certifications:			
107-05-1	3-Chloropropene	ND		ug/m³	1.57	1	EPA TO-15	02/08/2024 09:00	02/09/2024 04:52	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
108-10-1	4-Methyl-2-pentanone	ND		ug/m³	0.410	1	EPA TO-15	02/08/2024 09:00	02/09/2024 04:52	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
67-64-1	Acetone	ND		ug/m³	0.475	1	EPA TO-15	02/08/2024 09:00	02/09/2024 04:52	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
107-13-1	Acrylonitrile	ND		ug/m³	0.434	1	EPA TO-15	02/08/2024 09:00	02/09/2024 04:52	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
71-43-2	Benzene	ND		ug/m³	0.319	1	EPA TO-15	02/08/2024 09:00	02/09/2024 04:52	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
100-44-7	Benzyl chloride	ND		ug/m³	0.518	1	EPA TO-15	02/08/2024 09:00	02/09/2024 04:52	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
75-27-4	Bromodichloromethane	ND		ug/m³	0.670	1	EPA TO-15	02/08/2024 09:00	02/09/2024 04:52	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
75-25-2	Bromoform	ND		ug/m³	1.03	1	EPA TO-15	02/08/2024 09:00	02/09/2024 04:52	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
74-83-9	Bromomethane	ND		ug/m³	0.388	1	EPA TO-15	02/08/2024 09:00	02/09/2024 04:52	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
75-15-0	Carbon disulfide	ND		ug/m³	0.311	1	EPA TO-15	02/08/2024 09:00	02/09/2024 04:52	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
56-23-5	Carbon tetrachloride	ND		ug/m³	0.157	1	EPA TO-15	02/08/2024 09:00	02/09/2024 04:52	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
108-90-7	Chlorobenzene	ND		ug/m³	0.460	1	EPA TO-15	02/08/2024 09:00	02/09/2024 04:52	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
75-00-3	Chloroethane	ND		ug/m³	0.264	1	EPA TO-15	02/08/2024 09:00	02/09/2024 04:52	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
67-66-3	Chloroform	ND		ug/m³	0.488	1	EPA TO-15	02/08/2024 09:00	02/09/2024 04:52	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
74-87-3	Chloromethane	ND		ug/m³	0.207	1	EPA TO-15	02/08/2024 09:00	02/09/2024 04:52	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
156-59-2	cis-1,2-Dichloroethylene	ND		ug/m³	0.198	1	EPA TO-15	02/08/2024 09:00	02/09/2024 04:52	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/m³	0.454	1	EPA TO-15	02/08/2024 09:00	02/09/2024 04:52	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
110-82-7	Cyclohexane	ND		ug/m³	0.344	1	EPA TO-15	02/08/2024 09:00	02/09/2024 04:52	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
124-48-1	Dibromochloromethane	ND		ug/m³	0.852	1	EPA TO-15	02/08/2024 09:00	02/09/2024 04:52	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
75-71-8	Dichlorodifluoromethane	ND		ug/m³	0.495	1	EPA TO-15	02/08/2024 09:00	02/09/2024 04:52	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
141-78-6	* Ethyl acetate	ND		ug/m³	0.721	1	EPA TO-15	02/08/2024 09:00	02/09/2024 04:52	VH
							Certifications:			

Sample Information

Client Sample ID: CAN 20665 / FC 13559 **York Sample ID:** 24B0261-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
24B0261	170340203	Air	February 6, 2024 11:04 am	02/06/2024

VOA, TO15 MASTER

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
100-41-4	Ethyl Benzene	ND		ug/m³	0.434	1	EPA TO-15	02/08/2024 09:00	02/09/2024 04:52	VH
							Certifications: NELAC-NY12058,NJDEP-NY037			
87-68-3	Hexachlorobutadiene	ND		ug/m³	1.07	1	EPA TO-15	02/08/2024 09:00	02/09/2024 04:52	VH
							Certifications: NELAC-NY12058,NJDEP-NY037			
67-63-0	Isopropanol	ND		ug/m³	1.23	1	EPA TO-15	02/08/2024 09:00	02/09/2024 04:52	VH
							Certifications: NELAC-NY12058,NJDEP-NY037			
80-62-6	Methyl Methacrylate	ND		ug/m³	0.409	1	EPA TO-15	02/08/2024 09:00	02/09/2024 04:52	VH
							Certifications: NELAC-NY12058,NJDEP-NY037			
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/m³	0.361	1	EPA TO-15	02/08/2024 09:00	02/09/2024 04:52	VH
							Certifications: NELAC-NY12058,NJDEP-NY037			
75-09-2	Methylene chloride	ND		ug/m³	0.695	1	EPA TO-15	02/08/2024 09:00	02/09/2024 04:52	VH
							Certifications: NELAC-NY12058,NJDEP-NY037			
91-20-3	* Naphthalene	ND		ug/m³	1.05	1	EPA TO-15	02/08/2024 09:00	02/09/2024 04:52	VH
							Certifications: NJDEP-NY037			
142-82-5	n-Heptane	ND		ug/m³	0.410	1	EPA TO-15	02/08/2024 09:00	02/09/2024 04:52	VH
							Certifications: NELAC-NY12058,NJDEP-NY037			
110-54-3	n-Hexane	ND		ug/m³	0.352	1	EPA TO-15	02/08/2024 09:00	02/09/2024 04:52	VH
							Certifications: NELAC-NY12058,NJDEP-NY037			
95-47-6	o-Xylene	ND		ug/m³	0.434	1	EPA TO-15	02/08/2024 09:00	02/09/2024 04:52	VH
							Certifications: NELAC-NY12058,NJDEP-NY037			
179601-23-1	p- & m- Xylenes	ND		ug/m³	0.868	1	EPA TO-15	02/08/2024 09:00	02/09/2024 04:52	VH
							Certifications: NELAC-NY12058,NJDEP-NY037			
622-96-8	* p-Ethyltoluene	ND		ug/m³	0.492	1	EPA TO-15	02/08/2024 09:00	02/09/2024 04:52	VH
							Certifications:			
115-07-1	* Propylene	ND		ug/m³	0.172	1	EPA TO-15	02/08/2024 09:00	02/09/2024 04:52	VH
							Certifications:			
100-42-5	Styrene	ND		ug/m³	0.426	1	EPA TO-15	02/08/2024 09:00	02/09/2024 04:52	VH
							Certifications: NELAC-NY12058,NJDEP-NY037			
127-18-4	Tetrachloroethylene	ND		ug/m³	0.678	1	EPA TO-15	02/08/2024 09:00	02/09/2024 04:52	VH
							Certifications: NELAC-NY12058,NJDEP-NY037			
109-99-9	* Tetrahydrofuran	ND		ug/m³	0.590	1	EPA TO-15	02/08/2024 09:00	02/09/2024 04:52	VH
							Certifications:			
108-88-3	Toluene	ND		ug/m³	0.377	1	EPA TO-15	02/08/2024 09:00	02/09/2024 04:52	VH
							Certifications: NELAC-NY12058,NJDEP-NY037			
156-60-5	trans-1,2-Dichloroethylene	ND		ug/m³	0.396	1	EPA TO-15	02/08/2024 09:00	02/09/2024 04:52	VH
							Certifications: NELAC-NY12058,NJDEP-NY037			
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/m³	0.454	1	EPA TO-15	02/08/2024 09:00	02/09/2024 04:52	VH
							Certifications: NELAC-NY12058,NJDEP-NY037			
79-01-6	Trichloroethylene	ND		ug/m³	0.134	1	EPA TO-15	02/08/2024 09:00	02/09/2024 04:52	VH
							Certifications: NELAC-NY12058,NJDEP-NY037			
75-69-4	Trichlorofluoromethane (Freon 11)	ND		ug/m³	0.562	1	EPA TO-15	02/08/2024 09:00	02/09/2024 04:52	VH
							Certifications: NELAC-NY12058,NJDEP-NY037			
108-05-4	Vinyl acetate	ND		ug/m³	0.352	1	EPA TO-15	02/08/2024 09:00	02/09/2024 04:52	VH
							Certifications: NELAC-NY12058,NJDEP-NY037			

Sample Information

Client Sample ID: CAN 20665 / FC 13559 **York Sample ID:** 24B0261-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
24B0261	170340203	Air	February 6, 2024 11:04 am	02/06/2024

VOA, TO15 MASTER

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
593-60-2	Vinyl bromide	ND		ug/m³	0.437	1	EPA TO-15	02/08/2024 09:00	02/09/2024 04:52	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
75-01-4	Vinyl Chloride	ND		ug/m³	0.128	1	EPA TO-15	02/08/2024 09:00	02/09/2024 04:52	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
1330-20-7	* Xylenes, Total	ND		ug/m³	1.30	1	EPA TO-15	02/08/2024 09:00	02/09/2024 04:52	VH
							Certifications:			

Sample Information

Client Sample ID: CAN 28841 / FC 16424 **York Sample ID:** 24B0261-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
24B0261	170340203	Air	February 6, 2024 11:04 am	02/06/2024

VOA, TO15 MASTER

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	* 1,1,1,2-Tetrachloroethane	ND		ug/m³	0.687	1	EPA TO-15 Certifications:	02/08/2024 09:00	02/09/2024 05:55	VH
71-55-6	1,1,1-Trichloroethane	ND		ug/m³	0.546	1	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	02/08/2024 09:00	02/09/2024 05:55	VH
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/m³	0.687	1	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	02/08/2024 09:00	02/09/2024 05:55	VH
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/m³	0.766	1	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	02/08/2024 09:00	02/09/2024 05:55	VH
79-00-5	1,1,2-Trichloroethane	ND		ug/m³	0.546	1	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	02/08/2024 09:00	02/09/2024 05:55	VH
75-34-3	1,1-Dichloroethane	ND		ug/m³	0.405	1	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	02/08/2024 09:00	02/09/2024 05:55	VH
75-35-4	1,1-Dichloroethylene	ND		ug/m³	0.198	1	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	02/08/2024 09:00	02/09/2024 05:55	VH
120-82-1	1,2,4-Trichlorobenzene	ND		ug/m³	0.742	1	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	02/08/2024 09:00	02/09/2024 05:55	VH
95-63-6	1,2,4-Trimethylbenzene	ND		ug/m³	0.492	1	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	02/08/2024 09:00	02/09/2024 05:55	VH
106-93-4	1,2-Dibromoethane	ND		ug/m³	0.768	1	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	02/08/2024 09:00	02/09/2024 05:55	VH
95-50-1	1,2-Dichlorobenzene	ND		ug/m³	0.601	1	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	02/08/2024 09:00	02/09/2024 05:55	VH
107-06-2	1,2-Dichloroethane	ND		ug/m³	0.405	1	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	02/08/2024 09:00	02/09/2024 05:55	VH
78-87-5	1,2-Dichloropropane	ND		ug/m³	0.462	1	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	02/08/2024 09:00	02/09/2024 05:55	VH
76-14-2	1,2-Dichlorotetrafluoroethane	ND		ug/m³	0.699	1	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	02/08/2024 09:00	02/09/2024 05:55	VH
108-67-8	1,3,5-Trimethylbenzene	ND		ug/m³	0.492	1	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	02/08/2024 09:00	02/09/2024 05:55	VH
106-99-0	1,3-Butadiene	ND		ug/m³	0.664	1	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	02/08/2024 09:00	02/09/2024 05:55	VH
541-73-1	1,3-Dichlorobenzene	ND		ug/m³	0.601	1	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	02/08/2024 09:00	02/09/2024 05:55	VH
142-28-9	* 1,3-Dichloropropane	ND		ug/m³	0.462	1	EPA TO-15 Certifications:	02/08/2024 09:00	02/09/2024 05:55	VH
106-46-7	1,4-Dichlorobenzene	ND		ug/m³	0.601	1	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	02/08/2024 09:00	02/09/2024 05:55	VH
123-91-1	1,4-Dioxane	ND		ug/m³	0.721	1	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	02/08/2024 09:00	02/09/2024 05:55	VH
78-93-3	2-Butanone	ND		ug/m³	0.295	1	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	02/08/2024 09:00	02/09/2024 05:55	VH
591-78-6	* 2-Hexanone	ND		ug/m³	0.819	1	EPA TO-15 Certifications:	02/08/2024 09:00	02/09/2024 05:55	VH

Sample Information

Client Sample ID: CAN 28841 / FC 16424 **York Sample ID:** 24B0261-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
24B0261	170340203	Air	February 6, 2024 11:04 am	02/06/2024

VOA, TO15 MASTER

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
107-05-1	3-Chloropropene	ND		ug/m³	1.57	1	EPA TO-15	02/08/2024 09:00	02/09/2024 05:55	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
108-10-1	4-Methyl-2-pentanone	ND		ug/m³	0.410	1	EPA TO-15	02/08/2024 09:00	02/09/2024 05:55	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
67-64-1	Acetone	ND		ug/m³	0.475	1	EPA TO-15	02/08/2024 09:00	02/09/2024 05:55	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
107-13-1	Acrylonitrile	ND		ug/m³	0.434	1	EPA TO-15	02/08/2024 09:00	02/09/2024 05:55	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
71-43-2	Benzene	ND		ug/m³	0.319	1	EPA TO-15	02/08/2024 09:00	02/09/2024 05:55	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
100-44-7	Benzyl chloride	ND		ug/m³	0.518	1	EPA TO-15	02/08/2024 09:00	02/09/2024 05:55	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
75-27-4	Bromodichloromethane	ND		ug/m³	0.670	1	EPA TO-15	02/08/2024 09:00	02/09/2024 05:55	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
75-25-2	Bromoform	ND		ug/m³	1.03	1	EPA TO-15	02/08/2024 09:00	02/09/2024 05:55	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
74-83-9	Bromomethane	ND		ug/m³	0.388	1	EPA TO-15	02/08/2024 09:00	02/09/2024 05:55	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
75-15-0	Carbon disulfide	ND		ug/m³	0.311	1	EPA TO-15	02/08/2024 09:00	02/09/2024 05:55	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
56-23-5	Carbon tetrachloride	ND		ug/m³	0.157	1	EPA TO-15	02/08/2024 09:00	02/09/2024 05:55	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
108-90-7	Chlorobenzene	ND		ug/m³	0.460	1	EPA TO-15	02/08/2024 09:00	02/09/2024 05:55	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
75-00-3	Chloroethane	ND		ug/m³	0.264	1	EPA TO-15	02/08/2024 09:00	02/09/2024 05:55	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
67-66-3	Chloroform	ND		ug/m³	0.488	1	EPA TO-15	02/08/2024 09:00	02/09/2024 05:55	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
74-87-3	Chloromethane	ND		ug/m³	0.207	1	EPA TO-15	02/08/2024 09:00	02/09/2024 05:55	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
156-59-2	cis-1,2-Dichloroethylene	ND		ug/m³	0.198	1	EPA TO-15	02/08/2024 09:00	02/09/2024 05:55	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/m³	0.454	1	EPA TO-15	02/08/2024 09:00	02/09/2024 05:55	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
110-82-7	Cyclohexane	ND		ug/m³	0.344	1	EPA TO-15	02/08/2024 09:00	02/09/2024 05:55	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
124-48-1	Dibromochloromethane	ND		ug/m³	0.852	1	EPA TO-15	02/08/2024 09:00	02/09/2024 05:55	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
75-71-8	Dichlorodifluoromethane	ND		ug/m³	0.495	1	EPA TO-15	02/08/2024 09:00	02/09/2024 05:55	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
141-78-6	* Ethyl acetate	ND		ug/m³	0.721	1	EPA TO-15	02/08/2024 09:00	02/09/2024 05:55	VH
							Certifications:			
100-41-4	Ethyl Benzene	ND		ug/m³	0.434	1	EPA TO-15	02/08/2024 09:00	02/09/2024 05:55	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		

Sample Information

Client Sample ID: CAN 28841 / FC 16424 **York Sample ID:** 24B0261-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
24B0261	170340203	Air	February 6, 2024 11:04 am	02/06/2024

VOA, TO15 MASTER

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
87-68-3	Hexachlorobutadiene	ND		ug/m³	1.07	1	EPA TO-15	02/08/2024 09:00	02/09/2024 05:55	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
67-63-0	Isopropanol	ND		ug/m³	1.23	1	EPA TO-15	02/08/2024 09:00	02/09/2024 05:55	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
80-62-6	Methyl Methacrylate	ND		ug/m³	0.409	1	EPA TO-15	02/08/2024 09:00	02/09/2024 05:55	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/m³	0.361	1	EPA TO-15	02/08/2024 09:00	02/09/2024 05:55	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
75-09-2	Methylene chloride	ND		ug/m³	0.695	1	EPA TO-15	02/08/2024 09:00	02/09/2024 05:55	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
91-20-3	* Naphthalene	ND		ug/m³	1.05	1	EPA TO-15	02/08/2024 09:00	02/09/2024 05:55	VH
							Certifications:	NJDEP-NY037		
142-82-5	n-Heptane	ND		ug/m³	0.410	1	EPA TO-15	02/08/2024 09:00	02/09/2024 05:55	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
110-54-3	n-Hexane	ND		ug/m³	0.352	1	EPA TO-15	02/08/2024 09:00	02/09/2024 05:55	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
95-47-6	o-Xylene	ND		ug/m³	0.434	1	EPA TO-15	02/08/2024 09:00	02/09/2024 05:55	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
179601-23-1	p- & m- Xylenes	ND		ug/m³	0.868	1	EPA TO-15	02/08/2024 09:00	02/09/2024 05:55	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
622-96-8	* p-Ethyltoluene	ND		ug/m³	0.492	1	EPA TO-15	02/08/2024 09:00	02/09/2024 05:55	VH
							Certifications:			
115-07-1	* Propylene	ND		ug/m³	0.172	1	EPA TO-15	02/08/2024 09:00	02/09/2024 05:55	VH
							Certifications:			
100-42-5	Styrene	ND		ug/m³	0.426	1	EPA TO-15	02/08/2024 09:00	02/09/2024 05:55	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
127-18-4	Tetrachloroethylene	ND		ug/m³	0.678	1	EPA TO-15	02/08/2024 09:00	02/09/2024 05:55	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
109-99-9	* Tetrahydrofuran	ND		ug/m³	0.590	1	EPA TO-15	02/08/2024 09:00	02/09/2024 05:55	VH
							Certifications:			
108-88-3	Toluene	ND		ug/m³	0.377	1	EPA TO-15	02/08/2024 09:00	02/09/2024 05:55	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
156-60-5	trans-1,2-Dichloroethylene	ND		ug/m³	0.396	1	EPA TO-15	02/08/2024 09:00	02/09/2024 05:55	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/m³	0.454	1	EPA TO-15	02/08/2024 09:00	02/09/2024 05:55	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
79-01-6	Trichloroethylene	ND		ug/m³	0.134	1	EPA TO-15	02/08/2024 09:00	02/09/2024 05:55	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
75-69-4	Trichlorofluoromethane (Freon 11)	ND		ug/m³	0.562	1	EPA TO-15	02/08/2024 09:00	02/09/2024 05:55	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
108-05-4	Vinyl acetate	ND		ug/m³	0.352	1	EPA TO-15	02/08/2024 09:00	02/09/2024 05:55	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
593-60-2	Vinyl bromide	ND		ug/m³	0.437	1	EPA TO-15	02/08/2024 09:00	02/09/2024 05:55	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		

Sample Information

Client Sample ID: CAN 28841 / FC 16424 **York Sample ID:** 24B0261-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
24B0261	170340203	Air	February 6, 2024 11:04 am	02/06/2024

VOA, TO15 MASTER

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
75-01-4	Vinyl Chloride	ND		ug/m³	0.128	1	EPA TO-15	02/08/2024 09:00	02/09/2024 05:55	VH
							Certifications: NELAC-NY12058,NJDEP-NY037			
1330-20-7	* Xylenes, Total	ND		ug/m³	1.30	1	EPA TO-15	02/08/2024 09:00	02/09/2024 05:55	VH
							Certifications:			

Sample Information

Client Sample ID: CAN 41844 / FC 19410 **York Sample ID:** 24B0261-04

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
24B0261	170340203	Air	February 6, 2024 11:04 am	02/06/2024

VOA, TO15 MASTER

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	* 1,1,1,2-Tetrachloroethane	ND		ug/m³	0.687	1	EPA TO-15 Certifications:	02/08/2024 09:00	02/09/2024 09:27	VH
71-55-6	1,1,1-Trichloroethane	ND		ug/m³	0.546	1	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	02/08/2024 09:00	02/09/2024 09:27	VH
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/m³	0.687	1	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	02/08/2024 09:00	02/09/2024 09:27	VH
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/m³	0.766	1	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	02/08/2024 09:00	02/09/2024 09:27	VH
79-00-5	1,1,2-Trichloroethane	ND		ug/m³	0.546	1	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	02/08/2024 09:00	02/09/2024 09:27	VH
75-34-3	1,1-Dichloroethane	ND		ug/m³	0.405	1	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	02/08/2024 09:00	02/09/2024 09:27	VH
75-35-4	1,1-Dichloroethylene	ND		ug/m³	0.198	1	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	02/08/2024 09:00	02/09/2024 09:27	VH
120-82-1	1,2,4-Trichlorobenzene	ND		ug/m³	0.742	1	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	02/08/2024 09:00	02/09/2024 09:27	VH
95-63-6	1,2,4-Trimethylbenzene	ND		ug/m³	0.492	1	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	02/08/2024 09:00	02/09/2024 09:27	VH
106-93-4	1,2-Dibromoethane	ND		ug/m³	0.768	1	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	02/08/2024 09:00	02/09/2024 09:27	VH
95-50-1	1,2-Dichlorobenzene	ND		ug/m³	0.601	1	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	02/08/2024 09:00	02/09/2024 09:27	VH
107-06-2	1,2-Dichloroethane	ND		ug/m³	0.405	1	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	02/08/2024 09:00	02/09/2024 09:27	VH
78-87-5	1,2-Dichloropropane	ND		ug/m³	0.462	1	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	02/08/2024 09:00	02/09/2024 09:27	VH
76-14-2	1,2-Dichlorotetrafluoroethane	ND		ug/m³	0.699	1	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	02/08/2024 09:00	02/09/2024 09:27	VH
108-67-8	1,3,5-Trimethylbenzene	ND		ug/m³	0.492	1	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	02/08/2024 09:00	02/09/2024 09:27	VH
106-99-0	1,3-Butadiene	ND		ug/m³	0.664	1	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	02/08/2024 09:00	02/09/2024 09:27	VH
541-73-1	1,3-Dichlorobenzene	ND		ug/m³	0.601	1	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	02/08/2024 09:00	02/09/2024 09:27	VH
142-28-9	* 1,3-Dichloropropane	ND		ug/m³	0.462	1	EPA TO-15 Certifications:	02/08/2024 09:00	02/09/2024 09:27	VH
106-46-7	1,4-Dichlorobenzene	ND		ug/m³	0.601	1	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	02/08/2024 09:00	02/09/2024 09:27	VH
123-91-1	1,4-Dioxane	ND		ug/m³	0.721	1	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	02/08/2024 09:00	02/09/2024 09:27	VH
78-93-3	2-Butanone	ND		ug/m³	0.295	1	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	02/08/2024 09:00	02/09/2024 09:27	VH
591-78-6	* 2-Hexanone	ND		ug/m³	0.819	1	EPA TO-15 Certifications:	02/08/2024 09:00	02/09/2024 09:27	VH

Sample Information

Client Sample ID: CAN 41844 / FC 19410 **York Sample ID:** 24B0261-04

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
24B0261	170340203	Air	February 6, 2024 11:04 am	02/06/2024

VOA, TO15 MASTER

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
107-05-1	3-Chloropropene	ND		ug/m³	1.57	1	EPA TO-15	02/08/2024 09:00	02/09/2024 09:27	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
108-10-1	4-Methyl-2-pentanone	ND		ug/m³	0.410	1	EPA TO-15	02/08/2024 09:00	02/09/2024 09:27	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
67-64-1	Acetone	ND		ug/m³	0.475	1	EPA TO-15	02/08/2024 09:00	02/09/2024 09:27	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
107-13-1	Acrylonitrile	ND		ug/m³	0.434	1	EPA TO-15	02/08/2024 09:00	02/09/2024 09:27	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
71-43-2	Benzene	ND		ug/m³	0.319	1	EPA TO-15	02/08/2024 09:00	02/09/2024 09:27	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
100-44-7	Benzyl chloride	ND		ug/m³	0.518	1	EPA TO-15	02/08/2024 09:00	02/09/2024 09:27	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
75-27-4	Bromodichloromethane	ND		ug/m³	0.670	1	EPA TO-15	02/08/2024 09:00	02/09/2024 09:27	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
75-25-2	Bromoform	ND		ug/m³	1.03	1	EPA TO-15	02/08/2024 09:00	02/09/2024 09:27	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
74-83-9	Bromomethane	ND		ug/m³	0.388	1	EPA TO-15	02/08/2024 09:00	02/09/2024 09:27	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
75-15-0	Carbon disulfide	ND		ug/m³	0.311	1	EPA TO-15	02/08/2024 09:00	02/09/2024 09:27	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
56-23-5	Carbon tetrachloride	ND		ug/m³	0.157	1	EPA TO-15	02/08/2024 09:00	02/09/2024 09:27	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
108-90-7	Chlorobenzene	ND		ug/m³	0.460	1	EPA TO-15	02/08/2024 09:00	02/09/2024 09:27	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
75-00-3	Chloroethane	ND		ug/m³	0.264	1	EPA TO-15	02/08/2024 09:00	02/09/2024 09:27	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
67-66-3	Chloroform	ND		ug/m³	0.488	1	EPA TO-15	02/08/2024 09:00	02/09/2024 09:27	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
74-87-3	Chloromethane	ND		ug/m³	0.207	1	EPA TO-15	02/08/2024 09:00	02/09/2024 09:27	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
156-59-2	cis-1,2-Dichloroethylene	ND		ug/m³	0.198	1	EPA TO-15	02/08/2024 09:00	02/09/2024 09:27	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/m³	0.454	1	EPA TO-15	02/08/2024 09:00	02/09/2024 09:27	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
110-82-7	Cyclohexane	ND		ug/m³	0.344	1	EPA TO-15	02/08/2024 09:00	02/09/2024 09:27	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
124-48-1	Dibromochloromethane	ND		ug/m³	0.852	1	EPA TO-15	02/08/2024 09:00	02/09/2024 09:27	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
75-71-8	Dichlorodifluoromethane	ND		ug/m³	0.495	1	EPA TO-15	02/08/2024 09:00	02/09/2024 09:27	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
141-78-6	* Ethyl acetate	ND		ug/m³	0.721	1	EPA TO-15	02/08/2024 09:00	02/09/2024 09:27	VH
							Certifications:			
100-41-4	Ethyl Benzene	ND		ug/m³	0.434	1	EPA TO-15	02/08/2024 09:00	02/09/2024 09:27	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		

Sample Information

Client Sample ID: CAN 41844 / FC 19410 **York Sample ID:** 24B0261-04

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
24B0261	170340203	Air	February 6, 2024 11:04 am	02/06/2024

VOA, TO15 MASTER

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
87-68-3	Hexachlorobutadiene	ND		ug/m³	1.07	1	EPA TO-15	02/08/2024 09:00	02/09/2024 09:27	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
67-63-0	Isopropanol	ND		ug/m³	1.23	1	EPA TO-15	02/08/2024 09:00	02/09/2024 09:27	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
80-62-6	Methyl Methacrylate	ND		ug/m³	0.409	1	EPA TO-15	02/08/2024 09:00	02/09/2024 09:27	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/m³	0.361	1	EPA TO-15	02/08/2024 09:00	02/09/2024 09:27	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
75-09-2	Methylene chloride	ND		ug/m³	0.695	1	EPA TO-15	02/08/2024 09:00	02/09/2024 09:27	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
91-20-3	* Naphthalene	ND		ug/m³	1.05	1	EPA TO-15	02/08/2024 09:00	02/09/2024 09:27	VH
							Certifications:	NJDEP-NY037		
142-82-5	n-Heptane	ND		ug/m³	0.410	1	EPA TO-15	02/08/2024 09:00	02/09/2024 09:27	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
110-54-3	n-Hexane	ND		ug/m³	0.352	1	EPA TO-15	02/08/2024 09:00	02/09/2024 09:27	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
95-47-6	o-Xylene	ND		ug/m³	0.434	1	EPA TO-15	02/08/2024 09:00	02/09/2024 09:27	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
179601-23-1	p- & m- Xylenes	ND		ug/m³	0.868	1	EPA TO-15	02/08/2024 09:00	02/09/2024 09:27	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
622-96-8	* p-Ethyltoluene	ND		ug/m³	0.492	1	EPA TO-15	02/08/2024 09:00	02/09/2024 09:27	VH
							Certifications:			
115-07-1	* Propylene	ND		ug/m³	0.172	1	EPA TO-15	02/08/2024 09:00	02/09/2024 09:27	VH
							Certifications:			
100-42-5	Styrene	ND		ug/m³	0.426	1	EPA TO-15	02/08/2024 09:00	02/09/2024 09:27	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
127-18-4	Tetrachloroethylene	ND		ug/m³	0.678	1	EPA TO-15	02/08/2024 09:00	02/09/2024 09:27	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
109-99-9	* Tetrahydrofuran	ND		ug/m³	0.590	1	EPA TO-15	02/08/2024 09:00	02/09/2024 09:27	VH
							Certifications:			
108-88-3	Toluene	ND		ug/m³	0.377	1	EPA TO-15	02/08/2024 09:00	02/09/2024 09:27	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
156-60-5	trans-1,2-Dichloroethylene	ND		ug/m³	0.396	1	EPA TO-15	02/08/2024 09:00	02/09/2024 09:27	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/m³	0.454	1	EPA TO-15	02/08/2024 09:00	02/09/2024 09:27	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
79-01-6	Trichloroethylene	ND		ug/m³	0.134	1	EPA TO-15	02/08/2024 09:00	02/09/2024 09:27	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
75-69-4	Trichlorofluoromethane (Freon 11)	ND		ug/m³	0.562	1	EPA TO-15	02/08/2024 09:00	02/09/2024 09:27	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
108-05-4	Vinyl acetate	ND		ug/m³	0.352	1	EPA TO-15	02/08/2024 09:00	02/09/2024 09:27	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
593-60-2	Vinyl bromide	ND		ug/m³	0.437	1	EPA TO-15	02/08/2024 09:00	02/09/2024 09:27	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		

Sample Information

Client Sample ID: CAN 41844 / FC 19410 **York Sample ID:** 24B0261-04

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
24B0261	170340203	Air	February 6, 2024 11:04 am	02/06/2024

VOA, TO15 MASTER

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
75-01-4	Vinyl Chloride	ND		ug/m³	0.128	1	EPA TO-15	02/08/2024 09:00	02/09/2024 09:27	VH
							Certifications: NELAC-NY12058,NJDEP-NY037			
1330-20-7	* Xylenes, Total	ND		ug/m³	1.30	1	EPA TO-15	02/08/2024 09:00	02/09/2024 09:27	VH
							Certifications:			

Sample Information

Client Sample ID: C241174_BL-IA01_MW30D_021024 **York Sample ID:** 24B0667-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
24B0667	170340203	Indoor Ambient Air	February 10, 2024 3:47 pm	02/12/2024

VOA, TO15 MASTER

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	* 1,1,1,2-Tetrachloroethane	ND		ug/m³	0.597	0.869	EPA TO-15	02/19/2024 12:00	02/20/2024 15:18	VH
							Certifications:			
71-55-6	1,1,1-Trichloroethane	ND		ug/m³	0.474	0.869	EPA TO-15	02/19/2024 12:00	02/20/2024 15:18	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/m³	0.597	0.869	EPA TO-15	02/19/2024 12:00	02/20/2024 15:18	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/m³	0.666	0.869	EPA TO-15	02/19/2024 12:00	02/20/2024 15:18	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
79-00-5	1,1,2-Trichloroethane	ND		ug/m³	0.474	0.869	EPA TO-15	02/19/2024 12:00	02/20/2024 15:18	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
75-34-3	1,1-Dichloroethane	ND		ug/m³	0.352	0.869	EPA TO-15	02/19/2024 12:00	02/20/2024 15:18	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
75-35-4	1,1-Dichloroethylene	ND		ug/m³	0.172	0.869	EPA TO-15	02/19/2024 12:00	02/20/2024 15:18	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
120-82-1	1,2,4-Trichlorobenzene	ND		ug/m³	1.29	0.869	EPA TO-15	02/19/2024 12:00	02/20/2024 15:18	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
95-63-6	**1,2,4-Trimethylbenzene**	**1.92**		ug/m³	0.427	0.869	EPA TO-15	02/19/2024 12:00	02/20/2024 15:18	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
106-93-4	1,2-Dibromoethane	ND		ug/m³	0.668	0.869	EPA TO-15	02/19/2024 12:00	02/20/2024 15:18	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
95-50-1	1,2-Dichlorobenzene	ND		ug/m³	0.522	0.869	EPA TO-15	02/19/2024 12:00	02/20/2024 15:18	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
107-06-2	1,2-Dichloroethane	ND		ug/m³	0.352	0.869	EPA TO-15	02/19/2024 12:00	02/20/2024 15:18	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
78-87-5	1,2-Dichloropropane	ND		ug/m³	0.402	0.869	EPA TO-15	02/19/2024 12:00	02/20/2024 15:18	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
76-14-2	1,2-Dichlorotetrafluoroethane	ND		ug/m³	0.607	0.869	EPA TO-15	02/19/2024 12:00	02/20/2024 15:18	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
108-67-8	**1,3,5-Trimethylbenzene**	**0.427**		ug/m³	0.427	0.869	EPA TO-15	02/19/2024 12:00	02/20/2024 15:18	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
106-99-0	1,3-Butadiene	ND		ug/m³	0.577	0.869	EPA TO-15	02/19/2024 12:00	02/20/2024 15:18	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
541-73-1	1,3-Dichlorobenzene	ND		ug/m³	0.522	0.869	EPA TO-15	02/19/2024 12:00	02/20/2024 15:18	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
142-28-9	* 1,3-Dichloropropane	ND		ug/m³	0.402	0.869	EPA TO-15	02/19/2024 12:00	02/20/2024 15:18	VH
							Certifications:			
106-46-7	1,4-Dichlorobenzene	ND		ug/m³	0.522	0.869	EPA TO-15	02/19/2024 12:00	02/20/2024 15:18	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
123-91-1	1,4-Dioxane	ND		ug/m³	0.626	0.869	EPA TO-15	02/19/2024 12:00	02/20/2024 15:18	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
78-93-3	**2-Butanone**	**16.5**		ug/m³	0.256	0.869	EPA TO-15	02/19/2024 12:00	02/20/2024 15:18	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
591-78-6	* 2-Hexanone	ND		ug/m³	0.712	0.869	EPA TO-15	02/19/2024 12:00	02/20/2024 15:18	VH
							Certifications:			

Sample Information

Client Sample ID: C241174_BL-IA01_MW30D_021024 **York Sample ID:** 24B0667-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
24B0667	170340203	Indoor Ambient Air	February 10, 2024 3:47 pm	02/12/2024

VOA, TO15 MASTER

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
107-05-1	3-Chloropropene	ND		ug/m³	1.36	0.869	EPA TO-15	02/19/2024 12:00	02/20/2024 15:18	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
108-10-1	**4-Methyl-2-pentanone**	**6.02**		ug/m³	0.356	0.869	EPA TO-15	02/19/2024 12:00	02/20/2024 15:18	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
67-64-1	**Acetone**	**402**		ug/m³	3.87	8.155	EPA TO-15	02/19/2024 12:00	02/21/2024 00:35	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
107-13-1	Acrylonitrile	ND		ug/m³	0.189	0.869	EPA TO-15	02/19/2024 12:00	02/20/2024 15:18	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
71-43-2	**Benzene**	**1.53**		ug/m³	0.278	0.869	EPA TO-15	02/19/2024 12:00	02/20/2024 15:18	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
100-44-7	Benzyl chloride	ND		ug/m³	0.450	0.869	EPA TO-15	02/19/2024 12:00	02/20/2024 15:18	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
75-27-4	Bromodichloromethane	ND		ug/m³	0.582	0.869	EPA TO-15	02/19/2024 12:00	02/20/2024 15:18	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
75-25-2	Bromoform	ND		ug/m³	0.898	0.869	EPA TO-15	02/19/2024 12:00	02/20/2024 15:18	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
74-83-9	Bromomethane	ND		ug/m³	0.337	0.869	EPA TO-15	02/19/2024 12:00	02/20/2024 15:18	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
75-15-0	Carbon disulfide	ND		ug/m³	0.271	0.869	EPA TO-15	02/19/2024 12:00	02/20/2024 15:18	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
56-23-5	Carbon tetrachloride	ND		ug/m³	0.137	0.869	EPA TO-15	02/19/2024 12:00	02/20/2024 15:18	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
108-90-7	Chlorobenzene	ND		ug/m³	0.400	0.869	EPA TO-15	02/19/2024 12:00	02/20/2024 15:18	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
75-00-3	Chloroethane	ND		ug/m³	0.229	0.869	EPA TO-15	02/19/2024 12:00	02/20/2024 15:18	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
67-66-3	Chloroform	ND		ug/m³	0.424	0.869	EPA TO-15	02/19/2024 12:00	02/20/2024 15:18	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
74-87-3	**Chloromethane**	**1.53**		ug/m³	0.179	0.869	EPA TO-15	02/19/2024 12:00	02/20/2024 15:18	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
156-59-2	cis-1,2-Dichloroethylene	ND		ug/m³	0.172	0.869	EPA TO-15	02/19/2024 12:00	02/20/2024 15:18	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/m³	0.394	0.869	EPA TO-15	02/19/2024 12:00	02/20/2024 15:18	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
110-82-7	**Cyclohexane**	**1.88**		ug/m³	0.299	0.869	EPA TO-15	02/19/2024 12:00	02/20/2024 15:18	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
124-48-1	Dibromochloromethane	ND		ug/m³	0.740	0.869	EPA TO-15	02/19/2024 12:00	02/20/2024 15:18	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
75-71-8	**Dichlorodifluoromethane**	**2.58**		ug/m³	0.430	0.869	EPA TO-15	02/19/2024 12:00	02/20/2024 15:18	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
141-78-6	*** Ethyl acetate**	**141**		ug/m³	0.626	0.869	EPA TO-15	02/19/2024 12:00	02/20/2024 15:18	VH
							Certifications:			
100-41-4	**Ethyl Benzene**	**4.68**		ug/m³	0.377	0.869	EPA TO-15	02/19/2024 12:00	02/20/2024 15:18	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		

Sample Information

Client Sample ID: C241174_BL-IA01_MW30D_021024 **York Sample ID:** 24B0667-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
24B0667	170340203	Indoor Ambient Air	February 10, 2024 3:47 pm	02/12/2024

VOA, TO15 MASTER

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
87-68-3	Hexachlorobutadiene	ND		ug/m³	0.927	0.869	EPA TO-15	02/19/2024 12:00	02/20/2024 15:18	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
67-63-0	**Isopropanol**	**73.4**	B	ug/m³	1.07	0.869	EPA TO-15	02/19/2024 12:00	02/20/2024 15:18	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
80-62-6	**Methyl Methacrylate**	**291**		ug/m³	3.34	8.155	EPA TO-15	02/19/2024 12:00	02/21/2024 00:35	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/m³	0.313	0.869	EPA TO-15	02/19/2024 12:00	02/20/2024 15:18	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
75-09-2	**Methylene chloride**	**351**		ug/m³	5.67	8.155	EPA TO-15	02/19/2024 12:00	02/21/2024 00:35	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
91-20-3	* Naphthalene	ND	TO-LCS -L	ug/m³	1.37	0.869	EPA TO-15	02/19/2024 12:00	02/20/2024 15:18	VH
							Certifications:	NJDEP-NY037		
142-82-5	**n-Heptane**	**2.96**		ug/m³	0.356	0.869	EPA TO-15	02/19/2024 12:00	02/20/2024 15:18	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
110-54-3	**n-Hexane**	**8.06**		ug/m³	0.306	0.869	EPA TO-15	02/19/2024 12:00	02/20/2024 15:18	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
95-47-6	**o-Xylene**	**4.00**		ug/m³	0.377	0.869	EPA TO-15	02/19/2024 12:00	02/20/2024 15:18	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
179601-23-1	**p- & m- Xylenes**	**16.3**		ug/m³	0.755	0.869	EPA TO-15	02/19/2024 12:00	02/20/2024 15:18	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
622-96-8	*** p-Ethyltoluene**	**1.41**		ug/m³	0.427	0.869	EPA TO-15	02/19/2024 12:00	02/20/2024 15:18	VH
							Certifications:			
115-07-1	*** Propylene**	**7.22**		ug/m³	0.150	0.869	EPA TO-15	02/19/2024 12:00	02/20/2024 15:18	VH
							Certifications:			
100-42-5	**Styrene**	**1.33**		ug/m³	0.370	0.869	EPA TO-15	02/19/2024 12:00	02/20/2024 15:18	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
127-18-4	**Tetrachloroethylene**	**1.41**		ug/m³	0.589	0.869	EPA TO-15	02/19/2024 12:00	02/20/2024 15:18	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
109-99-9	*** Tetrahydrofuran**	**18.2**		ug/m³	0.513	0.869	EPA TO-15	02/19/2024 12:00	02/20/2024 15:18	VH
							Certifications:			
108-88-3	**Toluene**	**46.2**		ug/m³	0.327	0.869	EPA TO-15	02/19/2024 12:00	02/20/2024 15:18	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
156-60-5	trans-1,2-Dichloroethylene	ND		ug/m³	0.345	0.869	EPA TO-15	02/19/2024 12:00	02/20/2024 15:18	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/m³	0.394	0.869	EPA TO-15	02/19/2024 12:00	02/20/2024 15:18	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
79-01-6	**Trichloroethylene**	**1.63**		ug/m³	0.117	0.869	EPA TO-15	02/19/2024 12:00	02/20/2024 15:18	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
75-69-4	**Trichlorofluoromethane (Freon 11)**	**1.46**		ug/m³	0.488	0.869	EPA TO-15	02/19/2024 12:00	02/20/2024 15:18	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
108-05-4	Vinyl acetate	ND		ug/m³	0.306	0.869	EPA TO-15	02/19/2024 12:00	02/20/2024 15:18	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
593-60-2	Vinyl bromide	ND		ug/m³	0.380	0.869	EPA TO-15	02/19/2024 12:00	02/20/2024 15:18	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		

Sample Information

Client Sample ID: C241174_BL-IA01_MW30D_021024 **York Sample ID:** 24B0667-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
24B0667	170340203	Indoor Ambient Air	February 10, 2024 3:47 pm	02/12/2024

VOA, TO15 MASTER

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
75-01-4	Vinyl Chloride	ND		ug/m³	0.111	0.869	EPA TO-15	02/19/2024 12:00	02/20/2024 15:18	VH
							Certifications: NELAC-NY12058,NJDEP-NY037			
1330-20-7	*** Xylenes, Total**	**20.3**		ug/m³	1.13	0.869	EPA TO-15	02/19/2024 12:00	02/20/2024 15:18	VH
							Certifications:			

Sample Information

Client Sample ID: C241174_BL-IA02_MW34D_021024 **York Sample ID:** 24B0667-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
24B0667	170340203	Indoor Ambient Air	February 10, 2024 3:39 pm	02/12/2024

VOA, TO15 MASTER

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	* 1,1,1,2-Tetrachloroethane	ND		ug/m³	0.601	0.875	EPA TO-15	02/19/2024 12:00	02/20/2024 16:27	VH
							Certifications:			
71-55-6	1,1,1-Trichloroethane	ND		ug/m³	0.477	0.875	EPA TO-15	02/19/2024 12:00	02/20/2024 16:27	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/m³	0.601	0.875	EPA TO-15	02/19/2024 12:00	02/20/2024 16:27	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/m³	0.671	0.875	EPA TO-15	02/19/2024 12:00	02/20/2024 16:27	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
79-00-5	1,1,2-Trichloroethane	ND		ug/m³	0.477	0.875	EPA TO-15	02/19/2024 12:00	02/20/2024 16:27	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
75-34-3	1,1-Dichloroethane	ND		ug/m³	0.354	0.875	EPA TO-15	02/19/2024 12:00	02/20/2024 16:27	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
75-35-4	1,1-Dichloroethylene	ND		ug/m³	0.173	0.875	EPA TO-15	02/19/2024 12:00	02/20/2024 16:27	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
120-82-1	1,2,4-Trichlorobenzene	ND		ug/m³	1.30	0.875	EPA TO-15	02/19/2024 12:00	02/20/2024 16:27	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
95-63-6	**1,2,4-Trimethylbenzene**	**1.42**		ug/m³	0.430	0.875	EPA TO-15	02/19/2024 12:00	02/20/2024 16:27	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
106-93-4	1,2-Dibromoethane	ND		ug/m³	0.672	0.875	EPA TO-15	02/19/2024 12:00	02/20/2024 16:27	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
95-50-1	1,2-Dichlorobenzene	ND		ug/m³	0.526	0.875	EPA TO-15	02/19/2024 12:00	02/20/2024 16:27	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
107-06-2	1,2-Dichloroethane	ND		ug/m³	0.354	0.875	EPA TO-15	02/19/2024 12:00	02/20/2024 16:27	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
78-87-5	1,2-Dichloropropane	ND		ug/m³	0.404	0.875	EPA TO-15	02/19/2024 12:00	02/20/2024 16:27	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
76-14-2	1,2-Dichlorotetrafluoroethane	ND		ug/m³	0.612	0.875	EPA TO-15	02/19/2024 12:00	02/20/2024 16:27	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
108-67-8	1,3,5-Trimethylbenzene	ND		ug/m³	0.430	0.875	EPA TO-15	02/19/2024 12:00	02/20/2024 16:27	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
106-99-0	1,3-Butadiene	ND		ug/m³	0.581	0.875	EPA TO-15	02/19/2024 12:00	02/20/2024 16:27	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
541-73-1	1,3-Dichlorobenzene	ND		ug/m³	0.526	0.875	EPA TO-15	02/19/2024 12:00	02/20/2024 16:27	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
142-28-9	* 1,3-Dichloropropane	ND		ug/m³	0.404	0.875	EPA TO-15	02/19/2024 12:00	02/20/2024 16:27	VH
							Certifications:			
106-46-7	1,4-Dichlorobenzene	ND		ug/m³	0.526	0.875	EPA TO-15	02/19/2024 12:00	02/20/2024 16:27	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
123-91-1	1,4-Dioxane	ND		ug/m³	0.631	0.875	EPA TO-15	02/19/2024 12:00	02/20/2024 16:27	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
78-93-3	**2-Butanone**	**2.79**		ug/m³	0.258	0.875	EPA TO-15	02/19/2024 12:00	02/20/2024 16:27	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
591-78-6	* 2-Hexanone	ND		ug/m³	0.717	0.875	EPA TO-15	02/19/2024 12:00	02/20/2024 16:27	VH
							Certifications:			

Sample Information

Client Sample ID: C241174_BL-IA02_MW34D_021024 **York Sample ID:** 24B0667-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
24B0667	170340203	Indoor Ambient Air	February 10, 2024 3:39 pm	02/12/2024

VOA, TO15 MASTER

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
107-05-1	3-Chloropropene	ND		ug/m³	1.37	0.875	EPA TO-15	02/19/2024 12:00	02/20/2024 16:27	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
108-10-1	**4-Methyl-2-pentanone**	**0.574**		ug/m³	0.358	0.875	EPA TO-15	02/19/2024 12:00	02/20/2024 16:27	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
67-64-1	**Acetone**	**366**		ug/m³	7.80	16.42	EPA TO-15	02/19/2024 12:00	02/21/2024 01:31	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
107-13-1	Acrylonitrile	ND		ug/m³	0.190	0.875	EPA TO-15	02/19/2024 12:00	02/20/2024 16:27	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
71-43-2	**Benzene**	**1.45**		ug/m³	0.280	0.875	EPA TO-15	02/19/2024 12:00	02/20/2024 16:27	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
100-44-7	Benzyl chloride	ND		ug/m³	0.453	0.875	EPA TO-15	02/19/2024 12:00	02/20/2024 16:27	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
75-27-4	Bromodichloromethane	ND		ug/m³	0.586	0.875	EPA TO-15	02/19/2024 12:00	02/20/2024 16:27	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
75-25-2	Bromoform	ND		ug/m³	0.904	0.875	EPA TO-15	02/19/2024 12:00	02/20/2024 16:27	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
74-83-9	Bromomethane	ND		ug/m³	0.340	0.875	EPA TO-15	02/19/2024 12:00	02/20/2024 16:27	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
75-15-0	Carbon disulfide	ND		ug/m³	0.272	0.875	EPA TO-15	02/19/2024 12:00	02/20/2024 16:27	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
56-23-5	**Carbon tetrachloride**	**0.385**	TO-CCV	ug/m³	0.138	0.875	EPA TO-15	02/19/2024 12:00	02/20/2024 16:27	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
108-90-7	Chlorobenzene	ND		ug/m³	0.403	0.875	EPA TO-15	02/19/2024 12:00	02/20/2024 16:27	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
75-00-3	Chloroethane	ND		ug/m³	0.231	0.875	EPA TO-15	02/19/2024 12:00	02/20/2024 16:27	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
67-66-3	Chloroform	ND		ug/m³	0.427	0.875	EPA TO-15	02/19/2024 12:00	02/20/2024 16:27	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
74-87-3	Chloromethane	ND		ug/m³	0.181	0.875	EPA TO-15	02/19/2024 12:00	02/20/2024 16:27	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
156-59-2	cis-1,2-Dichloroethylene	ND		ug/m³	0.173	0.875	EPA TO-15	02/19/2024 12:00	02/20/2024 16:27	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/m³	0.397	0.875	EPA TO-15	02/19/2024 12:00	02/20/2024 16:27	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
110-82-7	**Cyclohexane**	**1.60**		ug/m³	0.301	0.875	EPA TO-15	02/19/2024 12:00	02/20/2024 16:27	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
124-48-1	Dibromochloromethane	ND		ug/m³	0.745	0.875	EPA TO-15	02/19/2024 12:00	02/20/2024 16:27	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
75-71-8	**Dichlorodifluoromethane**	**2.68**		ug/m³	0.433	0.875	EPA TO-15	02/19/2024 12:00	02/20/2024 16:27	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
141-78-6	*** Ethyl acetate**	**5.49**		ug/m³	0.631	0.875	EPA TO-15	02/19/2024 12:00	02/20/2024 16:27	VH
							Certifications:			
100-41-4	**Ethyl Benzene**	**1.79**		ug/m³	0.380	0.875	EPA TO-15	02/19/2024 12:00	02/20/2024 16:27	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		

Sample Information

Client Sample ID: C241174_BL-IA02_MW34D_021024 **York Sample ID:** 24B0667-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
24B0667	170340203	Indoor Ambient Air	February 10, 2024 3:39 pm	02/12/2024

VOA, TO15 MASTER

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
87-68-3	Hexachlorobutadiene	ND		ug/m³	0.933	0.875	EPA TO-15	02/19/2024 12:00	02/20/2024 16:27	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
67-63-0	**Isopropanol**	**23.3**	B	ug/m³	1.08	0.875	EPA TO-15	02/19/2024 12:00	02/20/2024 16:27	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
80-62-6	**Methyl Methacrylate**	**7.16**		ug/m³	0.358	0.875	EPA TO-15	02/19/2024 12:00	02/20/2024 16:27	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/m³	0.315	0.875	EPA TO-15	02/19/2024 12:00	02/20/2024 16:27	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
75-09-2	**Methylene chloride**	**28.5**		ug/m³	0.608	0.875	EPA TO-15	02/19/2024 12:00	02/20/2024 16:27	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
91-20-3	* Naphthalene	ND	TO-LCS -L	ug/m³	1.38	0.875	EPA TO-15	02/19/2024 12:00	02/20/2024 16:27	VH
							Certifications:	NJDEP-NY037		
142-82-5	n-Heptane	ND		ug/m³	0.359	0.875	EPA TO-15	02/19/2024 12:00	02/20/2024 16:27	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
110-54-3	**n-Hexane**	**1.70**		ug/m³	0.308	0.875	EPA TO-15	02/19/2024 12:00	02/20/2024 16:27	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
95-47-6	**o-Xylene**	**1.63**		ug/m³	0.380	0.875	EPA TO-15	02/19/2024 12:00	02/20/2024 16:27	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
179601-23-1	**p- & m- Xylenes**	**7.14**		ug/m³	0.760	0.875	EPA TO-15	02/19/2024 12:00	02/20/2024 16:27	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
622-96-8	*** p-Ethyltoluene**	**0.774**		ug/m³	0.430	0.875	EPA TO-15	02/19/2024 12:00	02/20/2024 16:27	VH
							Certifications:			
115-07-1	* Propylene	ND		ug/m³	0.151	0.875	EPA TO-15	02/19/2024 12:00	02/20/2024 16:27	VH
							Certifications:			
100-42-5	Styrene	ND		ug/m³	0.373	0.875	EPA TO-15	02/19/2024 12:00	02/20/2024 16:27	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
127-18-4	Tetrachloroethylene	ND		ug/m³	0.593	0.875	EPA TO-15	02/19/2024 12:00	02/20/2024 16:27	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
109-99-9	* Tetrahydrofuran	ND		ug/m³	0.516	0.875	EPA TO-15	02/19/2024 12:00	02/20/2024 16:27	VH
							Certifications:			
108-88-3	**Toluene**	**8.18**		ug/m³	0.330	0.875	EPA TO-15	02/19/2024 12:00	02/20/2024 16:27	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
156-60-5	trans-1,2-Dichloroethylene	ND		ug/m³	0.347	0.875	EPA TO-15	02/19/2024 12:00	02/20/2024 16:27	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/m³	0.397	0.875	EPA TO-15	02/19/2024 12:00	02/20/2024 16:27	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
79-01-6	Trichloroethylene	ND		ug/m³	0.118	0.875	EPA TO-15	02/19/2024 12:00	02/20/2024 16:27	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
75-69-4	Trichlorofluoromethane (Freon 11)	ND		ug/m³	0.492	0.875	EPA TO-15	02/19/2024 12:00	02/20/2024 16:27	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
108-05-4	Vinyl acetate	ND		ug/m³	0.308	0.875	EPA TO-15	02/19/2024 12:00	02/20/2024 16:27	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
593-60-2	Vinyl bromide	ND		ug/m³	0.383	0.875	EPA TO-15	02/19/2024 12:00	02/20/2024 16:27	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		

Sample Information

Client Sample ID: C241174_BL-IA02_MW34D_021024 **York Sample ID:** 24B0667-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
24B0667	170340203	Indoor Ambient Air	February 10, 2024 3:39 pm	02/12/2024

VOA, TO15 MASTER

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
75-01-4	Vinyl Chloride	ND		ug/m³	0.112	0.875	EPA TO-15	02/19/2024 12:00	02/20/2024 16:27	VH
							Certifications: NELAC-NY12058,NJDEP-NY037			
1330-20-7	*** Xylenes, Total**	**8.78**		ug/m³	1.14	0.875	EPA TO-15	02/19/2024 12:00	02/20/2024 16:27	VH
							Certifications:			

Sample Information

Client Sample ID: C241174_AA01_021024 **York Sample ID:** 24B0667-03

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
24B0667	170340203	Outdoor Ambient Air	February 10, 2024 3:50 pm	02/12/2024

VOA, TO15 MASTER

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	* 1,1,1,2-Tetrachloroethane	ND		ug/m³	0.515	0.75	EPA TO-15	02/19/2024 12:00	02/20/2024 18:46	VH
							Certifications:			
71-55-6	1,1,1-Trichloroethane	ND		ug/m³	0.409	0.75	EPA TO-15	02/19/2024 12:00	02/20/2024 18:46	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/m³	0.515	0.75	EPA TO-15	02/19/2024 12:00	02/20/2024 18:46	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/m³	0.575	0.75	EPA TO-15	02/19/2024 12:00	02/20/2024 18:46	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
79-00-5	1,1,2-Trichloroethane	ND		ug/m³	0.409	0.75	EPA TO-15	02/19/2024 12:00	02/20/2024 18:46	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
75-34-3	1,1-Dichloroethane	ND		ug/m³	0.304	0.75	EPA TO-15	02/19/2024 12:00	02/20/2024 18:46	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
75-35-4	1,1-Dichloroethylene	ND		ug/m³	0.149	0.75	EPA TO-15	02/19/2024 12:00	02/20/2024 18:46	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
120-82-1	1,2,4-Trichlorobenzene	ND		ug/m³	1.11	0.75	EPA TO-15	02/19/2024 12:00	02/20/2024 18:46	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
95-63-6	**1,2,4-Trimethylbenzene**	**0.590**		ug/m³	0.369	0.75	EPA TO-15	02/19/2024 12:00	02/20/2024 18:46	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
106-93-4	1,2-Dibromoethane	ND		ug/m³	0.576	0.75	EPA TO-15	02/19/2024 12:00	02/20/2024 18:46	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
95-50-1	1,2-Dichlorobenzene	ND		ug/m³	0.451	0.75	EPA TO-15	02/19/2024 12:00	02/20/2024 18:46	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
107-06-2	1,2-Dichloroethane	ND		ug/m³	0.304	0.75	EPA TO-15	02/19/2024 12:00	02/20/2024 18:46	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
78-87-5	1,2-Dichloropropane	ND		ug/m³	0.347	0.75	EPA TO-15	02/19/2024 12:00	02/20/2024 18:46	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
76-14-2	1,2-Dichlorotetrafluoroethane	ND		ug/m³	0.524	0.75	EPA TO-15	02/19/2024 12:00	02/20/2024 18:46	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
108-67-8	1,3,5-Trimethylbenzene	ND		ug/m³	0.369	0.75	EPA TO-15	02/19/2024 12:00	02/20/2024 18:46	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
106-99-0	1,3-Butadiene	ND		ug/m³	0.498	0.75	EPA TO-15	02/19/2024 12:00	02/20/2024 18:46	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
541-73-1	1,3-Dichlorobenzene	ND		ug/m³	0.451	0.75	EPA TO-15	02/19/2024 12:00	02/20/2024 18:46	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
142-28-9	* 1,3-Dichloropropane	ND		ug/m³	0.347	0.75	EPA TO-15	02/19/2024 12:00	02/20/2024 18:46	VH
							Certifications:			
106-46-7	1,4-Dichlorobenzene	ND		ug/m³	0.451	0.75	EPA TO-15	02/19/2024 12:00	02/20/2024 18:46	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
123-91-1	1,4-Dioxane	ND		ug/m³	0.540	0.75	EPA TO-15	02/19/2024 12:00	02/20/2024 18:46	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
78-93-3	**2-Butanone**	**2.15**		ug/m³	0.221	0.75	EPA TO-15	02/19/2024 12:00	02/20/2024 18:46	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
591-78-6	*** 2-Hexanone**	**1.14**		ug/m³	0.614	0.75	EPA TO-15	02/19/2024 12:00	02/20/2024 18:46	VH
							Certifications:			

Sample Information

Client Sample ID: C241174_AA01_021024 **York Sample ID:** 24B0667-03

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
24B0667	170340203	Outdoor Ambient Air	February 10, 2024 3:50 pm	02/12/2024

VOA, TO15 MASTER

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
107-05-1	3-Chloropropene	ND		ug/m³	1.17	0.75	EPA TO-15	02/19/2024 12:00	02/20/2024 18:46	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
108-10-1	4-Methyl-2-pentanone	ND		ug/m³	0.307	0.75	EPA TO-15	02/19/2024 12:00	02/20/2024 18:46	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
67-64-1	**Acetone**	**10.3**		ug/m³	0.356	0.75	EPA TO-15	02/19/2024 12:00	02/20/2024 18:46	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
107-13-1	Acrylonitrile	ND		ug/m³	0.163	0.75	EPA TO-15	02/19/2024 12:00	02/20/2024 18:46	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
71-43-2	**Benzene**	**1.03**		ug/m³	0.240	0.75	EPA TO-15	02/19/2024 12:00	02/20/2024 18:46	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
100-44-7	Benzyl chloride	ND		ug/m³	0.388	0.75	EPA TO-15	02/19/2024 12:00	02/20/2024 18:46	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
75-27-4	Bromodichloromethane	ND		ug/m³	0.502	0.75	EPA TO-15	02/19/2024 12:00	02/20/2024 18:46	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
75-25-2	Bromoform	ND		ug/m³	0.775	0.75	EPA TO-15	02/19/2024 12:00	02/20/2024 18:46	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
74-83-9	Bromomethane	ND		ug/m³	0.291	0.75	EPA TO-15	02/19/2024 12:00	02/20/2024 18:46	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
75-15-0	Carbon disulfide	ND		ug/m³	0.234	0.75	EPA TO-15	02/19/2024 12:00	02/20/2024 18:46	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
56-23-5	Carbon tetrachloride	ND		ug/m³	0.118	0.75	EPA TO-15	02/19/2024 12:00	02/20/2024 18:46	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
108-90-7	Chlorobenzene	ND		ug/m³	0.345	0.75	EPA TO-15	02/19/2024 12:00	02/20/2024 18:46	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
75-00-3	Chloroethane	ND		ug/m³	0.198	0.75	EPA TO-15	02/19/2024 12:00	02/20/2024 18:46	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
67-66-3	Chloroform	ND		ug/m³	0.366	0.75	EPA TO-15	02/19/2024 12:00	02/20/2024 18:46	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
74-87-3	**Chloromethane**	**1.16**		ug/m³	0.155	0.75	EPA TO-15	02/19/2024 12:00	02/20/2024 18:46	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
156-59-2	cis-1,2-Dichloroethylene	ND		ug/m³	0.149	0.75	EPA TO-15	02/19/2024 12:00	02/20/2024 18:46	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/m³	0.340	0.75	EPA TO-15	02/19/2024 12:00	02/20/2024 18:46	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
110-82-7	**Cyclohexane**	**0.361**		ug/m³	0.258	0.75	EPA TO-15	02/19/2024 12:00	02/20/2024 18:46	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
124-48-1	Dibromochloromethane	ND		ug/m³	0.639	0.75	EPA TO-15	02/19/2024 12:00	02/20/2024 18:46	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
75-71-8	**Dichlorodifluoromethane**	**2.34**		ug/m³	0.371	0.75	EPA TO-15	02/19/2024 12:00	02/20/2024 18:46	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
141-78-6	*** Ethyl acetate**	**0.540**		ug/m³	0.540	0.75	EPA TO-15	02/19/2024 12:00	02/20/2024 18:46	VH
							Certifications:			
100-41-4	**Ethyl Benzene**	**0.391**		ug/m³	0.326	0.75	EPA TO-15	02/19/2024 12:00	02/20/2024 18:46	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		

Sample Information

Client Sample ID: C241174_AA01_021024 **York Sample ID:** 24B0667-03

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
24B0667	170340203	Outdoor Ambient Air	February 10, 2024 3:50 pm	02/12/2024

VOA, TO15 MASTER

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
87-68-3	Hexachlorobutadiene	ND		ug/m³	0.800	0.75	EPA TO-15	02/19/2024 12:00	02/20/2024 18:46	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
67-63-0	**Isopropanol**	**4.44**	B	ug/m³	0.922	0.75	EPA TO-15	02/19/2024 12:00	02/20/2024 18:46	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
80-62-6	Methyl Methacrylate	ND		ug/m³	0.307	0.75	EPA TO-15	02/19/2024 12:00	02/20/2024 18:46	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/m³	0.270	0.75	EPA TO-15	02/19/2024 12:00	02/20/2024 18:46	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
75-09-2	**Methylene chloride**	**0.651**		ug/m³	0.521	0.75	EPA TO-15	02/19/2024 12:00	02/20/2024 18:46	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
91-20-3	* Naphthalene	ND	TO-LCS -L	ug/m³	1.18	0.75	EPA TO-15	02/19/2024 12:00	02/20/2024 18:46	VH
							Certifications:	NJDEP-NY037		
142-82-5	n-Heptane	ND		ug/m³	0.307	0.75	EPA TO-15	02/19/2024 12:00	02/20/2024 18:46	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
110-54-3	**n-Hexane**	**0.978**		ug/m³	0.264	0.75	EPA TO-15	02/19/2024 12:00	02/20/2024 18:46	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
95-47-6	**o-Xylene**	**0.488**		ug/m³	0.326	0.75	EPA TO-15	02/19/2024 12:00	02/20/2024 18:46	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
179601-23-1	**p- & m- Xylenes**	**1.07**		ug/m³	0.651	0.75	EPA TO-15	02/19/2024 12:00	02/20/2024 18:46	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
622-96-8	*** p-Ethyltoluene**	**0.369**		ug/m³	0.369	0.75	EPA TO-15	02/19/2024 12:00	02/20/2024 18:46	VH
							Certifications:			
115-07-1	* Propylene	ND		ug/m³	0.129	0.75	EPA TO-15	02/19/2024 12:00	02/20/2024 18:46	VH
							Certifications:			
100-42-5	Styrene	ND		ug/m³	0.319	0.75	EPA TO-15	02/19/2024 12:00	02/20/2024 18:46	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
127-18-4	**Tetrachloroethylene**	**0.560**		ug/m³	0.509	0.75	EPA TO-15	02/19/2024 12:00	02/20/2024 18:46	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
109-99-9	* Tetrahydrofuran	ND		ug/m³	0.442	0.75	EPA TO-15	02/19/2024 12:00	02/20/2024 18:46	VH
							Certifications:			
108-88-3	**Toluene**	**1.89**		ug/m³	0.283	0.75	EPA TO-15	02/19/2024 12:00	02/20/2024 18:46	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
156-60-5	trans-1,2-Dichloroethylene	ND		ug/m³	0.297	0.75	EPA TO-15	02/19/2024 12:00	02/20/2024 18:46	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/m³	0.340	0.75	EPA TO-15	02/19/2024 12:00	02/20/2024 18:46	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
79-01-6	Trichloroethylene	ND		ug/m³	0.101	0.75	EPA TO-15	02/19/2024 12:00	02/20/2024 18:46	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
75-69-4	**Trichlorofluoromethane (Freon 11)**	**1.22**		ug/m³	0.421	0.75	EPA TO-15	02/19/2024 12:00	02/20/2024 18:46	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
108-05-4	Vinyl acetate	ND		ug/m³	0.264	0.75	EPA TO-15	02/19/2024 12:00	02/20/2024 18:46	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		
593-60-2	Vinyl bromide	ND		ug/m³	0.328	0.75	EPA TO-15	02/19/2024 12:00	02/20/2024 18:46	VH
							Certifications:	NELAC-NY12058,NJDEP-NY037		

Sample Information

Client Sample ID: C241174_AA01_021024 **York Sample ID:** 24B0667-03

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
24B0667	170340203	Outdoor Ambient Air	February 10, 2024 3:50 pm	02/12/2024

VOA, TO15 MASTER

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
75-01-4	Vinyl Chloride	ND		ug/m³	0.0959	0.75	EPA TO-15	02/19/2024 12:00	02/20/2024 18:46	VH
							Certifications: NELAC-NY12058,NJDEP-NY037			
1330-20-7	*** Xylenes, Total**	**1.56**		ug/m³	0.977	0.75	EPA TO-15	02/19/2024 12:00	02/20/2024 18:46	VH
							Certifications:			

Analytical Batch Summary

Batch ID: BB40705 **Preparation Method:** EPA TO15 PREP **Prepared By:** VH

YORK Sample ID	Client Sample ID	Preparation Date
24B0261-01	CAN 20665 / FC 13559	02/08/24
24B0261-02	CAN 28841 / FC 16424	02/08/24
24B0261-04	CAN 41844 / FC 19410	02/08/24
BB40705-BLK1	Blank	02/08/24
BB40705-BS1	LCS	02/08/24
BB40705-DUP1	Duplicate	02/08/24

Batch ID: BB41189 **Preparation Method:** EPA TO15 PREP **Prepared By:** VH

YORK Sample ID	Client Sample ID	Preparation Date
24B0667-01	C241174_BL-IA01_MW30D_(	02/19/24
24B0667-02	C241174_BL-IA02_MW34D_(	02/19/24
24B0667-03	C241174_AA01_021024	02/19/24
BB41189-BLK1	Blank	02/19/24
BB41189-BS1	LCS	02/19/24
BB41189-DUP1	Duplicate	02/19/24

Batch ID: BB41369 **Preparation Method:** EPA TO15 PREP **Prepared By:** VH

YORK Sample ID	Client Sample ID	Preparation Date
24B0667-01RE1	C241174_BL-IA01_MW30D_(	02/19/24
24B0667-02RE1	C241174_BL-IA02_MW34D_(	02/19/24
BB41369-BLK1	Blank	02/20/24
BB41369-BS1	LCS	02/20/24
BB41369-DUP1	Duplicate	02/20/24

Volatile Organic Compounds in Air by GC/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BB40705 - EPA TO15 PREP											
Blank (BB40705-BLK1) Blank									Prepared & Analyzed: 02/08/2024		
1,1,1,2-Tetrachloroethane	ND	0.687	ug/m³								
1,1,1-Trichloroethane	ND	0.546	"								
1,1,2,2-Tetrachloroethane	ND	0.687	"								
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.766	"								
1,1,2-Trichloroethane	ND	0.546	"								
1,1-Dichloroethane	ND	0.405	"								
1,1-Dichloroethylene	ND	0.198	"								
1,2,4-Trichlorobenzene	0.816	0.742	"								
1,2,4-Trimethylbenzene	ND	0.492	"								
1,2-Dibromoethane	ND	0.768	"								
1,2-Dichlorobenzene	ND	0.601	"								
1,2-Dichloroethane	ND	0.405	"								
1,2-Dichloropropane	ND	0.462	"								
1,2-Dichlorotetrafluoroethane	ND	0.699	"								
1,3,5-Trimethylbenzene	ND	0.492	"								
1,3-Butadiene	ND	0.664	"								
1,3-Dichlorobenzene	ND	0.601	"								
1,3-Dichloropropane	ND	0.462	"								
1,4-Dichlorobenzene	ND	0.601	"								
1,4-Dioxane	ND	0.721	"								
2-Butanone	ND	0.295	"								
2-Hexanone	ND	0.819	"								
3-Chloropropene	ND	1.57	"								
4-Methyl-2-pentanone	ND	0.410	"								
Acetone	ND	0.475	"								
Acrylonitrile	0.391	0.217	"								
Benzene	ND	0.319	"								
Benzyl chloride	ND	0.518	"								
Bromodichloromethane	ND	0.670	"								
Bromoform	ND	1.03	"								
Bromomethane	ND	0.388	"								
Carbon disulfide	ND	0.311	"								
Carbon tetrachloride	ND	0.157	"								
Chlorobenzene	ND	0.460	"								
Chloroethane	ND	0.264	"								
Chloroform	ND	0.488	"								
Chloromethane	ND	0.207	"								
cis-1,2-Dichloroethylene	ND	0.198	"								
cis-1,3-Dichloropropylene	ND	0.454	"								
Cyclohexane	ND	0.344	"								
Dibromochloromethane	ND	0.852	"								
Dichlorodifluoromethane	ND	0.495	"								
Ethyl acetate	ND	0.721	"								
Ethyl Benzene	ND	0.434	"								
Hexachlorobutadiene	ND	1.07	"								
Isopropanol	0.664	0.492	"								
Methyl Methacrylate	ND	0.409	"								
Methyl tert-butyl ether (MTBE)	ND	0.361	"								
Methylene chloride	ND	0.695	"								
Naphthalene	ND	1.05	"								

Volatile Organic Compounds in Air by GC/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BB40705 - EPA TO15 PREP											
Blank (BB40705-BLK1) Blank								Prepared & Analyzed: 02/08/2024			
n-Heptane	ND	0.410	ug/m³								
n-Hexane	ND	0.352	"								
o-Xylene	ND	0.434	"								
p- & m- Xylenes	ND	0.868	"								
p-Ethyltoluene	ND	0.492	"								
Propylene	ND	0.172	"								
Styrene	ND	0.426	"								
Tetrachloroethylene	ND	0.678	"								
Tetrahydrofuran	ND	0.590	"								
Toluene	ND	0.377	"								
trans-1,2-Dichloroethylene	ND	0.396	"								
trans-1,3-Dichloropropylene	ND	0.454	"								
Trichloroethylene	ND	0.134	"								
Trichlorofluoromethane (Freon 11)	ND	0.562	"								
Vinyl acetate	ND	0.352	"								
Vinyl bromide	ND	0.437	"								
Vinyl Chloride	ND	0.128	"								
Xylenes, Total	ND	1.30	"								
LCS (BB40705-BS1) LCS								Prepared & Analyzed: 02/08/2024			
1,1,1,2-Tetrachloroethane	11.6		ppbv	10.0		116	70-130				
1,1,1-Trichloroethane	10.4		"	10.0		104	70-130				
1,1,2,2-Tetrachloroethane	11.6		"	10.0		116	70-130				
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	11.4		"	10.0		114	70-130				
1,1,2-Trichloroethane	11.4		"	10.0		114	70-130				
1,1-Dichloroethane	11.6		"	10.0		116	70-130				
1,1-Dichloroethylene	11.8		"	10.0		118	70-130				
1,2,4-Trichlorobenzene	10.7		"	10.0		107	70-130				
1,2,4-Trimethylbenzene	11.5		"	10.0		115	70-130				
1,2-Dibromoethane	11.1		"	10.0		111	70-130				
1,2-Dichlorobenzene	10.9		"	10.0		109	70-130				
1,2-Dichloroethane	11.0		"	10.0		110	70-130				
1,2-Dichloropropane	12.4		"	10.0		124	70-130				
1,2-Dichlorotetrafluoroethane	15.6		"	10.0		156	70-130	High Bias			
1,3,5-Trimethylbenzene	11.6		"	10.0		116	70-130				
1,3-Butadiene	18.6		"	10.0		186	70-130	High Bias			
1,3-Dichlorobenzene	11.2		"	10.0		112	70-130				
1,3-Dichloropropane	11.9		"	10.0		119	70-130				
1,4-Dichlorobenzene	11.1		"	10.0		111	70-130				
1,4-Dioxane	9.62		"	10.0		96.2	70-130				
2-Butanone	10.3		"	10.0		103	70-130				
2-Hexanone	11.3		"	10.0		113	70-130				
3-Chloropropene	10.6		"	10.0		106	70-130				
4-Methyl-2-pentanone	11.5		"	10.0		115	70-130				
Acetone	11.3		"	10.0		113	70-130				
Acrylonitrile	9.00		"	10.0		90.0	70-130				
Benzene	10.2		"	10.0		102	70-130				
Benzyl chloride	12.9		"	10.0		129	70-130				
Bromodichloromethane	12.4		"	10.0		124	70-130				
Bromoform	11.9		"	10.0		119	70-130				
Bromomethane	11.5		"	10.0		115	70-130				

Volatile Organic Compounds in Air by GC/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BB40705 - EPA TO15 PREP											
LCS (BB40705-BS1) LCS								Prepared & Analyzed: 02/08/2024			
Carbon disulfide	10.1		ppbv	10.0		101	70-130				
Carbon tetrachloride	11.7		"	10.0		117	70-130				
Chlorobenzene	11.7		"	10.0		117	70-130				
Chloroethane	11.5		"	10.0		115	70-130				
Chloroform	10.8		"	10.0		108	70-130				
Chloromethane	16.7		"	10.0		167	70-130	High Bias			
cis-1,2-Dichloroethylene	9.98		"	10.0		99.8	70-130				
cis-1,3-Dichloropropylene	11.2		"	10.0		112	70-130				
Cyclohexane	10.6		"	10.0		106	70-130				
Dibromochloromethane	11.4		"	10.0		114	70-130				
Dichlorodifluoromethane	13.3		"	10.0		133	70-130	High Bias			
Ethyl acetate	9.98		"	10.0		99.8	70-130				
Ethyl Benzene	12.3		"	10.0		123	70-130				
Hexachlorobutadiene	10.4		"	10.0		104	70-130				
Isopropanol	9.57		"	10.0		95.7	70-130				
Methyl Methacrylate	11.2		"	10.0		112	70-130				
Methyl tert-butyl ether (MTBE)	10.5		"	10.0		105	70-130				
Methylene chloride	11.5		"	10.0		115	70-130				
Naphthalene	9.96		"	10.0		99.6	70-130				
n-Heptane	11.2		"	10.0		112	70-130				
n-Hexane	11.4		"	10.0		114	70-130				
o-Xylene	11.8		"	10.0		118	70-130				
p- & m- Xylenes	24.7		"	20.0		124	70-130				
p-Ethyltoluene	12.2		"	10.0		122	70-130				
Propylene	13.1		"	10.0		131	70-130	High Bias			
Styrene	11.3		"	10.0		113	70-130				
Tetrachloroethylene	9.60		"	10.0		96.0	70-130				
Tetrahydrofuran	10.5		"	10.0		105	70-130				
Toluene	11.4		"	10.0		114	70-130				
trans-1,2-Dichloroethylene	11.1		"	10.0		111	70-130				
trans-1,3-Dichloropropylene	11.0		"	10.0		110	70-130				
Trichloroethylene	12.2		"	10.0		122	70-130				
Trichlorofluoromethane (Freon 11)	11.4		"	10.0		114	70-130				
Vinyl acetate	9.09		"	10.0		90.9	70-130				
Vinyl bromide	11.2		"	10.0		112	70-130				
Vinyl Chloride	18.3		"	10.0		183	70-130	High Bias			
Xylenes, Total	159	1.30	ug/m³								

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BB40705 - EPA TO15 PREP											
Duplicate (BB40705-DUP1) Duplicate	*Source sample: 24A1627-02 (Duplicate)								Prepared: 02/08/2024 Analyzed: 02/09/2024		
1,1,1,2-Tetrachloroethane	ND	0.633	ug/m³		ND					25	
1,1,1-Trichloroethane	ND	0.503	"		ND					25	
1,1,2,2-Tetrachloroethane	ND	0.633	"		ND					25	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.707	"		ND					25	
1,1,2-Trichloroethane	ND	0.503	"		ND					25	
1,1-Dichloroethane	ND	0.373	"		ND					25	
1,1-Dichloroethylene	ND	0.183	"		ND					25	
1,2,4-Trichlorobenzene	ND	0.684	"		ND					25	
1,2,4-Trimethylbenzene	0.770	0.453	"		0.680				12.5	25	
1,2-Dibromoethane	ND	0.708	"		ND					25	
1,2-Dichlorobenzene	ND	0.554	"		ND					25	
1,2-Dichloroethane	ND	0.373	"		ND					25	
1,2-Dichloropropane	ND	0.426	"		ND					25	
1,2-Dichlorotetrafluoroethane	ND	0.645	"		ND					25	
1,3,5-Trimethylbenzene	ND	0.453	"		ND					25	
1,3-Butadiene	ND	0.612	"		ND					25	
1,3-Dichlorobenzene	ND	0.554	"		ND					25	
1,3-Dichloropropane	ND	0.426	"		ND					25	
1,4-Dichlorobenzene	ND	0.554	"		ND					25	
1,4-Dioxane	ND	0.664	"		ND					25	
2-Butanone	0.734	0.272	"		0.653				11.8	25	
2-Hexanone	ND	0.755	"		ND					25	
3-Chloropropene	ND	1.44	"		ND					25	
4-Methyl-2-pentanone	ND	0.378	"		ND					25	
Acetone	14.9	0.438	"		14.8				0.591	25	
Acrylonitrile	0.460	0.200	"		ND					25	
Benzene	0.943	0.295	"		0.972				3.08	25	
Benzyl chloride	ND	0.477	"		ND					25	
Bromodichloromethane	ND	0.618	"		ND					25	
Bromoform	ND	0.953	"		ND					25	
Bromomethane	ND	0.358	"		ND					25	
Carbon disulfide	ND	0.287	"		ND					25	
Carbon tetrachloride	0.406	0.145	"		0.406				0.00	25	
Chlorobenzene	ND	0.424	"		ND					25	
Chloroethane	ND	0.243	"		ND					25	
Chloroform	1.26	0.450	"		1.22				3.64	25	
Chloromethane	1.71	0.190	"		2.09				20.0	25	
cis-1,2-Dichloroethylene	ND	0.183	"		ND					25	
cis-1,3-Dichloropropylene	ND	0.418	"		ND					25	
Cyclohexane	ND	0.317	"		ND					25	
Dibromochloromethane	ND	0.785	"		ND					25	
Dichlorodifluoromethane	3.01	0.456	"		3.05				1.50	25	
Ethyl acetate	0.532	0.664	"		0.598				11.8	25	
Ethyl Benzene	0.681	0.400	"		0.641				6.06	25	
Hexachlorobutadiene	ND	0.983	"		ND					25	
Isopropanol	4.01	0.453	"		3.88				3.45	25	
Methyl Methacrylate	ND	0.377	"		ND					25	
Methyl tert-butyl ether (MTBE)	ND	0.332	"		ND					25	
Methylene chloride	0.705	0.641	"		0.705				0.00	25	
Naphthalene	0.580	0.967	"		0.870				40.0	25	Non-dir.
n-Heptane	0.529	0.378	"		0.567				6.90	25	

Volatile Organic Compounds in Air by GC/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BB40705 - EPA TO15 PREP											
Duplicate (BB40705-DUP1) Duplicate	*Source sample: 24A1627-02 (Duplicate)								Prepared: 02/08/2024 Analyzed: 02/09/2024		
n-Hexane	0.487	0.325	ug/m³		0.422				14.3	25	
o-Xylene	0.440	0.400	"		0.360				20.0	25	
p- & m- Xylenes	1.24	0.801	"		1.00				21.4	25	
p-Ethyltoluene	0.408	0.453	"		0.363				11.8	25	
Propylene	ND	0.159	"		ND					25	
Styrene	0.236	0.393	"		0.236				0.00	25	
Tetrachloroethylene	0.688	0.625	"		0.750				8.70	25	
Tetrahydrofuran	ND	0.544	"		ND					25	
Toluene	1.74	0.347	"		1.88				7.69	25	
trans-1,2-Dichloroethylene	ND	0.366	"		ND					25	
trans-1,3-Dichloropropylene	ND	0.418	"		ND					25	
Trichloroethylene	ND	0.124	"		ND					25	
Trichlorofluoromethane (Freon 11)	1.40	0.518	"		1.40				0.00	25	
Vinyl acetate	ND	0.325	"		ND					25	
Vinyl bromide	ND	0.403	"		ND					25	
Vinyl Chloride	ND	0.118	"		ND					25	
Xylenes, Total	1.68	1.20	"		1.36				21.1	200	
Batch BB41189 - EPA TO15 PREP											
Blank (BB41189-BLK1) Blank									Prepared & Analyzed: 02/19/2024		
1,1,1,2-Tetrachloroethane	ND	0.687	ug/m³								
1,1,1-Trichloroethane	ND	0.546	"								
1,1,2,2-Tetrachloroethane	ND	0.687	"								
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.766	"								
1,1,2-Trichloroethane	ND	0.546	"								
1,1-Dichloroethane	ND	0.405	"								
1,1-Dichloroethylene	ND	0.198	"								
1,2,4-Trichlorobenzene	0.742	0.742	"								
1,2,4-Trimethylbenzene	ND	0.492	"								
1,2-Dibromoethane	ND	0.768	"								
1,2-Dichlorobenzene	ND	0.601	"								
1,2-Dichloroethane	ND	0.405	"								
1,2-Dichloropropane	ND	0.462	"								
1,2-Dichlorotetrafluoroethane	ND	0.699	"								
1,3,5-Trimethylbenzene	ND	0.492	"								
1,3-Butadiene	ND	0.664	"								
1,3-Dichlorobenzene	ND	0.601	"								
1,3-Dichloropropane	ND	0.462	"								
1,4-Dichlorobenzene	ND	0.601	"								
1,4-Dioxane	ND	0.721	"								
2-Butanone	ND	0.295	"								
2-Hexanone	ND	0.819	"								
3-Chloropropene	ND	1.57	"								
4-Methyl-2-pentanone	ND	0.410	"								
Acetone	ND	0.475	"								
Acrylonitrile	ND	0.217	"								
Benzene	ND	0.319	"								
Benzyl chloride	ND	0.518	"								
Bromodichloromethane	ND	0.670	"								
Bromoform	ND	1.03	"								

Volatile Organic Compounds in Air by GC/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BB41189 - EPA TO15 PREP											
Blank (BB41189-BLK1) Blank									Prepared & Analyzed: 02/19/2024		
Bromomethane	ND	0.388	ug/m³								
Carbon disulfide	ND	0.311	"								
Carbon tetrachloride	ND	0.157	"								
Chlorobenzene	ND	0.460	"								
Chloroethane	ND	0.264	"								
Chloroform	ND	0.488	"								
Chloromethane	ND	0.207	"								
cis-1,2-Dichloroethylene	ND	0.198	"								
cis-1,3-Dichloropropylene	ND	0.454	"								
Cyclohexane	ND	0.344	"								
Dibromochloromethane	ND	0.852	"								
Dichlorodifluoromethane	ND	0.495	"								
Ethyl acetate	ND	0.721	"								
Ethyl Benzene	ND	0.434	"								
Hexachlorobutadiene	ND	1.07	"								
Isopropanol	0.590	0.492	"								
Methyl Methacrylate	ND	0.409	"								
Methyl tert-butyl ether (MTBE)	ND	0.361	"								
Methylene chloride	ND	0.695	"								
Naphthalene	ND	1.05	"								
n-Heptane	ND	0.410	"								
n-Hexane	ND	0.352	"								
o-Xylene	ND	0.434	"								
p- & m- Xylenes	ND	0.868	"								
p-Ethyltoluene	ND	0.492	"								
Propylene	ND	0.172	"								
Styrene	ND	0.426	"								
Tetrachloroethylene	ND	0.678	"								
Tetrahydrofuran	ND	0.590	"								
Toluene	ND	0.377	"								
trans-1,2-Dichloroethylene	ND	0.396	"								
trans-1,3-Dichloropropylene	ND	0.454	"								
Trichloroethylene	ND	0.134	"								
Trichlorofluoromethane (Freon 11)	ND	0.562	"								
Vinyl acetate	ND	0.352	"								
Vinyl bromide	ND	0.437	"								
Vinyl Chloride	ND	0.128	"								
Xylenes, Total	ND	1.30	"								

Volatile Organic Compounds in Air by GC/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BB41189 - EPA TO15 PREP											
LCS (BB41189-BS1) LCS								Prepared & Analyzed: 02/19/2024			
1,1,1,2-Tetrachloroethane	11.0		ppbv	10.0		110	70-130				
1,1,1-Trichloroethane	10.6		"	10.0		106	70-130				
1,1,2,2-Tetrachloroethane	10.2		"	10.0		102	70-130				
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	10.9		"	10.0		109	70-130				
1,1,2-Trichloroethane	10.1		"	10.0		101	70-130				
1,1-Dichloroethane	11.0		"	10.0		110	70-130				
1,1-Dichloroethylene	11.3		"	10.0		113	70-130				
1,2,4-Trichlorobenzene	7.00		"	10.0		70.0	70-130				
1,2,4-Trimethylbenzene	11.8		"	10.0		118	70-130				
1,2-Dibromoethane	9.61		"	10.0		96.1	70-130				
1,2-Dichlorobenzene	10.8		"	10.0		108	70-130				
1,2-Dichloroethane	10.9		"	10.0		109	70-130				
1,2-Dichloropropane	10.8		"	10.0		108	70-130				
1,2-Dichlorotetrafluoroethane	12.0		"	10.0		120	70-130				
1,3,5-Trimethylbenzene	11.7		"	10.0		117	70-130				
1,3-Butadiene	12.3		"	10.0		123	70-130				
1,3-Dichlorobenzene	11.0		"	10.0		110	70-130				
1,3-Dichloropropane	10.4		"	10.0		104	70-130				
1,4-Dichlorobenzene	10.9		"	10.0		109	70-130				
1,4-Dioxane	10.0		"	10.0		100	70-130				
2-Butanone	11.0		"	10.0		110	70-130				
2-Hexanone	9.44		"	10.0		94.4	70-130				
3-Chloropropene	9.64		"	10.0		96.4	70-130				
4-Methyl-2-pentanone	10.7		"	10.0		107	70-130				
Acetone	11.2		"	10.0		112	70-130				
Acrylonitrile	9.16		"	10.0		91.6	70-130				
Benzene	10.2		"	10.0		102	70-130				
Benzyl chloride	9.98		"	10.0		99.8	70-130				
Bromodichloromethane	10.6		"	10.0		106	70-130				
Bromoform	10.2		"	10.0		102	70-130				
Bromomethane	10.7		"	10.0		107	70-130				
Carbon disulfide	9.80		"	10.0		98.0	70-130				
Carbon tetrachloride	11.7		"	10.0		117	70-130				
Chlorobenzene	10.9		"	10.0		109	70-130				
Chloroethane	10.8		"	10.0		108	70-130				
Chloroform	10.8		"	10.0		108	70-130				
Chloromethane	11.3		"	10.0		113	70-130				
cis-1,2-Dichloroethylene	9.85		"	10.0		98.5	70-130				
cis-1,3-Dichloropropylene	9.47		"	10.0		94.7	70-130				
Cyclohexane	10.7		"	10.0		107	70-130				
Dibromochloromethane	9.48		"	10.0		94.8	70-130				
Dichlorodifluoromethane	11.8		"	10.0		118	70-130				
Ethyl acetate	9.61		"	10.0		96.1	70-130				
Ethyl Benzene	11.5		"	10.0		115	70-130				
Hexachlorobutadiene	11.0		"	10.0		110	70-130				
Isopropanol	10.2		"	10.0		102	70-130				
Methyl Methacrylate	10.0		"	10.0		100	70-130				
Methyl tert-butyl ether (MTBE)	10.6		"	10.0		106	70-130				
Methylene chloride	10.8		"	10.0		108	70-130				
Naphthalene	4.75		"	10.0		47.5	70-130	Low Bias			
n-Heptane	10.6		"	10.0		106	70-130				

Volatile Organic Compounds in Air by GC/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BB41189 - EPA TO15 PREP											
LCS (BB41189-BS1) LCS								Prepared & Analyzed: 02/19/2024			
n-Hexane	10.9		ppbv	10.0		109	70-130				
o-Xylene	11.4		"	10.0		114	70-130				
p- & m- Xylenes	23.4		"	20.0		117	70-130				
p-Ethyltoluene	12.2		"	10.0		122	70-130				
Propylene	10.0		"	10.0		100	70-130				
Styrene	11.9		"	10.0		119	70-130				
Tetrachloroethylene	9.23		"	10.0		92.3	70-130				
Tetrahydrofuran	11.6		"	10.0		116	70-130				
Toluene	10.3		"	10.0		103	70-130				
trans-1,2-Dichloroethylene	10.8		"	10.0		108	70-130				
trans-1,3-Dichloropropylene	9.06		"	10.0		90.6	70-130				
Trichloroethylene	11.6		"	10.0		116	70-130				
Trichlorofluoromethane (Freon 11)	11.4		"	10.0		114	70-130				
Vinyl acetate	7.69		"	10.0		76.9	70-130				
Vinyl bromide	10.9		"	10.0		109	70-130				
Vinyl Chloride	12.5		"	10.0		125	70-130				
Xylenes, Total	151	1.30	ug/m³								
Duplicate (BB41189-DUP1) Duplicate	*Source sample: 24B0409-01 (Duplicate)							Prepared: 02/19/2024 Analyzed: 02/21/2024			
1,1,1,2-Tetrachloroethane	ND	1.20	ug/m³		ND					25	
1,1,1-Trichloroethane	ND	0.950	"		ND					25	
1,1,2,2-Tetrachloroethane	ND	1.20	"		ND					25	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.33	"		ND					25	
1,1,2-Trichloroethane	ND	0.950	"		ND					25	
1,1-Dichloroethane	ND	0.705	"		ND					25	
1,1-Dichloroethylene	ND	0.345	"		ND					25	
1,2,4-Trichlorobenzene	ND	1.29	"		ND					25	
1,2,4-Trimethylbenzene	1.54	0.856	"		5.99				118	25	Non-dir.
1,2-Dibromoethane	ND	1.34	"		ND					25	
1,2-Dichlorobenzene	ND	1.05	"		ND					25	
1,2-Dichloroethane	ND	0.705	"		ND					25	
1,2-Dichloropropane	ND	0.804	"		ND					25	
1,2-Dichlorotetrafluoroethane	ND	1.22	"		ND					25	
1,3,5-Trimethylbenzene	ND	0.856	"		1.46					25	
1,3-Butadiene	ND	1.16	"		ND					25	
1,3-Dichlorobenzene	ND	1.05	"		ND					25	
1,3-Dichloropropane	ND	0.805	"		ND					25	
1,4-Dichlorobenzene	ND	1.05	"		ND					25	
1,4-Dioxane	ND	1.25	"		ND					25	
2-Butanone	23.6	0.513	"		0.719				188	25	Non-dir.
2-Hexanone	ND	1.43	"		ND					25	
3-Chloropropene	ND	2.72	"		ND					25	
4-Methyl-2-pentanone	3.21	0.713	"		ND					25	
Acetone	21.3	0.827	"		8.93				81.8	25	Non-dir.
Acrylonitrile	ND	0.378	"		2.83					25	
Benzene	ND	0.556	"		0.723					25	
Benzyl chloride	ND	0.901	"		ND					25	
Bromodichloromethane	ND	1.17	"		ND					25	
Bromoform	ND	1.80	"		ND					25	
Bromomethane	ND	0.676	"		ND					25	
Carbon disulfide	1.46	0.542	"		ND					25	

Volatile Organic Compounds in Air by GC/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BB41189 - EPA TO15 PREP											
Duplicate (BB41189-DUP1) Duplicate	*Source sample: 24B0409-01 (Duplicate)								Prepared: 02/19/2024 Analyzed: 02/21/2024		
Carbon tetrachloride	ND	0.274	ug/m³		0.438					25	
Chlorobenzene	ND	0.802	"		ND					25	
Chloroethane	ND	0.459	"		ND					25	
Chloroform	1.53	0.850	"		ND					25	
Chloromethane	0.611	0.360	"		1.55				86.7	25	Non-dir.
cis-1,2-Dichloroethylene	ND	0.345	"		ND					25	
cis-1,3-Dichloropropylene	ND	0.790	"		ND					25	
Cyclohexane	17.6	0.599	"		ND					25	
Dibromochloromethane	ND	1.48	"		ND					25	
Dichlorodifluoromethane	2.67	0.861	"		2.76				3.17	25	
Ethyl acetate	2.63	1.25	"		ND					25	
Ethyl Benzene	2.19	0.756	"		0.832				90.0	25	Non-dir.
Hexachlorobutadiene	ND	1.86	"		ND					25	
Isopropanol	2.01	0.856	"		2.82				33.6	25	Non-dir.
Methyl Methacrylate	ND	0.713	"		ND					25	
Methyl tert-butyl ether (MTBE)	ND	0.628	"		ND					25	
Methylene chloride	ND	1.21	"		5.68					25	
Naphthalene	ND	1.83	"		ND					25	
n-Heptane	5.28	0.714	"		0.428				170	25	Non-dir.
n-Hexane	59.2	0.614	"		0.552				196	25	Non-dir.
o-Xylene	0.907	0.756	"		1.51				50.0	25	Non-dir.
p- & m- Xylenes	1.51	1.51	"		3.40				76.9	25	Non-dir.
p-Ethyltoluene	1.11	0.856	"		4.19				116	25	Non-dir.
Propylene	ND	0.300	"		ND					25	
Styrene	ND	0.742	"		ND					25	
Tetrachloroethylene	ND	1.18	"		ND					25	
Tetrahydrofuran	ND	1.03	"		ND					25	
Toluene	1.84	0.656	"		1.51				19.6	25	
trans-1,2-Dichloroethylene	ND	0.690	"		ND					25	
trans-1,3-Dichloropropylene	ND	0.790	"		ND					25	
Trichloroethylene	ND	0.234	"		ND					25	
Trichlorofluoromethane (Freon 11)	0.978	0.978	"		1.47				40.0	25	Non-dir.
Vinyl acetate	ND	0.613	"		ND					25	
Vinyl bromide	ND	0.762	"		ND					25	
Vinyl Chloride	ND	0.223	"		ND					25	
Xylenes, Total	2.42	2.27	"		4.91				68.0	200	

Volatile Organic Compounds in Air by GC/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BB41369 - EPA TO15 PREP											
Blank (BB41369-BLK1) Blank									Prepared & Analyzed: 02/20/2024		
1,1,1,2-Tetrachloroethane	ND	0.687	ug/m³								
1,1,1-Trichloroethane	ND	0.546	"								
1,1,2,2-Tetrachloroethane	ND	0.687	"								
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.766	"								
1,1,2-Trichloroethane	ND	0.546	"								
1,1-Dichloroethane	ND	0.405	"								
1,1-Dichloroethylene	ND	0.198	"								
1,2,4-Trichlorobenzene	1.11	0.742	"								
1,2,4-Trimethylbenzene	ND	0.492	"								
1,2-Dibromoethane	ND	0.768	"								
1,2-Dichlorobenzene	ND	0.601	"								
1,2-Dichloroethane	ND	0.405	"								
1,2-Dichloropropane	ND	0.462	"								
1,2-Dichlorotetrafluoroethane	ND	0.699	"								
1,3,5-Trimethylbenzene	ND	0.492	"								
1,3-Butadiene	ND	0.664	"								
1,3-Dichlorobenzene	ND	0.601	"								
1,3-Dichloropropane	ND	0.462	"								
1,4-Dichlorobenzene	ND	0.601	"								
1,4-Dioxane	ND	0.721	"								
2-Butanone	ND	0.295	"								
2-Hexanone	ND	0.819	"								
3-Chloropropene	ND	1.57	"								
4-Methyl-2-pentanone	ND	0.410	"								
Acetone	ND	0.475	"								
Acrylonitrile	ND	0.217	"								
Benzene	ND	0.319	"								
Benzyl chloride	ND	0.518	"								
Bromodichloromethane	ND	0.670	"								
Bromoform	ND	1.03	"								
Bromomethane	ND	0.388	"								
Carbon disulfide	ND	0.311	"								
Carbon tetrachloride	ND	0.157	"								
Chlorobenzene	ND	0.460	"								
Chloroethane	ND	0.264	"								
Chloroform	ND	0.488	"								
Chloromethane	ND	0.207	"								
cis-1,2-Dichloroethylene	ND	0.198	"								
cis-1,3-Dichloropropylene	ND	0.454	"								
Cyclohexane	ND	0.344	"								
Dibromochloromethane	ND	0.852	"								
Dichlorodifluoromethane	ND	0.495	"								
Ethyl acetate	ND	0.721	"								
Ethyl Benzene	ND	0.434	"								
Hexachlorobutadiene	ND	1.07	"								
Isopropanol	0.565	0.492	"								
Methyl Methacrylate	ND	0.409	"								
Methyl tert-butyl ether (MTBE)	ND	0.361	"								
Methylene chloride	ND	0.695	"								
Naphthalene	1.05	1.05	"								
n-Heptane	ND	0.410	"								

Volatile Organic Compounds in Air by GC/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BB41369 - EPA TO15 PREP											
Blank (BB41369-BLK1) Blank									Prepared & Analyzed: 02/20/2024		
n-Hexane	ND	0.352	ug/m³								
o-Xylene	ND	0.434	"								
p- & m- Xylenes	ND	0.868	"								
p-Ethyltoluene	ND	0.492	"								
Propylene	ND	0.172	"								
Styrene	ND	0.426	"								
Tetrachloroethylene	ND	0.678	"								
Tetrahydrofuran	ND	0.590	"								
Toluene	ND	0.377	"								
trans-1,2-Dichloroethylene	ND	0.396	"								
trans-1,3-Dichloropropylene	ND	0.454	"								
Trichloroethylene	ND	0.134	"								
Trichlorofluoromethane (Freon 11)	ND	0.562	"								
Vinyl acetate	ND	0.352	"								
Vinyl bromide	ND	0.437	"								
Vinyl Chloride	ND	0.128	"								
Xylenes, Total	ND	1.30	"								
LCS (BB41369-BS1) LCS									Prepared & Analyzed: 02/20/2024		
1,1,1,2-Tetrachloroethane	10.5		ppbv	10.0		105	70-130				
1,1,1-Trichloroethane	9.64		"	10.0		96.4	70-130				
1,1,2,2-Tetrachloroethane	9.70		"	10.0		97.0	70-130				
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	10.2		"	10.0		102	70-130				
1,1,2-Trichloroethane	9.72		"	10.0		97.2	70-130				
1,1-Dichloroethane	10.4		"	10.0		104	70-130				
1,1-Dichloroethylene	10.5		"	10.0		105	70-130				
1,2,4-Trichlorobenzene	7.24		"	10.0		72.4	70-130				
1,2,4-Trimethylbenzene	11.5		"	10.0		115	70-130				
1,2-Dibromoethane	9.30		"	10.0		93.0	70-130				
1,2-Dichlorobenzene	10.5		"	10.0		105	70-130				
1,2-Dichloroethane	10.2		"	10.0		102	70-130				
1,2-Dichloropropane	10.2		"	10.0		102	70-130				
1,2-Dichlorotetrafluoroethane	11.3		"	10.0		113	70-130				
1,3,5-Trimethylbenzene	10.8		"	10.0		108	70-130				
1,3-Butadiene	11.6		"	10.0		116	70-130				
1,3-Dichlorobenzene	10.7		"	10.0		107	70-130				
1,3-Dichloropropane	10.1		"	10.0		101	70-130				
1,4-Dichlorobenzene	10.6		"	10.0		106	70-130				
1,4-Dioxane	10.5		"	10.0		105	70-130				
2-Butanone	10.3		"	10.0		103	70-130				
2-Hexanone	9.67		"	10.0		96.7	70-130				
3-Chloropropene	8.94		"	10.0		89.4	70-130				
4-Methyl-2-pentanone	10.8		"	10.0		108	70-130				
Acetone	10.3		"	10.0		103	70-130				
Acrylonitrile	8.49		"	10.0		84.9	70-130				
Benzene	9.43		"	10.0		94.3	70-130				
Benzyl chloride	9.78		"	10.0		97.8	70-130				
Bromodichloromethane	10.0		"	10.0		100	70-130				
Bromoform	9.60		"	10.0		96.0	70-130				
Bromomethane	9.86		"	10.0		98.6	70-130				
Carbon disulfide	9.00		"	10.0		90.0	70-130				

Volatile Organic Compounds in Air by GC/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BB41369 - EPA TO15 PREP											
LCS (BB41369-BS1) LCS								Prepared & Analyzed: 02/20/2024			
Carbon tetrachloride	10.8		ppbv	10.0		108	70-130				
Chlorobenzene	10.4		"	10.0		104	70-130				
Chloroethane	9.90		"	10.0		99.0	70-130				
Chloroform	9.98		"	10.0		99.8	70-130				
Chloromethane	10.5		"	10.0		105	70-130				
cis-1,2-Dichloroethylene	9.82		"	10.0		98.2	70-130				
cis-1,3-Dichloropropylene	9.35		"	10.0		93.5	70-130				
Cyclohexane	9.82		"	10.0		98.2	70-130				
Dibromochloromethane	8.92		"	10.0		89.2	70-130				
Dichlorodifluoromethane	10.9		"	10.0		109	70-130				
Ethyl acetate	8.77		"	10.0		87.7	70-130				
Ethyl Benzene	10.9		"	10.0		109	70-130				
Hexachlorobutadiene	11.3		"	10.0		113	70-130				
Isopropanol	9.71		"	10.0		97.1	70-130				
Methyl Methacrylate	9.55		"	10.0		95.5	70-130				
Methyl tert-butyl ether (MTBE)	9.87		"	10.0		98.7	70-130				
Methylene chloride	9.98		"	10.0		99.8	70-130				
Naphthalene	4.85		"	10.0		48.5	70-130	Low Bias			
n-Heptane	9.93		"	10.0		99.3	70-130				
n-Hexane	10.1		"	10.0		101	70-130				
o-Xylene	10.9		"	10.0		109	70-130				
p- & m- Xylenes	22.0		"	20.0		110	70-130				
p-Ethyltoluene	11.9		"	10.0		119	70-130				
Propylene	9.30		"	10.0		93.0	70-130				
Styrene	11.4		"	10.0		114	70-130				
Tetrachloroethylene	8.94		"	10.0		89.4	70-130				
Tetrahydrofuran	10.7		"	10.0		107	70-130				
Toluene	9.82		"	10.0		98.2	70-130				
trans-1,2-Dichloroethylene	10.2		"	10.0		102	70-130				
trans-1,3-Dichloropropylene	8.62		"	10.0		86.2	70-130				
Trichloroethylene	11.2		"	10.0		112	70-130				
Trichlorofluoromethane (Freon 11)	10.6		"	10.0		106	70-130				
Vinyl acetate	7.12		"	10.0		71.2	70-130				
Vinyl bromide	10.1		"	10.0		101	70-130				
Vinyl Chloride	11.8		"	10.0		118	70-130				
Xylenes, Total	143	1.30	ug/m³								

Volatile Organic Compounds in Air by GC/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BB41369 - EPA TO15 PREP											
Duplicate (BB41369-DUP1) Duplicate	*Source sample: 24B0467-04 (Duplicate)								Prepared: 02/20/2024 Analyzed: 02/21/2024		
1,1,1,2-Tetrachloroethane	ND	1.02	ug/m³		ND					25	
1,1,1-Trichloroethane	ND	0.809	"		ND					25	
1,1,2,2-Tetrachloroethane	ND	1.02	"		ND					25	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.14	"		ND					25	
1,1,2-Trichloroethane	ND	0.809	"		ND					25	
1,1-Dichloroethane	ND	0.600	"		ND					25	
1,1-Dichloroethylene	ND	0.294	"		ND					25	
1,2,4-Trichlorobenzene	ND	1.10	"		ND					25	
1,2,4-Trimethylbenzene	6.05	0.729	"		6.19				2.38	25	
1,2-Dibromoethane	ND	1.14	"		ND					25	
1,2-Dichlorobenzene	ND	0.891	"		ND					25	
1,2-Dichloroethane	ND	0.600	"		ND					25	
1,2-Dichloropropane	ND	0.685	"		ND					25	
1,2-Dichlorotetrafluoroethane	ND	1.04	"		ND					25	
1,3,5-Trimethylbenzene	ND	0.729	"		ND					25	
1,3-Butadiene	0.951	0.984	"		0.852				10.9	25	
1,3-Dichlorobenzene	ND	0.891	"		ND					25	
1,3-Dichloropropane	ND	0.685	"		ND					25	
1,4-Dichlorobenzene	ND	0.891	"		ND					25	
1,4-Dioxane	ND	1.07	"		ND					25	
2-Butanone	68.0	0.437	"		67.2				1.16	25	
2-Hexanone	16.9	1.21	"		17.5				3.52	25	
3-Chloropropene	ND	2.32	"		ND					25	
4-Methyl-2-pentanone	ND	0.607	"		ND					25	
Acetone	118	0.704	"		113				3.60	25	
Acrylonitrile	ND	0.322	"		ND					25	
Benzene	6.63	0.473	"		ND					25	
Benzyl chloride	ND	0.767	"		ND					25	
Bromodichloromethane	ND	0.993	"		ND					25	
Bromoform	ND	1.53	"		ND					25	
Bromomethane	ND	0.575	"		ND					25	
Carbon disulfide	91.1	0.462	"		88.2				3.19	25	
Carbon tetrachloride	ND	0.233	"		ND					25	
Chlorobenzene	ND	0.682	"		ND					25	
Chloroethane	ND	0.391	"		ND					25	
Chloroform	1.37	0.724	"		1.30				5.41	25	
Chloromethane	ND	0.306	"		ND					25	
cis-1,2-Dichloroethylene	ND	0.294	"		ND					25	
cis-1,3-Dichloropropylene	ND	0.673	"		ND					25	
Cyclohexane	0.867	0.510	"		0.816				6.06	25	
Dibromochloromethane	ND	1.26	"		ND					25	
Dichlorodifluoromethane	2.86	0.733	"		2.78				2.60	25	
Ethyl acetate	ND	1.07	"		ND					25	
Ethyl Benzene	3.93	0.644	"		3.86				1.65	25	
Hexachlorobutadiene	ND	1.58	"		ND					25	
Isopropanol	3.39	0.729	"		3.21				5.52	25	
Methyl Methacrylate	ND	0.607	"		ND					25	
Methyl tert-butyl ether (MTBE)	ND	0.534	"		ND					25	
Methylene chloride	0.721	1.03	"		0.669				7.41	25	
Naphthalene	1.32	1.55	"		1.63				21.1	25	
n-Heptane	41.2	0.607	"		40.7				1.19	25	

Volatile Organic Compounds in Air by GC/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BB41369 - EPA TO15 PREP											
Duplicate (BB41369-DUP1) Duplicate	*Source sample: 24B0467-04 (Duplicate)								Prepared: 02/20/2024 Analyzed: 02/21/2024		
n-Hexane	26.2	0.522	ug/m³		25.0				4.49	25	
o-Xylene	4.25	0.643	"		4.18				1.53	25	
p- & m- Xylenes	62.0	1.29	"		61.8				0.312	25	
p-Ethyltoluene	ND	0.729	"		ND					25	
Propylene	15.8	0.255	"		16.3				3.18	25	
Styrene	0.568	0.631	"		ND					25	
Tetrachloroethylene	9.05	1.01	"		8.85				2.25	25	
Tetrahydrofuran	ND	0.874	"		ND					25	
Toluene	10.8	0.558	"		10.6				2.08	25	
trans-1,2-Dichloroethylene	ND	0.588	"		ND					25	
trans-1,3-Dichloropropylene	ND	0.673	"		ND					25	
Trichloroethylene	ND	0.199	"		ND					25	
Trichlorofluoromethane (Freon 11)	ND	0.833	"		ND					25	
Vinyl acetate	ND	0.522	"		ND					25	
Vinyl bromide	ND	0.648	"		ND					25	
Vinyl Chloride	ND	0.189	"		ND					25	
Xylenes, Total	66.2	1.93	"		66.0				0.389	200	

Sample and Data Qualifiers Relating to This Work Order

TO-LCS-L	The result reported for this compound may be biased low due to its behavior in the analysis batch LCS where it recovered less 70% of the expected value.
TO-CCV	The value reported is ESTIMATED for this compound due to its behavior during continuing calibration verification (>30% Difference from initial calibration).
QR-01	Analyses are not controlled on RPD values from sample concentrations less than 10 times the reporting limit. QC batch accepted based on LCS and/or LCSD QC results.
B	Analyte is found in the associated analysis batch blank. For volatiles, methylene chloride and acetone are common lab contaminants.

Definitions and Other Explanations

*	Analyte is not certified or the state of the samples origination does not offer certification for the Analyte.
ND	NOT DETECTED - the analyte is not detected at the Reported to level (LOQ/RL or LOD/MDL)
RL	REPORTING LIMIT - the minimum reportable value based upon the lowest point in the analyte calibration curve.
LOQ	LIMIT OF QUANTITATION - the minimum concentration of a target analyte that can be reported within a specified degree of confidence. This is the lowest point in an analyte calibration curve that has been subjected to all steps of the processing/analysis and verified to meet defined criteria. This is based upon NELAC 2009 Standards and applies to all analyses.
LOD	LIMIT OF DETECTION - a verified estimate of the minimum concentration of a substance in a given matrix that an analytical process can reliably detect. This is based upon NELAC 2009 Standards and applies to all analyses conducted under the auspices of EPA SW-846.
MDL	METHOD DETECTION LIMIT - a statistically derived estimate of the minimum amount of a substance an analytical system can reliably detect with a 99% confidence that the concentration of the substance is greater than zero. This is based upon 40 CFR Part 136 Appendix B and applies only to EPA 600 and 200 series methods.
Reported to	This indicates that the data for a particular analysis is reported to either the LOD/MDL, or the LOQ/RL. In cases where the "Reported to" is located above the LOD/MDL, any value between this and the LOQ represents an estimated value which is "J" flagged accordingly. This applies to volatile and semi-volatile target compounds only.
NR	Not reported
RPD	Relative Percent Difference
Wet	The data has been reported on an as-received (wet weight) basis
Low Bias	Low Bias flag indicates that the recovery of the flagged analyte is below the laboratory or regulatory lower control limit. The data user should take note that this analyte may be biased low but should evaluate multiple lines of evidence including the LCS and site-specific MS/MSD data to draw bias conclusions. In cases where no site-specific MS/MSD was requested, only the LCS data can be used to evaluate such bias.
High Bias	High Bias flag indicates that the recovery of the flagged analyte is above the laboratory or regulatory upper control limit. The data user should take note that this analyte may be biased high but should evaluate multiple lines of evidence including the LCS and site-specific MS/MSD data to draw bias conclusions. In cases where no site-specific MS/MSD was requested, only the LCS data can be used to evaluate such bias.
Non-Dir.	Non-dir. flag (Non-Directional Bias) indicates that the Relative Percent Difference (RPD) (a measure of precision) among the MS and MSD data is outside the laboratory or regulatory control limit. This alerts the data user where the MS and MSD are from site-specific samples that the RPD is high due to either non-homogeneous distribution of target analyte between the MS/MSD or indicates poor reproducibility for other reasons.

If EPA SW-846 method 8270 is included herein it is noted that the target compound N-nitrosodiphenylamine (NDPA) decomposes in the gas chromatographic inlet and cannot be separated from diphenylamine (DPA). These results could actually represent 100% DPA, 100% NDPA or some combination of the two. For this reason, York reports the combined result for n-nitrosodiphenylamine and diphenylamine for either of these compounds as a combined concentration as Diphenylamine.

If Total PCBs are detected and the target aroclors reported are "Not detected", the Total PCB value is reported due to the presence of either or both Aroclors 1262 and 1268 which are non-target aroclors for some regulatory lists.

2-chloroethylvinyl ether readily breaks down under acidic conditions. Samples that are acid preserved, including standards will exhibit breakdown. The data user should take note.

Certification for pH is no longer offered by NYDOH ELAP.

Semi-Volatile and Volatile analyses are reported down to the LOD/MDL, with values between the LOD/MDL and the LOQ being "J" flagged as estimated results.

For analyses by EPA SW-846-8270D, the Limit of Quantitation (LOQ) reported for benzidine is based upon the lowest standard used for calibration and is not a verified LOQ due to this compound's propensity for oxidative losses during extraction/concentration procedures and non-reproducible chromatographic performance.

Revision Description: This report has been revised to include Total Xylenes and Naphthalene in Samples and QC.

York Analytical Laboratories, Inc.
120 Research Drive, Stratford, CT 06615 | 132-02 89th Ave Queens, NY 11418
clientservices@yorklab.com
www.yorklab.com

Field Chain-of-Custody Record - AIR

NOTE: YORK's Standard Terms & Conditions are listed on the back side of this document. This document serves as your written authorization for YORK to proceed with the analyses requested below. Your signature binds you to YORK's Standard Terms & Conditions.

YORK Project No. 24130667

YOUR Information	Report To:	Invoice To:
Company: Langan	Company:	Company:
Address: 360 W 31st St, NY, NY 10001	Address:	Address:
Phone.: 212-479-5400	Phone.:	Phone.:
Contact: Greg Wyka	Contact:	Contact:
E-mail: gwyka@langan.com	E-mail:	E-mail:

YOUR Project Number: 170340203

YOUR Project Name: ABC Block 24

YOUR PO#:

Turn-Around Time

RUSH - Next Day	
RUSH - Two Day	
RUSH - Three Day	
RUSH - Four Day	
Standard (5-7 Day)	X

Please print clearly and legibly. All information must be complete. Samples will not be logged in and the turn-around-time clock will not begin until any questions by YORK are resolved.

Samples Collected by: (print your name above and sign below)
Camille Quick
Camille Quick

Air Matrix Codes

AI - Indoor Ambient Air
AO - Outdoor Amb. Air
AE - Vapor Extraction Well/ Process Gas/Effluent
AS - Soil Vapor/Sub-Slab

Samples From

New York	X
New Jersey	
Connecticut	
Pennsylvania	
Other	

Report / EDD Type (circle selections)

Summary Report	CT RCP	Standard Excel EDD
QA Report	CT RCP DQA/DUE	EQuIS (Standard)
NY ASP A Package	NJDEP Reduced Deliv.	NYSDEC EQuIS
NY ASP B Package	NJDKQP	NJDEP SRP HazSite
Other:		

YORK Reg. Comp.
Compared to the following Regulation(s): (please fill in)

Certified Canisters: Batch ___ Individual X

Please enter the following REQUIRED Field Data

Reporting Units: ug/m³ ___ ppbv ___ ppmv ___

Sample Identification	Date/Time Sampled	Air Matrix	Canister Vacuum Before Sampling (in Hg)	Canister Vacuum After Sampling (in Hg)	Canister ID	Flow Cont. ID	Analysis Requested
C241174-BL-1A01_MN30D_021024	2/10/24 1547	AI	-29.5	-5	20605	13559	TO-15 VOCs
C241174-BL-1A02_MN24D_021024	↓ 1539	AI	-29	-5	41844	19410	↓
C241174-AA01_021024	↓ 1550	AO	-29.5	-5	28841	16424	↓

Comments:
cc: datamanagement@langan.com & ainesc@langan.com

Detection Limits Required
≤ 1 ug/m³ ___ NYSDEC V1 Limits ___
Routine Survey ___ Other ___

Sampling Media

6 Liter Canister	X
Tedlar Bag	

Samples Relinquished by / Company	Date/Time	Samples Received by / Company	Date/Time	Samples Relinquished by / Company	Date/Time
Camille Quick (Langan)	2/12/24 1019 AM	[illegible]	2/12/24 1020 AM	PHILIP F. LYNCH	2/12/24 1020
Samples Received by / Company	Date/Time	Samples Relinquished by / Company	Date/Time	Samples Received by / Company	Date/Time
Noel Nu	2/12/24 1020 AM	Noel Nu	2/12/24		
Samples Relinquished by / Company	Date/Time	Samples Received by / Company	Date/Time	Samples Received in LAB by	Date/Time
				[illegible]	02/13/24 1240

APPENDIX D

DATA USABILITY SUMMARY REPORT

LANGAN
ENGINEERING & ENVIRONMENTAL SERVICES

Technical Memorandum

1 University Square Drive Princeton, NJ 08540 T: 609.282.8000
Mailing Address: 1 University Square Drive Princeton, NJ 08540

To: Greg Wyka, Langan Senior Project Geologist

From: Joe Conboy, Langan Senior Staff Chemist

Date: March 13, 2024

Re: Data Usability Summary Report
For ABC Block 26
February 2024 Soil Vapor and Ambient Air Samples
Langan Project No.: 170340203

This memorandum presents the findings of an analytical data validation of the data generated from the analysis of air samples collected in February 2024 by Langan Engineering and Environmental Services at the ABC Block 26 site. The samples were analyzed by York Analytical Laboratories, Inc. (NYSDOH NELAP registration # 10854 and 12058) for volatile organic compounds (VOCs) by the methods specified below.

- VOCs by USEPA Method TO-15

Table 1, attached, summarizes the laboratory and client sample identification numbers, sample collection dates, and analytical parameters subject to review.

Validation Overview

This data validation was performed in accordance with the following guidelines, where applicable:

- USEPA Region II Standard Operating Procedure (SOP) #HW-31, "Analysis of Volatile Organic Compounds in Air Contained in Canisters by Method TO-15" (September 2016, Revision 6),
- USEPA Contract Laboratory Program "National Functional Guidelines for Organic Superfund Methods Data Review" (EPA 540- R-20-005, November 2020), and
- published analytical methodologies.

Validation includes review of the analytical data to verify that data are easily traceable and sufficiently complete to permit logical reconstruction by a qualified individual other than the originator.

Tier 1 data validation is based on completeness and compliance checks of sample-related QC results including: sample receipt documentation; analytical holding times; sample preservation; blank results (method, field, and trip); surrogate recoveries; MS/MSD recoveries and RPDs

values; field duplicate RPDs, laboratory duplicate RPDs, and LCS/LCSD recoveries and RPDs. The SDGs 24B0667 and 24B1051 underwent Tier 1 validation review.

As a result of the review process, the following qualifiers may be assigned to the data in accordance with the USEPA's guidelines and best professional judgment:

- **R –** The sample results are unusable because certain criteria were not met when generating the data. The analyte may or may not be present in the sample.
- **J –** The analyte was positively identified and the associated numerical value is the approximate concentration of the analyte in the sample.
- **UJ –** The analyte was not detected at a level greater than or equal to the reporting limit; however, the reported reporting limit is approximate and may be inaccurate or imprecise.
- **U –** The analyte was analyzed for, but was not detected at a level greater than or equal to the level of the RL or the sample concentration for results impacted by blank contamination.
- **NJ –** The analysis indicates the presence of an analyte that has been "tentatively identified" and the associated numerical value represents its approximate concentration.

If any validation qualifiers are assigned these qualifiers should supersede any laboratory-applied qualifiers. Data that is not qualified as a result of this data validation is considered acceptable on the basis of the items specified for review. Data that is qualified as "R" are considered invalid and are not technically usable for data interpretation. Data that is otherwise qualified due to minor data quality anomalies are usable, as qualified in Table 2 (attached).

The following acronyms may be used in the discussion of data-quality issues:

%D	Percent Difference	MB	Method Blank
CCV	Continuing Calibration Verification	MDL	Method Detection Limit
FB	Field Blank	MS	Matrix Spike
FD	Field Duplicate	MSD	Matrix Spike Duplicate
ICAL	Initial Calibration	RF	Response Factor
ICV	Initial Calibration Verification	RL	Reporting Limit
ISTD	Internal Standard	RPD	Relative Percent Difference
LCL	Lower Control Limit	RSD	Relative Standard Deviation
LCS	Laboratory Control Sample	TB	Trip Blank
LCSD	Laboratory Control Sample Duplicate	UCL	Upper Control Limit

MAJOR DEFICIENCIES:

Major deficiencies include those that grossly impact data quality and necessitate the rejection of results. No major deficiencies were identified.

MINOR DEFICIENCIES:

Minor deficiencies include anomalies that directly impact data quality and necessitate qualification, but do not result in unusable data. The section below describes the minor deficiencies that were identified.

VOCs by USEPA Method TO-15:

24B0667

The MB for batch BB41189 exhibited a detection of 1,2,4-trichlorobenzene (0.742 ug/m3) and isopropanol (0.590 ug/m3). The associated detected results <10x blank contamination in samples C241174_AA01_021024, C241174_BL-IA01_MW30D_021024, and C241174_BL-IA02_MW34D_021024 are qualified as J because of potential blank contamination.

The batch canister certification 28841 exhibited detections of acrylonitrile (0.33107 ug/m3) and isopropanol (0.675 ug/m3). The associated detected results in sample C241174_AA01_021024 are qualified as J at the sample concentration because of potential blank contamination.

24B1051

The MB for batch BB41689 exhibited detections of acrylonitrile (0.217 ug/m3) and tetrachloroethylene (0.678 ug/m3). The associated detected results in samples C241174_AA02_021724, C241174_LR-IA01_MW30D_021704, and C241174_LR-IA02_MW34D_021704 are qualified as J or as U at the sample concentration because of potential blank contamination. Results that are >10x blank contamination require no qualification.

OTHER DEFICIENCIES:

Other deficiencies include anomalies that do not directly impact data quality and do not necessitate qualification. No other deficiencies were identified.

24B0667

The batch canister certification 41844 exhibited a detection of isopropanol (0.5 ug/m3). The associated results are >10X the contamination. No qualification is necessary.

The batch canister certification 20665 exhibited detections of acrylonitrile (0.37521 ug/m3) and isopropanol (0.650 ug/m3). The associated results are either non-detect or >10X the contamination. No qualification is necessary.

CONCLUSION:

On the basis of this evaluation, the laboratory appears to have followed the specified analytical methods with the exception of errors discussed above. If a given fraction is not mentioned above, that means that all specified criteria were met for that parameter. All of the data packages met ASP Category B requirements.

All data are considered usable, as qualified. In addition, completeness, defined as the percentage of analytical results that are judged to be valid, is 100%.

Signed:

Joe Conboy
Senior Staff Chemist

Data Usability Summary Report
For ABC Block 26
February 2024 Soil Vapor and Ambient Air Samples
Table 1: Sample Summary

SDG	Lab Sample ID	Client Sample ID	Sample Date	Validation Level	Analytical Parameters
24B0667	24B0667-01	C241174_BL-IA01_MW30D_021024	2/10/2024	Tier 1	VOCs by TO-15
24B0667	24B0667-02	C241174_BL-IA02_MW34D_021024	2/10/2024	Tier 1	VOCs by TO-15
24B0667	24B0667-03	C241174_AA01_021024	2/10/2024	Tier 1	VOCs by TO-15
24B1051	24B1051-01	C241174_AA02_021724	2/17/2024	Tier 1	VOCs by TO-15
24B1051	24B1051-02	C241174_LR-IA01_MW30D_021704	2/17/2024	Tier 1	VOCs by TO-15
24B1051	24B1051-03	C241174_LR-IA02_MW34D_021704	2/17/2024	Tier 1	VOCs by TO-15

Data Usability Summary Report
For ABC Block 26
February 2024 Soil Vapor and Ambient Air Samples
Table 2: Validator-Applied Qualification

SDG	Client Sample ID	Analysis	CAS #	Analyte	Validator Qualifier
24B0667	C241174_AA01_021024	TO15	67-63-0	Isopropanol	J
24B1051	C241174_LR-IA01_MW30D_021704	TO15	107-13-1	Acrylonitrile	U(0.336)
24B1051	C241174_LR-IA02_MW34D_021704	TO15	107-13-1	Acrylonitrile	J

APPENDIX E

PHOTOGRAPHIC LOG

Photographic Log

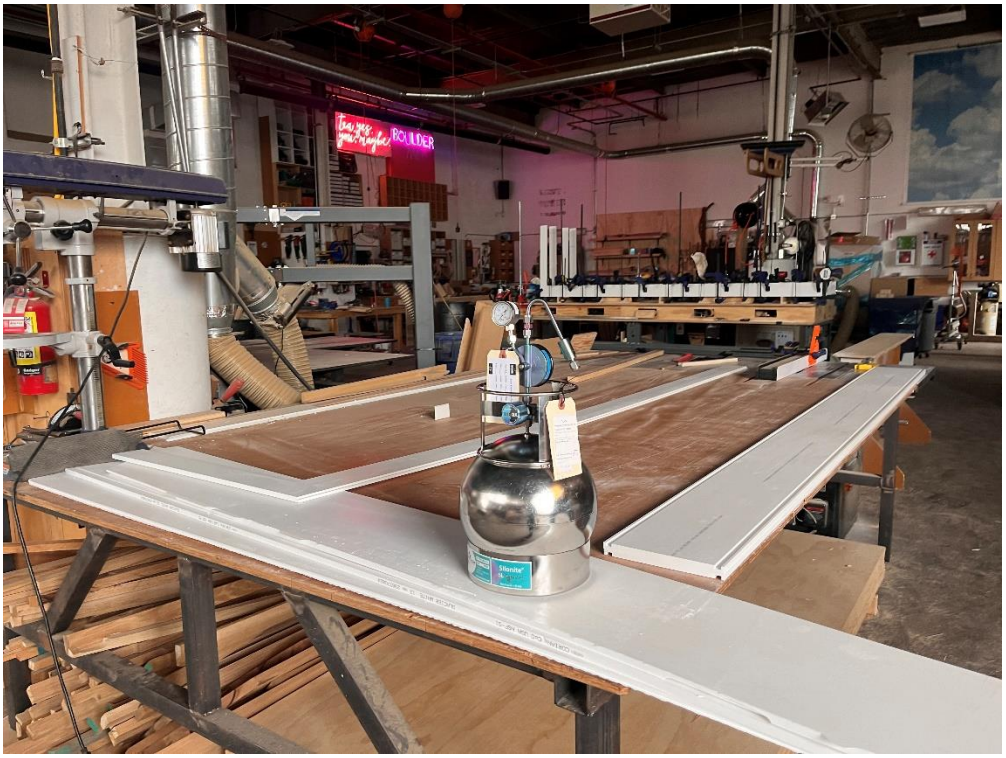


Photo 1 (2/10/2024): View of the baseline indoor air sample next to MW30D

Photo 2 (2/10/2024): View of Langan gauging LNAPL at MW30D

Photo 3 (2/10/2024): View of Langan installing an absorbent sock at MW30D

Photo 4 (2/17/2024): View of the ambient air sample

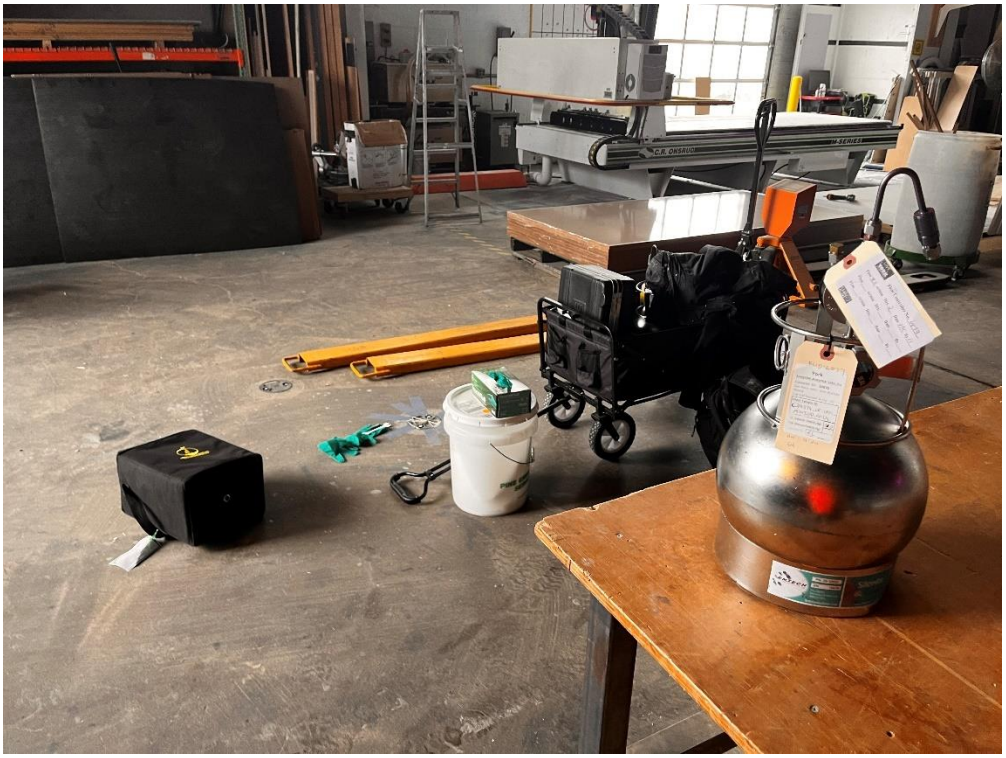


Photo 5 (2/17/2024): View of indoor air sample near MW30D during sock changeout event

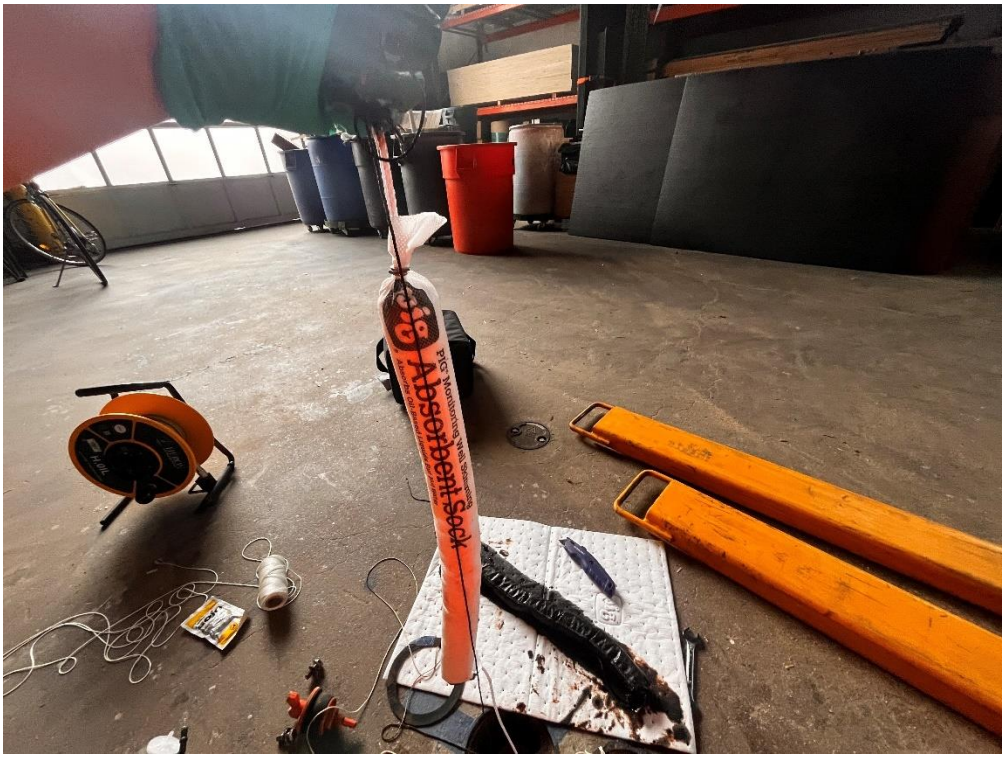


Photo 6 (2/17/2024): View of Langan replacing a spent absorbent sock at MW30D

Photo 7 (2/17/2024): View of indoor air sampling at MW34D during sock changeout event

Photo 8 (2/17/2024): View of Langan gauging LNAPL at MW34D