# 2023 PERIODIC REVIEW REPORT

# for

# 45 COMMERCIAL STREET
# BROOKLYN, NEW YORK 11222
## NYSDEC BCP Site No. C224304

***Prepared for:***

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Introduction

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The site is located at 45 Commercial Street in Brooklyn, New York (identified on the Brooklyn Borough Tax Map as Block 2472, Lot 70) and is about 44,600 square feet (±1.02 acres) in area. The site is bounded by a mixed-use residential and commercial building (1 Bell Slip a/k/a Parcel H3) to the north; a NYC Transit Authority parking lot (65 Commercial Street) to the east; Commercial Street to the south; and Bell Slip (a private roadway) followed by two mixed-use residential and commercial buildings - 37 Blue Slip (a/k/a Parcel G1) and 21 Commercial Street (a/k/a Parcel G2) - to the west. The site was remediated between February 2020 and October 2022 in accordance with an NYSDEC-approved March 22, 2021 Remedial Action Work Plan (RAWP) and April 13, 2021 Decision Document, and received a Certificate of Completion (COC) on December 15, 2022.

Effectiveness of the Remedial Program

The remedial program was designed to eliminate and/or mitigate environmental and potential human health exposure to environmental contamination present in soil and groundwater underlying the site. The remedial program also addressed the perception during remedial design of potential off-site soil vapor contamination. The remedy included Institutional and Engineering Controls (IC/ECs) to address the existing and potential environmental conditions. ICs/ECs for the certification period achieved their remedial objectives.

Compliance with the Site Management Plan (SMP)

All ICs and ECs remain fully in place for the certification period and are effective in achieving their remedial objectives.

Recommendations

It is recommended that the SMP be updated to reflect the modifications to the site cover system and the SMD system that were completed during the certification period. No other changes to the SMP are recommended at this time.

## 2.0 SITE OVERVIEW

Langan Engineering, Environmental, Surveying, Landscape Architecture and Geology, D.P.C. (Langan) prepared this Periodic Review Report (PRR) on behalf of H1H2 Owner, LLC for the property located at 45 Commercial Street in Brooklyn, New York (the site). This PRR covers the 2023 certification period ending on May 15, 2024.

This PRR was prepared in accordance with the New York State Department of Environmental Conservation (NYSDEC)-approved November 14, 2022 Site Management Plan (SMP). A periodic review of all institutional controls and engineering controls (IC/ECs) and a site evaluation are required as part of the December 15, 2022 Certificate of Completion (COC) for the site, which acknowledges that the applicable remediation requirements set forth in the New York State Environmental Conservation Law (ECL) have been achieved to the satisfaction of the NYSDEC Commissioner, pursuant to the April 17, 2020 Brownfield Cleanup Agreement (BCA) Index No. C224304-03-20 (NYSDEC Brownfield Cleanup Program [BCP] Site No. C224304).

### 2.1 Site Description

The site is located at 45 Commercial Street in Brooklyn, New York (identified on the Brooklyn Borough Tax Map as Block 2472, Lot 70) and is about 44,600 square feet (±1.02 acres) in area. The site is bounded by a mixed-use residential and commercial building (1 Bell Slip a/k/a Parcel H3) to the north; a NYC Transit Authority parking lot (65 Commercial Street) to the east; Commercial Street to the south; and Bell Slip (a private roadway) followed by two mixed-use residential and commercial buildings - 37 Blue Slip (a/k/a Parcel G1) and 21 Commercial Street (a/k/a Parcel G2) - to the west. A site location map is provided as Figure 1.

### 2.2 Site History and Summary of Remedial Action

Coal and lumber storage were the primary uses of the site for more than 100 years from the late 1800s until about 1980, when the lumber yard operations were phased out and the owner (Lumber Exchange Terminal, Inc.) began to lease the site to tenants for heavy construction equipment, materials, and machinery storage. The site was most recently used as a staging area for construction trailers and equipment for the redevelopment of the adjoining Parcel H3. Prior to remediation, the site was covered by concrete and/or asphalt pavement and used for vehicle parking.

The site was remediated between February 2020 and October 2022 in accordance with the NYSDEC-approved March 22, 2021 RAWP and April 13, 2021 Decision Document. Based on the completed remedial actions and performance sampling, a Track 4 cleanup was achieved. Implementation of the remedy included the following elements:

1. Remedial excavation and removal of at least two feet of soil/fill across the site, remedial excavation and removal of four hotspots to depths of 4 to 9.5 feet bgs, and development-related excavations for mat foundation slabs, pile caps, and utilities to a maximum depth of 9 feet bgs.
2. Off-site disposal of 5,115.35 tons of soil/fill, including hazardous lead-contaminated soil, for remedial purposes, and an additional 5,110.94 tons of soil/fill for development purposes.
3. Import of 3,162.78 tons of NYSDEC-approved virgin stone for remedial purposes (e.g., stabilized construction entrance, gas permeable aggregate for the sub-membrane depressurization [SMD] system, and site cover system), and an additional 1,832.06 tons for development purposes (e.g., raising site grade and utility bedding).
4. Collection and analysis of documentation soil samples from the base of remedial excavations in accordance with NYSDEC DER-10 to document post-remediation soil quality.
5. Collection and analysis of confirmation soil samples from the base and sidewalls of hotspot excavations in accordance with DER-10 to confirm removal of soil/fill exceeding the Track 4 site-specific SCOs, including hazardous lead and total semivolatile organic compounds (SVOC) exceeding 500 milligrams per kilogram (mg/kg).
6. Installation of a site cover system as an engineering control (EC) as follows:
    a. Building footprint – minimum 12-inch-thick concrete slab
    b. Northern courtyard – minimum 2 feet of imported virgin quarry stone (about 75% of the courtyard in the eastern, southern, and western parts) and a minimum 2-inch-thick concrete slab (about 25% of the courtyard in the northern part)
    c. Eastern courtyard – minimum of 2 feet of imported virgin quarry stone
    d. Southern courtyard – minimum 2-inch-thick concrete slab (about 95% of the courtyard) and a minimum of 2 feet of imported virgin quarry stone (about 5% of the courtyard in the northern part).
7. Installation of components for an active SMD system with a vapor barrier as an EC below the building footprint to mitigate potential soil vapor intrusion risk from an off-site source.
8. Recording of an environmental easement (EE), including institutional controls (IC), to prevent future exposure to any residual contamination remaining at the site.
9. Development of an SMP for long-term management of residual contamination as required by the EE.

A COC for the site was issued by NYSDEC on December 15, 2022. Except for installation of the above-slab components of the SMD system, the remedial activities listed above were completed at the time the COC was issued. Above-slab components of the SMD system were installed and the SMD system was activated as the building was completed in 2023. As-built drawings for the above-slab SMD system components are provided in Appendix A. The building received its temporary certificate of occupancy from the New York City Department of Buildings in August 2023 for limited initial occupancies. Construction activities ended in 2023 and retail space fit-outs are underway. Site Management is being conducted in accordance with the November 14, 2022 SMP.

## 3.0 EFFECTIVENESS OF THE REMEDIAL PROGRAM

The remedy prepared the site for restricted-residential use with installed and maintained ECs and ICs. ICs include property use restrictions, prohibition of groundwater use, and an SMP requiring management of activities disturbing residual contamination and annual inspection and certification of ICs/ECs. The current ECs for the site include a site cover system and active SMD system with a vapor barrier. ICs/ECs details are discussed further in Section 4.0.

Site Cover System

The site cover system was modified during the certification period (consistent with the RAWP and Decision Document) but remains in place and effective in preventing human health exposure to residual contamination present in soil and/or groundwater underlying the site.

SMD System

The SMD system was designed as a contingency to mitigate a perceived soil vapor intrusion risk from a potential off-site source to the southeast, which at the time of remedial design had yet to be remediated. On-site data generated during the RI found no soil vapor intrusion risk at the site.

The SMD system has exhibited varying differential pressure readings at the vapor monitoring points (VMP) since the system was activated in June 2023. In response, soil vapor intrusion air/vapor sampling was conducted, and several measures were implemented to optimize the system.

Co-located sub-slab soil vapor and indoor air sampling (over a 24-hour sampling period) completed in the heating season (January 2024) indicated there is no soil vapor intrusion risk at the site. When evaluated using the New York State Department of Health (NYSDOH) soil vapor intrusion decision matrices, the outcome is 'No Further Action'. Measures implemented to optimize the system operation, including upgrading the SMD system's vacuum blowers in April 2024, are detailed in Section 4.2.

The most recent system inspections completed in May 2024 documented some degree of expected pressure variation across the system, and also documented negative differential pressures generally meeting or exceeding the design target (0.01 inches of water column [inWC]). The VMPs exhibited negative differential pressures 61% to 100% of the time (with variation by VMP location). Additional inspections and pressure readings are detailed in Section 4.2.

The SMD system is effective in preventing human health exposure via soil vapor intrusion based on the following:

- Pre-remediation soil vapor data from the Remedial Investigation (RI) indicated there was no soil vapor intrusion risk. When the data is evaluated using the New York State Department of Health (NYSDOH) soil vapor intrusion decision matrices, the outcome is 'No Further Action'.
- An SMD system (i.e., roof-top blowers and depressurization system piping within a porous gravel layer beneath a concrete slab and continuous vapor barrier membrane) was ultimately included as a contingency to mitigate a perceived soil vapor intrusion risk from a potential off-site source to the southeast (Former NuHart Plastic Manufacturing site), which at the time of remedial design had yet to be remediated. The March 2019 DEC Record of Decision ("ROD") for the NuHart site did not identify the 45 Commercial Street site in their published vapor mitigation area. ROD Figures 3 and 4 indicate that the pre-remediation trichloroethene (TCE) plume did not cross Commercial Street. The perceived risk of the NuHart TCE plume impacting the site is no longer a concern based on a recent regulatory determination, as discussed below.
- Despite observed pressure differential variation during startup and efforts to optimize the system, the system is continuously venting the sub-slab space; vapor within the perforated piping loops and clean gravel pore space is changing out an estimated eight to nine times per day.
- During periods when the system may have variation in differential pressure (estimated to last no longer than about half a day based on pressure data), there exists a physical barrier to retard vapor intrusion in the form of a continuous sub-slab vapor barrier (minimum 20 mil thickness) and a 12-inch-thick concrete slab.
- In response to the observed variability in differential pressures, co-located sub-slab soil vapor and indoor air sampling (over a 24-hour sampling period) was completed in the heating season (January 2024) and indicated that there continues to be no soil vapor intrusion risk. When the data is evaluated using the New York State Department of Health (NYSDOH) soil vapor intrusion decision matrices, the outcome remains 'No Further Action'.
- Recent differential pressure data collected over two days in May 2024 documented negative differential pressure readings generally meeting or exceeding the design target. The VMPs exhibited negative differential pressures 61% to 100% of the time. The average differential pressures consistently exceeded the target at four of five VMPs; the outlier point (located in the building's laundry room) did not exceed the target on average, but it still exhibited negative differential pressure on average.
- The majority of the NuHart TCE source has been remediated and additional remedial measures to address off-site impacts are underway. Based on the NuHart site March

2024 Proposed ROD Amendment, relevant remediation measures completed include the following.

- The site has been excavated to between 18 and 21 feet below grade, which resulted in a mass removal of site contaminants, including the TCE source area.
- A sheet pile cut-off was installed to 34 feet below grade at the site perimeter to support excavation and cut-off TCE plume migration.
- The site was dewatered to support excavation, which served to remove TCE contaminated water from the subsurface.
- Zero-valent iron (ZVI) was mixed into remaining soil in the northeastern portion of the site to treat TCE and other chlorinated volatile organic compounds (CVOC).
- ZVI injections to further treat TCE began off-site along Clay Street in February 2024.
- Off-site monitoring wells are continuously monitored to track TCE remediation status.

The perceived risk of the NuHart TCE plume impacting the site is no longer a concern based on a recent regulatory determination. The NuHart site March 2024 Proposed ROD Amendment states in Section 6.3 (Summary of Human Exposure Pathways) – "Environmental sampling indicates soil vapor intrusion from site contamination is not a concern for off-site buildings." Based on the extent of remediation completed at the NuHart project site and the NYSDEC's determination that off-site soil vapor impacts are not a concern, the initial technical rationale for integrating the SMD system into the project is no longer relevant.

# 4.0 IC/EC COMPLIANCE REPORT

## 4.1 Institutional Controls

A series of ICs are required by the April 13, 2021 Decision Document to: (1) implement, maintain and monitor EC systems; (2) prevent future exposure to remaining contamination; and (3) limit the use and development of the site to restricted-residential, commercial, and industrial uses only. Adherence to these ICs on the site is required by the October 4, 2022 EE and is implemented under the SMP. ICs identified in the EE may not be discontinued without an amendment to or extinguishment of the EE.

On April 24 and May 8, 2024, Langan submitted Freedom of Information Act (FOIA) requests to NYSDEC and the New York City (NYC) Department of Health and Mental Hygiene (DOHMH) to verify that no well or water withdrawal permits were issued for the site during the certification period. The NYSDEC indicated in an email response dated May 3, 2024 that a diligent search of files produced no responsive records associated with wells or water withdrawals. No NYC DOHMH response has been received as of the date of this PRR. The FOIA requests and responses are included as Appendix B.

Using the New York City Department of Finance (DOF) online Automated City Register Information System (ACRIS), Langan determined no real and/or personal property transfers or modifications to the deeds were made during the certification period. Using the New York City Department of Buildings (DOB) online Building Information System (BIS), Langan determined that several work permits were filed for the site associated with ongoing building construction during the certification period. Except for the activities described in Section 4.2.4 below, the site cover system was not breached during these activities.

The ICs remain in place and are effective and no changes are recommended.

## 4.2 Engineering Controls

### 4.2.1 SMD System Startup

On June 29, 2023, the SMD system fans were activated. The initial SMD system startup, including the items in SMP Section 5.3.1, commenced on June 30, 2023. The initial monitoring efforts revealed that only two of the five VMPs could be sampled because the other three points had been damaged during construction. These were subsequently repaired or replaced. A satisfactory pressure differential during these measurements was recorded at VP-3, greater than the design target value of -0.01 inWC; however, a below-design pressure differential was recorded at VP-2. The other above-slab components of the system (vacuum blowers, pressure gauges, alarm systems, etc.) were confirmed to be installed and operating as designed. As part

of the system startup, Aspro Plumbing Inc. completed pressure tightness testing of the two cast iron riser pipes for the SMD system and they passed with no loss.

The second SMD system startup inspection was completed prior to building occupancy (late September 2023) on August 17, 2023, with the building's HVAC system operating. A blow out of VMPs to remove the potential accumulation of fines and videoing of accessible system piping took place prior to monitoring, and above-slab system components were verified to be installed. The five VMPs each exhibited negative pressure differentials during the initial SMD system startup (i.e., a depressurized condition - negative pressure in the sub-slab space with respect to the building indoor air). However, there was some fluctuation. Two points (VP-1 and VP-5) exhibited satisfactory negative pressure differentials exceeding the design target specified in the SMP and without any fluctuation. Two other points (VP-3 and VP-4) displayed negative pressure differentials exceeding the same target, but with some fluctuation to positive pressure differential. The fifth point (VP-2) displayed negative pressure differential, but it was below the design target and there was also some fluctuation to positive pressure differential.

### 4.2.2 SMD System Optimization

After initial SMD system startup, Langan initiated a comprehensive review of the systems to identify potential opportunities for system optimization. On October 4, 2023, the owner, Langan, Monadnock (construction manager), and AirTech Vacuum Inc. (AirTech; fan vendor and HVAC sub-subcontractor to Iconic) discussed whether functionality of the fans could be causing sub-design sub-slab vacuum pressure readings. On October 27, 2023, Monadnock isolated the SMD fans at the rooftop at AirTech's recommendation. The fans were determined to be operating properly at intended design levels.

Further discussion among Monadnock, AirTech, and Langan occurred to discuss potential fan upgrades. Modification via re-belting or other means was also discussed, but it was determined that the fans were operating at their maximum power and were of sufficient size and power for the system based on the design. On November 15, 2023, a subcontractor to Monadnock inspected riser pipes and the sub-slab piping network and concluded that there were no obstructions (although the camera inspection of the sub-slab piping network was limited by the pipe bends so it is unknown if portions of the sub-slab perforated piping is intact or obstructed).

A subsequent round of pressure differential readings was recorded by Langan on December 12, 2023. The readings varied from the earlier sampling and none of the five vacuum monitoring points exhibited negative pressure differentials.

The site was then prepared for a soil vapor intrusion sampling event. On January 5, 2024, the active SMD system was temporarily shut down by Monadnock for two weeks to provide stabilized conditions in the sub-slab space. A 24-hour sub-slab soil vapor and co-located indoor air sampling event was completed at all five VMPs, which included a product inventory and NYSDOH questionnaire (Appendix C), on January 22 to 23, 2024. Air samples, including an outdoor ambient air quality control sample, were collected into individually-certified 6-liter Summa canisters with individually-certified and calibrated flow controllers. The results confirmed that there continued to be no soil vapor intrusion risk at the site, consistent with the RI results. The analytical data from the 24-hour sampling event showed that no chlorinated volatile organic compounds (CVOC) or volatile organic compounds (VOC), including petroleum-related VOCs, exceeded their NYSDOH Air Guideline Values and a collective recommendation across all five data points for "No Further Action" using the NYSDOH Decision Matrices. The sampling results are provided as Table 1. The NYSDOH matrices results evaluation are provided as Table 2. The fans were reactivated by Monadnock on January 23, 2024 after completion of the sub-slab soil vapor and indoor air sampling event.

The NYSDEC was notified of the SMD system optimization steps on January 31, 2024. The NYSDEC and NYSDOH were provided with copies of the January 2024 air sampling data on February 2, 2024.

Sub-slab pressure differentials were checked again after the fans were reactivated. VMP readings on February 15, 2024 showed positive pressure differentials at all points with the building closed up (doors/windows shut); however, negative pressure differentials were observed in four VMPs (VP-1, VP-3 and VP-4, VP-5) when the doors to the exterior were open. Field personnel observed air flow into the building space when exterior doors were opened. No exterior doors were in the vicinity of one VMP (VP-2) so the pressure differential at this point with exterior doors open could not be measured.

On March 28, 2024, the SMD system's vacuum blowers were replaced with new AirTech blowers (Model 3BA1600-7AT16). The new blowers exhibit a power rating up to 3.4 horsepower (HP); the original blowers exhibited a power rating up to 1.3 HP. The equipment data package for the replacement blowers is included in Appendix A. The NYSDEC was notified of blower replacements on April 5, 2024.

On April 2, 2024, Langan returned to the site to retest the SMD system following installation of the new blowers. Differential pressure VMP readings were collected between about 1:00 to 2:00 pm and between about 3:00 to 4:00 pm to document potential fluctuations in readings over time. During the first testing round, VP-5 exhibited consistent negative differential pressures exceeding the design target with the exterior doors open or closed. VP-3 exhibited negative differential pressures fluctuating above and below the target with the exterior door closed and consistent

negative differential pressures exceeding the target with the exterior door open. The remaining three VMPs exhibited positive differential pressures below the target with the exterior doors open or closed. During the second testing round, VP-5 again exhibited consistent negative differential pressures exceeding the target with the exterior doors closed. The remaining four VMPs exhibited positive differential pressures below the target with the exterior doors closed. Readings were not collected from the VMPs with the doors open during the second testing round.

After reviewing and analyzing the results from the February 15, 2024 and April 2, 2024 testing events, it appears that the building heating, ventilation, and air conditioning (HVAC) system may be creating negative indoor air pressure at levels that are contributing to the variable differential pressure readings. The building spaces containing VP-1 and VP-5 are not actively conditioned with HVAC systems that could affect interior pressure; the remaining three VMPs are in areas influenced by HVAC systems.

Tabulated VMP testing data collected since June 2023 is included in Appendix C.

### 4.2.3 SMD System – VMP and Barometric Pressure Monitoring Event

To investigate pressure influence from the building's HVAC system and collect additional differential pressure readings over a longer period, Langan completed a differential and barometric pressure testing event at the building over a two-day period from May 1 to 2, 2024. The following readings were collected during the sampling event:

- Differential and barometric pressure readings were collected at each VMP every 30 minutes from 12:21 to 17:51 on May 1st and from 7:21 to 18:51 on May 2nd.
- Barometric pressure readings were collected in each of the five interior ground floor spaces containing the VMPs and from the east exterior courtyard (exterior location) every minute from about 11:42 on May 1st to about 18:25 on May 2nd[1].

A summary of the differential pressure readings is provided in table below[2]:

[1] Barometric pressure readings were collected to compare interior and exterior pressures to determine if there was a difference between the pressures and the magnitude of the difference. Lower interior barometric pressure relative to outdoor barometric pressure would create a negative indoor air pressure and affect the differential pressure readings at the VMPs.

[2] The VMPs are located in the building as follows: VP-1 (Retail, SW Corner), VP-2 (Residential Corridor), VP-3 (Bike Room), VP-4 (Laundry Room), VP-5 (Retail, SE Corner).

| | VP-1 | VP-2 | VP-3 | VP-4 | VP-5 |
|---|---|---|---|---|---|
| Number of VMP Readings (5/1/24, 12:21 to 17:51) | 12 | 12 | 11 | 11 | 12 |
| Average Differential Pressure (5/1/24, 12:21 to 17:51) | -0.022 | -0.010 | -0.024 | -0.005 | -0.119 |
| Number of Negative Differential Readings | 12 | 9 | 10 | 10 | 12 |
| Number of Positive Differential Readings | 0 | 3 | 0 | 1 | 0 |
| Frequency of Negative Differential Readings | 100% | 75% | 91% | 91% | 100% |
| | | | | | |
| Number of VMP Readings (5/2/24, 7:21 to 18:51) | 23 | 23 | 23 | 23 | 23 |
| Average Differential Pressure (5/2/24, 7:21 to 18:51) | -0.011 | -0.012 | -0.010 | 0.001 | -0.106 |
| Number of Negative Differential Readings | 18 | 17 | 17 | 14 | 23 |
| Number of Positive Differential Readings | 4 | 6 | 5 | 8 | 0 |
| Frequency of Negative Differential Readings | 78% | 74% | 74% | 61% | 100% |

The differential pressure results collected on May 1 to 2, 2024 documented some degree of variation in differential pressure readings across the system, but also documented negative differential pressure readings generally meeting or exceeding the design target. The VMPs exhibited negative differential pressures 61% to 100% of the time. The average differential pressure consistently exceeded the target at four of five VMPs, with the outlier point still exhibiting negative pressure in the sub-slab space on average. Based on the data, the SMD system is functioning and would therefore be achieving its remedial objective if a soil vapor intrusion risk was present at the site. The tabulated differential pressure readings from this event are included in Appendix C.

The indoor and outdoor barometric pressure readings found the following:

- Barometric pressure readings in the interior spaces containing VP-1 and VP-5 (no active HVAC) were about 0.3 inWC above or below (fluctuated) the exterior barometric pressure (i.e., relatively the same pressure in the interior and exterior on average).

- Barometric pressure readings from the spaces containing VP-2, VP-3 and VP-4 (active HVAC) ranged from about 0.4 to 0.8 inWC below the exterior barometric pressure.

The barometric pressure data indicated that the building's HVAC system is creating lower indoor air pressure in the interior spaces containing VP-2, VP-3 and VP-4 relative to outdoor air pressure, which creates fluctuating negative indoor air pressure. Fluctuating negative indoor air pressure is a likely a source of the variation observed in the VMP differential pressure readings. Tabulated and charted barometric pressure data are included in Appendix C.

The project team, including the mechanical engineer responsible for the design, discussed potential options for adjusting the HVAC systems to increase interior air pressures. On May 16, 2024, Monadnock adjusted the HVAC system servicing the three conditioned spaces, balancing it, to the extent practical within operating requirements, with the goal of increasing indoor air pressure to more closely match outdoor air pressure. Following the adjustments, Langan

returned to the site to collect a round of VMP readings. VP-1, VP-3, and VP-5 exhibited average negative differential pressure readings at or above the target. On average, VP-1 exhibited a negative pressure differential below the target with fluctuations to positive pressure. VP-4 exhibited an average differential pressure reading near zero with fluctuations to both negative and positive. The differential pressure readings from May 16 were similar to the May 1 and 2, 2024 readings, indicating that the HVAC adjustments did not significantly affect indoor air pressures at a recordable level.

### 4.2.4 Site Cover System

Between March and July 2023, the site cover system in three exterior courtyard areas was modified. Modifications to the cover system are discussed in the sections below. As part of cover system modifications, about 220 cubic yards of topsoil and 22.49 tons of 3/4-inch virgin stone from NYSDEC-approved sources (Sparrow Mining of Suffolk LLC dba Ranco Sand and Stone in Manorville, NY and Eastern Concrete Materials Inc./Vulcan Materials Company in Hamburg, NJ) were imported to the site. Revisions to the cover system layout and details included in the SMP are provided as Figure 2A and 2B. Import material documentation, including approvals from the NYSDEC, is provided in Appendix D.

#### North Courtyard

The temporary 2-inch-thick concrete slab that was previously installed in the northern part of the north courtyard was removed and replaced with a minimum 2-foot-thick layer of imported topsoil. Black geotextile fabric was placed in the area prior to the placement of topsoil to demarcate the base of the topsoil layer (a typical photograph of geotextile fabric being installed is included in Appendix F). The concrete waste was disposed of off-site as construction and demolition debris.

The remaining area of the north courtyard was finished above the existing minimum 24-inch-thick imported virgin stone layer with either 3-inch-thick brick pavers or about 3 inches of stabilized decomposed granite.[3]

#### South Courtyard

The temporary 2-inch-thick concrete slab that was previously installed across the southern courtyard was removed and replaced with the following elements:

- Brick pavers (3-inch thick) overlying a minimum 6-inch-thick reinforced concrete slab.

[3] Stabilized decomposed granite is landscaping material made from mixing crushed and pulverized granite with a stabilizing agent, such as a polymer or resin, to create a more durable and long-lasting surface.

- Brick pavers (3-inch thick) or about 3 inches of stabilized decomposed granite overlying about 21 inches of imported 3/4-inch virgin stone.
- Minimum 2 feet of imported topsoil. Black geotextile fabric was placed prior to the placement of topsoil to demarcate the base of the topsoil layer.

The concrete waste was disposed of off-site as construction and demolition debris.

East Courtyard

The east courtyard was previously backfilled with at least 24 inches of 3/4-inch virgin stone. During the certification period, six areas of the stone layer were excavated to a maximum of 18 inches and then backfilled with a minimum of 24 inches of topsoil. Black geotextile fabric was placed prior to the placement of topsoil to demarcate the base of the topsoil layer. The excavated stone was relocated and used as backfill in the south courtyard cover modifications (see above). The remaining areas of the east courtyard were finished above the existing 24-inch stone layer with either about 3 inches of stabilized decomposed granite or an about 4-inch-thick concrete slab.

# 5.0 MONITORING PLAN COMPLIANCE REPORT

## 5.1 Monitoring Plan Components

The Monitoring Plan for the site consists of a site-wide inspection conducted a minimum of once per year to document compliance with ICs, the condition and effectiveness of ECs (SMD system and site cover system), general site conditions, site management activities, and that site records are up to date.

## 5.2 Summary of Monitoring Completed

### 5.2.1 Annual Site-Wide Inspection

The annual site-wide inspection was conducted on May 1, 2024. The inspection consisted of spot inspections of all ECs and verification of ICs. All IC/EC components inspected were functioning and protective of human health. The completed site-wide inspection form is included in Appendix E.

### 5.2.2 Site Cover System Inspection

Modifications to the cover system were completed in March and July 2023 and are discussed further in Section 4.2.4.

The composite cover system was inspected on May 1, 2024 during the annual site-wide inspection. The building slab and courtyards were inspected for quality and integrity. Damages or breaches to the site cover system were not observed during the inspection. No construction activity or indication of any construction activity that included the breaching of the site cover system was observed during the certification period. Photographs of the site cover system from the annual inspection are included in Appendix F.

### 5.2.3 SMD System Inspection

SMD system start-up, maintenance, and optimization was performed during this certification period. These activities are discussed further in Section 4.2.

Multiple inspections of the SMD system were conducted during the certification period; with inspections ending in May 2024. The inspection confirmed that the system was operating and the alarm notification system was successfully tested. The SMD system inspection form is included in Appendix E.

### 5.3 Monitoring Deficiencies

No deficiencies were identified during the site-wide and site cover system inspections. Deficiencies identified during the SMD startup and subsequent inspections are discussed in Section 3 and 4.2. Based on the findings presented herein, the SMD system is achieving its remedial objective.

### 5.4 Conclusions and Recommendations

It is recommended that the SMP be updated to reflect the EC modifications that were completed during the certification period. These included:

- Replacement of the SMD system's vacuum blowers and associated operational parameters
- Modifications to the site cover system

No other changes to the SMP are recommended at this time.

## 6.0 OPERATION AND MAINTENANCE (O&M) PLAN COMPLIANCE REPORT

### 6.1 O&M Plan Components

The components of the O&M Plan are as follows:

- Continuous operation and maintenance, as necessary, of the SMD system.

### 6.2 SMD System O&M Activities

SMD system start-up and testing was completed during the certification period. The start-up inspection and testing consisted of the following:

- While the system was operating, smoke tubes were used to check for leaks through concrete cracks, floor joints, and at exposed above-grade piping connections associated with the lowest-level slab. No leaks were identified.
- The blower-malfunction warning devices were tested and confirmed to be functioning as designed.
- Vacuum gauges and active blower exhaust ports on the blower assemblies were checked to confirm that they were operating within design requirements.
- Airflow rates were measured through the sample ports with a TSI VelociCalc meter to document that airflow within the system was consistent with design calculations.
- Pressure differential was measured at the VMPs with a TSI VelociCalc meter to document pressure differential was consistent with the intent of the design target.
- The building's HVAC system was operating under normal conditions.

SMD system start-up and associated maintenance/optimization is described in detail in Section 4.2.

#### 6.2.1 Evaluation of the SMD System

The SMD system was designed to eliminate and/or mitigate a perceived human health exposure risk to potential soil vapor contamination from an off-site source (NuHart site). The perceived risk of the NuHart TCE plume impacting the site is no longer a concern based on a recent regulatory determination. Co-located sub-slab soil vapor and indoor air sampling (over a 24-hour sampling period) completed during the heating season in January 2024 re-confirmed no soil vapor contamination warranting mitigation beneath the building and no indoor air quality impacts. When evaluated using the NYSDOH Guidance for Evaluating Soil Vapor in the State of New York Matrices A through F, all compounds were detected at concentrations resulting in a recommendation of "No Further Action." Recent differential pressure data collected over two

days in May 2024 documented negative differential pressure readings generally meeting or exceeding the design target. The VMPs exhibited negative differential pressures 61% to 100% of the time. The average differential pressure consistently exceeded the target at four of five VMPs; while the outlier point did not exceed the target on average, it still exhibited negative differential pressure on average. Based on these findings, the SMD system is achieving its remedial objective.

### 6.3 O&M Deficiencies

No O&M deficiencies were identified during the inspection.

### 6.4 Conclusions and Recommendations

It is recommended that the SMP be updated to reflect the modifications to the site cover system and the SMD system that were completed during the certification period. No other changes to the SMP are recommended at this time.

# 7.0 OVERALL CONCLUSONS AND RECOMMENDATIONS

## 7.1 Compliance with the Site Management Plan

Based on our review of current conditions, property research, and the annual site inspection, all ICs and ECs remain fully in place and the remedy remains effective. The completed IC/EC Certification Form is included as Appendix G.

## 7.2 Remedy Performance Evaluation

### 7.2.1 SMD System

The SMD system was activated during the certification period. The SMD system is operational and is achieving its remedial objective.

### 7.2.2 Composite Cover System

The site cover system was modified during the certification period. The site cover system was observed to be intact and is protective of public health and the environment.

### 7.2.3 IC Components

All ICs were maintained during the certification period, and the environmental easement remains in place.

## 7.3 Future Submittals

Annual inspections of the SMD system and composite cover system and site-wide inspections will continue to be conducted as specified in the NYSDEC-approved SMP. Forms and other information generated during regular monitoring events and inspections will be submitted at the time of the annual Periodic Review Report.

## 8.0 CERTIFICATION OF IC/ECS

The completed IC/EC Certification Form is included in Appendix G.

## 8.1 IC/EC Certification

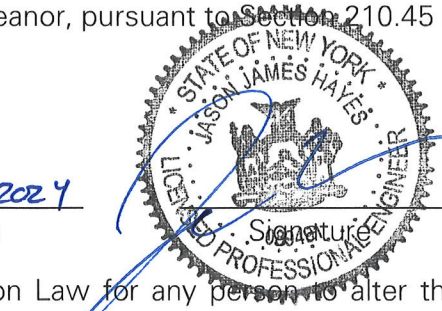
I certify that all information and statements in this certification form are true. I understand that a false statement made herein is punishable as a Class "A" misdemeanor, pursuant to Section 210.45 of the Penal Law. I, Jason J. Hayes, P.E., of Langan Engineering, Environmental, Surveying, Landscape Architecture and Geology, D.P.C., am certifying as the Remedial Party's Designated Site Representative: I have been authorized and designated by all site owners/remedial parties to sign this certification for the site.

I certify that the New York State Education Department has granted a Certificate of Authorization to provide Professional Engineering services to the firm that prepared this Periodic Review Report.

For each institutional or engineering control identified for the site, I certify that all of the following statements are true:

- The inspection of the site to confirm the effectiveness of the institutional and engineering controls required by the remedial program was performed under my direction;
- The institutional control and/or engineering control employed at this site is unchanged from the date the control was put in place, or last approved by the Department;
- Nothing has occurred that would impair the ability of the control to protect the public health and environment;
- Nothing has occurred that would constitute a violation or failure to comply with any site management plan for this control;
- Access to the site will continue to be provided to the Department to evaluate the remedy, including access to evaluate the continued maintenance of this control;
- Use of the site is compliant with the environmental easement;
- The engineering control systems are performing as designed and are effective;
- To the best of my knowledge and belief, the work and conclusions described in this certification are in accordance with the requirements of the site remedial program and generally accepted engineering practices; and,
- The information presented in this report is accurate and complete.

I certify that all information and statements in this certification are true. I understand that a false statement made herein is punishable as Class "A" misdemeanor, pursuant to Section 210.45 of the Penal Law.



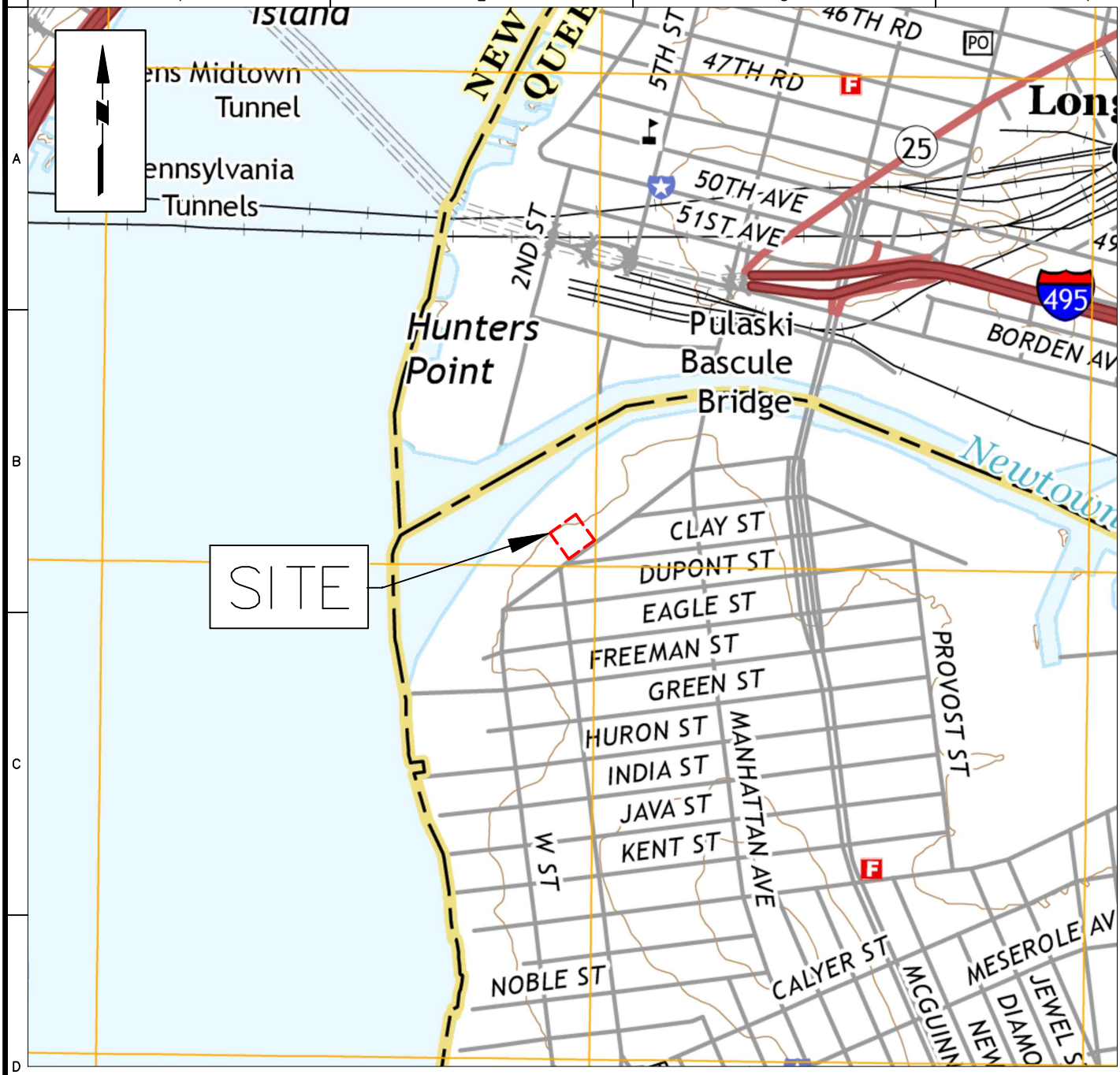

089491-1
New York State Professional Engineer No.

6-11-2024
Date

Signature

It is a violation of Article 130 of New York State Education Law for any person to alter this document in any way without the express written verification of adoption by any New York State licensed engineer in accordance with Section 7209(2), Article 130, New York State Education Law.

# FIGURES




NOTES

1. BASE MAP SOURCE: USGS (2016) 7.5–MINUTE BROOKLYN, N.Y., TOPOGRAPHIC QUADRANGLES
2. NORTH ARROW SHOWS TRUE NORTH.

LEGEND

APPROXIMATE SITE BOUNDARY

**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.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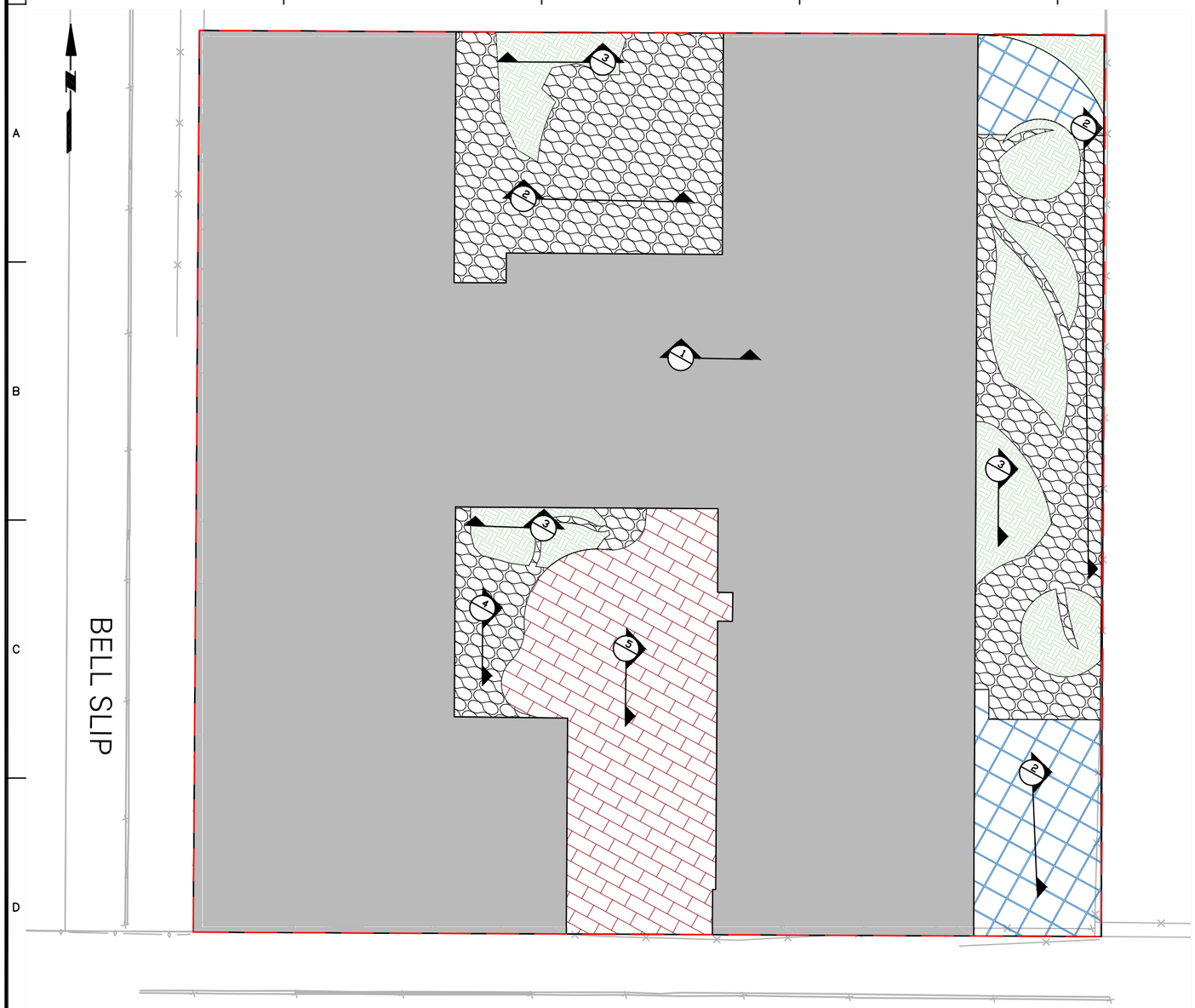
| | |
|---|---|
| Project | 45 COMMERCIAL STREET<br>BLOCK No. 2472, LOT No. 70<br>BROOKLYN<br>KINGS COUNTY NEW YORK |
| Figure Title | SITE LOCATION MAP |
| Project No. | 170229024 |
| Date | 05/22/2024 |
| Drawn By | TG |
| Checked By | GW |
| Figure No. | 1 |



Filename: \\langan.com\data\NYC\data0\170229024\Project Data\CAD\24\SheetFiles\Environmental\RIWP\Figure 1 - Site Location Map.dwg Date: 4/7/2020 Time: 14:46 User: wkim Style Table: Langan.stb Layout: ANSIA-BP




LEGEND:

- APPROXIMATE SITE BOUNDARY
- APPROXIMATE TAX LOT BOUNDARY
- APPROXIMATE AREA OF MINIMUM 12-INCH CONCRETE BUILDING SLAB
- APPROXIMATE AREA OF 3-INCH-THICK BRICK PAVERS, OVERLYING MINIMUM 6-INCH-THICK REINFORCED CONCRETE SLAB
- APPROXIMATE AREA OF 3-INCH-THICK BRICK PAVERS OR 3 INCHES OF STABILIZED DECOMPOSED GRANITE, OVERLYING MINIMUM 21 INCHES OF IMPORTED VIRGIN STONE
- APPROXIMATE AREA OF A MINIMUM 2 FEET OF IMPORTED TOPSOIL
- APPROXIMATE AREA OF 4-INCH-THICK CONCRETE SLAB OVERLYING MINIMUM 24 INCHES OF IMPORTED VIRGIN STONE

NOTES:

1. BASE MAP SOURCES: TOPOGRAPHIC BOUNDARY & UTILITY SURVEY DRAWING, DATED MAY 25, 2018, PREPARED BY LANGAN.
2. NORTH ARROW SHOWS TRUE NORTH.



30 0 15 30
SCALE IN FEET

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Project
**45 COMMERCIAL STREET**
BLOCK No. 2472, LOT No. 70
BROOKLYN
KINGS COUNTY NEW YORK

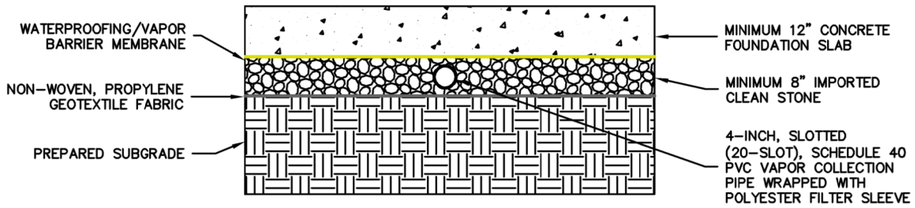
Figure Title
**SITE COVER SYSTEM LAYOUT**

| | |
|---|---|
| Project No. | 170229024 |
| Date | 05/13/2024 |
| Drawn By | TG |
| Checked By | GW |

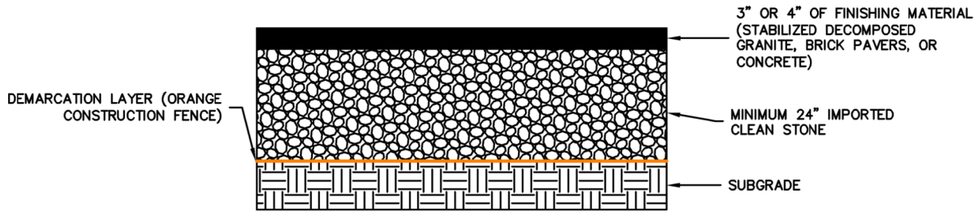
Figure **2A**



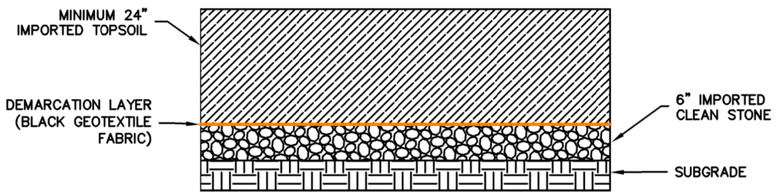
Filename: \\langan.com\data\NYC\data0\170229024\Project Data\CAD\24\SheetFiles\Environmental\BCP PRR\Figure 6 - Site Cover System Layout_VK.dwg Date: 5/22/2024 Time: 16:42 User: bkoontz Style Table: Langan.stb Layout: ANSIB-BL



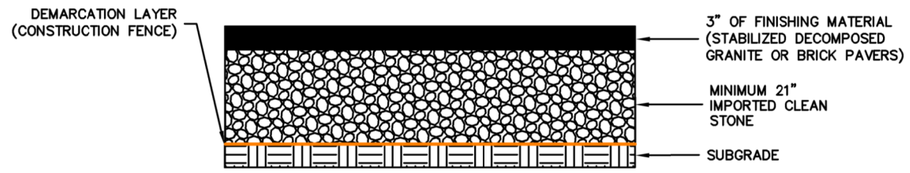

DETAIL 1: TYPICAL BUILDING FOUNDATION SLAB COVER SYSTEM DETAIL
(NOT TO SCALE)



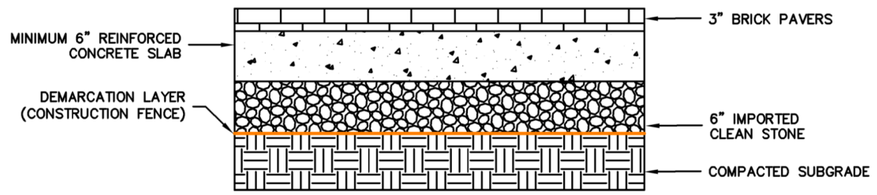

DETAIL 2: TYPICAL HARDSCAPING COVER SYSTEM DETAIL IN NORTH AND EAST COURTYARDS
(NOT TO SCALE)




DETAIL 3: TYPICAL LANDSCAPED COVER SYSTEM DETAIL IN NORTH, EAST, AND SOUTH COURTYARDS
(NOT TO SCALE)




DETAIL 4: TYPICAL HARDSCAPING COVER SYSTEM DETAIL IN SOUTH COURTYARD
(NOT TO SCALE)




DETAIL 5: TYPICAL HARDSCAPING COVER SYSTEM DETAIL IN SOUTH COURTYARD
(NOT TO SCALE)

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| | |
|---|---|
| Project | 45 COMMERCIAL STREET<br>BLOCK No. 2472, LOT No. 70<br>BROOKLYN<br>KINGS COUNTY NEW YORK |
| Figure Title | SITE COVER SYSTEM DETAILS |
| Project No. | 170229024 |
| Date | 05/13/2024 |
| Drawn By | TG |
| Checked By | GW |
| Figure | 2B |



Filename: \\langan.com\data\NYC\data0\170229024\Project Data\CAD\24\SheetFiles\Environmental\BCP PRR\Figure 6B Final Covers_VK.dwg Date: 5/22/2024 Time: 16:15 User: bkoontz Style Table: Langan.stb Layout: 7

# TABLES

**Table 1**
**Sub-Slab Soil Vapor and Indoor Air Sample Analytical Results**

**45 Commercial Street**
**Brooklyn, New York**
**NYSDEC BCP Site No.: C224304**
**Langan Project No.: 170229024**

| Analyte | CAS Number | NYSDOH AGVs | Location | AA03 | VP-1_IA01_SSV01 | | VP-2_IA02_SSV02 | | VP-3_IA03_SSV03 | | VP-4_IA04_SSV04 | | VP-5_IA05_SSV05 | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Sample Name | AA03_012224 | VP-1_IA01_012224 | VP-1_SV01_012224 | VP-2_IA02_012224 | VP-2_SV02_012224 | VP-3_IA03_012224 | VP-3_SV03_012224 | VP-4_IA04_012224 | VP-4_SV04_012224 | VP-5_IA05_012224 | VP-5_SV05_012224 |
| | | | Sample Date | 01/22/2024 | 01/22/2024 | 01/22/2024 | 01/22/2024 | 01/22/2024 | 01/22/2024 | 01/22/2024 | 01/22/2024 | 01/22/2024 | 01/22/2024 | 01/22/2024 |
| | | | Sample Type | AA | IA | SSV | IA | SSV | IA | SSV | IA | SSV | IA | SSV |
| | | | Unit | Result | Result | Result | Result | Result | Result | Result | Result | Result | Result | Result |
| **Volatile Organic Compounds** | | | | | | | | | | | | | | |
| 1,1,1-Trichloroethane | 71-55-6 | NS | ug/m3 | 0.54 | 0.246 | <1.09 U | <0.109 U | <1.09 U | 0.18 | <1.09 U | 0.131 | <1.09 U | 0.48 | <1.09 U |
| 1,1,2,2-Tetrachloroethane | 79-34-5 | NS | ug/m3 | <1.37 U | <1.37 U | <13.7 U | <1.37 U | <1.37 U | <1.37 U | <1.37 U | <1.37 U | <1.37 U | <1.37 U | <1.37 U |
| 1,1,2-Trichloro-1,2,2-Trifluoroethane | 76-13-1 | NS | ug/m3 | <1.53 U | <1.53 U | <15.3 U | <1.53 U | <1.53 U | <1.53 U | <1.53 U | <1.53 U | <1.53 U | <1.53 U | <1.53 U |
| 1,1,2-Trichloroethane | 79-00-5 | NS | ug/m3 | <1.09 U | <1.09 U | <10.9 U | <1.09 U | <1.09 U | <1.09 U | <1.09 U | <1.09 U | <1.09 U | <1.09 U | <1.09 U |
| 1,1-Dichloroethane | 75-34-3 | NS | ug/m3 | <0.809 U | <0.809 U | <8.09 U | <0.809 U | <0.809 U | <0.809 U | <0.809 U | <0.809 U | <0.809 U | <0.809 U | <0.809 U |
| 1,1-Dichloroethene | 75-35-4 | NS | ug/m3 | <0.079 U | <0.079 U | <0.793 U | <0.079 U | <0.793 U | <0.079 U | <0.793 U | <0.079 U | <0.793 U | <0.079 U | <0.793 U |
| 1,2,4-Trichlorobenzene | 120-82-1 | NS | ug/m3 | <1.48 U | <1.48 U | <14.8 U | <1.48 U | <1.48 U | <1.48 U | <1.48 U | <1.48 U | <1.48 U | <1.48 U | <1.48 U |
| 1,2,4-Trimethylbenzene | 95-63-6 | NS | ug/m3 | <0.983 U | 1.39 | <9.83 U | <0.983 U | 1.67 | <0.983 U | 1.72 | <0.983 U | 1.18 | <0.983 U | 1.08 |
| 1,2-Dibromoethane (Ethylene Dibromide) | 106-93-4 | NS | ug/m3 | <1.54 U | <1.54 U | <15.4 U | <1.54 U | <1.54 U | <1.54 U | <1.54 U | <1.54 U | <1.54 U | <1.54 U | <1.54 U |
| 1,2-Dichlorobenzene | 95-50-1 | NS | ug/m3 | <1.2 U | <1.2 U | <12 U | <1.2 U | <1.2 U | <1.2 U | <1.2 U | <1.2 U | <1.2 U | <1.2 U | <1.2 U |
| 1,2-Dichloroethane | 107-06-2 | NS | ug/m3 | <0.809 U | <0.809 U | <8.09 U | <0.809 U | <0.809 U | <0.809 U | <0.809 U | <0.809 U | <0.809 U | <0.809 U | <0.809 U |
| 1,2-Dichloropropane | 78-87-5 | NS | ug/m3 | <0.924 U | <0.924 U | <9.24 U | <0.924 U | <0.924 U | <0.924 U | <0.924 U | <0.924 U | <0.924 U | <0.924 U | <0.924 U |
| 1,2-Dichlorotetrafluoroethane | 76-14-2 | NS | ug/m3 | <1.4 U | <1.4 U | <14 U | <1.4 U | <1.4 U | <1.4 U | <1.4 U | <1.4 U | <1.4 U | <1.4 U | <1.4 U |
| 1,3,5-Trimethylbenzene (Mesitylene) | 108-67-8 | NS | ug/m3 | <0.983 U | <0.983 U | <9.83 U | <0.983 U | <0.983 U | <0.983 U | <0.983 U | <0.983 U | <0.983 U | <0.983 U | <0.983 U |
| 1,3-Butadiene | 106-99-0 | NS | ug/m3 | <0.442 U | <0.442 U | <4.42 U | <0.442 U | <0.442 U | <0.442 U | <0.442 U | <0.442 U | <0.442 U | <0.442 U | <0.442 U |
| 1,3-Dichlorobenzene | 541-73-1 | NS | ug/m3 | <1.2 U | <1.2 U | <12 U | <1.2 U | <1.2 U | <1.2 U | <1.2 U | <1.2 U | <1.2 U | <1.2 U | <1.2 U |
| 1,4-Dichlorobenzene | 106-46-7 | NS | ug/m3 | <1.2 U | <1.2 U | <12 U | <1.2 U | <1.2 U | <1.2 U | <1.2 U | <1.2 U | <1.2 U | <1.2 U | <1.2 U |
| 1,4-Dioxane (P-Dioxane) | 123-91-1 | NS | ug/m3 | <0.721 U | <0.721 U | <7.21 U | <0.721 U | <0.721 U | <0.721 U | <0.721 U | <0.721 U | <0.721 U | <0.721 U | <0.721 U |
| 2,2,4-Trimethylpentane | 540-84-1 | NS | ug/m3 | <0.934 U | <0.934 U | <9.34 U | <0.934 U | <0.934 U | <0.934 U | 1.03 | <0.934 U | <0.934 U | <0.934 U | <0.934 U |
| 2-Hexanone (MBK) | 591-78-6 | NS | ug/m3 | <0.82 U | <0.82 U | <8.2 U | <0.82 U | <0.82 U | <0.82 U | <0.82 U | <0.82 U | 1.05 | <0.82 U | <0.82 U |
| 4-Ethyltoluene | 622-96-8 | NS | ug/m3 | <0.983 U | <0.983 U | <9.83 U | <0.983 U | <0.983 U | <0.983 U | <0.983 U | <0.983 U | <0.983 U | <0.983 U | <0.983 U |
| Acetone | 67-64-1 | NS | ug/m3 | 4.51 | 20.9 | 64.4 | 19.8 | 82.4 | 7.86 | 113 | 7.98 | 82 | 5.51 | 70.3 |
| Allyl Chloride (3-Chloropropene) | 107-05-1 | NS | ug/m3 | <0.626 U | <0.626 U | <6.26 U | <0.626 U | <0.626 U | <0.626 U | <0.626 U | <0.626 U | <0.626 U | <0.626 U | <0.626 U |
| Benzene | 71-43-2 | NS | ug/m3 | 0.77 | 0.978 | <6.39 U | 0.85 | 0.834 | 0.818 | 0.971 | 0.725 | 0.799 | 0.875 | 0.962 |
| Benzyl Chloride | 100-44-7 | NS | ug/m3 | <1.04 U | <1.04 U | <10.4 U | <1.04 U | <1.04 U | <1.04 U | <1.04 U | <1.04 U | <1.04 U | <1.04 U | <1.04 U |
| Bromodichloromethane | 75-27-4 | NS | ug/m3 | <1.34 U | <1.34 U | <13.4 U | <1.34 U | <1.34 U | <1.34 U | <1.34 U | <1.34 U | <1.34 U | <1.34 U | <1.34 U |
| Bromoethene | 593-60-2 | NS | ug/m3 | <0.874 U | <0.874 U | <8.74 U | <0.874 U | <0.874 U | <0.874 U | <0.874 U | <0.874 U | <0.874 U | <0.874 U | <0.874 U |
| Bromoform | 75-25-2 | NS | ug/m3 | <2.07 U | <2.07 U | <20.7 U | <2.07 U | <2.07 U | <2.07 U | <2.07 U | <2.07 U | <2.07 U | <2.07 U | <2.07 U |
| Bromomethane | 74-83-9 | NS | ug/m3 | <0.777 U | <0.777 U | <7.77 U | <0.777 U | <0.777 U | <0.777 U | <0.777 U | <0.777 U | <0.777 U | <0.777 U | <0.777 U |
| Carbon Disulfide | 75-15-0 | NS | ug/m3 | <0.623 U | <0.623 U | <6.23 U | <0.623 U | <0.623 U | <0.623 U | <0.623 U | <0.623 U | <0.623 U | <0.623 U | <0.623 U |
| Carbon Tetrachloride | 56-23-5 | NS | ug/m3 | 0.472 | 0.44 | <1.26 U | 0.465 | <1.26 U | 0.465 | <1.26 U | 0.44 | <1.26 U | 0.447 | <1.26 U |
| Chlorobenzene | 108-90-7 | NS | ug/m3 | <0.921 U | <0.921 U | <9.21 U | <0.921 U | <0.921 U | <0.921 U | <0.921 U | <0.921 U | <0.921 U | <0.921 U | <0.921 U |
| Chloroethane | 75-00-3 | NS | ug/m3 | <0.528 U | <0.528 U | <5.28 U | <0.528 U | <0.528 U | <0.528 U | <0.528 U | <0.528 U | <0.528 U | <0.528 U | <0.528 U |
| Chloroform | 67-66-3 | NS | ug/m3 | <0.977 U | <0.977 U | <9.77 U | 1.36 | <0.977 U | <0.977 U | <0.977 U | <0.977 U | <0.977 U | <0.977 U | 1.88 |
| Chloromethane | 74-87-3 | NS | ug/m3 | 1.19 | 1.32 | <4.13 U | 1.29 | <0.413 U | 1.2 | <0.413 U | 1.23 | 0.741 | 1.23 | <0.413 U |
| Cis-1,2-Dichloroethene | 156-59-2 | NS | ug/m3 | <0.079 U | <0.079 U | <0.793 U | <0.079 U | <0.793 U | <0.079 U | <0.793 U | <0.079 U | <0.793 U | <0.079 U | <0.793 U |
| Cis-1,3-Dichloropropene | 10061-01-5 | NS | ug/m3 | <0.908 U | <0.908 U | <9.08 U | <0.908 U | <0.908 U | <0.908 U | <0.908 U | <0.908 U | <0.908 U | <0.908 U | <0.908 U |
| Cyclohexane | 110-82-7 | NS | ug/m3 | <0.688 U | <0.688 U | <6.88 U | <0.688 U | <0.688 U | <0.688 U | <0.688 U | <0.688 U | <0.688 U | <0.688 U | <0.688 U |
| Dibromochloromethane | 124-48-1 | NS | ug/m3 | <1.7 U | <1.7 U | <17 U | <1.7 U | <1.7 U | <1.7 U | <1.7 U | <1.7 U | <1.7 U | <1.7 U | <1.7 U |
| Dichlorodifluoromethane | 75-71-8 | NS | ug/m3 | 2.27 | 4.83 | <9.89 U | 2.44 | 2.36 | 2.36 | 2.3 | 2.41 | 2.32 | 2.37 | 2.29 |
| Ethanol | 64-17-5 | NS | ug/m3 | 11.7 | 87.4 | 5,860 | 163 | 452 | 105 | 313 | 22.2 | 362 | 12.3 | 456 |
| Ethyl Acetate | 141-78-6 | NS | ug/m3 | <1.8 U | 11.9 | <18 U | <1.8 U | 3.48 | <1.8 U | 4.18 | <1.8 U | 2.53 | <1.8 U | 2.95 |
| Ethylbenzene | 100-41-4 | NS | ug/m3 | <0.869 U | <0.869 U | <8.69 U | <0.869 U | <0.869 U | <0.869 U | <0.869 U | <0.869 U | <0.869 U | <0.869 U | <0.869 U |
| Hexachlorobutadiene | 87-68-3 | NS | ug/m3 | <2.13 U | <2.13 U | <21.3 U | <2.13 U | <2.13 U | <2.13 U | <2.13 U | <2.13 U | <2.13 U | <2.13 U | <2.13 U |
| Isopropanol | 67-63-0 | NS | ug/m3 | 5.09 | 43.5 | 28 | 30 | 61.5 | 5.85 | 51.9 | 5.04 | 41.3 | 3.15 | 54.1 |
| M,P-Xylene | 179601-23-1 | NS | ug/m3 | <1.74 U | 3.41 | <17.4 U | <1.74 U | 2.44 | <1.74 U | 2.84 | <1.74 U | 1.89 | <1.74 U | 1.92 |
| Methyl Ethyl Ketone (2-Butanone) | 78-93-3 | NS | ug/m3 | <1.47 U | 4.22 | <14.7 U | 1.47 | 3.42 | <1.47 U | 3.86 | <1.47 U | 5.37 | <1.47 U | 2.27 |
| Methyl Isobutyl Ketone (4-Methyl-2-Pentanone) | 108-10-1 | NS | ug/m3 | <2.05 U | <2.05 U | <20.5 U | <2.05 U | <2.05 U | <2.05 U | <2.05 U | <2.05 U | <2.05 U | <2.05 U | <2.05 U |
| Methylene Chloride | 75-09-2 | 60 | ug/m3 | <1.74 U | <1.74 U | <17.4 U | <1.74 U | <1.74 U | <1.74 U | <1.74 U | <1.74 U | 4.45 | <1.74 U | <1.74 U |
| n-Heptane | 142-82-5 | NS | ug/m3 | <0.82 U | <0.82 U | <8.2 U | <0.82 U | 0.852 | <0.82 U | 0.996 | <0.82 U | <0.82 U | <0.82 U | <0.82 U |
| n-Hexane | 110-54-3 | NS | ug/m3 | <0.705 U | <0.705 U | <7.05 U | 0.807 | 0.842 | <0.705 U | 1.04 | <0.705 U | 1.14 | <0.705 U | 0.952 |
| o-Xylene (1,2-Dimethylbenzene) | 95-47-6 | NS | ug/m3 | <0.869 U | 1.06 | <8.69 U | <0.869 U | 1.08 | <0.869 U | 1.22 | <0.869 U | <0.869 U | <0.869 U | <0.869 U |
| Styrene | 100-42-5 | NS | ug/m3 | <0.852 U | <0.852 U | <8.52 U | <0.852 U | <0.852 U | <0.852 U | <0.852 U | <0.852 U | <0.852 U | <0.852 U | <0.852 U |
| Tert-Butyl Alcohol | 75-65-0 | NS | ug/m3 | <1.52 U | <1.52 U | 48.5 | <1.52 U | 9.7 | <1.52 U | 9.85 | <1.52 U | 8.94 | <1.52 U | 8.49 |
| Tert-Butyl Methyl Ether | 1634-04-4 | NS | ug/m3 | <0.721 U | <0.721 U | <7.21 U | <0.721 U | <0.721 U | <0.721 U | <0.721 U | <0.721 U | <0.721 U | <0.721 U | <0.721 U |
| Tetrachloroethene (PCE) | 127-18-4 | 30 | ug/m3 | <0.136 U | <0.136 U | <1.36 U | <0.136 U | <1.36 U | <0.136 U | <1.36 U | <0.136 U | <1.36 U | <0.136 U | <1.36 U |
| Tetrahydrofuran | 109-99-9 | NS | ug/m3 | <1.47 U | <1.47 U | <14.7 U | <1.47 U | <1.47 U | <1.47 U | <1.47 U | <1.47 U | <1.47 U | <1.47 U | <1.47 U |
| Toluene | 108-88-3 | NS | ug/m3 | <0.754 U | 3.07 | <7.54 U | 1.72 | 2.98 | 0.976 | 3.48 | 0.776 | 2.24 | 0.897 | 2.58 |
| Total Xylenes | 1330-20-7 | NS | ug/m3 | <0.869 U | 4.47 | <8.69 U | <0.869 U | 3.52 | <0.869 U | 4.06 | <0.869 U | 1.89 | <0.869 U | 1.92 |
| Trans-1,2-Dichloroethene | 156-60-5 | NS | ug/m3 | <0.793 U | <0.793 U | <7.93 U | <0.793 U | <0.793 U | <0.793 U | <0.793 U | <0.793 U | <0.793 U | <0.793 U | <0.793 U |
| Trans-1,3-Dichloropropene | 10061-02-6 | NS | ug/m3 | <0.908 U | <0.908 U | <9.08 U | <0.908 U | <0.908 U | <0.908 U | <0.908 U | <0.908 U | <0.908 U | <0.908 U | <0.908 U |
| Trichloroethene (TCE) | 79-01-6 | 2 | ug/m3 | <0.107 U | <0.107 U | <1.07 U | <0.107 U | <1.07 U | <0.107 U | <1.07 U | <0.107 U | <1.07 U | <0.107 U | <1.07 U |
| Trichlorofluoromethane | 75-69-4 | NS | ug/m3 | 1.32 | 1.39 | <11.2 U | 1.37 | 1.45 | 1.34 | 1.39 | 1.35 | 1.42 | 1.38 | 1.54 |
| Vinyl Chloride | 75-01-4 | NS | ug/m3 | <0.051 U | <0.051 U | <0.511 U | <0.051 U | <0.511 U | <0.051 U | <0.511 U | <0.051 U | <0.511 U | <0.051 U | <0.511 U |

**Table 1**
**Sub-Slab Soil Vapor and Indoor Air Sample Analytical Results**

**45 Commercial Street**
**Brooklyn, New York**
**NYSDEC BCP Site No.: C224304**
**Langan Project No.: 170229024**

**Notes:**
AA - Ambient Air
IA - Indoor Air
SSV - Sub-slab Soil Vapor
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 (2013, 2015, 2017).
Ambient air sample analytical results are shown for reference only.

**Qualifiers:**
U - The analyte was analyzed for, but was not detected at a level greater than or equal to the RL; the value shown in the table is the RL.

**Exceedance Summary:**
**10** - Result exceeds NYSDOH AGVs

**Table 2**
**Sub-Slab Soil Vapor and Indoor Air Sample Analytical Results - NYSDOH Matrices**

**45 Commercial Street**
**Brooklyn, New York**
**NYSDEC BCP Site No.: C224304**
**Langan Project No.: 170229024**

| Analyte | CAS Number | NYSDOH Decision Matrix (IA) | | NYSDOH Decision Matrix (SSV) | | Location | AA03 | VP-1_IA01_SV01 | | VP-2_IA02_SV02 | | VP-3_IA03_SV03 | | VP-4_IA04_SV04 | | VP-5_IA05_SV05 | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | Sample Name | AA03_012224 | VP-1_IA01_012224 | VP-1_SV01_012224 | VP-2_IA02_012224 | VP-2_SV02_012224 | VP-3_IA03_012224 | VP-3_SV03_012224 | VP-4_IA04_012224 | VP-4_SV04_012224 | VP-5_IA05_012224 | VP-5_SV05_012224 |
| | | | | | | Sample Date | 01/22/2024 | 01/22/2024 | 01/22/2024 | 01/22/2024 | 01/22/2024 | 01/22/2024 | 01/22/2024 | 01/22/2024 | 01/22/2024 | 01/22/2024 | 01/22/2024 |
| | | | | | | Sample Type | AA | IA | SSV | IA | SSV | IA | SSV | IA | SSV | IA | SSV |
| | | | | | | Unit | Result | Result | Result | Result | Result | Result | Result | Result | Result | Result | Result |
| **Volatile Organic Compounds** | | | | | | | | | | | | | | | | | |
| 1,1,1-Trichloroethane | 71-55-6 | 3 | 10 | 100 | 1000 | ug/m3 | 0.54 | 0.246 | <1.09 | <0.109 | <1.09 | 0.18 | <1.09 | 0.131 | <1.09 | 0.48 | <1.09 |
| 1,1-Dichloroethene | 75-35-4 | 0.2 | 1 | 6 | 60 | ug/m3 | <0.079 | <0.079 | <0.793 | <0.079 | <0.793 | <0.079 | <0.793 | <0.079 | <0.793 | <0.079 | <0.793 |
| 1,2,4-Trimethylbenzene | 95-63-6 | 2 | 10 | 60 | 600 | ug/m3 | <0.983 | 1.39 | <9.83 | <0.983 | 1.67 | <0.983 | 1.72 | <0.983 | 1.18 | <0.983 | 1.08 |
| 1,3,5-Trimethylbenzene (Mesitylene) | 108-67-8 | 2 | 10 | 60 | 600 | ug/m3 | <0.983 | <0.983 | <9.83 | <0.983 | <0.983 | <0.983 | <0.983 | <0.983 | <0.983 | <0.983 | <0.983 |
| 2,2,4-Trimethylpentane | 540-84-1 | 2 | 10 | 60 | 600 | ug/m3 | <0.934 | <0.934 | <9.34 | <0.934 | <0.934 | <0.934 | 1.03 | <0.934 | <0.934 | <0.934 | <0.934 |
| Benzene | 71-43-2 | 2 | 10 | 60 | 600 | ug/m3 | 0.77 | 0.978 | <6.39 | 0.85 | 0.834 | 0.818 | 0.971 | 0.725 | 0.799 | 0.875 | 0.962 |
| Carbon Tetrachloride | 56-23-5 | 0.2 | 1 | 6 | 60 | ug/m3 | 0.472 | 0.44 | <1.26 | 0.465 | <1.26 | 0.465 | <1.26 | 0.44 | <1.26 | 0.447 | <1.26 |
| Cis-1,2-Dichloroethene | 156-59-2 | 0.2 | 1 | 6 | 60 | ug/m3 | <0.079 | <0.079 | <0.793 | <0.079 | <0.793 | <0.079 | <0.793 | <0.079 | <0.793 | <0.079 | <0.793 |
| Cyclohexane | 110-82-7 | 2 | 10 | 60 | 600 | ug/m3 | <0.688 | <0.688 | <6.88 | <0.688 | <0.688 | <0.688 | <0.688 | <0.688 | <0.688 | <0.688 | <0.688 |
| Ethylbenzene | 100-41-4 | 2 | 10 | 60 | 600 | ug/m3 | <0.869 | <0.869 | <8.69 | <0.869 | <0.869 | <0.869 | <0.869 | <0.869 | <0.869 | <0.869 | <0.869 |
| M,P-Xylene | 179601-23-1 | 6 | 20 | 200 | 2000 | ug/m3 | <1.74 | 3.41 | <17.4 | <1.74 | 2.44 | <1.74 | 2.84 | <1.74 | 1.89 | <1.74 | 1.92 |
| Methylene Chloride | 75-09-2 | 3 | 10 | 100 | 1000 | ug/m3 | <1.74 | <1.74 | <17.4 | <1.74 | <1.74 | <1.74 | <1.74 | <1.74 | 4.45 | <1.74 | <1.74 |
| n-Heptane | 142-82-5 | 6 | 20 | 200 | 2000 | ug/m3 | <0.82 | <0.82 | <8.2 | <0.82 | 0.852 | <0.82 | 0.996 | <0.82 | <0.82 | <0.82 | <0.82 |
| n-Hexane | 110-54-3 | 6 | 20 | 200 | 2000 | ug/m3 | <0.705 | <0.705 | <7.05 | 0.807 | 0.842 | <0.705 | 1.04 | <0.705 | 1.14 | <0.705 | 0.952 |
| o-Xylene (1,2-Dimethylbenzene) | 95-47-6 | 2 | 10 | 60 | 600 | ug/m3 | <0.869 | 1.06 | <8.69 | <0.869 | 1.08 | <0.869 | 1.22 | <0.869 | <0.869 | <0.869 | <0.869 |
| Tetrachloroethene (PCE) | 127-18-4 | 3 | 10 | 100 | 1000 | ug/m3 | <0.136 | <0.136 | <1.36 | <0.136 | <1.36 | <0.136 | <1.36 | <0.136 | <1.36 | <0.136 | <1.36 |
| Toluene | 108-88-3 | 10 | 50 | 300 | 3000 | ug/m3 | <0.754 | 3.07 | <7.54 | 1.72 | 2.98 | 0.976 | 3.48 | 0.776 | 2.24 | 0.897 | 2.58 |
| Trichloroethene (TCE) | 79-01-6 | 0.2 | 1 | 6 | 60 | ug/m3 | <0.107 | <0.107 | <1.07 | <0.107 | <1.07 | <0.107 | <1.07 | <0.107 | <1.07 | <0.107 | <1.07 |
| Vinyl Chloride | 75-01-4 | 0 | 0.2 | 6 | 60 | ug/m3 | <0.051 | <0.051 | <0.511 | <0.051 | <0.511 | <0.051 | <0.511 | <0.051 | <0.511 | <0.051 | <0.511 |

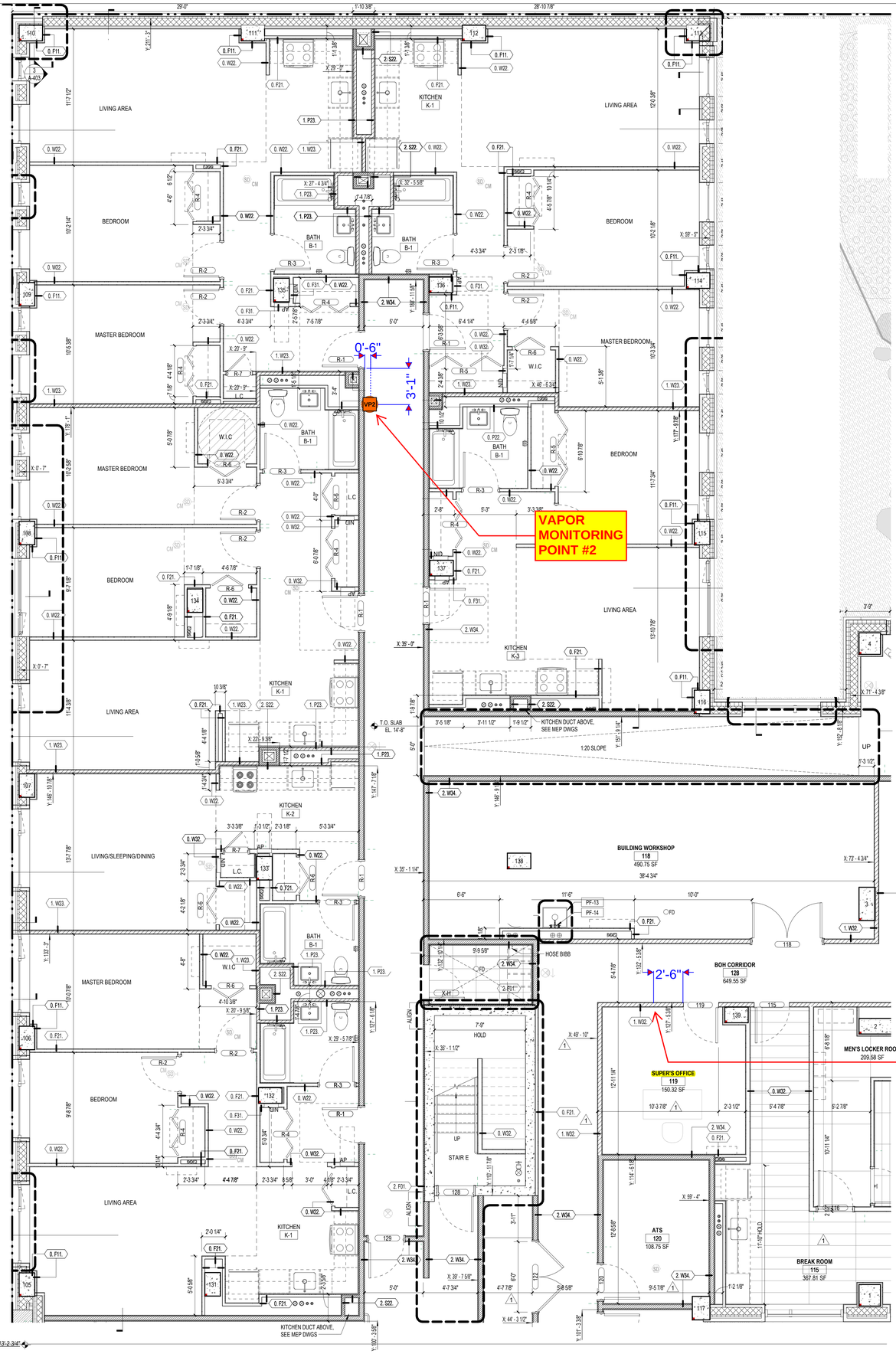
**Notes:**
AA - Ambient Air
IA - Indoor Air
SSV - Sub-slab Soil Vapor
CAS - Chemical Abstract Service
NS - No standard
ug/m3 - microgram per cubic meter
NA - Not analyzed
RL - Reporting limit
<RL - Not detected
Co-located sub-slab vapor and indoor air sample analytical results are evaluated using the New York State Department of Health (NYSDOH) October 2006 Guidance for Evaluating Soil Vapor Intrusion in the State of New York Decision Matrices for Sub-Slab Vapor and Indoor Air and subsequent updates (through to 2024).
Ambient air sample analytical results are shown for reference only.

**Qualifiers:**
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 the minimum threshold for which monitoring is recommended
10 - Result exceeds the minimum threshold for which mitigation is recommended
10 - Result exceeds the minimum threshold for which identification of source(s) and resampling or mitigation is recommended

# APPENDIX A

# SMD SYSTEM AS-BUILTS AND BLOWER REPLACEMENT DOCUMENTATION




1 ENLARGED LEVEL 01 FLOOR PLAN C
1/4" = 1'-0"

## FLAGS & CONFLICTS

THIS SYMBOL DESIGNATES A QUESTION REQUIRING AN ANSWER FROM ARCHITECT AND/OR ENGINEER. IF NOT ACTED UPON IT WILL BE ASSUMED ACCEPTABLE AS SHOWN. CONSTRUCTION MANAGER PLEASE ENSURE ALL QUESTIONS ARE ANSWERED.

| No. | DATE | DESCRIPTION | INT. |
|---|---|---|---|

REVISION

KEY PLAN

BELL SLIP

COMMERCIAL ST


William F. Ryan Jr. PE
299 Broadway STE 1403
New York, NY 10007


MECHANICAL CONTRACTOR

ICONIC MECHANICAL SERVICES CORP.
84-70 MAURICE AVE. MASPETH, NY 11378 • 718-886-5500

PROJECT

**H1 - H2**
35 COMMERCIAL STREET
BROOKLYN, NY 11222

DRAWING TITLE

**1ST FLOOR**
MECHANICAL PART PLAN
SHEET METAL

| DATE | DRAWN BY |
|---|---|
| 2/28/2022 | J.R. |
| SCALE: AS NOTED | CHK. BY: J.R. |

DRAWING NO. **PAGE 1**

STATE OF NEW YORK
WILLIAM FRANCIS RYAN JR.
079554
LICENSED PROFESSIONAL ENGINEER

02/29/2024

These drawing are intended for the "As-Built" Sub-membrane depressurization system.

**AS-BUILT**
DATE: 06/28/2023 BY: JR

VAPOR MONITORING POINT #4

VP4

2'-4"

2'-0"

VAPOR MONITORING POINT #3

VP3

3'-9"

3'-8 1/2"

LAUNDRY
111
1,064.90 SF

MECHANICAL
112
172.34 SF

CHILDREN'S AREA
110
706.53 SF

RESTROOM
109
67.39 SF

RESTROOM
108
67.39 SF

FITNESS ROOM
107
868.54 SF

TENANT RECREATION SPACE
106
1,220.49 SF

CORRIDOR
113

COMPACTOR ROOM
105
405.88 SF

BIKE STORAGE
114
1,405.06 SF

PRV CLOSET
114A

WOMEN'S LOCKER ROOM
117
217.48 SF

MEN'S LOCKER ROOM
116
209.58 SF

BREAK ROOM
115
367.81 SF

STAIR A

STAIR B

HOSE BIB

1 ENLARGED LEVEL 01 FLOOR PLAN B
1/4" = 1'-0"

## FLAGS & CONFLICTS

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| No. | DATE | DESCRIPTION | INT. |
|---|---|---|---|

REVISION

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STATE OF NEW YORK
WILLIAM FRANCIS RYAN JR.
079554
LICENSED PROFESSIONAL ENGINEER

02/29/2024

These drawing are intended for the "As-Built" Sub-membrane depressurization system.

AS-BUILT
DATE: 06/28/2023 BY: JR

PROJECT

**H1 - H2**
35 COMMERCIAL STREET
BROOKLYN, NY 11222

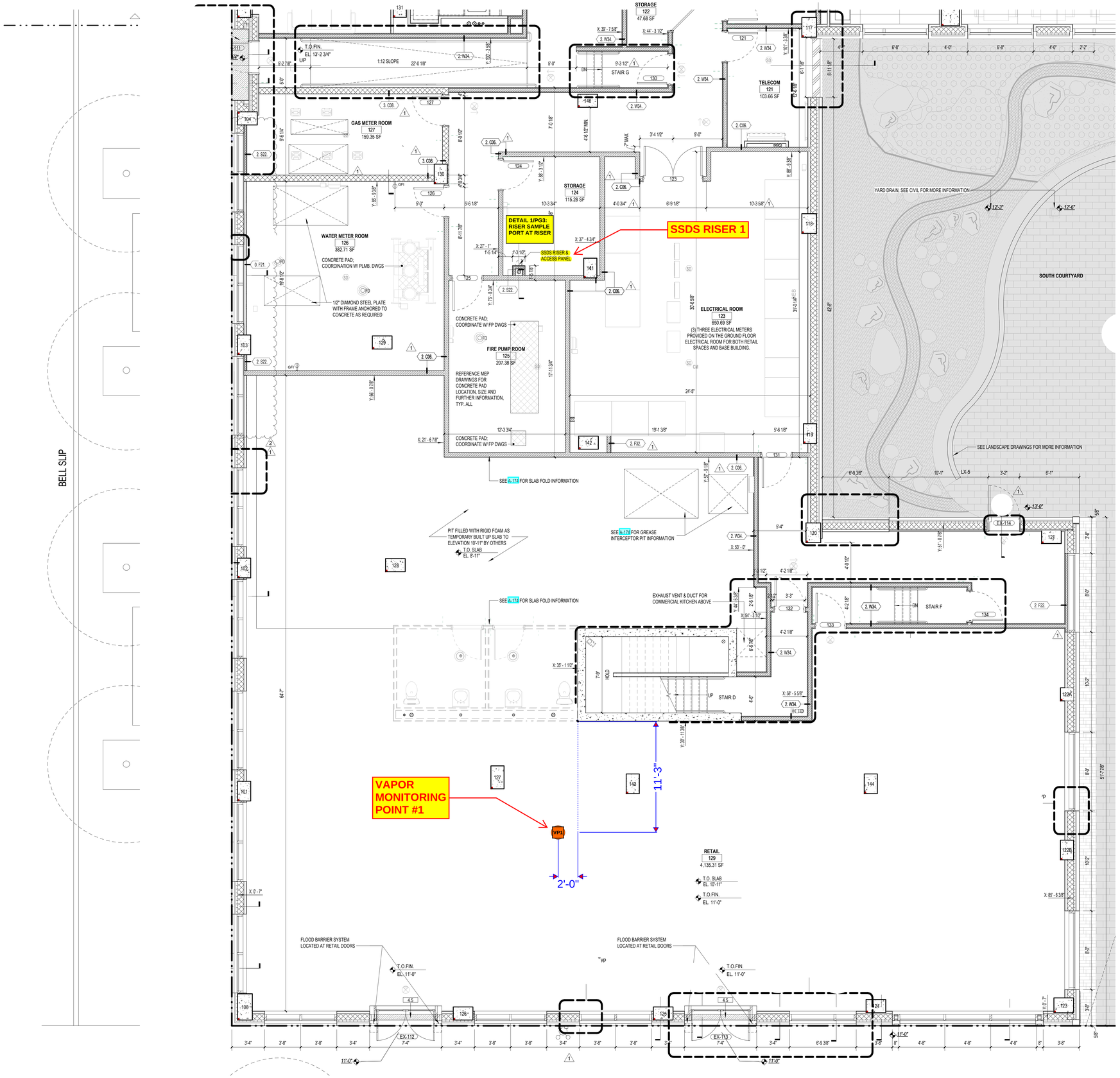
DRAWING TITLE

**1ST FLOOR**
MECHANICAL PART PLAN
SHEET METAL

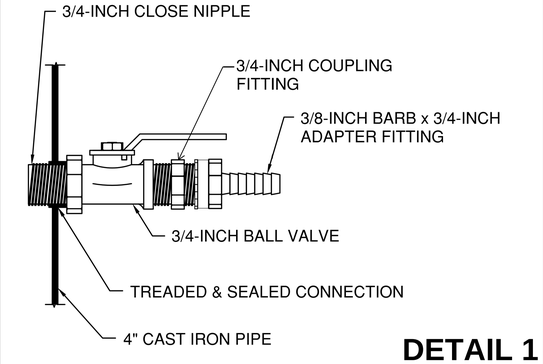
| DATE | DRAWN BY |
|---|---|
| 2/28/2022 | J.R. |
| SCALE | CHK. BY |
| AS NOTED | J.R. |

DRAWING NO.

**PAGE 2**




1 ENLARGED LEVEL 01 FLOOR PLAN D
1/4" = 1'-0"




**DETAIL 1**

## FLAGS & CONFLICTS

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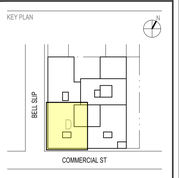
| No. | DATE | DESCRIPTION | INT. |
|---|---|---|---|

REVISION

KEY PLAN

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35 COMMERCIAL STREET
BROOKLYN, NY 11222

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**AS-BUILT**
DATE: 06/28/2023 BY: JR

DRAWING TITLE

**1ST FLOOR**
MECHANICAL PART PLAN
SHEET METAL

| DATE | DRAWN BY |
|---|---|
| 2/28/2022 | J.R. |
| SCALE: AS NOTED | CHK. BY: J.R. |

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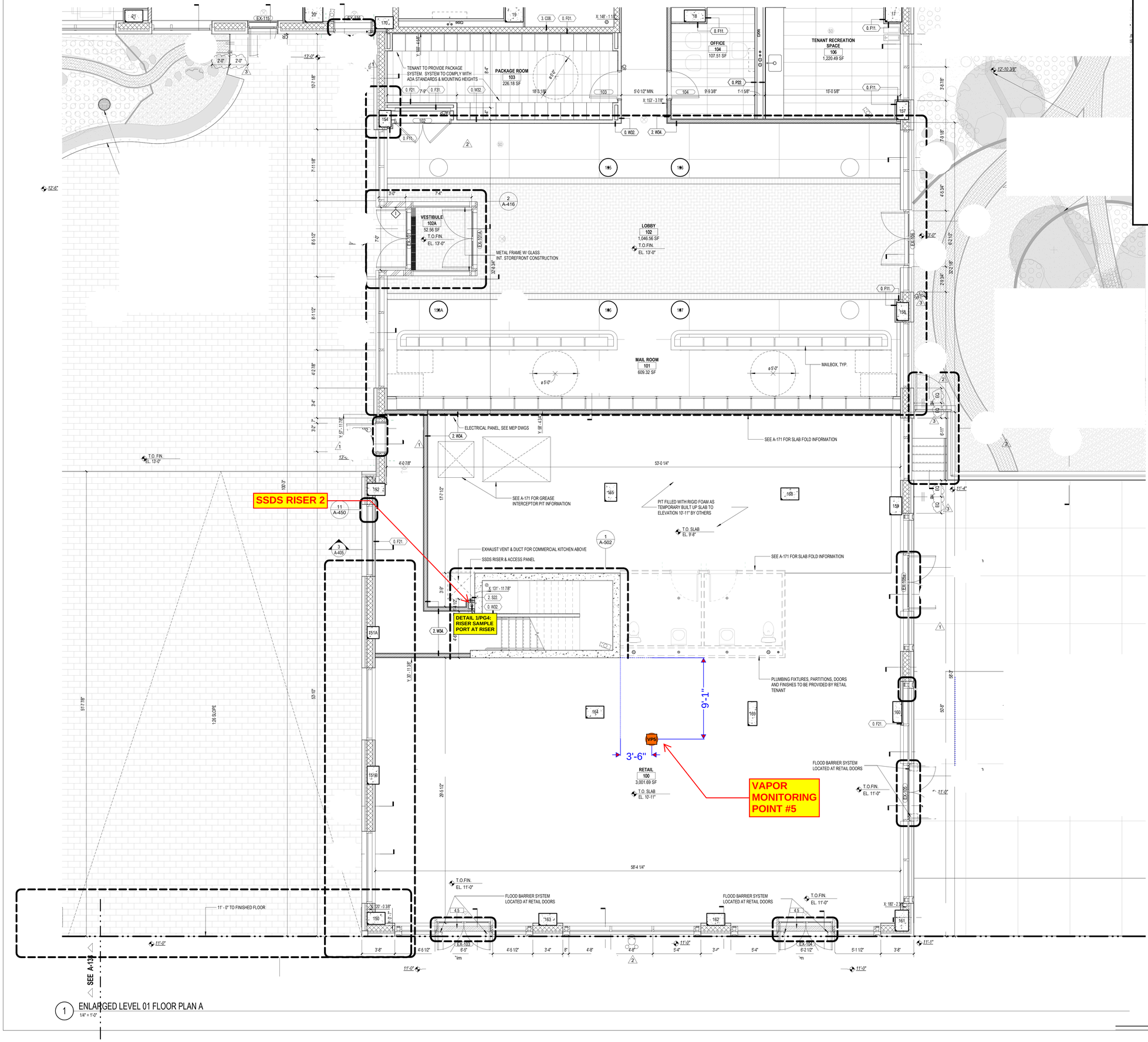
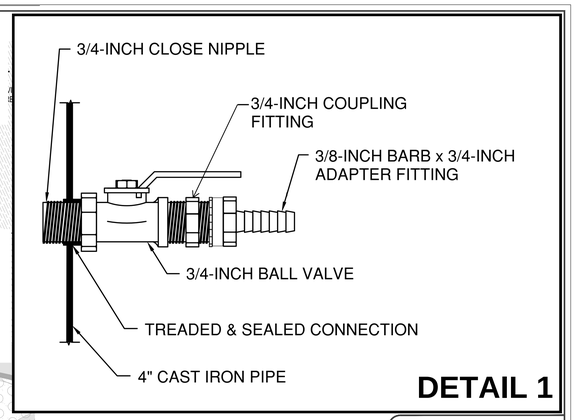
**PAGE 3**




1 ENLARGED LEVEL 01 FLOOR PLAN A
1/4" = 1'-0"




**DETAIL 1**

## FLAGS & CONFLICTS

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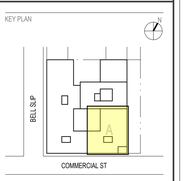
| No. | DATE | DESCRIPTION | INT. |
|---|---|---|---|

REVISION

KEY PLAN

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PROJECT

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35 COMMERCIAL STREET
BROOKLYN, NY 11222

DRAWING TITLE

**1ST FLOOR**
MECHANICAL PART PLAN
SHEET METAL

| DATE | DRAWN BY |
|---|---|
| 2/28/2022 | J.R. |
| SCALE: AS NOTED | CHK. BY: J.R. |

DRAWING NO.

**PAGE 4**

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02/29/2024

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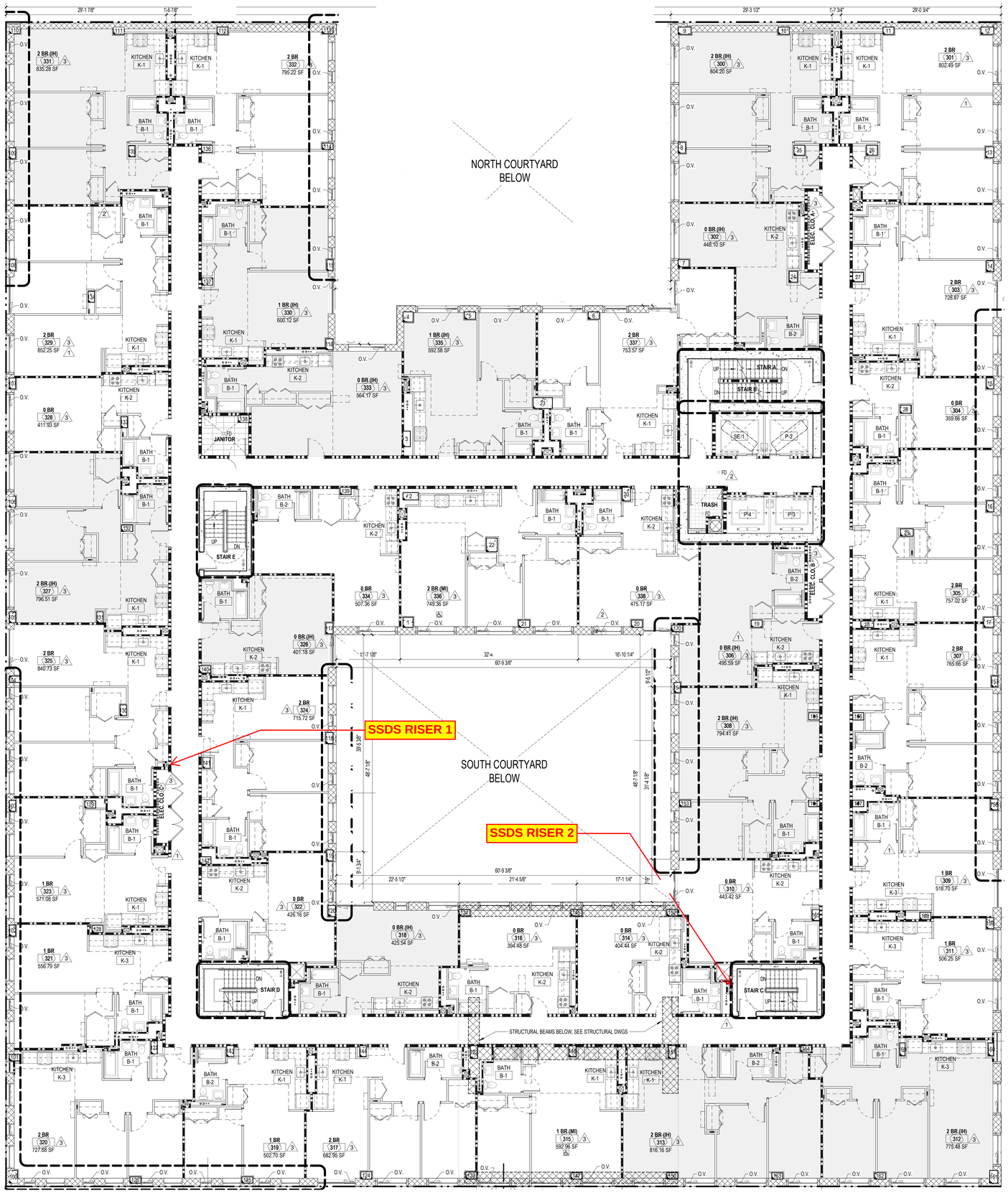
**AS-BUILT**
DATE: 06/28/2023 BY: JR




1 LEVEL 03 FLOOR PLAN
1/8" = 1'-0"

## FLAGS & CONFLICTS

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| No. | DATE | DESCRIPTION | INT. |
|---|---|---|---|

REVISION

KEY PLAN

BELL SLIP

COMMERCIAL ST


William F. Ryan Jr. PE
299 Broadway STE 1403
New York, NY 10007


STATE OF NEW YORK
WILLIAM FRANCIS RYAN JR.
079554
LICENSED PROFESSIONAL ENGINEER

02/29/2024

These drawing are intended for the "As-Built" Sub-membrane depressurization system.

**AS-BUILT**

DATE: 06/28/2023 BY: JR

MECHANICAL CONTRACTOR

ICONIC MECHANICAL SERVICES CORP.
84-70 MAURICE AVE. MASPETH, NY 11378 • 718-898-5500

PROJECT

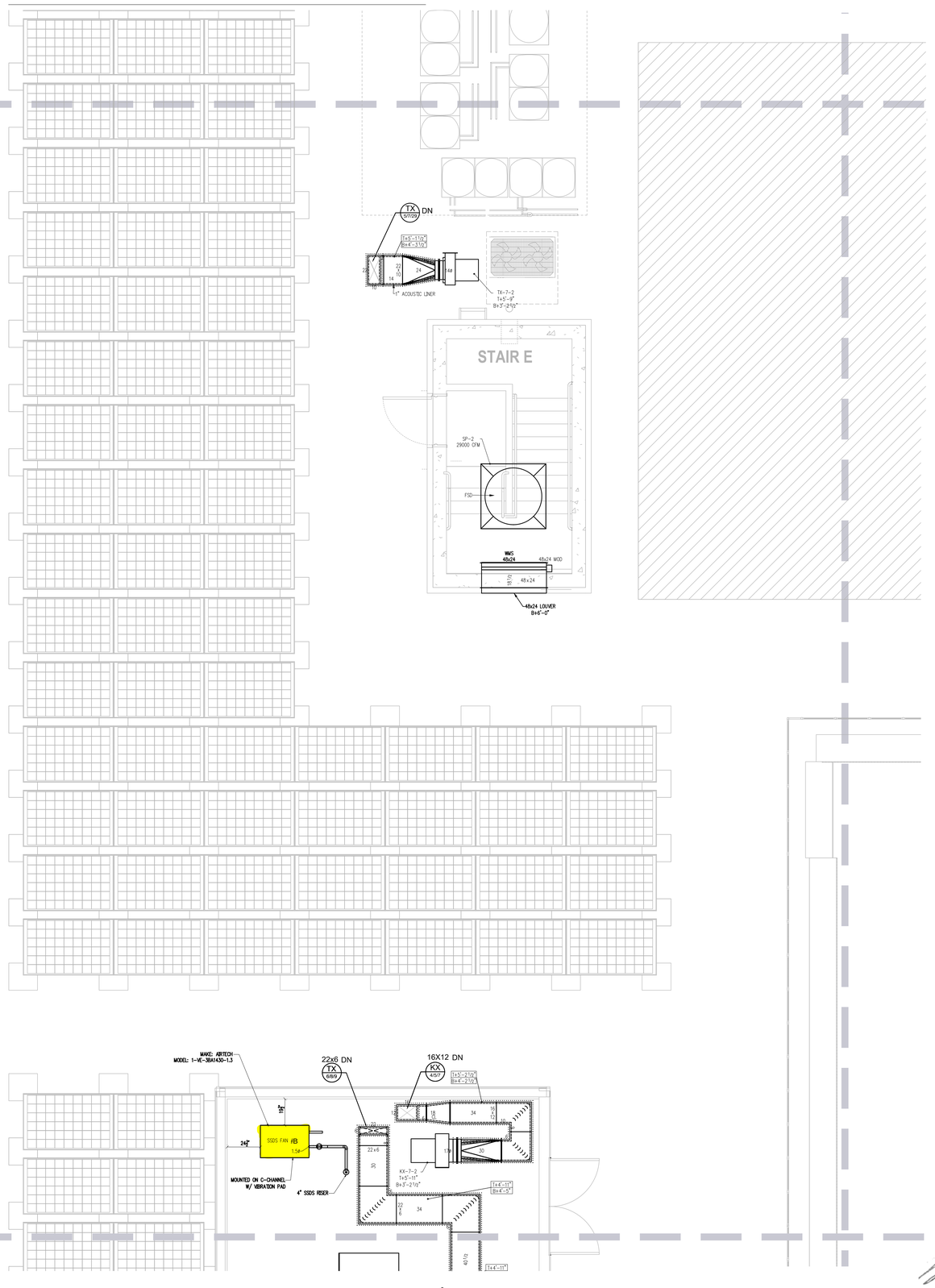
**H1 - H2**
35 COMMERCIAL STREET
BROOKLYN, NY 11222

DRAWING TITLE

**2ND - 6TH FLOOR**
MECHANICAL PART PLAN
SHEET METAL

| DATE | DRAWN BY |
|---|---|
| 2/28/2022 | J.R. |
| SCALE | CHK. BY |
| AS NOTED | J.R. |

DRAWING NO. **PAGE 5**




## FLAGS & CONFLICTS

| | |
|---|---|
| ? | THIS SYMBOL DESIGNATES A QUESTION REQUIRING AN ANSWER FROM ARCHITECT AND/OR ENGINEER. IF NOT ACTED UPON IT WILL BE ASSUMED ACCEPTABLE AS SHOWN. CONSTRUCTION MANAGER PLEASE ENSURE ALL QUESTIONS ARE ANSWERED. |

| No. | DATE | DESCRIPTION | INT. |
|---|---|---|---|

REVISION

SITE PLAN

NORTH

MS-107-1 | MS-107-2 | MS-107-3
MS-107-4 | MS-107-5 | MS-107-6
MS-107-7 | MS-107-8 | MS-107-9


William F. Ryan Jr. PE
299 Broadway STE 1403
New York, NY 10007


MECHANICAL CONTRACTOR


ICONIC MECHANICAL SERVICES CORP.
84-70 MAURICE AVE. MASPETH, NY 11378 • 718-898-5500


STATE OF NEW YORK
WILLIAM FRANCIS RYAN JR.
079554
LICENSED PROFESSIONAL ENGINEER

02/29/2024

PROJECT

**H1 - H2**

35 COMMERCIAL STREET
BROOKLYN, NY 11222

DRAWING TITLE

7TH FLOOR
MECHANICAL PART PLAN
SHEET METAL

| DATE | DRAWN BY |
|---|---|
| 2/28/2022 | J.R. |
| SCALE: AS NOTED | CHK. BY: J.R. |

DRAWING NO.

**PAGE 6**

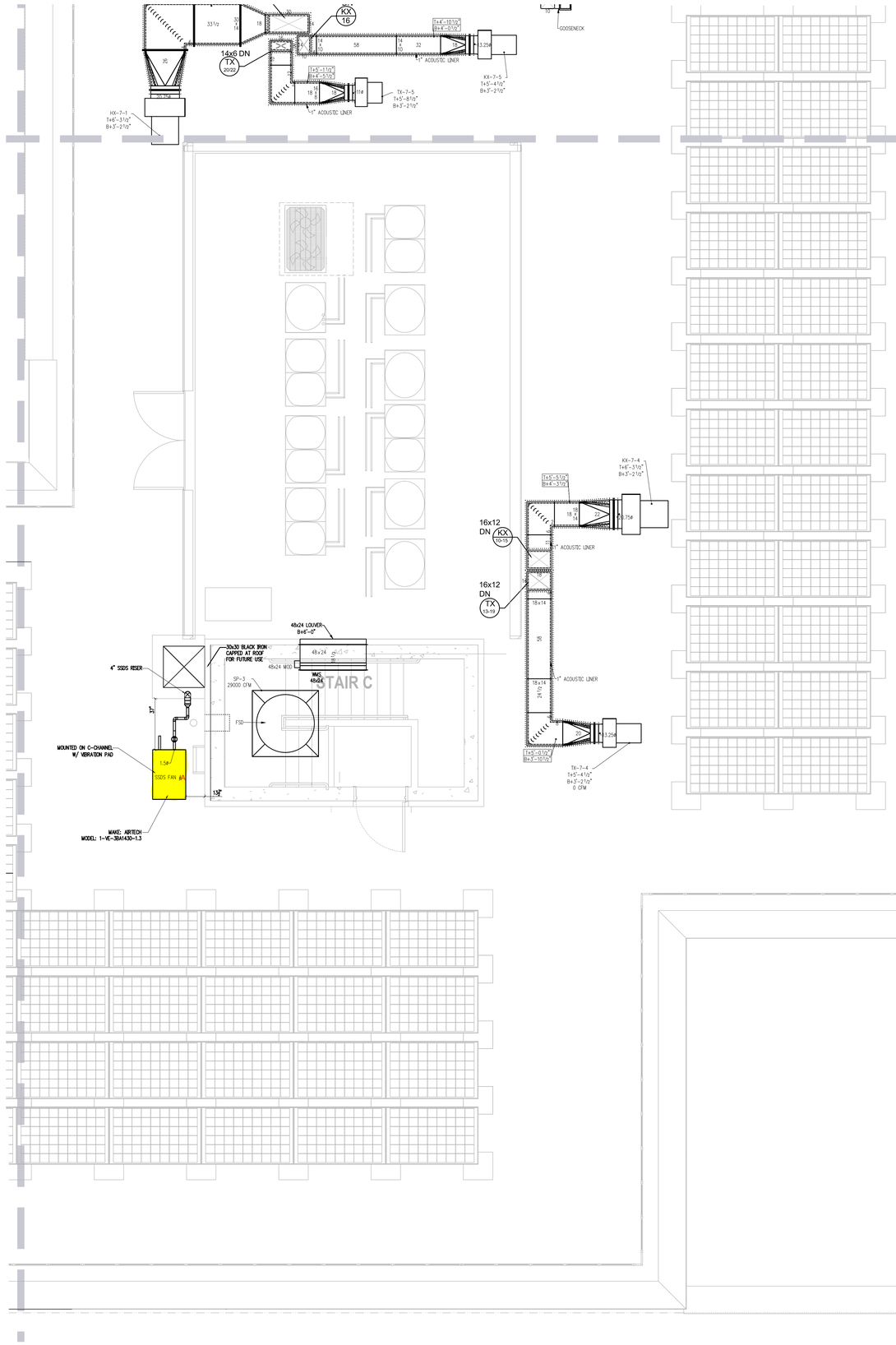
# 7TH FLOOR MECHANICAL PART PLAN

SCALE 3/8" = 1'-0"

These drawing are intended for the "As-Built"
Sub-membrane depressurization system.

# AS-BUILT

DATE: 06/28/2023 BY: JR




## 7TH FLOOR MECHANICAL PART PLAN

SCALE 3/8" = 1'-0"

## FLAGS & CONFLICTS

| | |
|---|---|
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| No. | DATE | DESCRIPTION | INT. |
|---|---|---|---|

REVISION

SITE PLAN

NORTH

MS-107-1 | MS-107-2 | MS-107-3
MS-107-4 | MS-107-5 | MS-107-6
MS-107-7 | MS-107-8 | MS-107-9


William F. Ryan Jr. PE
299 Broadway STE 1403
New York, NY 10007


MECHANICAL CONTRACTOR:

ICONIC MECHANICAL SERVICES CORP.
64-70 MAURICE AVE. MASPETH, NY 11378 • 718-898-5500

PROJECT

**H1 - H2**
35 COMMERCIAL STREET
BROOKLYN, NY 11222

DRAWING TITLE

7TH FLOOR
MECHANICAL PART PLAN
SHEET METAL

| DATE | DRAWN BY |
|---|---|
| 2/28/2022 | J.R. |
| SCALE: AS NOTED | CHK. BY: J.R. |

DRAWING NO.

**PAGE 7**

STATE OF NEW YORK
WILLIAM FRANCIS RYAN JR
079554
LICENSED PROFESSIONAL ENGINEER

02/29/2024

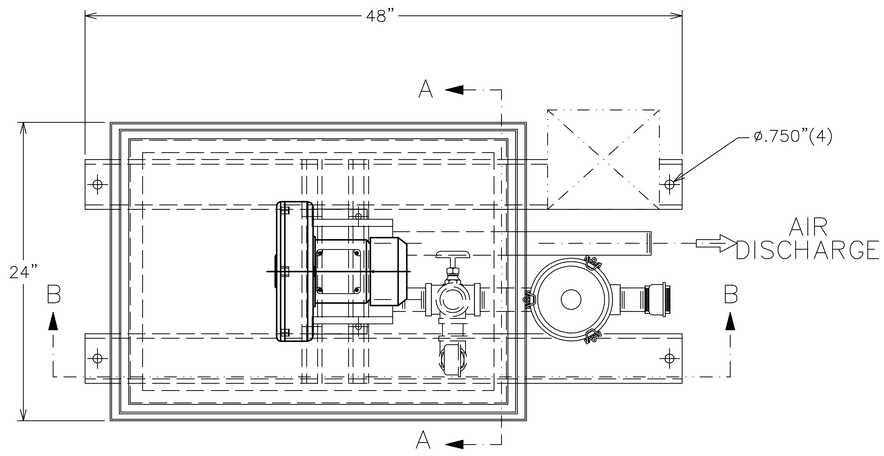
These drawing are intended for the "As-Built"
Sub-membrane depressurization system.

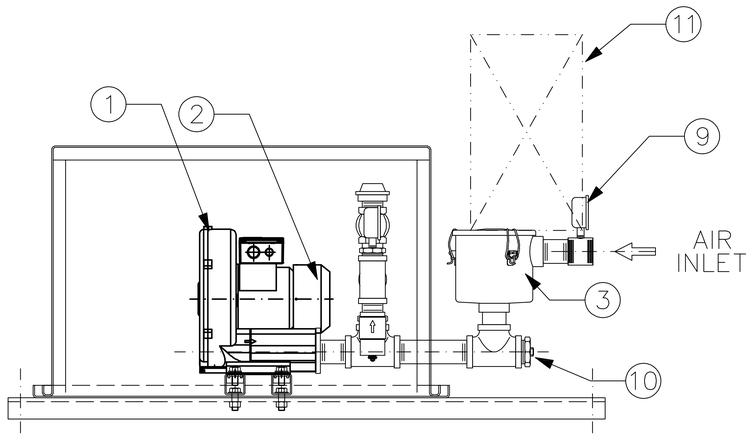
# AS-BUILT

DATE: 06/28/2023 BY: JR

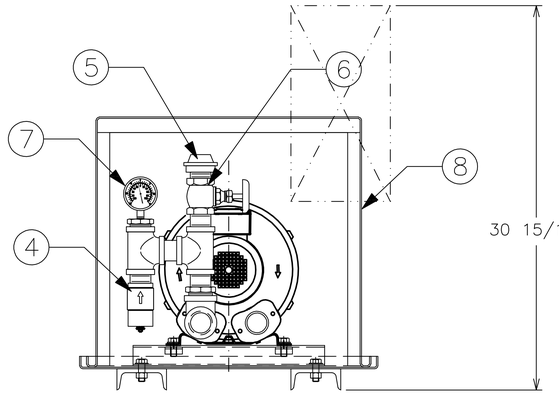
| PRODUCTION REVISIONS | | | | |
|---|---|---|---|---|
| REVISION | DESCRIPTION | DATE | ENG. | APPR. |
| | | | | |
| | | | | |

| ITEM | REQ'D | DESCRIPTION | SIZE | PART NO. |
|---|---|---|---|---|
| 1 | 1 | VACUUM BLOWER | 1-1/2" | 3BA1430-7AT16 |
| 2 | 1 | MOTOR | 1.3HP | TEFC |
| 3 | 1 | INLET FILTER (WIRE MESH) | 1-1/2" | ATF-150-1337 |
| 4 | 1 | RELIEF VALVE | 1-1/4" | VC51Z-2.5"Hg |
| 5 | 1 | INLET STAINER | 1-1/4" | |
| 6 | 1 | AIR BLEED VALVE | 1-1/4" | GLOBE |
| 7 | 1 | VACUUM GAUGE | 2-1/2" | 0-100" WC |
| 8 | 1 | SOUND ENCLOSURE | | SD-4 |
| 9 | 1 | VACUUM GAUGE | 2-1/2" | 0-100" WC |
| 10 | 1 | TEST PORT PLUG | 1/2" | |
| 11 | 1 | CONTROL PANEL | | |
| | | | | |
| A | 1 | AIR INLET | 1-1/2" | |
| B | 1 | AIR DISCHARGE | 1-1/2" | |




SECTION B-B




SECTION A-A

NOTE:
TYPICAL DIMENSIONS ONLY. NOT TO BE USED FOR CONSTRUCTION WITHOUT CONSULTING FACTORY. SUBJECT TO CHANGE WITHOUT NOTICE.



SURFACE FINISH
ACC. TO ISO 1302

DIMENSIONS W/O TOLERANCES
ACC. TO ISO 2768 - mH

SCALE: NTS

WEIGHT: APPROX. 275 LBS

MATERIAL: 1-VE-3BA1430-1.3

| | DATE | ENG. |
|---|---|---|
| DRAWN | 9-3-2021 | K.V. |
| CHECKED | 9-3-2021 | A.N. |
| | | A3 |

DESCRIPTION:

VACUUM BLOWER PACKAGE
BLOWER A

| # | DESCRIPTION | DATE | ENG. | APPR. |
|---|---|---|---|---|
| 0 | DRAWING CREATED | 9-3-2021 | K.V. | A.N. |

INNOVATION | DESIGN | SOLUTION
AIRTECH®
AN ISO 9001:2015 CERTIFIED COMPANY GROUP
301 Veterans Blvd, Rutherford NJ 07070
Tel:201-569-1173 | Fax:201-569-1696
www.airtechusa.com

DRW-File: 1928A-1

SHEET: 1 SH. 1

MODEL:

PRODUCT CODE:



FLAGS & CONFLICTS

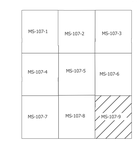
THIS SYMBOL DESIGNATES A QUESTION REQUIRING AN ANSWER FROM ARCHITECT AND/OR ENGINEER. IF NOT ACTED UPON IT WILL BE ASSUMED ACCEPTABLE AS SHOWN. CONSTRUCTION MANAGER PLEASE ENSURE ALL QUESTIONS ARE ANSWERED.

| No. | DATE | DESCRIPTION | INT. |
|---|---|---|---|

REVISION

SITE PLAN

NORTH




William F. Ryan Jr. PE
299 Broadway STE 1403
New York, NY 10007

MECHANICAL CONTRACTOR

ICONIC MECHANICAL SERVICES CORP.
64-70 MAURICE AVE. MASPETH, NY 11378 • 718-898-5500

PROJECT

**H1 - H2**
35 COMMERCIAL STREET
BROOKLYN, NY 11222

DRAWING TITLE

**BLOWER FAN A ASSEMBLY DETAILS**

| DATE | DRAWN BY |
|---|---|
| 2/28/2022 | J.R. |
| SCALE: AS NOTED | CHK. BY: J.R. |

DRAWING NO.

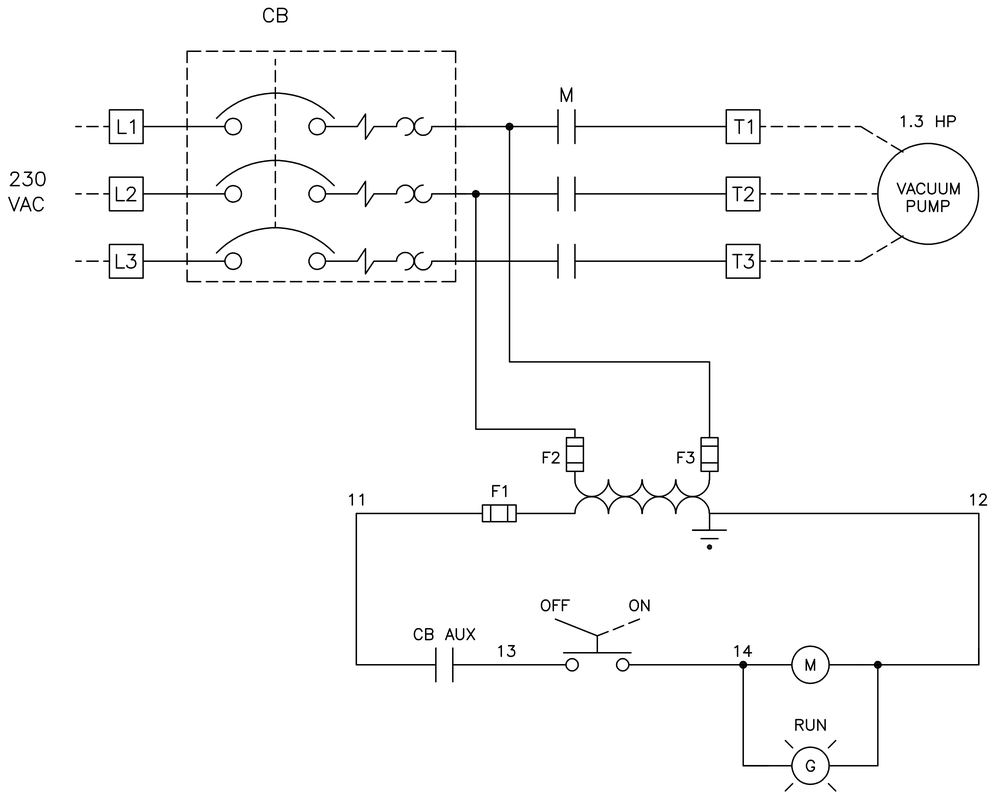
**PAGE 8**

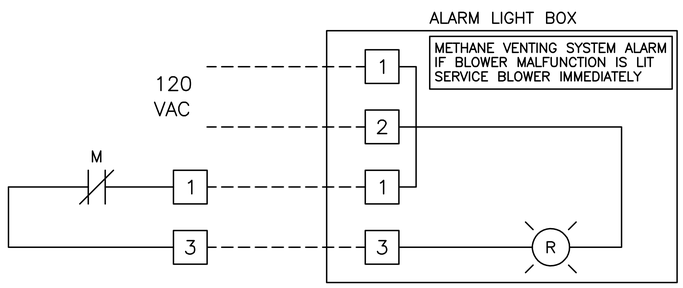
STATE OF NEW YORK
WILLIAM FRANCIS RYAN JR.
079554
LICENSED PROFESSIONAL ENGINEER
02/29/2024

These drawing are intended for the "As-Built" Sub-membrane depressurization system.

AS-BUILT
DATE: 06/28/2023 BY: JR

| REV. | DESCRIPTION | BY | DATE |
|---|---|---|---|
| | | | |




NOTES:
1) ALL FIELD WIRING USE COPPER WIRE ONLY, 60 DEG C WIRE INSULATION IF RATED LESS THAN 100 AMP, 75 DEG C WIRE INSULATION IF RATED 100 AMP OR MORE
2) 15 IN-LB RECOMMENDED TORQUE FOR FIELD CONNECTIONS

FLAGS & CONFLICTS

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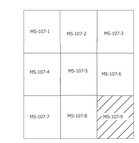
| No. | DATE | DESCRIPTION | INT. |
|---|---|---|---|

REVISION

SITE PLAN

NORTH





William F. Ryan Jr. PE
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STATE OF NEW YORK
WILLIAM FRANCIS RYAN JR.
079554
LICENSED PROFESSIONAL ENGINEER

02/29/2024

MECHANICAL CONTRACTOR

ICONIC MECHANICAL SERVICES CORP.
84-70 MAURICE AVE. MASPETH, NY 11378 • 718-898-5500

PROJECT

**H1 - H2**
35 COMMERCIAL STREET
BROOKLYN, NY 11222

| JOB #1928A | TITLE: AIRTECH INDUSTRIAL SIMPLEX ELECT SCHEM | DRAWING DESIGNS AND OTHER DISCLOSURES ARE THE PROPERTY OF DMAG INC. UNAUTHORIZED USE, MANUFACTURE OR REPRODUCTION IN WHOLE OR IN PART IS PROHIBITED. | OM&C<br>OLSON MOTOR & CONTROL CO<br>100 OLD CAMPLAIN RD<br>HILLSBOROUGH, NJ 08844 |
|---|---|---|---|
| PRGM: N/A | | DRAWN BY: MS | |
| SHEET 1 OF 1 | DWG: AT-1782A | DATE: 8/18/2020 | |

These drawing are intended for the "As-Built" Sub-membrane depressurization system.

AS-BUILT

DATE: 06/28/2023 BY: JR

DRAWING TITLE

**BLOWER FAN A WIRING DIAGRAM**

| DATE | DRAWN BY |
|---|---|
| 2/28/2022 | J.R. |
| SCALE: AS NOTED | CHK. BY: J.R. |

DRAWING NO.

**PAGE 9**

| PRODUCTION REVISIONS | | | | |
|---|---|---|---|---|
| REVISION | DESCRIPTION | DATE | ENG. | APPR. |
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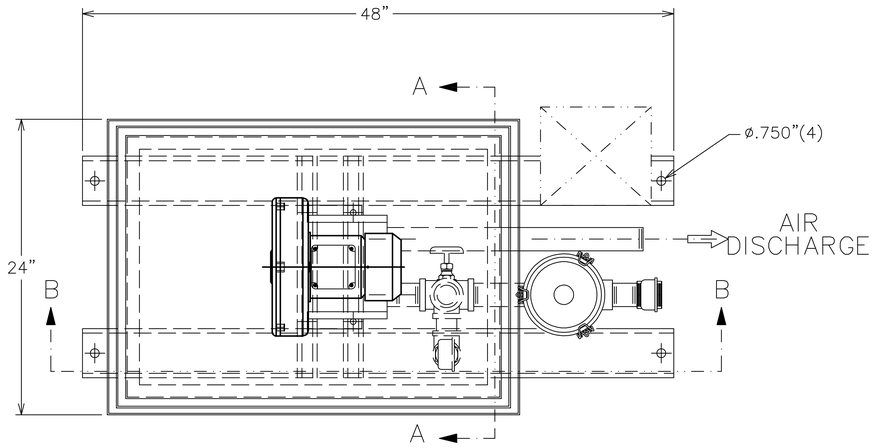
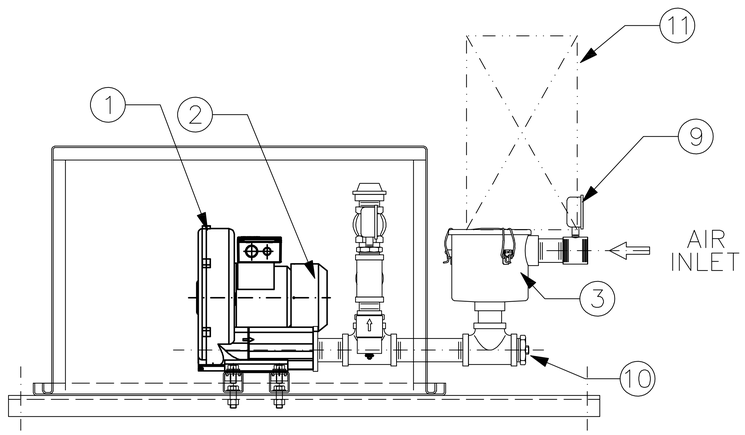
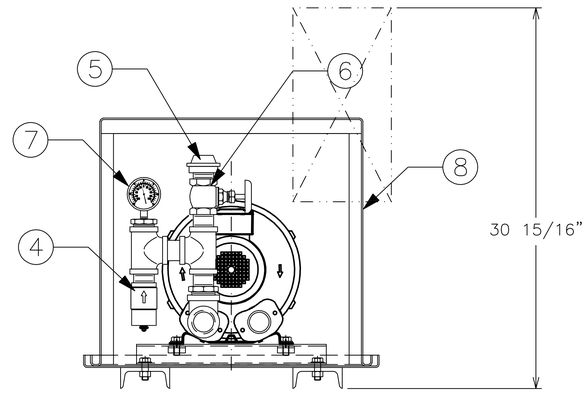



| ITEM | REQ'D | DESCRIPTION | SIZE | PART NO. |
|---|---|---|---|---|
| 1 | 1 | VACUUM BLOWER | 1-1/2" | 3BA1430-7AT16 |
| 2 | 1 | MOTOR | 1.3HP | TEFC |
| 3 | 1 | INLET FILTER (WIRE MESH) | 1-1/2" | ATF-150-1337 |
| 4 | 1 | RELIEF VALVE | 1-1/4" | VC51Z-2.5"Hg |
| 5 | 1 | INLET STAINER | 1-1/4" | |
| 6 | 1 | AIR BLEED VALVE | 1-1/4" | GLOBE |
| 7 | 1 | VACUUM GAUGE | 2-1/2" | 0-100" WC |
| 8 | 1 | SOUND ENCLOSURE | | SD-4 |
| 9 | 1 | VACUUM GAUGE | 2-1/2" | 0-100" WC |
| 10 | 1 | TEST PORT PLUG | 1/2" | |
| 11 | 1 | CONTROL PANEL | | |
| | | | | |
| A | 1 | AIR INLET | 1-1/2" | |
| B | 1 | AIR DISCHARGE | 1-1/2" | |




SECTION B-B




SECTION A-A

NOTE:
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SURFACE FINISH
ACC. TO ISO 1302

DIMENSIONS W/O TOLERANCES
ACC. TO ISO 2768 - mH

| | DATE | ENG. |
|---|---|---|
| DRAWN | 9-3-2021 | K.V. |
| CHECKED | 9-3-2021 | A.N. |
| | | A3 |

SCALE: NTS

WEIGHT: APPROX. 275 LBS

MATERIAL: 1-VE-3BA1430-1.3

DESCRIPTION:

VACUUM BLOWER PACKAGE
BLOWER B

DRW-File: 1928B-1

SHEET: 1 SH. 1

MODEL:

PRODUCT CODE:

| # | DESCRIPTION | DATE | ENG. | APPR. |
|---|---|---|---|---|
| 0 | DRAWING CREATED | 9-3-2021 | K.V. | A.N. |


INNOVATION | DESIGN | SOLUTION
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AN ISO 9001:2015 CERTIFIED COMPANY GROUP
301 Veterans Blvd, Rutherford NJ 07070
Tel:201-569-1173 | Fax:201-569-1696
www.airtechusa.com




FLAGS & CONFLICTS

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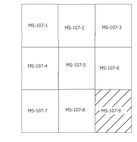
| No. | DATE | DESCRIPTION | INT. |
|---|---|---|---|

REVISION

SITE PLAN

NORTH





William F. Ryan Jr. PE
299 Broadway STE 1403
New York, NY 10007


MECHANICAL CONTRACTOR:

ICONIC MECHANICAL SERVICES CORP.
84-70 MAURICE AVE. MASPETH, NY 11378 • 718-898-5500

PROJECT

**H1 - H2**
35 COMMERCIAL STREET
BROOKLYN, NY 11222

DRAWING TITLE

**BLOWER FAN B ASSEMBLY DETAILS**

| DATE | DRAWN BY |
|---|---|
| 2/28/2022 | J.R. |
| SCALE | CHK. BY |
| AS NOTED | J.R. |

DRAWING NO.

**PAGE 10**

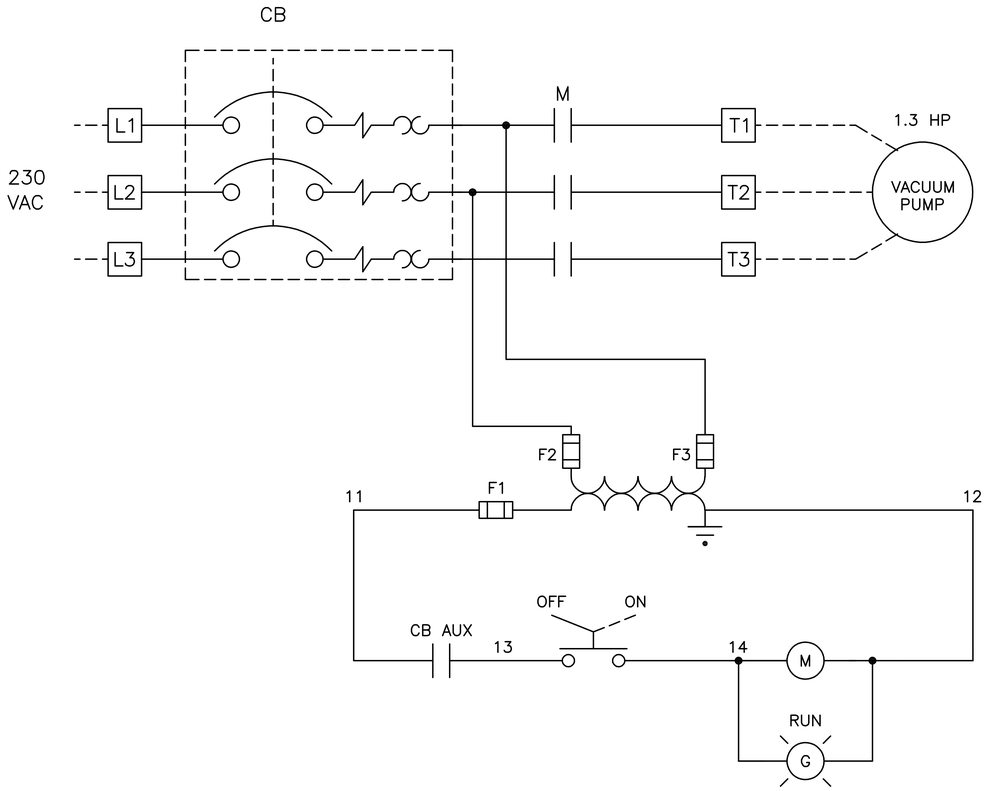
STATE OF NEW YORK
WILLIAM FRANCIS RYAN JR.
079554
LICENSED PROFESSIONAL ENGINEER

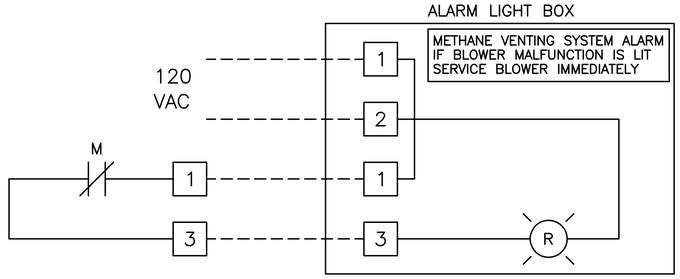
02/29/2024

These drawing are intended for the "As-Built" Sub-membrane depressurization system.

AS-BUILT
DATE: 06/28/2023 BY: JR

| REV. | DESCRIPTION | BY | DATE |
|---|---|---|---|
| | | | |




NOTES:
1) ALL FIELD WIRING USE COPPER WIRE ONLY, 60 DEG C WIRE INSULATION IF RATED LESS THAN 100 AMP, 75 DEG C WIRE INSULATION IF RATED 100 AMP OR MORE
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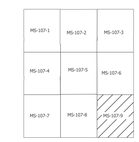
| No. | DATE | DESCRIPTION | INT. |
|---|---|---|---|

REVISION

SITE PLAN

NORTH





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New York, NY 10007


| | | |
|---|---|---|
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| PRGM: N/A | | DRAWN BY: MS |
| SHEET 1 OF 1 | DWG: AT-1782A | DATE: 8/18/2020 |

OM&C
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100 OLD CAMPLAIN RD
HILLSBOROUGH, NJ 08844

MECHANICAL CONTRACTOR

ICONIC MECHANICAL SERVICES CORP.
84-70 MAURICE AVE. MASPETH, NY 11378 • 718-898-5500

STATE OF NEW YORK
WILLIAM FRANCIS RYAN JR
079554
LICENSED PROFESSIONAL ENGINEER
02/29/2024

These drawing are intended for the "As-Built" Sub-membrane depressurization system.

AS-BUILT
DATE: 06/28/2023 BY: JR

PROJECT

**H1 - H2**
35 COMMERCIAL STREET
BROOKLYN, NY 11222

DRAWING TITLE

**BLOWER FAN B WIRING DIAGRAM**

| DATE | DRAWN BY |
|---|---|
| 2/28/2022 | J.R. |
| SCALE: AS NOTED | CHK. BY: J.R. |

DRAWING NO.

**PAGE 11**

# AIRTECH, INC.

**301 Veterans Blvd.**
**Rutherford, NJ 07070**
Tel: (201) 569-1173  Fax: (201) 569-1696

# OPERATION AND MAINTENANCE MANUAL

## LANGAN ENGINEERING

## SUB-MEMBRANE/ SUB SLAB DEPRESSURIZATION SYSTEM

AIRTECH PROJECT #XXXX

**Specializing in compressed air and vacuum systems**

# EQUIPMENT DATA

## AIRTECH INC.

**301 Veterans Blvd.**
**Rutherford, NJ 07070**

PROJECT

CUSTOMER

### SIMPLEX, BASE MTD. PACKAGE

MODEL **1-SVE-1600-3.4**
PUMP MOD. **3BA1600-7AT16**
CAPACITY (EACH) **180** CFM @ **35"WC**
DRIVE TYPE **DIRECT**
OPERATING SPEED **3450** RPM
COMPLETE WITH **INLET MUFFLER**

**DISCHARGE MUFFLER, RELIEF VALVE**
**INLET FILTER W/WIRE MESH ELEMENT**
**AIR DILUTION VALVE W/SCREEN**
**SOUND ENCLOSURE**

### SEPARATOR / TANK

VOLUME GALL'S
STYLE
RATED VACUUM
FINISH

### MISCELLANEOUS:

**SUPPLIED LOOSE FOR FIELD INSTALLATION:**
**(1) SET OF FLEX CONNECTORS**

### MOTOR

MOTOR HORSEPOWER **3.4**
VOLTAGE **3-60-230/460**
RPM **3600**
ENCLOSURE **TEFC**

### CONTROL PANEL

STARTER PANEL - NEMA **4 (UL LISTED)**
MOUNTING **BASE**
STARTER TYPE **FULL VOLTAGE**
DISCONNECT **CIRCUIT BREAKER**
CONTROL **ON/OFF**

ACCESSORIES: **MOTOR RUN LIGHT**
**115V CONTROL CIRCUIT TRANSFORMER**

**ALARM LIGHTS FOR:**
**HIGH SEPARATOR LEVEL(BLOWER SHUTDOWN)**

**AUXILLIARY CONTACT FOR REMOTE ALARM PANEL**

RELIEF VALVE SET @ **5** ("HG)

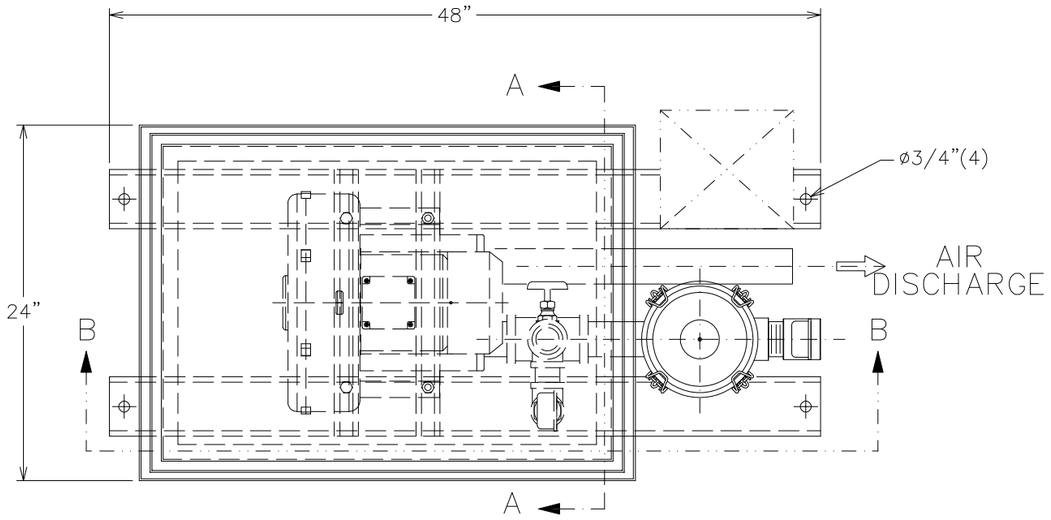
### REMOTE ALARM PANEL

NEMA **12**
MOUNTING **WALL**
VOLTAGE **1-60-115**
ALARM **RED LIGHT**

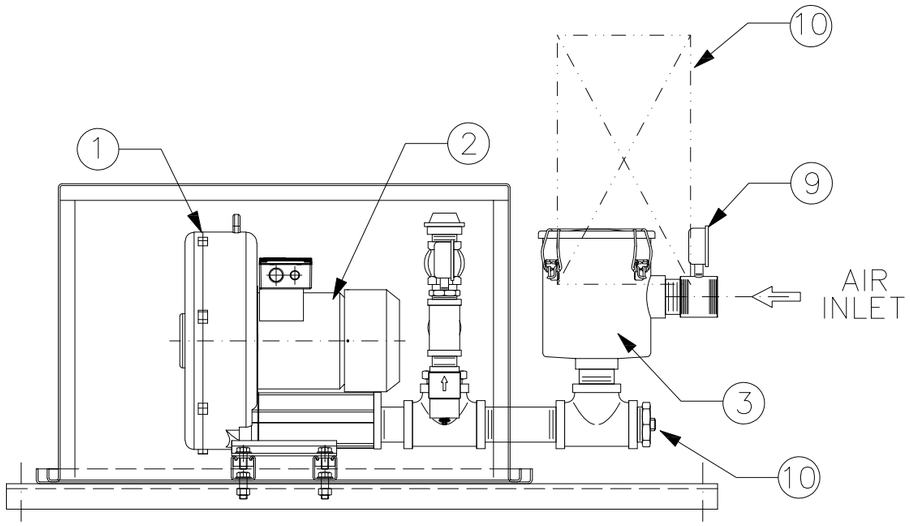
JOB NO. **XXXX** DATE **03/09/20** **SUBMITTED BY:** **K.V.** **SN-1**

VDA1239 1-SVE-1600-3.4.xls

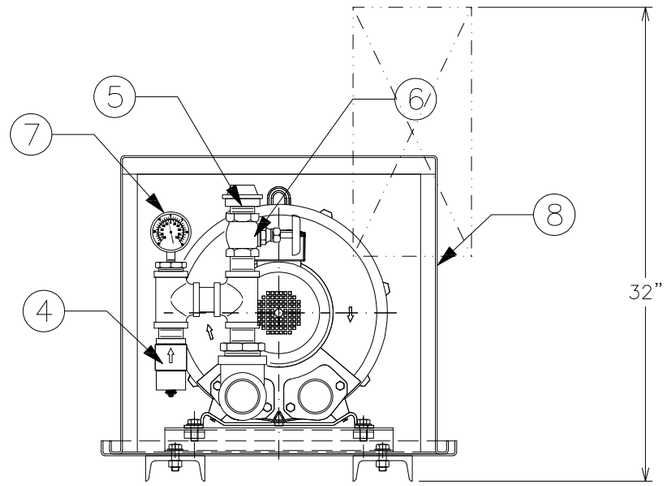
| PRODUCTION REVISIONS | | | | |
|---|---|---|---|---|
| REVISION | DESCRIPTION | DATE | ENG. | APPR. |
| | | | | |
| | | | | |




| ITEM | REQ'D | DESCRIPTION | SIZE | PART NO. |
|---|---|---|---|---|
| 1 | 1 | VACUUM BLOWER | 2" | 3BA1600-7AT26 |
| 2 | 1 | MOTOR | 4.6HP | TEFC |
| 3 | 1 | INLET FILTER (WIRE MESH) | 2" | ATF-200-15124 |
| 4 | 1 | RELIEF VALVE | 1-1/4" | VC51Z-6"Hg |
| 5 | 1 | INLET STAINER | 1-1/4" | |
| 6 | 1 | AIR BLEED VALVE | 1-1/4" | GLOBE |
| 7 | 1 | VACUUM GAUGE | 2-1/2" | 0-30" Hg |
| 8 | 1 | SOUND ENCLOSURE | | SD-4 |
| 9 | 1 | VACUUM GAUGE | 2-1/2" | 0-30" Hg |
| 10 | 1 | TEST PORT PLUG | 1/2" | |
| 11 | 1 | CONTROL PANEL | | |
| | | | | |
| A | 1 | AIR INLET | 2" | |
| B | 1 | AIR DISCHARGE | 2" | |




SECTION B-B




SECTION A-A

NOTE:
TYPICAL DIMENSIONS ONLY. NOT TO BE USED FOR CONSTRUCTION WITHOUT CONSULTING FACTORY.
SUBJECT TO CHANGE WITHOUT NOTICE.

CONFIDENTIAL

SURFACE FINISH ACC. TO ISO 1302

DIMENSIONS W/O TOLERANCES ACC. TO ISO 2768 - mH

| | DATE | ENG. |
|---|---|---|
| DRAWN | 3-9-2020 | K.V. |
| CHECKED | 3-9-2020 | A.N. |

A3

SCALE: NTS | WEIGHT: 300 LBS

MATERIAL: 1-VE-3BA1600-3.4

DESCRIPTION:

VACUUM BLOWER PACKAGE

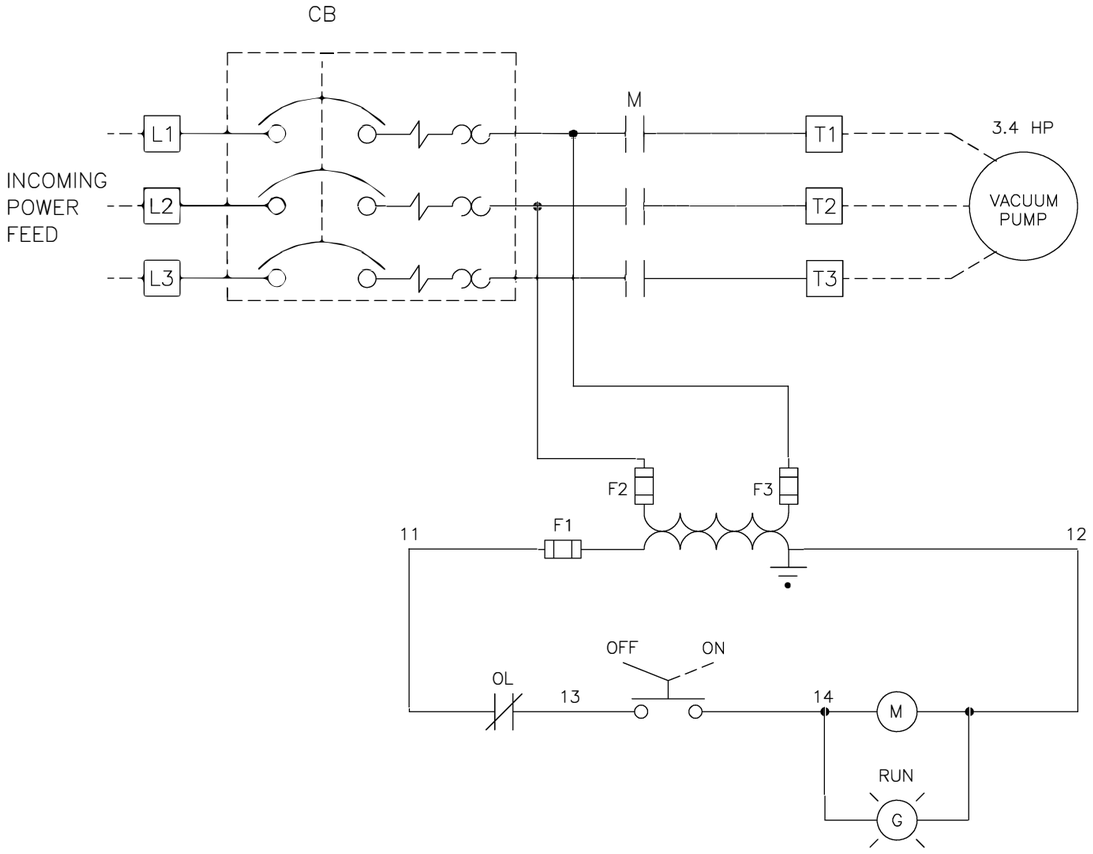
DRW-File: 1-VE-3BA1600-3_4 | SHEET: 1 | 1 SH.

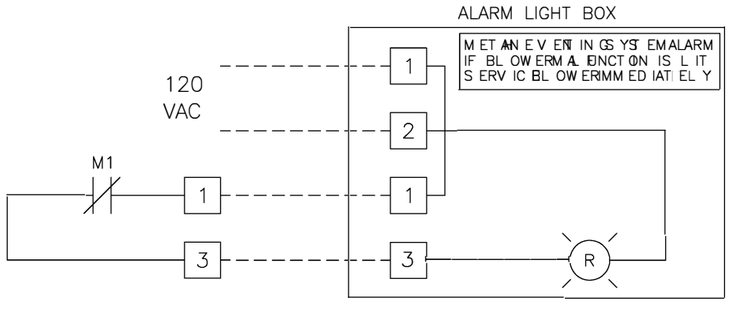
MODEL: | PRODUCT CODE:

| # | DESCRIPTION | DATE | ENG. | APPR. |
|---|---|---|---|---|
| 0 | DRAWING CREATED | 3-9-2020 | K.V. | A.N. |

AIRTECH VACUUM
AN ISO 9001:2015 CERTIFIED COMPANY

| REV. | DESCRIPTION | BY | DATE |
|---|---|---|---|
| | | | |




# BILL OF MATERIALS

CUSTOMER: AIRTECH DATE: 8/21/14

SERIAL NUMBER: _____ DRAWING: AIRTECH-148-non-exproof

PLC PROGRAM: N/A DESCRIPTION: SIMPLEX CP, 3.4 HP, 230/460/3/60

## MAIN PANEL

| ITEM | MANUFACTURER | PART NUMBER | LISTING |
|---|---|---|---|
| ENCLOSURE & BACKPLATE | HAMMOND | EJ14126 | UL |
| CIRCUIT BREAKER | EATON | XTPR010BC1 | UL |
| CKT BKR AUX CONTACT | EATON | XTPAXFA11 | UL |
| CKT BKR DOOR KIT | EATON | XTPAXRHMRY | UL |
| CPT | EATON | C0050E5EFB | UL |
| CONTACTORS M1 | EATON | XTCE012B10A | UL |
| CONTACTOR AUX CONTACT | EATON | XTCEXFAC11 | UL |
| 2 POS SEL SWITCH | EATON | M22-WKV + M22-K10 | UL |
| GREEN PILOT LIGHT | EATON | M22-L-G + M22-230LED-G | UL |
| FUSES F1 | LITTELFUSE | FLM6/10 | UL |
| FUSES F2,3 | LITTELFUSE | KLDR1/2 | UL |
| FIELD TERMINAL BLOCKS | ALTECH | CTS4U/N | UR |
| POWER TERMINAL BLOCKS | ALTECH | CTS10U | UR |
| WIREWAY | PANDUIT | G.75X2LG6 | UL |
| WIREWAY COVER | PANDUIT | C.75LG6 | UL |

## ALARM LIGHT BOX

| ITEM | MANUFACTURER | PART NUMBER | LISTING |
|---|---|---|---|
| ENCLOSURE & BACKPLATE | HAMMOND | EJ643 | UL |
| RED PILOT LIGHT | EATON | ZB4BVBG4+ZB4BV043 | UL |
| FIELD TERMINAL BLOCKS | ALTECH | CTS4U/N | UL |

EXAMPLE BOM ONLY

NOTES:
1) ALL FIELD WIRING USE COPPER WIRE ONLY, 60 DEG C WIRE INSULATION IF RATED LESS THAN 100 AMP, 75 DEG C WIRE INSULATION IF RATED 100 AMP OR MORE
2) 15 IN-LB RECOMMENDED TORQUE FOR FIELD CONNECTIONS

| | | | |
|---|---|---|---|
| JOB #XXXX | TITLE: AIRTECH INDUSTRIAL SIMPLEX ELECT SCHEM |  | OM&C |
| PRGM: N/A | | DRAWN BY: ETO | OLSON MOTOR & CONTROL CO |
| SHEET 1 OF 1 | DWG: 1-VE-3BA1600-3_4-3 | DATE: 8/21/2014 | 100 OLD CAMPLAIN RD HILLSBOROUGH, NJ 08844 |

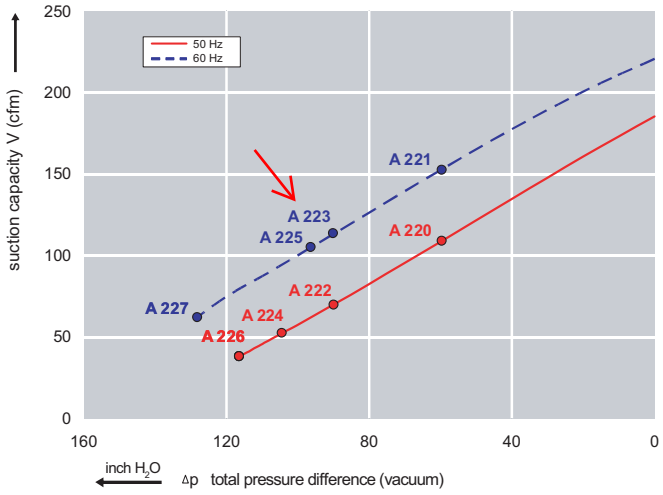
# 3BA1600

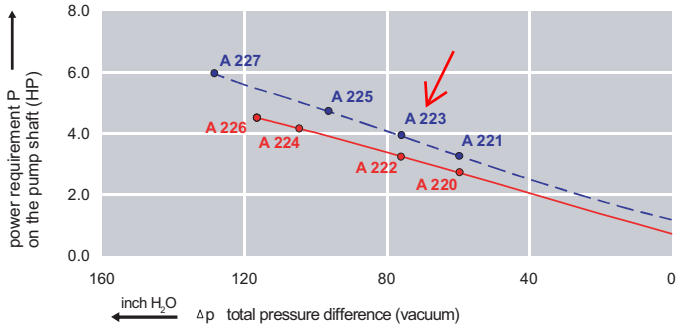
# Vacuum/Pressure Regenerative Blower

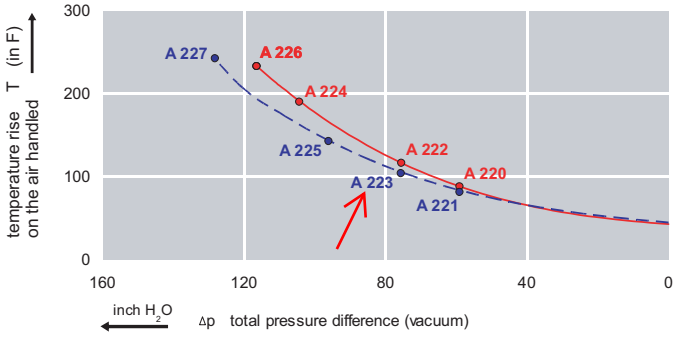
## Features:

- Cooler running, outboard bearing provides maintenance-free operation
- Environmentally friendly oil-free technology
- Extremely quiet operation
- All motors are standard TEFC with Class F insulation, UL recognized, CE Compliant
  *Explosion-Proof motors available*
- Custom construction blowers are available
- Rugged die cast aluminum construction

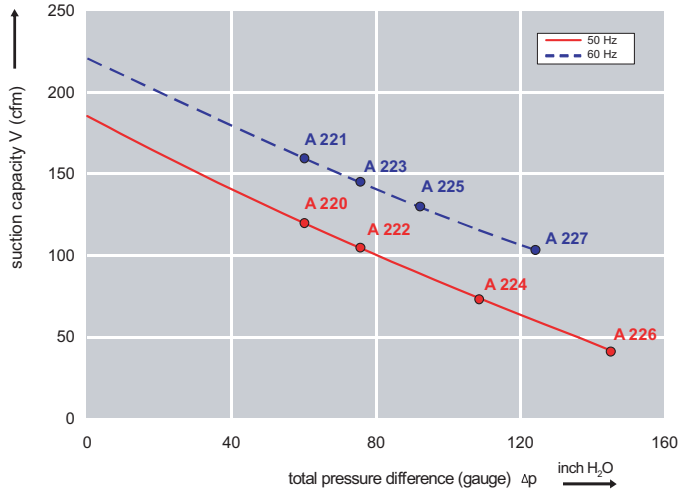
**Performance curve for Vacuum pump**

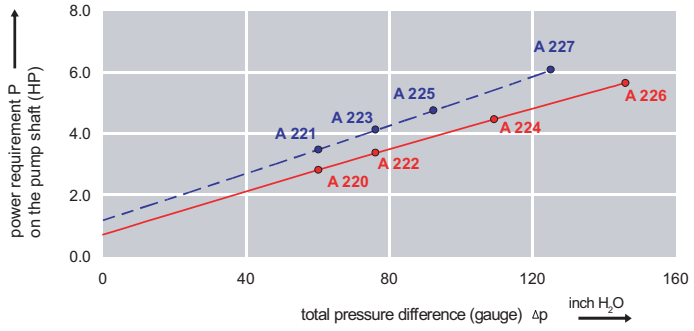


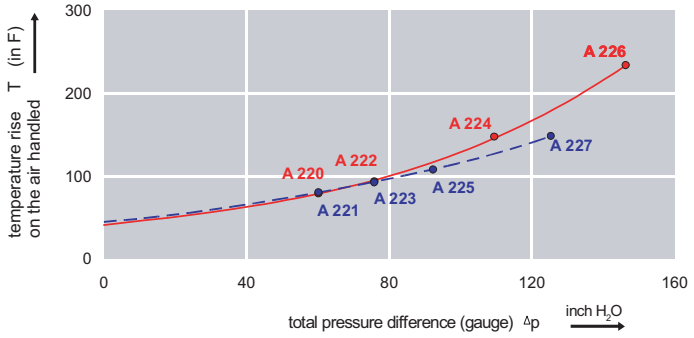




**Performance curve for Compressor**



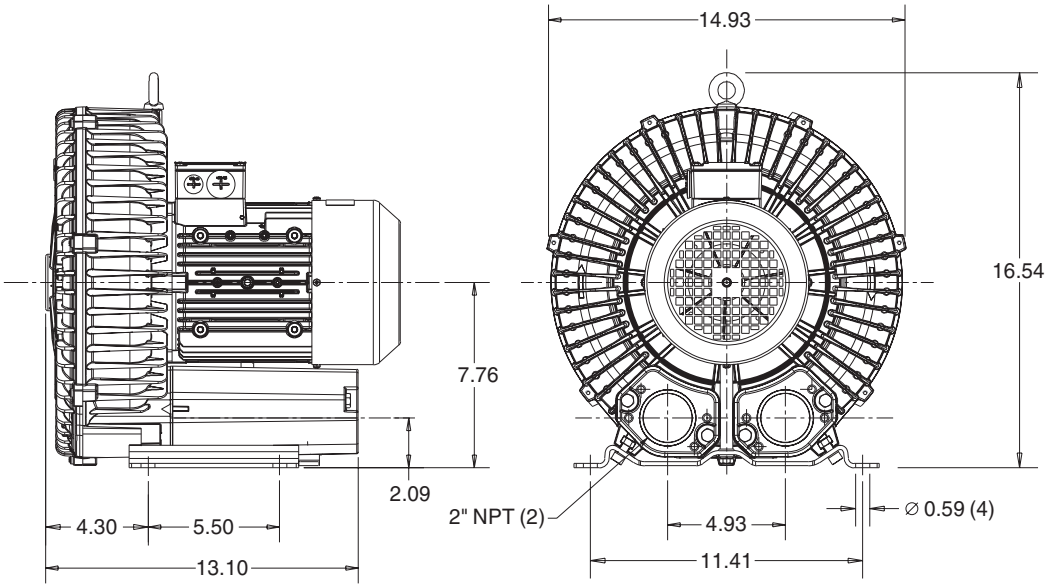



AIRTECH® VACUUM

# 3BA1600

# Vacuum/Pressure Regenerative Blower

## Dimensions: (inches)




## Recommended Accessories:

**Relief valve**:

VC81Z (Vacuum)

PC81Z (Pressure)

**Filter**:

ATF-200-15124/1 (Vacuum)

AFS-30-200-10 (Pressure)

Specifications subject to change without notice. Please contact factory for specification updates.

## Selection & Ordering Data - Type 3BA1600

| Curve No. | Order No. | Frequency Hz | Rated power HP | Input voltage V | | Input current A | | Permissible total differential pressure Vacuum inch H2O | Permissible total differential pressure Compressor inch H2O | Sound pressure level dB(A) | Weig lbs |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **3~ 50/60 Hz IP55 insulation material class F** | | | | | | | | | | | |
| A 220 | 3BA1600-7AT06 | 50 | 2.15 | 200D ... 240D | 345Y ... 415Y | 8.5D | 4.9Y | -64 | 60 | 69 | 57 |
| A 221 | 3BA1600-7AT06 | 60 | 2.7 | 220D ... 250D | 415Y ... 460Y | 7.5D | 4.4Y | -64 | 60 | 72 | 57 |
| A 222 | 3BA1600-7AT16 | 50 | 2.95 | 200D ... 240D | 345Y ... 415Y | 9.7D | 5.6Y | -85 | 70 | 70 | 64 |
| A 223 | 3BA1600-7AT16 | 60 | 3.42 | 220D ... 250D | 415Y ... 460Y | 10.3D | 6.0Y | -85 | 76 | 73 | 64 |
| A 224 | 3BA1600-7AT26 | 50 | 4.02 | 200D ... 240D | 345Y ... 415Y | 12.5D | 7.2Y | -104 | 108 | 70 | 75 |
| A 225 | 3BA1600-7AT26 | 60 | 4.62 | 220D ... 250D | 415Y ... 460Y | 12.6D | 7.3Y | -96 | 92 | 73 | 75 |
| A 226 | 3BA1600-7AT36 | 50 | 5.36 | 200D ... 240D | 345Y ... 415Y | 17.3D | 10.0Y | -116 | 145 | 70 | 93 |
| A 227 | 3BA1600-7AT36 | 60 | 6.16 | 220D ... 250D | 415Y ... 460Y | 18.0D | 10.4Y | -128 | 124 | 73 | 93 |

Suitable for 208 Volt Operation

All curves are rated at 14.7 psia and 68° F ambient conditions and are reported in SCFM referenced to 68° F and 14.696 psia sea level conditions. Curve values are nominal, actual performance may vary by up to 10% of the values indicated. For inlet temperatures above approximately 80 °F or for handling gases other than air, please contact your Airtech sales representative for assistance.

# APPENDIX B

# FOIA REQUESTS

## Tyler Goodnough

**From:** New York DEC FOIL Center <newyorkdec@govqa.us>
**Sent:** Wednesday, April 24, 2024 2:55 PM
**To:** Tyler Goodnough
**Subject:** [External] FOIL Request :: W130219-042424

Dear Tyler:

Thank you for your Freedom of Information Law (FOIL) request. Your request has been received and is being processed. Your request was received in this office on 4/24/2024 and given the reference number FOIL #W130219-042424 for tracking purposes. You may expect the Department's response to your request no later than **5/22/2024**.

Record Requested: **Langan is requesting any information or copies of files regarding well permits or water withdrawal permits for the property located at 35 Commercial Street in Brooklyn, NY (Brooklyn Borough Tax Block 2472, Lot 7504).**

You can monitor the progress of your request at the link below and you'll receive an email when your request has been completed. Again, thank you for using the FOIL Center.

Click here to login to the FOIL Center.

New York State Department of Environmental Conservation, Record Access Office

---

Track the issue status and respond at: https://newyorkdec.govqa.us/WEBAPP//_rs/RequestEdit.aspx?rid=130219

## Tyler Goodnough

**From:** New York DEC FOIL Center <newyorkdec@govqa.us>
**Sent:** Friday, May 3, 2024 3:37 PM
**To:** Tyler Goodnough
**Subject:** [External] Freedom of Information Law Request :: W130219-042424

--- Please respond above this line ---

Region 2 - Long Island City
P: (718) 482-4912 | F:
www.dec.ny.gov

RE: PUBLIC RECORDS REQUEST of 4/24/2024, Reference # W130219-042424

Date: 05/03/2024

Dear Staff Scientist Tyler Goodnough,

In response to your Freedom of Information Law (FOIL) request seeking:

> *Langan is requesting any information or copies of files regarding well permits or water withdrawal permits for the property located at 35 Commercial Street in Brooklyn, NY (Brooklyn Borough Tax Block 2472, Lot 7504).*

Please be advised that a diligent search of the files maintained by DEC produced no responsive records.

If you believe you have been unlawfully denied access to responsive records, you have the right to appeal. Any such appeal must be submitted in writing and within thirty (30) days of the date of this email. Appeals must be directed to:

FOIL Appeals Officer
Office of General Counsel
New York State Department of Environmental Conservation
625 Broadway, 14th Floor
Albany, NY 12233-1500

Your FOIL request is now closed. For further assistance, please call (718) 482-4912 and reference FOIL #W130219-042424, or simply reply to this email. Thank you.

Sincerely,

Region 2 FOIL Coordinator

## Tyler Goodnough

**From:** recordsaccess <recordsaccess@health.nyc.gov>
**Sent:** Thursday, May 9, 2024 11:30 AM
**To:** Tyler Goodnough
**Subject:** [External] FOIL Control #: 2024FR00682
**Attachments:** 35 Commercial Street, Brooklyn - nyc dohmh-foil-request-form_signed.pdf

**FOIL Control #:** 2024FR00682

Dear Tyle Goodnough

The NYC Department of Health and Mental Hygiene (DOHMH) acknowledges receipt of your Freedom of Information Law request. It has been assigned the above-noted control number and has been forwarded to the following bureau for processing:

Environmental Health Services
Sheba Taylor-Medina, e-mail: staylor2@health.nyc.gov

You should receive a response from the program/bureau within twenty(20) business days. Please note that as of January 1, 2019, the Department charges the statutorily allowable fee of 25¢ per page for FOIL responses of records maintained in hard copy format only. You will be advised by the program/bureau of the fee that is due and, upon receipt of your payment by check or money order, the copies will be forwarded to you.
All inquiries about the status of your request should be made with the program/bureau and control number noted above.

Thank you,

FOIL Administration
Office of the General Counsel
NYC Department of Health and Mental Hygiene - City of New York
42-09 28th St.,CN30, Long Island City, NY 11101
**Telephone**:347-396-6116 **Fax:**347-396-6087
**Email:** recordsaccess@health.nyc.gov | nyc.gov/health

---

**From:** Tyler Goodnough <tgoodnough@langan.com>
**Sent:** Wednesday, May 8, 2024 10:46 AM
**To:** recordsaccess <recordsaccess@health.nyc.gov>
**Subject:** [EXTERNAL] FOIL Request - 35 Commercial Street, Brooklyn

Hello,

Please see the attached FOIL request for well permits or water withdrawal permits for the property located at 35 Commercial Street in Brooklyn, NY (Brooklyn Borough Tax Block 2472, Lot 7504).

Thanks,

**Tyler Goodnough**
**Senior Staff Scientist**

**LANGAN**

Direct: 212.479.5499 x5712
Mobile: 917.922.1697
File Sharing Link

Phone: 212.479.5400 Fax: 212.479.5444
360 West 31st Street
8th Floor
New York, NY 10001-2727
www.langan.com

**NEW YORK NEW JERSEY CONNECTICUT MASSACHUSETTS PENNSYLVANIA VIRGINIA WASHINGTON, DC**
**OHIO ILLINOIS NORTH CAROLINA TENNESSEE FLORIDA TEXAS ARIZONA COLORADO UTAH WASHINGTON CALIFORNIA**
**ATHENS CALGARY DUBAI LONDON PANAMA**

# APPENDIX C

# SMD TESTING DOCUMENTATION

**Summary of Vacuum Monitoring Point (VMP)**
**Differential Pressure Results - Since SMD Startup**

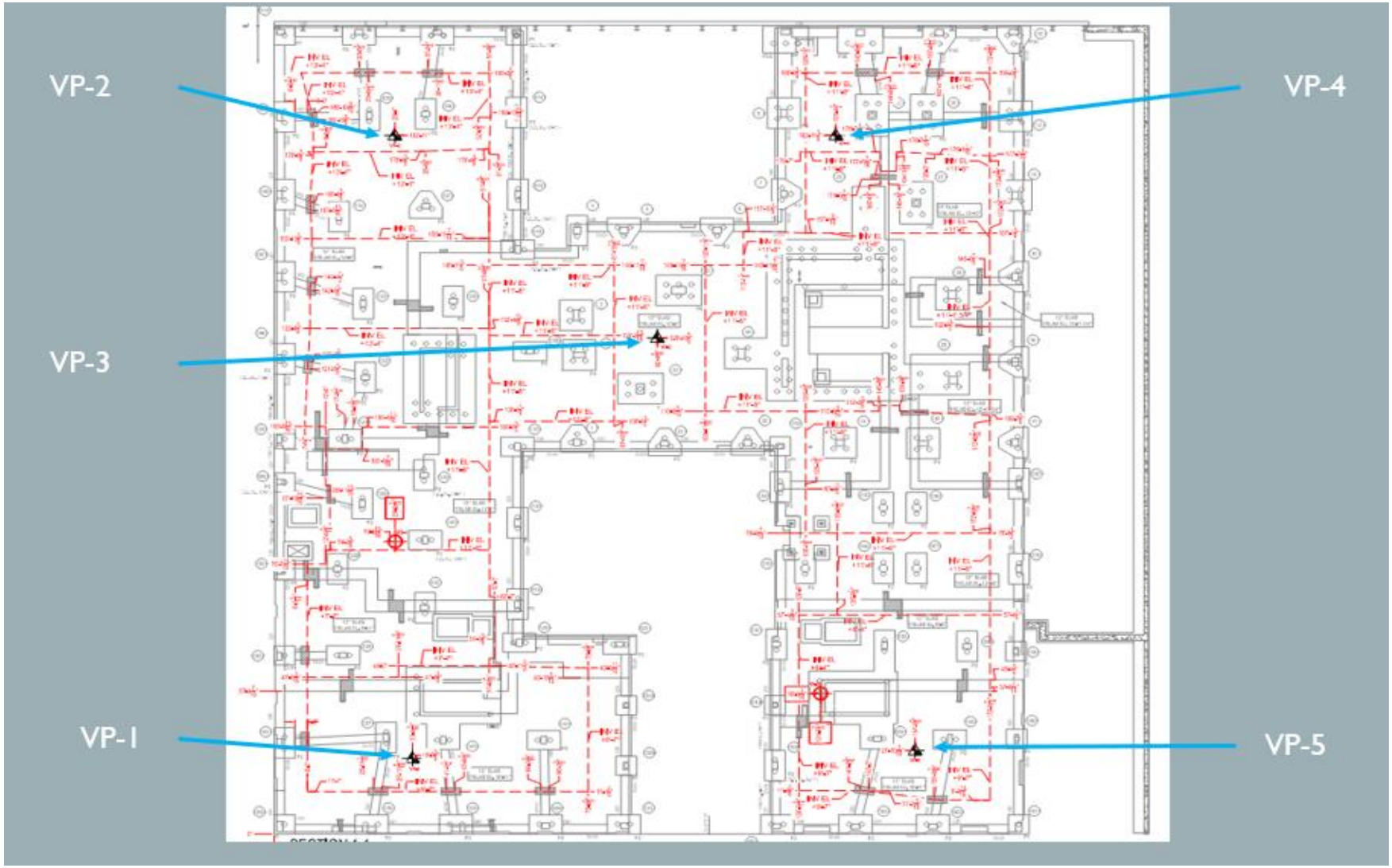
**45 Commercial Street**
**Brooklyn, New York**
**NYSDEC BCP Site No. C224304**
**Langan Project No.: 170229024**

| Date | VMP Identification | Differential Pressure (inWC) | |
|---|---|---|---|
| 6/30/202 | VP-1 | Not accessible | |
| | VP-2 | 0.000 | |
| | VP-3 | -0.08 | |
| | VP-4 | Not accessible | |
| | VP-5 | Not accessible | |
| 8/17/2023 | VP-1 | -0.05 to -053 | |
| | VP-2 | -0.005 to 0.023 (fluctuating - mostly positive) | |
| | VP-3 | -0.019 to 0.076 | |
| | VP-4 | -0.017 to 0.032 (fluctuating - mostly positive) | |
| | VP-5 | -0.034 to -0.053 | |
| 12/12/2023 | VP-1 | 0.079 to 0.092 | |
| | VP-2 | 0.072 to 0.103 | |
| | VP-3 | 0.092 to 0.096 | |
| | VP-4 | 0.007 to 0.022 | |
| | VP-5 | 0.033 to 0.037 | |
| 2/25/2024 | VP-1 | 0.155 to 0.172 (doors closed), -0.048 to -0.052 (doors to exterior open), -0.017 to -0.021 (doors to exterior and hallway open) | |
| | VP-2 | 0.228 to 0.252 | |
| | VP-3 | 0.151 to 0.168 (doors closed), -0.033 to -0.042 (door to exerior open), 0.001 to -0.003 (door to exterior and hallway open) | |
| | VP-4 | 0.019 to 0.028 (doors closed), -0.001 to -0.008 (door to exterior open), 0.009 (door to exterior and hallway open) | |
| | VP-5 | 0.118 to 0.145 (doors closed), -0.053 to -0.067 (doors to exterior open) | |
| | | | **Second Round Readings - Differential Pressure (inWC)** |
| 4/2/2024 | VP-1 | -0.007 to 0.029 (doors closed), -0.059 to -0.073 (doors to exterior open), -0.071 to -0.081 (doors to exterior and hallway open) | 0.031 to 0.049 (doors closed) |
| | VP-2 | 0.080 to 0.092 (doors closed), -0.010 to -0.022 (door to exterior open) | 0.080 to 0.105 (doors closed) |
| | VP-3 | -0.005 to -0.015 (doors closed), -0.033 to -0.037 (door to exerior open), -0.032 (door to exterior and hallway open) | 0.035 to 0.069 (doors closed) |
| | VP-4 | 0.001 to 0.007 (doors closed), -0.005 to -0.007 (door to exterior open), -0.002 to 0.001 (door to exterior and hallway open) | 0.031 to 0.045 (doors closed) |
| | VP-5 | -0.136 (doors closed), -0.140 to -0.145 (doors to exterior open) | -0.0132 to -0.0145 (doors closed) |
| 5/1 to 5/2/2024 | See attached 5/1 to 5/2 testing results | | |
| 5/16/2024 | VP-1 | -0.023 (5-minute average, doors closed) | |
| | VP-2 | -0.001 (5-minute average, doors closed) | |
| | VP-3 | -0.009 (5-minute average, doors closed) | |
| | VP-4 | 0.001 (5 minute average, doors closed) | |
| | VP-5 | -0.120 (5-minute average, doors closed) | |

Notes:
inWC = inches of water column
Design Criteria = -0.01 inWC

**5/1 to 5/2 - VMP and Barometric Pressure Monitoring Event**
**VMP Location Plan**

**45 Commercial Street**
**Brooklyn, New York**
**NYSDEC BCP Site No. C224304**
**Langan Project No.: 170229024**



**5/1 to 5/2 - VMP and Barometric Pressure Monitoring Event**
**VMP Differential Pressure Readings and Averages**

**45 Commercial Street**
**Brooklyn, New York**
**NYSDEC BCP Site No. C224304**
**Langan Project No.: 170229024**

| | | | differential pressure, inH2O | | | | |
|---|---|---|---|---|---|---|---|
| Date | Time | | VP-1 | VP-2 | VP-3 | VP-4 | VP-5 |
| 5/1/2024 | | 12:21 | -0.018 | -0.022 | -0.024 | -0.005 | -0.123 |
| 5/1/2024 | | 12:51 | -0.017 | -0.013 | -0.02 | -0.005 | -0.124 |
| 5/1/2024 | | 13:21 | -0.022 | -0.015 | -0.025 | -0.004 | -0.127 |
| 5/1/2024 | | 13:51 | -0.024 | -0.016 | -0.031 | -0.006 | -0.127 |
| 5/1/2024 | | 14:21 | -0.029 | -0.026 | -0.022 | -0.009 | -0.132 |
| 5/1/2024 | | 14:51 | -0.023 | -0.001 | -0.002 | -0.007 | -0.130 |
| 5/1/2024 | | 15:21 | -0.027 | -0.034 | -0.037 | -0.01 | -0.127 |
| 5/1/2024 | | 15:51 | -0.019 | -0.029 | -0.026 | -0.006 | -0.12 |
| 5/1/2024 | | 16:21 | -0.032 | -0.019 | -0.026 | -0.011 | -0.111 |
| 5/1/2024 | | 16:51 | -0.021 | 0.02 | -0.048 | -0.003 | -0.116 |
| 5/1/2024 | | 17:21 | -0.021 | 0.018 | - | - | -0.098 |
| 5/1/2024 | | 17:51 | -0.016 | 0.022 | 0 | 0.007 | -0.089 |
| 5/1/2024 | | 18:21 | | - | - | - | - |
| 5/1/2024 | | 18:51 | - | - | - | - | - |
| 5/1/2024 | | 19:21 | - | - | - | - | - |
| 5/1/2024 | | 19:51 | - | - | - | - | - |
| 5/1/2024 | | 20:21 | - | - | - | - | - |
| 5/1/2024 | | 20:51 | - | - | - | - | - |
| 5/1/2024 | | 21:21 | - | - | - | - | - |
| 5/1/2024 | | 21:51 | - | - | - | - | - |
| 5/1/2024 | | 22:21 | - | - | - | - | - |
| 5/1/2024 | | 22:51 | - | - | - | - | - |
| 5/1/2024 | | 23:21 | - | - | - | - | - |
| 5/1/2024 | | 23:51 | - | - | - | - | - |
| 5/2/2024 | | 0:21 | - | - | - | - | - |
| 5/2/2024 | | 0:51 | - | - | - | - | - |
| 5/2/2024 | | 1:21 | - | - | - | - | - |
| 5/2/2024 | | 1:51 | - | - | - | - | - |
| 5/2/2024 | | 2:21 | - | - | - | - | - |
| 5/2/2024 | | 2:51 | - | - | - | - | - |
| 5/2/2024 | | 3:21 | - | - | - | - | - |
| 5/2/2024 | | 3:51 | - | - | - | - | - |
| 5/2/2024 | | 4:21 | - | - | - | - | - |
| 5/2/2024 | | 4:51 | - | - | - | - | - |
| 5/2/2024 | | 5:21 | - | - | - | - | - |
| 5/2/2024 | | 5:51 | - | - | - | - | - |
| 5/2/2024 | | 6:21 | - | - | - | - | - |
| 5/2/2024 | | 6:51 | - | - | - | - | - |

**5/1 to 5/2 - VMP and Barometric Pressure Monitoring Event**
**VMP Differential Pressure Readings and Averages**

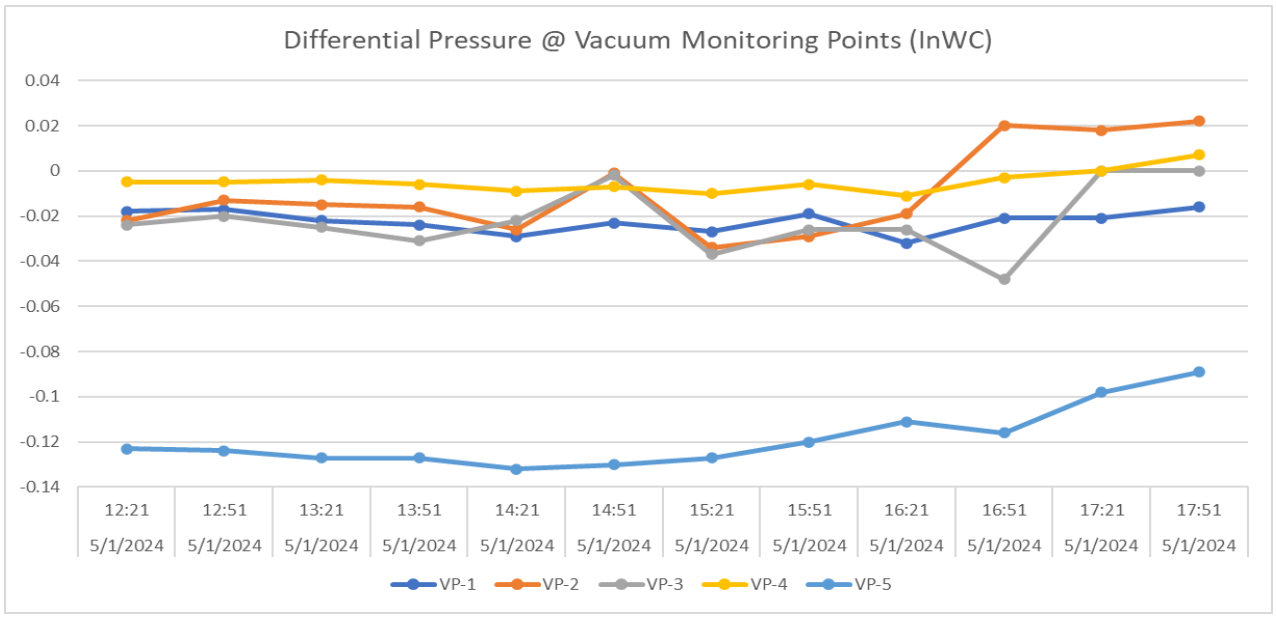
**45 Commercial Street**
**Brooklyn, New York**
**NYSDEC BCP Site No. C224304**
**Langan Project No.: 170229024**

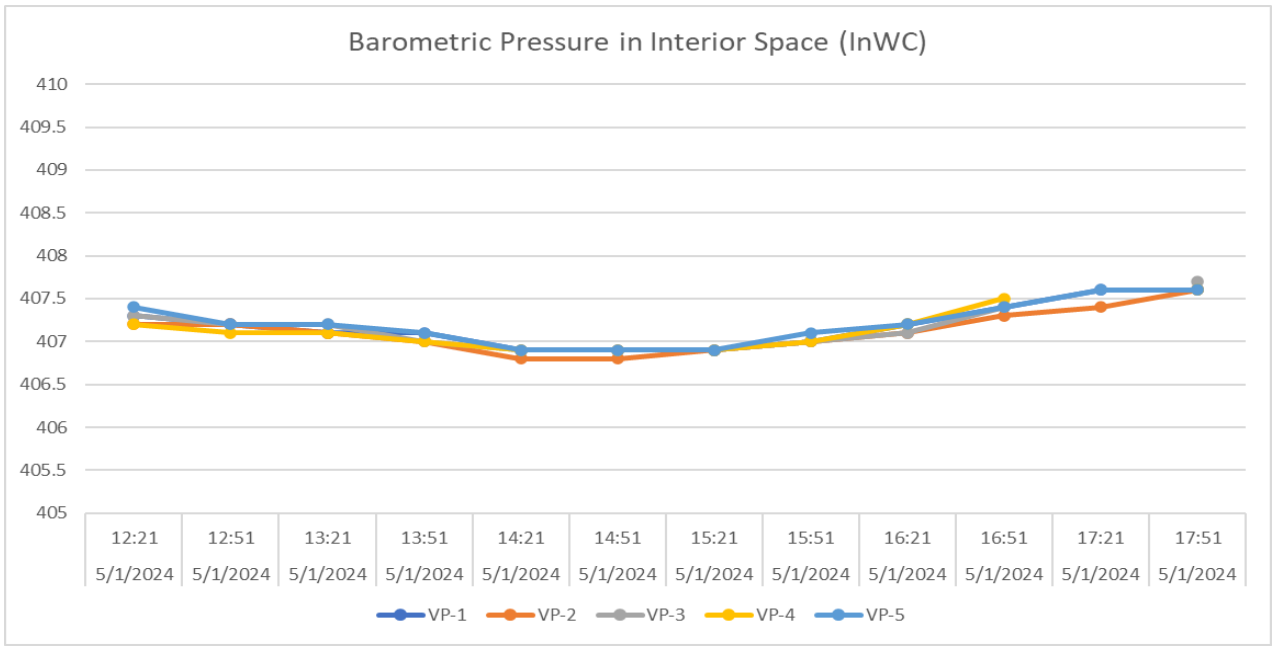
| Date | Time | VP-1 | VP-2 | VP-3 | VP-4 | VP-5 |
|---|---|---|---|---|---|---|
| 5/2/2024 | 7:21 | -0.001 | -0.011 | 0.005 | -0.002 | -0.074 |
| 5/2/2024 | 7:51 | 0.005 | 0.045 | 0 | 0 | -0.083 |
| 5/2/2024 | 8:21 | 0 | -0.002 | -0.004 | 0.002 | -0.093 |
| 5/2/2024 | 8:51 | -0.001 | -0.019 | 0.022 | 0.007 | -0.097 |
| 5/2/2024 | 9:21 | 0.004 | 0.038 | 0.021 | 0.03 | -0.12 |
| 5/2/2024 | 9:51 | 0.011 | -0.018 | 0.01 | -0.006 | -0.119 |
| 5/2/2024 | 10:21 | 0.002 | -0.019 | 0.018 | 0.012 | -0.117 |
| 5/2/2024 | 10:51 | -0.011 | 0.007 | -0.011 | 0.013 | -0.118 |
| 5/2/2024 | 11:21 | -0.007 | 0.01 | -0.001 | 0.008 | -0.082 |
| 5/2/2024 | 11:51 | -0.011 | -0.022 | -0.014 | -0.002 | -0.114 |
| 5/2/2024 | 12:21 | -0.01 | -0.015 | -0.01 | -0.003 | -0.107 |
| 5/2/2024 | 12:51 | -0.018 | -0.025 | -0.02 | -0.004 | -0.114 |
| 5/2/2024 | 13:21 | -0.017 | -0.024 | -0.021 | -0.003 | -0.101 |
| 5/2/2024 | 13:51 | -0.021 | -0.07 | -0.04 | -0.011 | -0.129 |
| 5/2/2024 | 14:21 | -0.022 | -0.032 | -0.024 | -0.006 | -0.112 |
| 5/2/2024 | 14:51 | -0.021 | -0.014 | -0.026 | -0.005 | -0.103 |
| 5/2/2024 | 15:21 | -0.022 | -0.011 | -0.028 | -0.004 | -0.12 |
| 5/2/2024 | 15:51 | -0.017 | -0.023 | -0.03 | 0.005 | -0.114 |
| 5/2/2024 | 16:21 | -0.014 | -0.027 | -0.003 | 0.006 | -0.118 |
| 5/2/2024 | 16:51 | -0.024 | 0.002 | -0.012 | -0.001 | -0.112 |
| 5/2/2024 | 17:21 | -0.025 | 0.002 | -0.005 | -0.001 | -0.092 |
| 5/2/2024 | 17:51 | -0.019 | -0.024 | -0.028 | -0.003 | -0.096 |
| 5/2/2024 | 18:21 | -0.024 | -0.025 | -0.03 | -0.001 | -0.097 |

| | VP-1 | VP-2 | VP-3 | VP-4 | VP-5 |
|---|---|---|---|---|---|
| Number of VMP Readings (5/1/24, 12:21 to 17:51) | 12 | 12 | 11 | 11 | 12 |
| Average Differential Pressure (5/1/24, 12:21 to 17:51) | -0.022 | -0.010 | -0.024 | -0.005 | -0.119 |
| Number of Negative Differential Readings | 12 | 9 | 10 | 10 | 12 |
| Number of Positive Differential Readings | 0 | 3 | 0 | 1 | 0 |
| Frequency of Negative Differential Readings | 100% | 75% | 91% | 91% | 100% |
| | | | | | |
| Number of VMP Readings (5/2/24, 7:21 to 18:51) | 23 | 23 | 23 | 23 | 23 |
| Average Differential Pressure (5/2/24, 7:21 to 18:51) | -0.011 | -0.012 | -0.010 | 0.001 | -0.106 |
| Number of Negative Differential Readings | 18 | 17 | 17 | 14 | 23 |
| Number of Positive Differential Readings | 4 | 6 | 5 | 8 | 0 |
| Frequency of Negative Differential Readings | 78% | 74% | 74% | 61% | 100% |

**5/1 to 5/2 - VMP and Barometric Pressure Monitoring Event**
**VMP Differential Pressure and Indoor Barometric Pressure Readings - May 1st**

**45 Commercial Street**
**Brooklyn, New York**
**NYSDEC BCP Site No. C224304**
**Langan Project No.: 170229024**

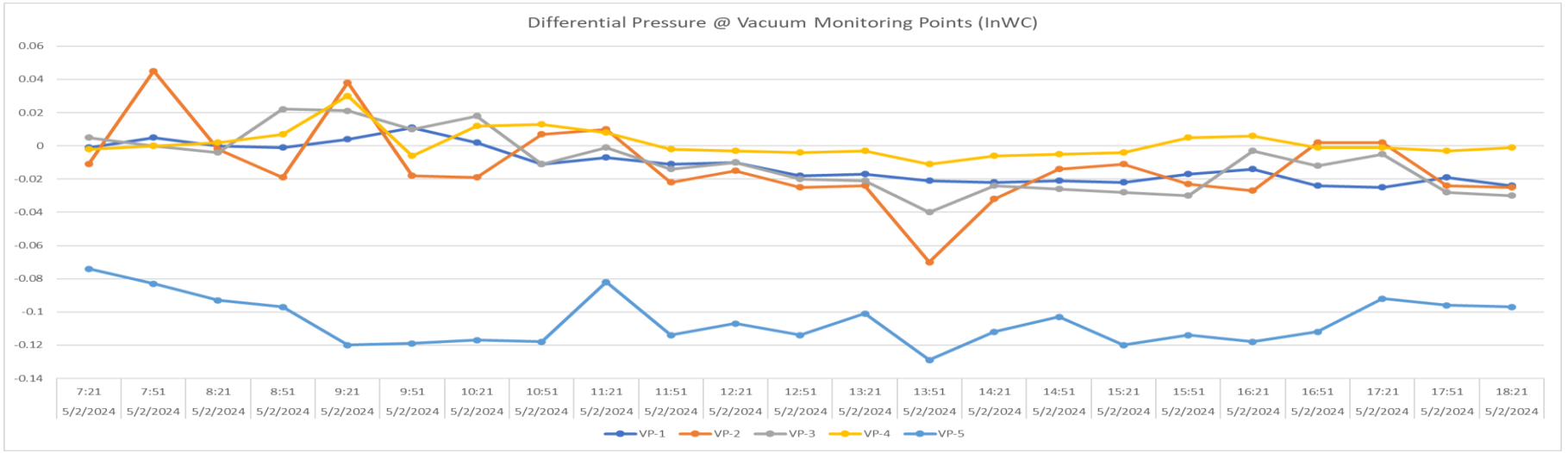


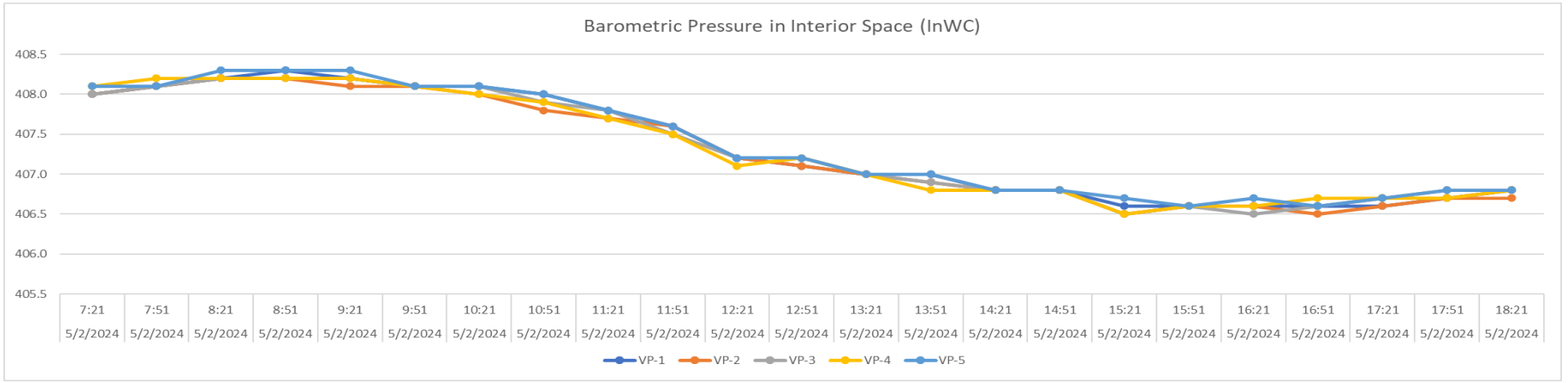




Notes:
Readings were collected manually using a VelociCalc 9565 every 30 minutes
VMP = Vacuum Monitoring Point
InWC = Inches of Water Column

**5/1 to 5/2 - VMP and Barometric Pressure Monitoring Event**
**VMP Differential Pressure and Indoor Barometric Pressure Readings - May 2nd**

**45 Commercial Street**
**Brooklyn, New York**
**NYSDEC BCP Site No. C224304**
**Langan Project No.: 170229024**

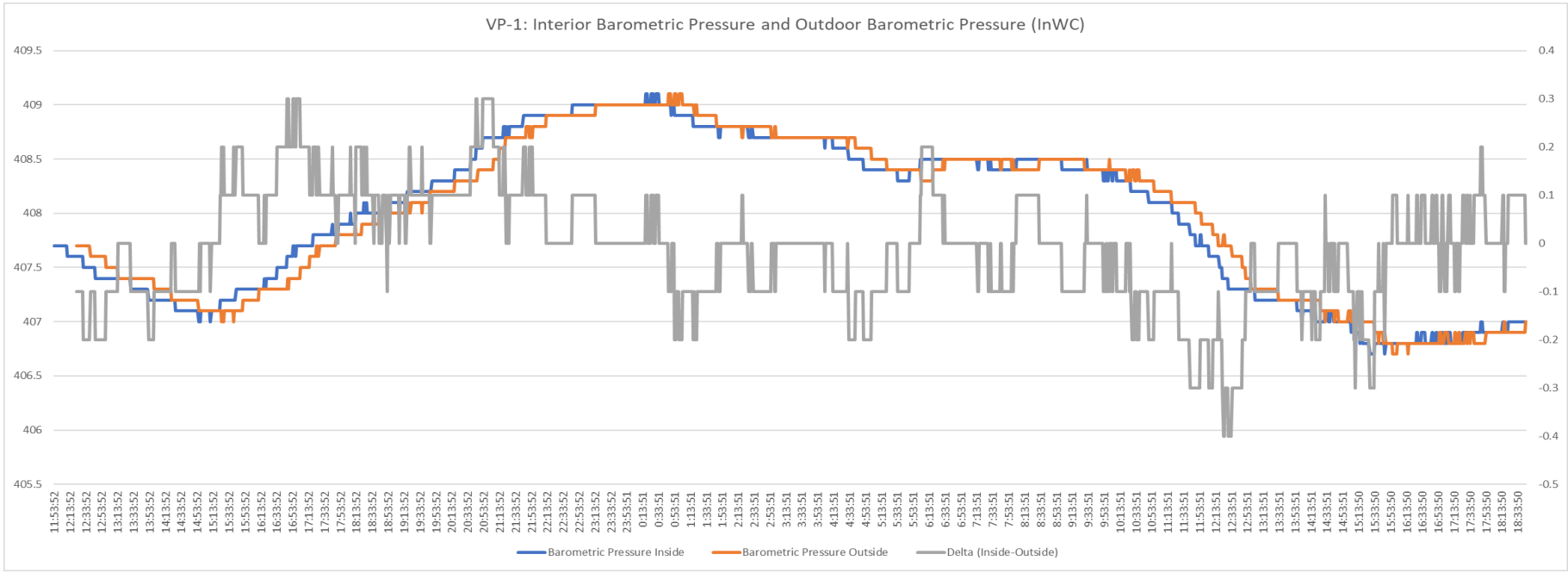



Notes:
Readings were collected manually using a VelociCalc 9565 every 30 minutes
VMP = Vacuum Monitoring Point
InWC = Inches of Water Column

**5/1 to 5/2 - VMP and Barometric Pressure Monitoring Event**
**VP-1 - Indoor vs. Outdoor Barometric Pressure Chart**

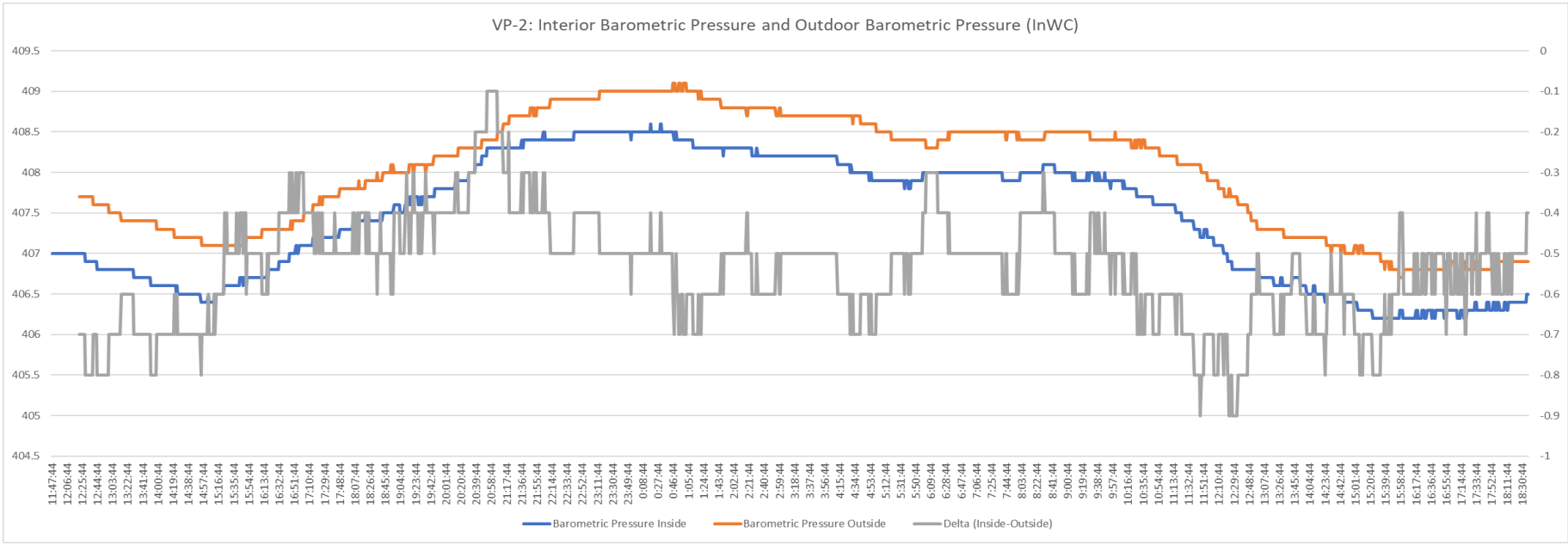
**45 Commercial Street**
**Brooklyn, New York**
**NYSDEC BCP Site No. C224304**
**Langan Project No.: 170229024**




Notes:
Readings were collected automatically using a VelociCalc 9565 every 1 minute
InWC = Inches of Water Column

**5/1 to 5/2 - VMP and Barometric Pressure Monitoring Event**
**VP-2 - Indoor vs. Outdoor Barometric Pressure Chart**

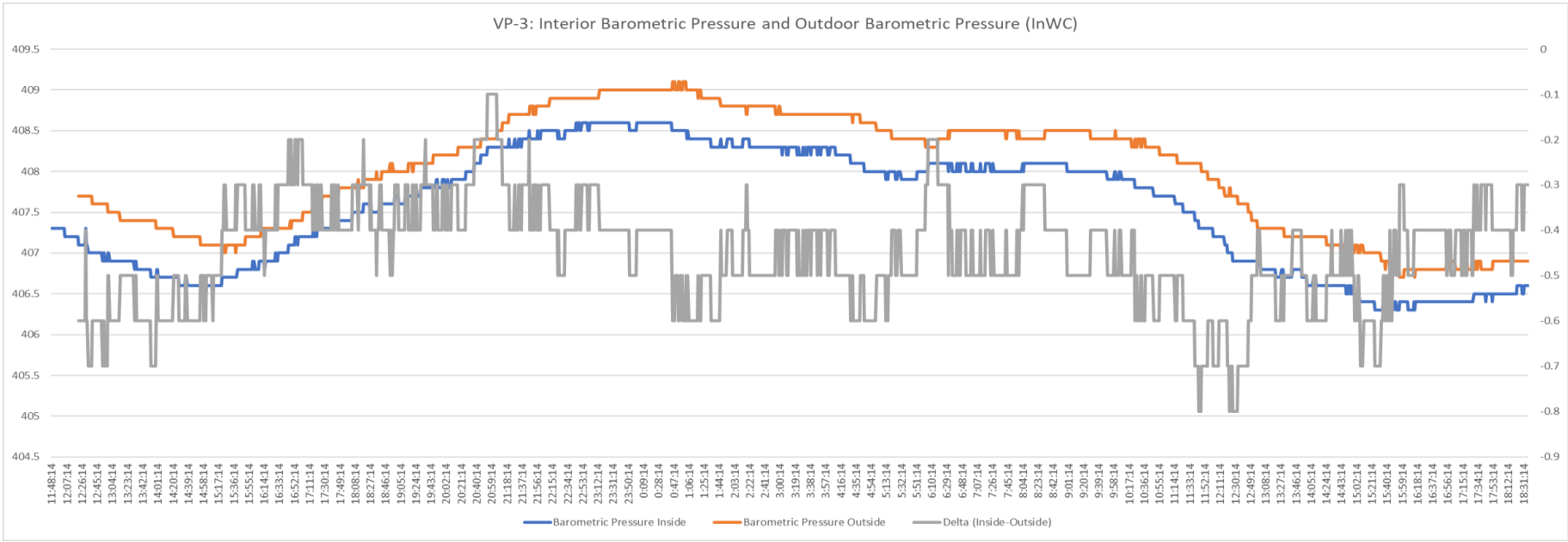
**45 Commercial Street**
**Brooklyn, New York**
**NYSDEC BCP Site No. C224304**
**Langan Project No.: 170229024**




Notes:
Readings were collected automatically using a VelociCalc 9565 every 1 minute
InWC = Inches of Water Column

**5/1 to 5/2 - VMP and Barometric Pressure Monitoring Event**
**VP-3 - Indoor vs. Outdoor Barometric Pressure Chart**

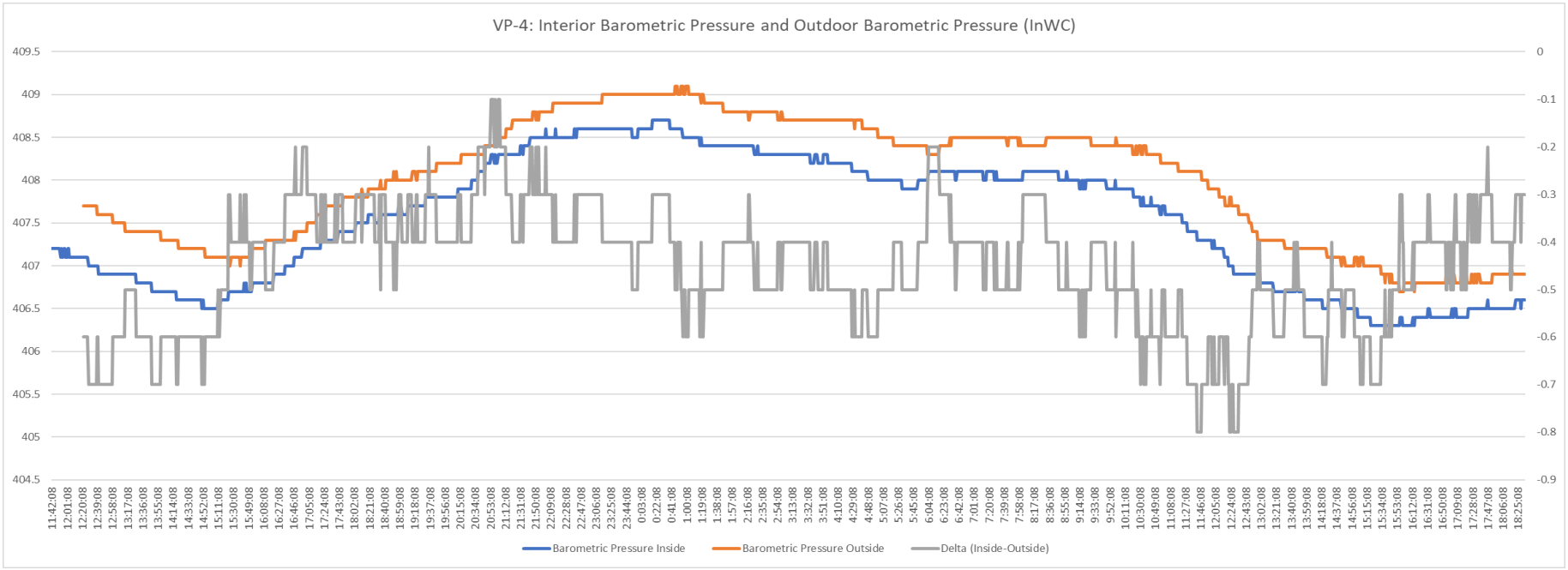
**45 Commercial Street**
**Brooklyn, New York**
**NYSDEC BCP Site No. C224304**
**Langan Project No.: 170229024**




Notes:
Readings were collected automatically using a VelociCalc 9565 every 1 minute
InWC = Inches of Water Column

**5/1 to 5/2 - VMP and Barometric Pressure Monitoring Event**
**VP-4 - Indoor vs. Outdoor Barometric Pressure Chart**

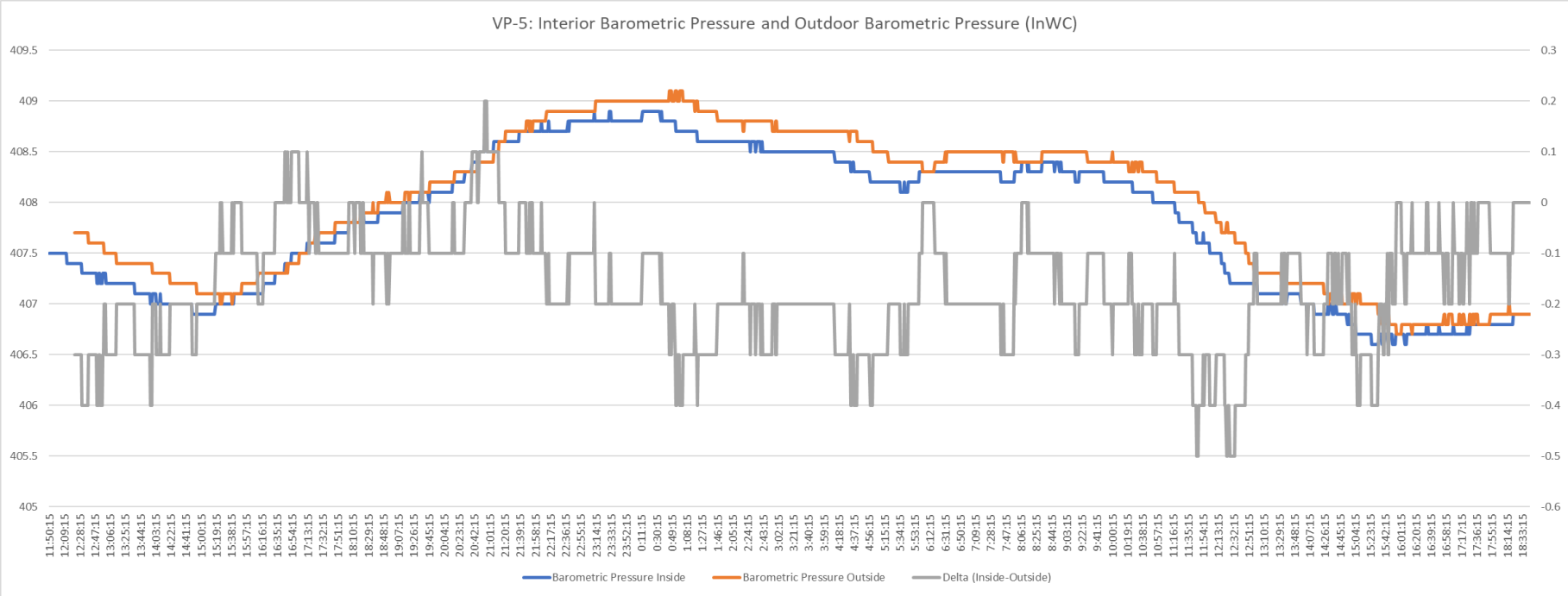
**45 Commercial Street**
**Brooklyn, New York**
**NYSDEC BCP Site No. C224304**
**Langan Project No.: 170229024**




Notes:
Readings were collected automatically using a VelociCalc 9565 every 1 minute
InWC = Inches of Water Column

**5/1 to 5/2 - VMP and Barometric Pressure Monitoring Event**
**VP-5 - Indoor vs. Outdoor Barometric Pressure Chart**

**45 Commercial Street**
**Brooklyn, New York**
**NYSDEC BCP Site No. C224304**
**Langan Project No.: 170229024**




Notes:
Readings were collected automatically using a VelociCalc 9565 every 1 minute
InWC = Inches of Water Column

**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 Emily Rodriguez Date/Time Prepared 1/22/24

Preparer's Affiliation LANGAN Phone No._____

Purpose of Investigation SMD Air Monitoring

**1. OCCUPANT:**

**Interviewed: Y / (N)**

Last Name: _____ First Name: _____

Address: _____

County: _____

Home Phone: _____ Office Phone: _____

Number of Occupants/persons at this location _____ Age of Occupants _____

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

**Interviewed: (Y) / N**

Last Name: Meier First Name: Dave

Address: 45 Commercial Street

County: Kings

Home Phone: _____ Office Phone: 516.233.4641

**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?** 374

**If the property is commercial, type?**

Business Type(s) vacant

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

**Other characteristics:**

Number of floors 22 +Roof Building age <1 year

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

Airflow near source

NA

Outdoor air infiltration

NA

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:**~~ NA | full | crawlspace | slab | other _____ |
| **c.** ~~**Basement floor:**~~ NA | concrete | dirt | stone | other _____ |
| **d.** ~~**Basement floor:**~~ NA | uncovered | covered | covered with _____ | |
| **e. Concrete floor:** | (unsealed) Commercial space | (sealed) Residential space | sealed with Self leveling sealant | |
| **f. Foundation walls:** | (poured) | block | stone | other _____ |
| **g. Foundation walls:** | unsealed | (sealed) | sealed with Self leveling sealant | |
| **h.** ~~**The basement is:**~~ NA | wet | damp | dry | moldy |
| **i.** ~~**The basement is:**~~ NA | finished | unfinished | partially finished | |
| **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)**

Public bathroom floor drains

_____

**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 VRF) |

**The primary type of fuel used is**:

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

**Domestic hot water tank fueled by:** Natural Gas

| | | | | |
|---|---|---|---|---|
| **Boiler/furnace located in:** | Basement | Outdoors | Main Floor | (Other Roof) |
| **Air conditioning:** | Central Air | Window units | Open Windows | None (Other: VRF) |

**Are there air distribution ducts present?** (Y) / N Present in residential spaces. Public spaces have forced air.

**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.**

_____

_____

_____

_____

## 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~~ | |
| 1st Floor | Workshop, cleaning storage, laundry room, residential units |
| 2nd Floor | Cleaning storage, residential units |
| 3rd Floor | Residential units |
| 4th Floor | Residential units |

## 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 Gasoline generator on 7th floor

**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? 1st floor, general maintenance

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

**h. Have cleaning products been used recently?** (Y) / N When & Type? 1st floor, general maintenance

**i. Have cosmetic products been used recently?** (Y) / N When & Type? 1st floor & 2nd floor, touch-ups

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

**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? Roof

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

**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: _____

**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? _____

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~~

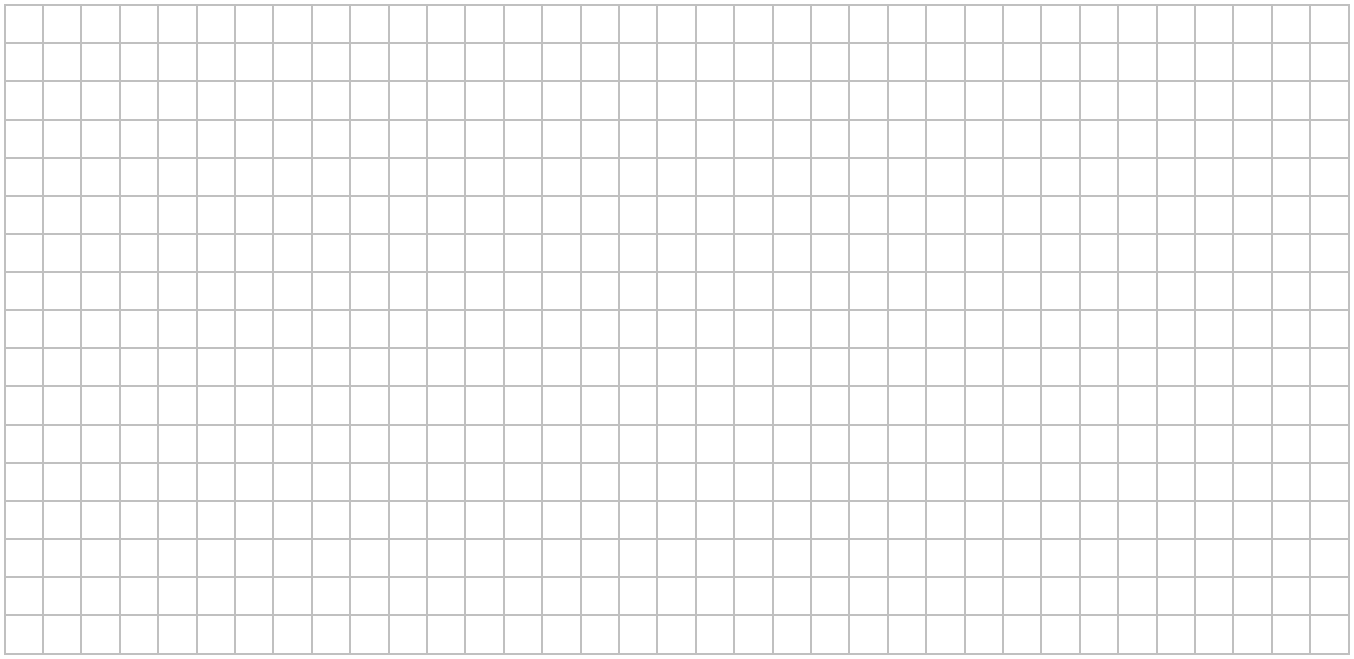
~~**c. Responsibility for costs associated with reimbursement explained?** Y / N~~

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

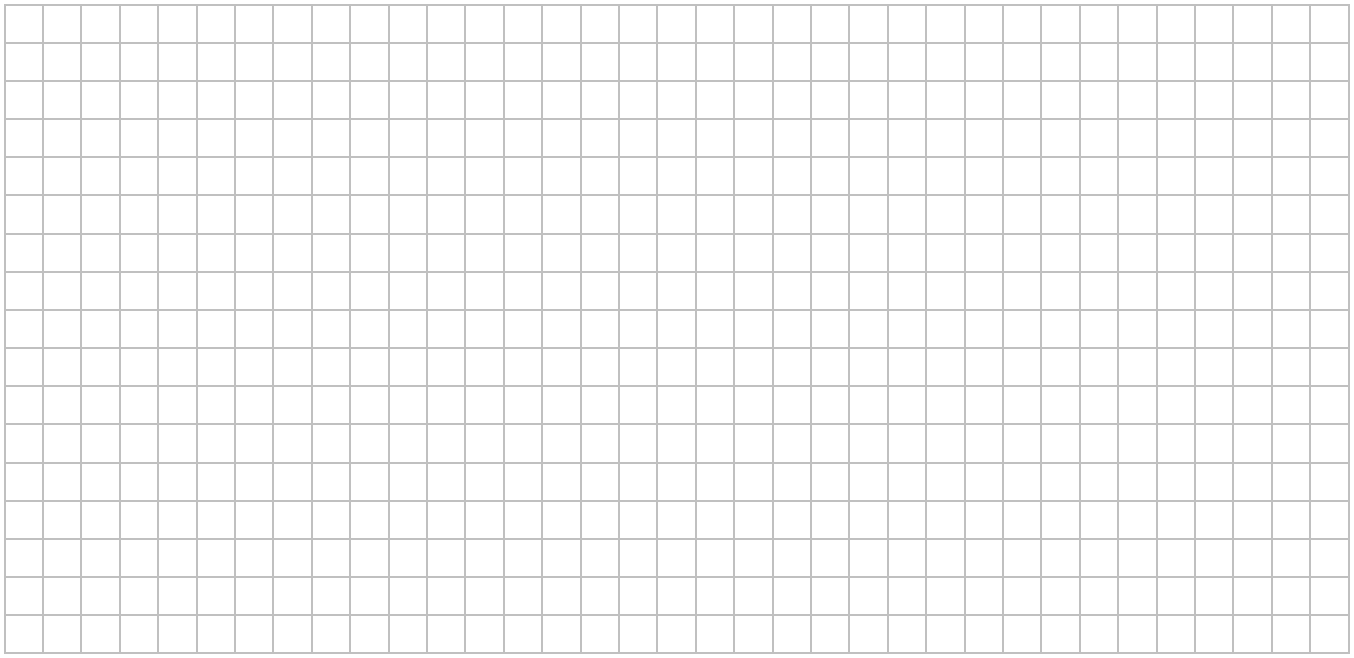
**11. FLOOR PLANS**

**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:**



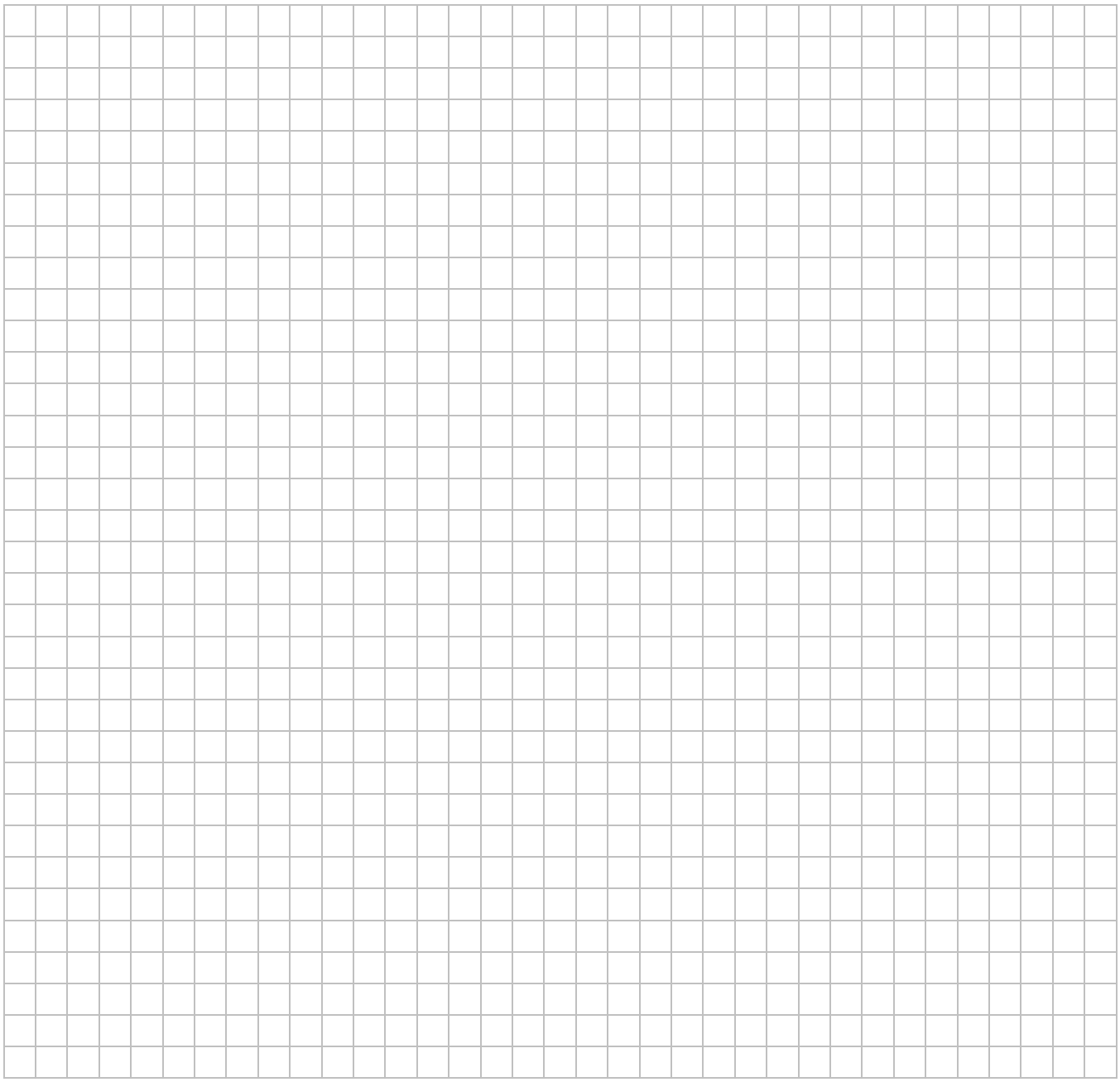
**First Floor:**



**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.**



**13. PRODUCT INVENTORY FORM**

**Make & Model of field instrument used: _____**

**List specific products found in the residence that have the potential to affect indoor air quality.**

| Location | Product Description | Size (units) | Condition* | Chemical Ingredients | Field Instrument Reading (units) | Photo ** Y / N |
|---|---|---|---|---|---|---|
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* Describe the condition of the product containers as **Unopened (UO), Used (U),** or **Deteriorated (D)**
** Photographs of the **front and back** of product containers can replace the handwritten list of chemical ingredients. However, the photographs must be of good quality and ingredient labels must be legible.

**Indoor Air Quality Investigation**
**Pre-Inspection Product Inventory**

**Site Name:** **45 Commercial Street** **Langan Project No.:170229024**

**Site Location:** **Brooklyn, New York** **Date: 1/22/24 - 1/23/24**

Make and model of field instrument used: Mini RAE 2000

| Location | Product Description | Size (units) | Condition* | Chemical Ingredients/Cas number | Field Instrument Reading (ppm) | Photo Y/N |
|---|---|---|---|---|---|---|
| SV01/IA01 Retail space | OSI Quad Foam x1 | 16 oz | New/ unused | Limestone, phthalic acid, alkylester, benzene, trimethoxyvinylsilane,quartz | 0.0 | Y |
| | Flex Glue x1 | 6 fl oz | New/ unused | No available data | 0.0 | Y |
| | Windex x1 | 23 fl oz | Open/ good | No available data | 0.0 | Y |
| | SC Johnson Fantastik x1 | 32 fl oz | Open/ good | Diisopropanolamine, Alkyl dimethyl benzyl ammonium chloride | 0.0 | Y |
| | Weldwood Contact Cement (Original) x3 | 32 fl oz | New/ unused | Petroleum naptha, methyl ether ketone, toluene | 0.0 | Y |
| | Dust-Off - Compressed Gas Duster x2 | 12 oz | Open/ good | 1,1-difluoroethane | 0.0 | Y |
| | Rust-O-Leum Inverted Marking Paint x1 | 15 oz | Open/ good | liquefied petroleum gas, acetone, toluene, aliphatic hydrocarbon, xylene, titanium dioxide, N-butyl Acetate, aliphatic petroleum distillates, naptha, magnesium silicate, ethylbenzene, aluminum flake, pigment black 7, calcined aluminum silicate, pigment red 122, microcrystalline silica | 0.0 | Y |
| | Loctite PL400 - Subfloor Adhesive x10 | 10 fl oz | Open/ good | Acetone, methyl acetate, chystallin silica | 0.0 | Y |
| | PPG Speedhide x3 | 1 gal | Open/ good | Titanium dioxide, Kaolin, Silicic acid, aluminum sodium salt | 0.0 | Y |
| | Bondo Body Filler x1 | 1.75 lb | Open/ good | Talc, styrene monomer, titanium dioxide | 0.0 | Y |
| | Bondo Fiberglass Resin Liquid Hardener x1 | 1 qt | New/ unused | Dimethyl phthalate, methyl ethyl ketone peroxide, 2,2,4-trimethyl-1,3-pentanediol diisobutyrate, hydrogen peroxide, methyl ethyl ketone, water | 0.0 | Y |
| | PPG SealGrip Gripper 17-922X1 x9 | 1 gal | Open/ good | Titanium dioxide, limestone, talc, Kaolin, crystalline silica, respirable powder <10 microns | 0.0 | Y |
| | MH Ready Patch Spackling & Patching Compound x1 | 1 gal | Open/ good | Zinc sulfide, ethylbenzene, xylene, barium sulfate, dipropylene glycol methyl ether, solvent naptha petroleum | 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**

| Location | Product Description | Size (units) | Condition* | Chemical Ingredients/Cas number | Field Instrument Reading (ppm) | Photo Y/N |
|---|---|---|---|---|---|---|
| SV01/IA01 Retail space | PPG Aquapon WB EP x2 | 1 gal | Open/ good | Amides, 2-butoxyethanol, 2-(proyloxy)ethanol, toulene | 0.0 | Y |
| | PPG Breakthrough V50-90 x1 | 1 gal | Open/ good | 2-butoxyethanol, talc, carbon black, crystalline silica | 0.0 | Y |
| | Propane - Compressed gas x4 | 5-9 oz | New/ unused | propane | 0.0 | Y |
| | A-Gas R410A - Compressed gas x4 | 230 L | New/ unused | Difluoromethane, pentafluoroethane | 0.0 | Y |
| | Nitrogen - Compressed gas x3 | 300 L | New/ unused | Nitrogen | 0.0 | Y |
| | Acetylene Dissolved - Compressed gas x2 | 230 L | New/ unused | Acetylene, acetone | 0.0 | Y |
| | Hercules Clear PVS Primer - Low VOC x1 | 32 fl oz | Open/ good | Acetone, cyclohexane, methyl ether ketone, tetrahydrofuran | 0.0 | Y |
| | DP1010 Water Based Duct Sealant x1 | 1 gal | Open/ good | Calcium carbonate, talc, quartz, ethanolamine, triethanolamine, acetaldehyde, vinyl acetate, carbon black | 0.0 | Y |
| SV04/IA04 Laundry Room Closet | ZEP High-Traffic Carpet Spot Remover & Cleaner x11 | 1 qt | New/ unused | Glycol Ethers, butoxyethanol | 0.0 | Y |
| | all - Stainlifters OXI x2 | 36 fl oz | Open/ good | C12-C15 Alcohol Ethoxylate, Benzenesulfonic acid, C10-16-alkyl derivatives, sodium salts | 0.0 | Y |
| | Gain - Island Fresh Detergent x1 | 48 fl oz | Open/ good | Ethanol, ethanolamine, anionic surfactants | 0.0 | Y |
| | Suavitel - Fabric Conditioner x1 | 28.7 fl oz | Open/ good | Hydroquinone, formaldehyde | 0.0 | Y |
| | Snuggle - Fabric Conditioner x1 | 1.53 L | Open/ good | Quatemary ammonium, ethyl alcohol | 0.0 | Y |
| | Utlra Plus Downy - Fabric Conditioner x1 | 1.53 L | Open/ good | Ethanol | 0.0 | Y |
| | Ecover Zero - Non-Chlorine Bleach x1 | 1.83 L | Open/ good | hydrogen peroxide solution | 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**

| Location | Product Description | Size (units) | Condition* | Chemical Ingredients/Cas number | Field Instrument Reading (ppm) | Photo Y/N |
|---|---|---|---|---|---|---|
| SV04/IA04 Laundry Room Closet | Tide - Simply All-In-One Detergent x1 | 31 fl oz | Open/ good | Poly(oxy-1,2-ethanediyl),alpha-sulfo-omega-hydroxy-,C10-16-alkyl ethers, sodium salts, Ethanol, 2-amino-,2-hydroxy-1,2,3-propanetricarboxylate(1:?), propylene glycol, MEA-Dodecylbenzenesulfonate, ethanol, disodium tetraborate pentahydrate, Glycine, N,N-bis[2-[bis(carboxymethyl)amino]ethyl]-, sodium salt (1:5) | 0.0 | Y |
| | Oxi Clean Stain Remover x1 | 21.5 fl oz | Open/ good | Disodium carbonate, compound with hydrogen peroxide (2:3) {Sodium percarbonate; Sodium carbonate peroxyhydrate} | 0.0 | Y |
| | Seventh Generation - Fabric Softener x1 | 32 fl oz | Open/ good | dihydrogenated palmozylethyl hydroxyethylmonium methosulfate, propylene glycol, calcium chloride, sodium carbonate, benzisothiazolinone | 0.0 | Y |
| | DP1010 Water Based Duct Sealant x1 | 1 gal | Open/ good | Calcium carbonate, talc, quartz, ethanolamine, triethanolamine, acetaldehyde, vinyl acetate, carbon black | 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**

| Location | Product Description | Size (units) | Condition* | Chemical Ingredients/Cas number | Field Instrument Reading (ppm) | Photo Y/N |
|---|---|---|---|---|---|---|
| | ZEP - Industrial Purple Degreaser x10 | 1 gal | New/ unused | Surfactants, 2-butoxyethanol, sodium hydroxide, acetylaldehyde | 0.0 | Y |
| Janitor's Storage Closet | KILZ 3 Premium - Interior/Exterior Primer x2 | 1 gal | New/ unused | Titanium dioxide, limestone, diphenyl ketone | 0.0 | Y |
| | Wieman Stainless Steel Cleaner & Polish x7 | 12 fl oz | New/ unused | White mineral oil | 0.0 | Y |
| | ZEP - Industrial Purple Degreaser x2 | 1 gal | New/ unused | ethoxylated C9-C11 alcohols, Oxirane, methyl-, polymer with oxirane, mono(2-ethylhexyl) ether | 0.0 | Y |
| | OdoBan- 3-In-1 Carpet Cleaner x10 | 3.78 L | New/ unused | Sodium Iminodisuccinate, sodium lauroyl sarcosinate, 2-propenoik acid, homopolymer, sodium salt, isopropyl alcohol, polyvinylpyrrolidone, 1,2-benzisothiazoline-3-one | 0.0 | Y |
| | Simple Green - Industrial Cleaner & Degreaser x1 | 3.78 L | New/ unused | C9-11 alcohols ethoxylated, sodium citrate, sodium carbonate, tetrasodium glutamate diacetate, citric acid, methylchloroisothiazolinone | 0.0 | Y |
| | Victoria Bay - Pine Deodorant x2 | 3.78 L | New/ unused | Water, Tall Oil Fatty Acid, Pine Oil | 0.0 | Y |
| | Starco Chemical - Clear Ammonia x15 | 3.78 L | New/ unused | 2-propanol | 0.0 | Y |
| Building Maintenance Workshop | Aqua Mix - Professional Sealer's Choice - Gold x1 | 1 gal | Open/ good | Ethylene glycol monobutyl ether, fluoroalkylphosphate | 0.0 | Y |
| | Stargreen Chemicals - Floor Finish 2500 x3 | 5 gal | Open/ good | Acrylic copolymer mixture, ethylene copolymer | 0.0 | Y |
| | Zandur Innovative Flooring - #10 Acrylic Rubber Tile & Stair Tread Adhesive x1 | 4 gal | Open/ good | No available data | 0.0 | Y |
| | Oatey - All Purpose Cement x1 | 8 fl oz | Open/ good | Tetrahydrofuran, acetone, cyclohexane, PVC resin, Methyl ethyl ketone, CPVC Resin, Amorphous Silica | 0.0 | Y |
| | Oatey - Regular Clear PVC Cement x2 | 8 fl oz | Open/ good | Methyl ethyl ketone, cyclohexane, tetrahydrofuran, PVC resin, Acetone | 0.0 | Y |
| | Oatey - Purple Primer x1 | 8 fl oz | Open/ good | Acetone, cyclohexane, methyl ethyl ketone, tetrahydrofuran | 0.0 | Y |
| | Oxi Clean Foam-Tastic x1 | 19 oz | Open/ good | Isobutane, tetrasodium EDTA, N,N-dimethyl-N-oxide1-Dodecanamine, N-methyl-N-Glycine, sodium salt, butane, sodium hydroxide | 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**

| Location | Product Description | Size (units) | Condition* | Chemical Ingredients/Cas number | Field Instrument Reading (ppm) | Photo Y/N |
|---|---|---|---|---|---|---|
| Building Maintenance Workshop | Pro Dope - Pipe Joint Compound x1 | 8 fl oz | Open/ good | calcium cabonate, petroleum-based lubricating oil, kaolin, menhaden oil | 0.0 | Y |
| | Goof Off - Graffiti Remover x2 | 16 oz | New/ unused | Ethylbenzene | 0.0 | Y |
| | Advion Cockroach insecticide x4 | 1.06 oz | Open/ good | Indoxacarb | 0.0 | Y |
| | Raid - Ant & Roach x4 | 1.5 oz | Open/ good | Imoprothin, cypermethrin, petroleum distillates | 0.0 | Y |
| | Black Magic 2-in-1 Leather Care x1 | 16 fl oz | Open/ good | Butyl stearate | 0.0 | Y |
| | STA-BIL Fuel Stabilizer x1 | 8 fl oz | Open/ good | Petroleum distillate | 0.0 | Y |
| | Klean Strip - Lacquer Thinner x1 | 1 qt | Open/ good | Acetone, methanol, toluene, acetic acid, hydrotreated light distillate, raffinates, 2-butoxy-ethanol | 0.0 | Y |
| | Homax - Tough Tile One Part Epoxy Finish x1 | 16 oz | Open/ good | Acetone, epoxy resin, titanium dioxide, xylene, methyl ethyl ketone, n-butyl acetate, petroleum distillates, n-butanol, ethylbenzene | 0.0 | Y |
| | Professional Easy Off - Heavy Duty Over & Grill Cleaner x2 | 24 oz | New/ unused | Potassium hydroxide, tripopylene glycol monomethyl ether, sodium metasilicate | 0.0 | Y |
| | Mapei - Ultrabond ECO 575 x5 | 4 gal | Open/ good | 1,2-benzisothiazol-3(2H)-one; 1,2-benzisothiazolin-3-one, reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H -isothiazol-3-one [EC no. 220-239-6] (3:1) | 0.0 | Y |
| | PPG - Speedhide 6-0011 x6 | 4.84 gal | Open/ good | Titanium dioxide | 0.0 | Y |
| | Nu-Calgon - Evap Foam No Rinse x1 | 18 oz | New/ unused | Butane, Diethyl glycol monoethyl ether, 2-butoxy-ethanol, propane, sodium lauryl sulfate, tetrasodium ethyleneiamine tetraacetate, sodium nitrite | 0.0 | Y |
| | Mapei - Primert T x1 | 2 gal | Open/ good | Ethylene glycol monobutyl ether, fluoroalkylphosphate | 0.0 | Y |
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| | | | | | | |

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

**Indoor Air Quality Investigation**
**Pre-Inspection Product Inventory**

| Location | Product Description | Size (units) | Condition* | Chemical Ingredients/Cas number | Field Instrument Reading (ppm) | Photo Y/N |
|---|---|---|---|---|---|---|
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* Describe the condition of the product containers as Unopened (UO), Used (U), or Deteriorated (D).

**Indoor Air Quality Investigation**
**Pre-Inspection Product Inventory**

| Location | Product Description | Size (units) | Condition* | Chemical Ingredients/Cas number | Field Instrument Reading (ppm) | Photo Y/N |
|---|---|---|---|---|---|---|
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* Describe the condition of the product containers as Unopened (UO), Used (U), or Deteriorated (D).

# APPENDIX D

# IMPORT MATERIAL DOCUMENTATION

## Tyler Goodnough

**From:** Curley, Ruth E (DEC) <ruth.curley@dec.ny.gov>
**Sent:** Friday, March 24, 2023 4:07 PM
**To:** Tyler Goodnough
**Cc:** Greg Wyka; Curley, Ruth E (DEC)
**Subject:** [External] RE: 45 Commercial Street (BCP No C224304) - Material Import Notifications - Topsoil - Ranco Sand & Stone

Hi Tyler/Greg

The Department has reviewed the request dated 3/24/2023 to import 400 CY of soil at the Sparrow Mining of Suffolk LLC, dba Ranco Sand and Stone in Manorville NY. Based on the information provided, the request is hereby approved.

The proposed fill material meets the Restricted Residential soil cleanup objectives (SCOs) (Appendix 5 of DER-10). Therefore, this material may be placed above the demarcation layer as part of final site cover.

Testing in accordance with DER-10 and the Remedial Design Work Plan and approval by the Department is required for any additional material imported from this source.

**Ruth Curley**
Professional Engineer 1 (Environmental)
Division of Environmental Remediation
**New York State Department of Environmental Conservation**
625 Broadway, 12th Floor Albany, NY 12233-7016
P: 518-402-9480 | F: 518-402-9773 | ruth.curley@dec.ny.gov
www.dec.ny.gov | | | |

NEW YORK STATE | Department of Environmental Conservation

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**From:** Tyler Goodnough <tgoodnough@langan.com>
**Sent:** Friday, March 24, 2023 2:46 PM
**To:** Curley, Ruth E (DEC) <ruth.curley@dec.ny.gov>
**Cc:** Greg Wyka <gwyka@langan.com>
**Subject:** RE: 45 Commercial Street (BCP No C224304) - Material Import Notifications - Topsoil - Ranco Sand & Stone



Hi Ruth,

See the attached revised import submittal package for 45 Commercial Street. The lab was able to revise their report to include the missing PFAS compounds and correct the other issues. Let us know if there's anything else you need from us on this.

Thanks and have a good weekend.

**Tyler Goodnough**
**Senior Staff Scientist**

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---

**From:** Tyler Goodnough
**Sent:** Thursday, March 23, 2023 2:51 PM
**To:** 'Curley, Ruth E (DEC)' <ruth.curley@dec.ny.gov>
**Cc:** Greg Wyka <gwyka@langan.com>
**Subject:** RE: 45 Commercial Street (BCP No C224304) - Material Import Notifications - Topsoil - Ranco Sand & Stone

Hi Ruth,

We very much appreciate you looking further into this. We let the contractor know yesterday that there were deficiencies and will also pass this along. Hopefully will be getting back to you with an acceptable package soon…

**Tyler Goodnough**
**Senior Staff Scientist**

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**From:** Curley, Ruth E (DEC) <ruth.curley@dec.ny.gov>
**Sent:** Thursday, March 23, 2023 2:40 PM

**To:** Tyler Goodnough <tgoodnough@langan.com>; Greg Wyka <gwyka@langan.com>
**Cc:** Curley, Ruth E (DEC) <ruth.curley@dec.ny.gov>
**Subject:** [External] RE: 45 Commercial Street (BCP No C224304) - Material Import Notifications - Topsoil - Ranco Sand & Stone

Hi Tyler & Greg

One of my colleagues spoke with Mike at Long Island Analytical today.
He has indicated that the 533 method on the lab report is an error and it should say Method 1633.

However, as noted in the earlier email (below), a 1633 analysis would give results for 40 PFAs compounds, rather than the 25 reported on the lab report.

There is a 28 day hold time on the soil samples, which were collected on 3/8/2023.

Couple of options easier than re-collecting samples:
(1) If the lab still has sample left from the analyses, the samples are within the 28 day window. So the lab can re-analyze the samples and report the remaining analytes.

(2) Since the lab says the 1633 analysis was already run, a formatting error may have caused not all of the results to be included on the lab report. In that case, a revised lab report with all of the analytes and the results listed should be issued.

If they can't provide analytical results for all the 40 PFAs compounds, then another set of samples will be needed.

Regarding the 1,4 dioxane results, the sample results provided are acceptable.

**Ruth Curley**
Professional Engineer 1 (Environmental)
Division of Environmental Remediation
**New York State Department of Environmental Conservation**
625 Broadway, 12th Floor Albany, NY 12233-7016
P: 518-402-9480 | F: 518-402-9773 | ruth.curley@dec.ny.gov
www.dec.ny.gov | | | 


---

**From:** Curley, Ruth E (DEC) <ruth.curley@dec.ny.gov>
**Sent:** Wednesday, March 22, 2023 3:47 PM
**To:** Tyler Goodnough <tgoodnough@langan.com>
**Cc:** Greg Wyka <gwyka@langan.com>; Curley, Ruth E (DEC) <ruth.curley@dec.ny.gov>
**Subject:** RE: 45 Commercial Street (BCP No C224304) - Material Import Notifications - Topsoil - Ranco Sand & Stone

Tyler/Greg

The Lab report shows that EPA Method 533 was used for PFAs, even though the COC requires EPA 1633.

Lab analysis reflects 25 PFAs compounds; Method 1633 would reflect approximately 40 compounds. PFAs data needs to be re-collected.

Other items:
The table at the end shows the wrong values for PCB SCOs. Should be 1000 or 3200 ug/kg (PG). But data meets the limits
1,4 Dioxane was not analyzed with 8270 SIM. (I'm checking on whether this need re-doing).
The summary table seems to have a formatting error with the PFAs data popping up in amid the SVOC data (top of page 40 and 41).

Ruth Curley, PE
518 402 9480

---

**From:** Tyler Goodnough <tgoodnough@langan.com>
**Sent:** Wednesday, March 22, 2023 1:12 PM
**To:** Curley, Ruth E (DEC) <ruth.curley@dec.ny.gov>
**Cc:** Greg Wyka <gwyka@langan.com>
**Subject:** 45 Commercial Street (BCP No C224304) - Material Import Notifications - Topsoil - Ranco Sand & Stone



Hi Ruth,

The Volunteers (GPL Development LLC, H Owner LLC, Greenpoint Landing Developers LLC, Greenpoint Storage Terminal LLC, Greenpoint Landing Associates, L.L.C., H1H2 Owner LLC, H1H2 GPL Owner LLC, and H1H2 Retail LLC) are proposing to import topsoil for the property located at 45 Commercial Street (Block 2472, Lot 70) in Brooklyn, New York. The material will be imported from the following facility:

- Sparrow Mining of Suffolk LLC, doing business as Ranco Sand & Stone, located at 151 South Street, Manorville, New York (NYSDEC Permit No. 1-4722-00218/00001, Mined Land ID No. 10060)

The topsoil will be used as backfill in planting areas in the courtyards. The following documentation is attached:

1. Import request form
2. Material source and sampling letter
3. NYSDEC facility permit
4. Laboratory report and data tables

Please let us know if you take any exception to the import and placement of the described materials.

**Tyler Goodnough**
**Senior Staff Scientist**

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# Let It Grow, Inc.
Landscape & Site Construction

March 21st 2023

**Re:** **Clean Cover Soil Analysis for the H1H2 Greenpoint**
**35 Commercial Street**
**Brooklyn, NY 11222**

Dear Mr. Sherzod,

This letter is being submitted to summarize the soil testing results for engineered soils intended to be imported by Let It Grow Inc for use as clean cover material in landscape planting area at above referenced project. Requirements for imported clean cover material was provided in specification, which states that imported material must be tested at the permitted source facility and must not exceed the lesser of the appropriate New York State Department of Environmental Conservation (NYSDEC) Part 375 Restricted Use Restricted-Residential Soil Cleanup Objectives (RRSCOs) and NYSDEC Part 375 Protection of Groundwater Soil Cleanup Objectives (PGWSCOs). In addition to meeting applicable SCOs, the material shall not contain any construction and demolition (C&D) debris or exhibit any observable indicators of contamination. This letter presents the final submittal for the proposed import of clean cover soils.

Soils and sand for this project are being provided by Sparrow Mining of Suffolk LLC (d/b/a Ranco Sand & Stone) facility located at 151 South Street, Manorville, New York. The NYSDEC permit for the facility is included as attached. Prior to shipment to my blending facility, the topsoil component was subjected to Part 375 NYSDEC testing, meeting unrestricted residential standards, a requirement in order to be transported to the facility for use.
This project required +/- 400 CY of clean topsoil at planting area.

The sand and topsoil will be prepared and shipped from the Ranco Sand and Stone facility mentioned above, which is approximately 65 miles from the delivery location.

Samples for topsoil were collected from 9 discrete locations in each respective stockpile, visually inspected for evidence of contamination (i.e. staining and/or odors), for 9 EA VOC grab smaple collected by using TerraCore samplers (similar to EnCore samplers), 2 EA composite samples were collected in jar for rest of the test as per attached chain of custody and map of stockpile soil. A photo log of the stockpiles and sample locations is included in attachment.

The composite samples were collected for the following list of analyses for sand and topsoil:

- Semi-volatile Analysis
- Pesticides Analysis
- PCN/Aroclor Analysis

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www.letitgrow.com

- Herbicide Analysis
- Total Metal analysis
- Full Part 375 Package
- 1,4 Dioxane (SIM Method)
- Cat B Deliverables (PFA's & 1,4 Dioxane)
- PFA's
- M/S (PFA's & 1,4 Dioxane)
- M/S/D (PFA's & 1,4 Dioxane)

Samples were collected in appropriate containers and were transported in ice-filled coolers under chain of custody procedures to Long Island Analytical Laboratories, Inc, In Holbrook, New York. All analyses were performed in accordance with the NYSDEC Analytical Services Protocol (ASP) using United States Environmental Protection Agency (USEPA) 1633 Methods.

The laboratory report is included as in attachment and soil sample results are summarized within the associated spreadsheets. The results were compared to the Part 375 RRSCOs and Part 375 PGWSCOs, As the tables indicate, all the sample results meet the lower of the appropriate SCOs. All material inspected onside did not exhibit any observable evidence of contamination or contain C&D.

Please contact us if you have any questions or require any additional information.

 

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www.letitgrow.com

CTL
CERTIFIED TESTING LABORATORIES, INC.

Client: The Dirt Company - Northeast
PO BOX 156
Jamesburg, New Jersey 08831

Date: 3/7/23

Lab No.: B-402-23

Project: American Museum of Natural History

Report No.: AG-4

On Sample of: Soil Material

Sampled By: Client

Received: 2/27/23

Marked: Planting Bed Soil

EXAMINED WITH THE FOLLOWING RESULTS:

| Sieve Analysis | Results | Specification |
|---|---|---|
| 1. Material Passing 1/2" | 100 | 100 |
| Material Retained on #10 | 12.1 | 15% max |
| 2. Gradation for material passing #10 | | |
| #10 | 100 | 100 |
| #18 | 86.5 | 75-93 |
| #35 | 64.0 | 50-80 |
| #60 | 38.5 | 29-56 |
| #140 | 25.4 | 19-30 |
| #270 | 15.5 | 18-23 |
| .002mm | 4.0 | 2-7 |
| 3. Ratio of the particle size for 80% passing ($D_{80}$) to the particle size for 30% passing ($D_{30}$) ($D_{80}/D_{30}$) | 4.4 | $\leq$ 8.0 |
| 4. Saturated Hydraulic Conductivity when compacted to a minimum of 85% of ASTM D698 | 5.5 in/hr. | $\geq$ 2.0 in/hr. |
| 5. Organic content | 5.3 | 5.0-7.0 |
| 6. pH Value | 6.5 | 6.0-6.5 |

7. Standard Proctor (ASTM D698) See attached curve

Respectfully Submitted,
Certified Testing Laboratories, Inc.

TK/Kd

Terry Kifer, General Manager


155 US Route 130 • Bordentown, NJ 08505 • Phone (609) 298-3255 • Fax (609) 298-7288

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

Division of Environmental Permits, Region 1
SUNY @ Stony Brook, 50 Circle Road, Stony Brook, NY 11790
P: (631) 444-0365 | F: (631) 444-0360
www.dec.ny.gov

October 4, 2017

Sparrow Mining of Suffolk LLC
151 South Street
Manorville, NY 11949

RE: Permit No.: 1-4722-00218/00001

Dear Permittee:

In conformance with the requirements of the State Uniform Procedures Act (Article 70, ECL) and its implementing regulations (6NYCRR, Part 621) we are enclosing your permit identified above. Please read all permit conditions carefully to ensure compliance during the term of the permit. If you are unable to comply with any conditions, please contact us at the above address.

This permit must be kept available on the premises of the facility at all times and presented upon request. You should anticipate inspections conducted pursuant to issuance of this permit.

Sincerely,

Susan V. Ackerman
Permit Administrator

SVA/ls

# PERMIT

## Under the Environmental Conservation Law (ECL)

### Permittee and Facility Information

**Permit Issued To:**
SPARROW MINING OF SUFFOLK LLC
151 SOUTH ST
MANORVILLE, NY 11949
(516) 874-3939

**Facility:**
SPARROW MINING OF SUFFOLK MINE
151 SOUTH ST
MANORVILLE, NY 11949

**Facility Application Contact:**
ALPHA GEOSCIENCE
679 PLANK RD
CLIFTON PARK, NY 12065

**Facility Location:** in BROOKHAVEN in SUFFOLK COUNTY
**Facility Principal Reference Point:** NYTM-E: 683.243 NYTM-N: 4524.086
Latitude: 40°50'50.5" Longitude: 72°49'34.5"

**Authorized Activity:** Mine 91.8 acres within a 91.8 acre Life of Mine (LOM) of a 116 acre parcel of property. Within the 91.8 acre LOM a lake of 67.3 acres is being excavated to a depth of 150 feet below the water table. The life of the mine will be 7 to 10 years. The operational aspects of the mine will remain the same.

### Permit Authorizations

**Mined Land Reclamation - Under Article 23, Title 27**
Permit ID 1-4722-00218/00001 (Mined Land ID 10060)
Renewal Effective Date: 10/6/2017 Expiration Date: 10/5/2022

### NYSDEC Approval

**By acceptance of this permit, the permittee agrees that the permit is contingent upon strict compliance with the ECL, all applicable regulations, and all conditions included as part of this permit.**

Permit Administrator: SUSAN ACKERMAN, Deputy Regional Permit Administrator
Address: NYSDEC Region 1 Headquarters
SUNY @ Stony Brook|50 Circle Rd
Stony Brook, NY 11790 -3409

Authorized Signature: _____ Date 10/6/2017

## Distribution List

ALPHA GEOSCIENCE
ROBERT YAGER

## Permit Components

MINED LAND RECLAMATION PERMIT CONDITIONS

GENERAL CONDITIONS, APPLY TO ALL AUTHORIZED PERMITS

NOTIFICATION OF OTHER PERMITTEE OBLIGATIONS

## MINED LAND RECLAMATION PERMIT CONDITIONS

1. **Conformance With Plans** All activities authorized by this permit must be in strict conformance with the approved plans submitted by the applicant or applicant's agent as part of the permit application. Such plans were approved by Robert Yager, Mined Land Reclamation Specialist 2 on November 20, 2013, and consist of the following items:

**A.** Narrative titled NYSDEC MINE PERMIT MODFICATION for Sparrow Mining of Suffolk, LLC submitted by Alpha Geoscience dated August, 2013. This modification was for the lake to go from 100 feet deep to 150 feet.
   a. Associated maps within the narrative folder.

**B.** Narrative titled NYS-DEC MINE PERMIT RENEWAL AND MODIFICATION for Sparrow Mining of Suffolk, LLC submitted by HARRINGTON ASSOCIATES Consulting Geologists dated May, 2012. This modification was to expand the Life of Mine (LOM) from 88 acres to 91.8 LOM and expanded the excavated lake from 42.96 acres to 67.3 acres.
   a. Map called Mining Map revised January 2012 and submitted by Harrington Associates Geologists May 16, 2012.
   b. Map called Reclamation Map revised 2012 and submitted by Harrington Associates Geologists May 16, 2012.
   c. Map called Geologic Cross Section revised January 2012 and submitted by Harrington Associates May 16, 2012.

**C.** Renewal submitted July 2017 by Alpha Geoscience. The renewal includes the following:
   a. Letter in response to clarification requested and associated paperwork from Alpha Geoscience dated July 26, 2017 for the renewal.
   b. Map marked as Attachment 1 called Existing Conditions and Mining Plan submitted August 2017. Map was a corrected version that expanded the scale of map from 1 inch = 250 feet to 1 inch = 200 feet and added one additional cross section submitted by Alpha Geoscience.
   c. Map marked as Attachment 2 called Bathymetric Contours dated June 29, 2017. Map was a corrected version that expanded scale of map from 1 inch = 250 feet to 1 inch = 200 feet submitted by Alpha Geoscience.
   d. Map marked as Attachment 3 called Cross Sections A-A' and B-B' with Existing and Final Surfaces submitted by Alpha Geoscience.

c. Map called Cross Section C-C' with Existing and Final Surfaces submitted by Alpha Geoscience.

2. **Adherance to Plan** The permittee shall not deviate or depart from the approved mined land use plan without approval by the Department of the alteration or modification thereto.

3. **Staked Outline of 67.3 acre Lake** The existing stakes marking the boundary of the 67.3 acre lake as part of the 2012 modification must remain inplace until the limit of excavation has been reached.

4. **Reclamation** Concurrent reclamation of areas that have been excavated to the limits of mining is highly recommended.

5. **Ground Water Monitoring** Ground water monitoring wells shall remain and shall be maintained and protected in working order such that water level measurements and/or sampling can be undertaken. Groundwater sampling and analysis of wells 2A, 3A, 6A, 6B, 6C, 7A, 7B and 7C must continue on a quarterly basis. All groundwater monitoring and sampling requirements are to remain in effect until the mine is approved as reclaimed. **Water table elevation measurements shall be measured and recorded quartly and results sent to:**

**NYSDEC**
**Regional Mineral Resource Manager**
**50 Circle Road**
**SUNY Stony Brook**
**Stony Brook, NY 11790-2356**

6. **Maintenance of other Monitoring Wells** Other existing wells 2C, 3B and 3C shall be protected and maintained in working order such that water level measurements and/or sampling in these wells could be undertaken if necessary in the future.

7. **Fueling of Equipment and Reporting of Spills** Fueling of equipment shall be controlled to prevent spillage. Any spillage of fuels, waste oils, other petroleum products or hazardous materials shall be reported to the Department's Spill Hotline number (1-800-457-7362) within 2 hours. The permittee shall retain the Department's Spill Response number for immediate access in the permittee's office and at the mine site.

8. **Bond, Surety to Remain in Force** Any required reclamation bond or other surety, in an amount determined by the Department, shall be maintained in full force and effect. Such a bond or other surety shall not be terminated until the reclamation of the mined area is approved by the department in writing.

9. **Strip and Stockpile Soils for Reclamation** Prior to the excavation of previously undisturbed areas, topsoil and overburden shall be stripped, stockpiled separately, and used for reclamation of mined areas. These stockpiles shall be seeded to establish a vegetative cover within 30 days, or as soon as practicable following their construction. The permittee shall locate all overburden stockpiles within the permitted area of the approved Life of Mine. Sufficient quantities of topsoil must be retained on the site for use in reclamation, unless prior approval is granted by the Department.

10. **No Unpermitted Discharge Outside Limits of Mine** There shall be no natural swales or channels or constructed features such as ditches, pipes, etc., that are capable of discharging waters to any offsite areas or to any areas outside the limits of the Life of Mine except those explicitly described and shown in the narrative and graphic portions of the approved Mined Land Use Plan. All silt laden water and storm water generated on, or running across, the site shall be retained within the approved project area. The permittee must comply with all applicable State Pollutant Discharge Elimination System (SPDES) permit requirements and provide necessary notifications for off-site point source discharges.

11. **Maintain Area Markers for Permit Term** The permittee shall provide permanent markers such as stakes, posts or other devices acceptable to the Department to identify and delineate the permit area, as outlined on the approved Mining Plan Map. These markers are to be installed prior to the start of mining and shall be maintained for the duration of the permit term.

12. **Dust Control** Water or other approved dust palliatives must be applied to haulageways and other parts of the mine, as often as necessary, to prevent visible dust from leaving the mine property.

13. **Archaeological or Structural Remains** If any archaeological or structural remains are encountered during excavation, the permittee must immediately cease, or cause to cease, all work in the area of the remains and notify the NYSDEC Region 1 Mined Land Reclamation Specialist. Work shall not resume until written permission to do so has been received from the Department.

## GENERAL CONDITIONS - Apply to ALL Authorized Permits:

1. **Facility Inspection by The Department** The permitted site or facility, including relevant records, is subject to inspection at reasonable hours and intervals by an authorized representative of the Department of Environmental Conservation (the Department) to determine whether the permittee is complying with this permit and the ECL. Such representative may order the work suspended pursuant to ECL 71-0301 and SAPA 401(3).

The permittee shall provide a person to accompany the Department's representative during an inspection to the permit area when requested by the Department.

A copy of this permit, including all referenced maps, drawings and special conditions, must be available for inspection by the Department at all times at the project site or facility. Failure to produce a copy of the permit upon request by a Department representative is a violation of this permit.

2. **Relationship of this Permit to Other Department Orders and Determinations** Unless expressly provided for by the Department, issuance of this permit does not modify, supersede or rescind any order or determination previously issued by the Department or any of the terms, conditions or requirements contained in such order or determination.

3. **Applications For Permit Renewals, Modifications or Transfers** The permittee must submit a separate written application to the Department for permit renewal, modification or transfer of this permit. Such application must include any forms or supplemental information the Department requires. Any renewal, modification or transfer granted by the Department must be in writing. Submission of applications for permit renewal, modification or transfer are to be submitted to:

Regional Permit Administrator
NYSDEC Region 1 Headquarters
SUNY @ Stony Brook|50 Circle Rd
Stony Brook, NY11790 -3409

4. **Submission of Renewal Application** The permittee must submit a renewal application at least 30 days before permit expiration for the following permit authorizations: Mined Land Reclamation.

5. **Permit Modifications, Suspensions and Revocations by the Department** The Department reserves the right to exercise all available authority to modify, suspend or revoke this permit. The grounds for modification, suspension or revocation include:

a. materially false or inaccurate statements in the permit application or supporting papers;

b. failure by the permittee to comply with any terms or conditions of the permit;

c. exceeding the scope of the project as described in the permit application;

d. newly discovered material information or a material change in environmental conditions, relevant technology or applicable law or regulations since the issuance of the existing permit;

e. noncompliance with previously issued permit conditions, orders of the commissioner, any provisions of the Environmental Conservation Law or regulations of the Department related to the permitted activity.

6. **Permit Transfer** Permits are transferrable unless specifically prohibited by statute, regulation or another permit condition. Applications for permit transfer should be submitted prior to actual transfer of ownership.

# NOTIFICATION OF OTHER PERMITTEE OBLIGATIONS

**Item A: Permittee Accepts Legal Responsibility and Agrees to Indemnification**
The permittee, excepting state or federal agencies, expressly agrees to indemnify and hold harmless the Department of Environmental Conservation of the State of New York, its representatives, employees, and agents ("DEC") for all claims, suits, actions, and damages, to the extent attributable to the permittee's acts or omissions in connection with the permittee's undertaking of activities in connection with, or operation and maintenance of, the facility or facilities authorized by the permit whether in compliance or not in compliance with the terms and conditions of the permit. This indemnification does not extend to any claims, suits, actions, or damages to the extent attributable to DEC's own negligent or intentional acts or omissions, or to any claims, suits, or actions naming the DEC and arising under Article 78 of the New York Civil Practice Laws and Rules or any citizen suit or civil rights provision under federal or state laws.

**Item B: Permittee's Contractors to Comply with Permit**
The permittee is responsible for informing its independent contractors, employees, agents and assigns of their responsibility to comply with this permit, including all special conditions while acting as the permittee's agent with respect to the permitted activities, and such persons shall be subject to the same sanctions for violations of the Environmental Conservation Law as those prescribed for the permittee.

**Item C: Permittee Responsible for Obtaining Other Required Permits**
The permittee is responsible for obtaining any other permits, approvals, lands, easements and rights-of-way that may be required to carry out the activities that are authorized by this permit.

**Item D: No Right to Trespass or Interfere with Riparian Rights**
This permit does not convey to the permittee any right to trespass upon the lands or interfere with the riparian rights of others in order to perform the permitted work nor does it authorize the impairment of any rights, title, or interest in real or personal property held or vested in a person not a party to the permit.

LONG ISLAND ANALYTICAL LABORATORIES INC.
"TOMORROWS ANALYTICAL SOLUTIONS TODAY"

Laboratory Report

NYSDOH ELAP# 11693
USEPA# NY01273
CTDOH# PH-0284
AIHA# 164456
NJDEP# NY012
PADEP# 68-2943

LIAL# 3030828

March 21, 2023

Let It Grow Inc
M. Downey
52 Ackerson Street
River Edge, NJ 076661

**Re: 151 South St, Manorville, NY**

Dear M. Downey,

Enclosed please find the laboratory Analysis Report(s) for sample(s) received on March 08, 2023. Long Island Analytical laboratories analyzed the samples on March 21, 2023 for the following:

| SAMPLE ID | ANALYSIS |
|---|---|
| Soil - Comp A | EPA 1633, NYC Part 375 Less Volatiles |
| Soil - Comp B | EPA 1633, NYC Part 375 Less Volatiles |
| Soil - Grab 1 | NYC Part 375 (Volatile) |
| Soil - Grab 2 | NYC Part 375 (Volatile) |
| Soil - Grab 3 | NYC Part 375 (Volatile) |
| Soil - Grab 4 | NYC Part 375 (Volatile) |
| Soil - Grab 5 | NYC Part 375 (Volatile) |
| Soil - Grab 6 | NYC Part 375 (Volatile) |
| Soil - Grab 7 | NYC Part 375 (Volatile) |
| Soil - Grab 8 | NYC Part 375 (Volatile) |
| Soil - Grab 9 | NYC Part 375 (Volatile) |

Samples received at 2.1 ° C

If you have any questions or require further information, please call at your convenience. Long Island Analytical Laboratories Inc. is a NELAP accredited laboratory. All reported results meet the requirements of the NELAP standards unless noted. Report shall not be reproduced except in full without the written approval of the laboratory. Results related only to items tested. Long Island Analytical Laboratories would like to thank you for the opportunity to be of service to you.

Best Regards,

**Long Island Analytical Laboratories, Inc.**

**Michael Veraldi - Laboratory Director**

| | |
|---|---|
| Client: Let It Grow Inc | Client ID: 151 South St, Manorville, NY |
| Date (Time) Collected: 03/08/2023 13:35 | Sample ID: Soil - Comp A |
| Date (Time) Received: 03/08/2023 16:25 | Laboratory ID: 3030828-01 % Solid:78.816 |
| Matrix: Soil | ELAP: #11693 |

## Semivolatile Analysis

| Parameter | CAS No. | LOQ | Result | Units | Flag |
|---|---|---|---|---|---|
| 11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (F-53B Minor) (11Cl-PF3OUdS) | 763051-92-9 | 0.40 | <0.40 | ng/kg | |
| 3:3 Fluorotelomer carboxylic acid (3:3 FTCA) | 356-02-5 | 0.40 | <0.40 | ng/kg | |
| 4,8-Dioxa-3H-perfluorononanoic acid (ADONA) | 919005-14-4 | 0.40 | <0.40 | ng/kg | |
| 4:2 Fluorotelomer sulfonic acid (4:2-FTS) | 757124-72-4 | 0.40 | <0.40 | ng/kg | |
| 5:3 Fluorotelomer carboxylic acid (5:3 FTCA) | 914637-49-3 | 0.40 | <0.40 | ng/kg | |
| 6:2 Fluorotelomer sulfonic acid (6:FTS) | 27619-97-2 | 0.40 | <0.40 | ng/kg | |
| 7:3 Fluorotelomer carboxylic acid (7:3 FTCA) | 812-70-4 | 0.40 | <0.40 | ng/kg | |
| 8:2 Fluorotelomer sulfonic acid (8:2-FTS) | 39108-34-4 | 0.40 | <0.40 | ng/kg | |
| 9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (F-53B Major) (9Cl-PF30NS) | 756426-58-1 | 0.40 | <0.40 | ng/kg | |
| Hexafluoropropylene oxide dimer acid (HFPO-DA) | 13252-13-6 | 0.40 | <0.40 | ng/kg | |
| N-ethylperfluorooctane sulfonamide (NEtFOSA) | 4151-50-2 | 0.40 | <0.40 | ng/kg | |
| N-ethylperfluorooctane sulfonamidoacetic acid (N-EtFOSAA) | 2991-50-6 | 0.40 | <0.40 | ng/kg | |
| N-ethylperfluorooctane sulfonamidoethanol (EtFOSE) | 1691-99-2 | 0.40 | <0.40 | ng/kg | |
| N-methylperfluorooctane sulfonamide (NMeFOSA) | 31506-32-8 | 0.40 | <0.40 | ng/kg | |
| N-methylperfluorooctane sulfonamidoacetic acid (N-MeFOSAA) | 2355-31-9 | 0.40 | <0.40 | ng/kg | |
| N-methylperfluorooctane sulfonamidoethanol (MeFOSE) | 24448-09-7 | 0.40 | <0.40 | ng/kg | |
| Nonafluoro-3,6-dioxaheptanoic acid (NFDHA) | 151772-58-6 | 0.40 | <0.40 | ng/kg | |
| Perfluoro(2-ethoxyethane) sulfonic acid (PFEESA) | 113507-82-7 | 0.40 | <0.40 | ng/kg | |
| Perfluoro-3-methoxypropanoic acid (PFMPA) | 377-73-1 | 0.40 | <0.40 | ng/kg | |
| Perfluoro-4-methoxybutanoic acid (PFMBA) | 863090-89-5 | 0.40 | <0.40 | ng/kg | |
| Perfluorobutanesulfonic acid (PFBS) | 375-73-5 | 0.40 | <0.40 | ng/kg | |
| Perfluorobutanoic acid (PFBA) | 375-22-4 | 0.40 | <0.40 | ng/kg | |
| Perfluorodecanesulfonic acid (PFDS) | 335-77-3 | 0.40 | <0.40 | ng/kg | |
| Perfluorodecanoic acid (PFDA) | 335-76-2 | 0.40 | <0.40 | ng/kg | |
| Perfluorododecanesulfonic acid (PFDoS) | 79780-39-5 | 0.40 | <0.40 | ng/kg | |
| Perfluorododecanoic acid (PFDoA) | 307-55-1 | 0.40 | <0.40 | ng/kg | |
| Perfluoroheptanesulfonic acid (PFHpS) | 375-92-8 | 0.40 | <0.40 | ng/kg | |
| Perfluoroheptanoic acid (PFHpA) | 375-85-9 | 0.40 | <0.40 | ng/kg | |
| Perfluorohexanesulfonic acid (PFHxS) | 355-46-4 | 0.40 | <0.40 | ng/kg | |
| Perfluorohexanoic acid (PFHxA) | 307-24-4 | 0.40 | <0.40 | ng/kg | |
| Perfluorononanesulfonic acid (PFNS) | 68259-12-1 | 0.40 | <0.40 | ng/kg | |
| Perfluorononanoic acid (PFNA) | 375-95-1 | 0.40 | <0.40 | ng/kg | |

| | |
|---|---|
| Client: Let It Grow Inc | Client ID: 151 South St, Manorville, NY |
| Date (Time) Collected: 03/08/2023 13:35 | Sample ID: Soil - Comp A |
| Date (Time) Received: 03/08/2023 16:25 | Laboratory ID: 3030828-01 % Solid:78.816 |
| Matrix: Soil | ELAP: #11693 |

| Parameter | CAS No. | LOQ | Result | Units | Flag |
|---|---|---|---|---|---|
| Perfluorooctane sulfonamide (PFOSA) | 754-91-6 | 0.40 | <0.40 | ng/kg | |
| Perfluorooctanesulfonic acid (PFOS) | 1763-23-1 | 0.40 | <0.40 | ng/kg | |
| Perfluorooctanoic acid (PFOA) | 335-67-1 | 0.40 | <0.40 | ng/kg | |
| Perfluoropentanesulfonic acid (PFPeS) | 2706-91-4 | 0.40 | <0.40 | ng/kg | |
| Perfluoropentanoic acid (PFPeA) | 2706-90-3 | 0.40 | <0.40 | ng/kg | |
| Perfluorotetradecanoic acid (PFTeDA) | 376-06-7 | 0.40 | <0.40 | ng/kg | |
| Perfluorotridecanoic acid (PFTrDA) | 72629-94-8 | 0.40 | <0.40 | ng/kg | |
| Perfluoroundecanoic acid (PFUnA) | 2058-94-8 | 0.40 | <0.40 | ng/kg | |

| Surrogate | CAS No. | % Recovery | Rec. Limits | Flag |
|---|---|---|---|---|
| 2,3,3,3-Tetrafluoro-2-(13C3) propanoic acid | 13252-13-6 | 49 | 50-200 | 4.D |
| Perfluoro-n-(1,2,3,4,5,6,7-13C7)undecanoic acid | 2058-94-8 | 39 | 50-200 | 4.D |
| Perfluoro-n-(1,2,3,4,5,6-13C6)decanoic acid | 335-76-2 | 40 | 50-200 | 4.D |
| Perfluoro-n-(1,2,3,4,6-13C5) hexanoic acid | 307-24-4 | 39 | 50-200 | 4.D |
| Perfluoro-n-(1,2,3,4-13C4) heptanoic acid | 375-85-9 | 45 | 50-200 | 4.D |
| Perfluoro-n-(1,2-13C2)dodecanoic acid | 307-55-1 | 40 | 50-200 | 4.D |
| Perfluoro-n-(13C4)butanoic acid | 375-22-4 | 47 | 50-200 | 4.D |
| Perfluoro-n-(13C5)pentanoic acid | 2706-90-3 | 48 | 50-200 | 4.D |
| Perfluoro-n-(13C8)octanoic acid | 335-67-1 | 43 | 50-200 | 4.D |
| Perfluoro-n-(13C9)nonanoic acid | 375-95-1 | 46 | 50-200 | 4.D |
| Sodium perfluoro-1-(1,2,3-13C3)hexanesulfonate | 355-46-4 | 47 | 50-200 | 4.D |
| Sodium perfluoro-1-(1,2-13C2)decanesulfonate | 39108-34-4 | 62 | 50-200 | |
| Sodium perfluoro-1-(1,2-13C2)octanesulfonate | 27619-97-2 | 53 | 50-200 | |
| Sodium perfluoro-1-(13C8)octanesulfonate | 1763-23-1 | 45 | 50-200 | 4.D |
| Sodium perfluoro-1-(2,3,4-13C3)butanesulfonate | 375-73-5 | 50 | 50-200 | |
| Sodium perfuloro-1-(1,2-13C2)hexanesulfonate | 757124-72-4 | 50 | 50-200 | |

| Internal Standard | CAS No. | % Recovery | Rec. Limits | Flag |
|---|---|---|---|---|
| Perfluoro-n-(1,2-13C2)octanoic acid | 335-67-1 | 129 | 50-150 | |
| Perfluoro-n-(2,3,4-13C3)butanoic acid | 375-22-4 | 116 | 50-150 | |
| Sodium perfluoro-1- | 1763-23-1 | 103 | 50-150 | |

Date Prepared: 03/10/2023

Date Analyzed: 03/13/2023

Preparation Method: EPA 1633

Analytical Method: EPA 1633

| | |
|---|---|
| Client: Let It Grow Inc | Client ID: 151 South St, Manorville, NY |
| Date (Time) Collected: 03/08/2023 13:35 | Sample ID: Soil - Comp A |
| Date (Time) Received: 03/08/2023 16:25 | Laboratory ID: 3030828-01 % Solid:78.816 |
| Matrix: Soil | ELAP: #11693 |

## Semivolatile Analysis

| Parameter | CAS No. | LOQ | Result | Units | Flag |
|---|---|---|---|---|---|
| 2-Methylphenol | 95-48-7 | 381 | <381 | ug/kg dry | |
| 3/4-Methylphenol (m-Cresol/p-Cresol) | 108-39-4/106-44-5 | 190 | <190 | ug/kg dry | |
| Acenaphthene | 83-32-9 | 254 | <254 | ug/kg dry | |
| Acenaphthylene | 208-96-8 | 190 | <190 | ug/kg dry | |
| Anthracene | 120-12-7 | 254 | <254 | ug/kg dry | |
| Benzo(a)anthracene | 56-55-3 | 190 | <190 | ug/kg dry | |
| Benzo(a)pyrene | 50-32-8 | 190 | <190 | ug/kg dry | |
| Benzo(b)fluoranthene | 205-99-2 | 381 | <381 | ug/kg dry | |
| Benzo(g,h,i)perylene | 191-24-2 | 190 | <190 | ug/kg dry | |
| Benzo(k)fluoranthene | 207-08-9 | 190 | <190 | ug/kg dry | |
| Chrysene | 218-01-9 | 254 | <254 | ug/kg dry | |
| Dibenzo(a,h)anthracene | 53-70-3 | 190 | <190 | ug/kg dry | |
| Dibenzofuran | 132-64-9 | 254 | <254 | ug/kg dry | |
| Fluoranthene | 206-44-0 | 254 | <254 | ug/kg dry | |
| Fluorene | 86-73-7 | 254 | <254 | ug/kg dry | |
| Hexachlorobenzene | 118-74-1 | 254 | <254 | ug/kg dry | |
| Indeno(1,2,3-cd)pyrene | 193-39-5 | 190 | <190 | ug/kg dry | |
| Naphthalene | 91-20-3 | 254 | <254 | ug/kg dry | |
| Pentachlorophenol | 87-86-5 | 381 | <381 | ug/kg dry | |
| Phenanthrene | 85-01-8 | 254 | <254 | ug/kg dry | |
| Phenol | 108-95-2 | 190 | <190 | ug/kg dry | |
| Pyrene | 129-00-0 | 254 | <254 | ug/kg dry | |

| Surrogate | CAS No. | % Recovery | Rec. Limits | Flag |
|---|---|---|---|---|
| 2,4,6-Tribromophenol | 118-79-6 | 81 | 28.3-111 | |
| 2-Fluorobiphenyl | 321-60-8 | 71 | 30.1-118 | 4.D |
| 2-Fluorophenol | 367-12-4 | 64 | 28.1-113 | 4.D |
| Nitrobenzene-d5 | 4165-60-0 | 75 | 30.3-117 | 4.D |
| Phenol-d6 | 13127-88-3 | 70 | 26.7-119 | 4.D |
| Terphenyl-d14 | 1718-51-0 | 81 | 31.4-136 | |

| | |
|---|---|
| Client: Let It Grow Inc | Client ID: 151 South St, Manorville, NY |
| Date (Time) Collected: 03/08/2023 13:35 | Sample ID: Soil - Comp A |
| Date (Time) Received: 03/08/2023 16:25 | Laboratory ID: 3030828-01 % Solid:78.816 |
| Matrix: Soil | ELAP: #11693 |

| Internal Standard | CAS No. | % Recovery | Rec. Limits | Flag |
|---|---|---|---|---|
| 1,4-Dichlorobenzene-d4 | 3855-82-1 | 125 | 50-200 | |
| Acenaphthene-d10 | 15067-26-2 | 127 | 50-200 | |
| Chrysene-d12 | 1719-03-5 | 97 | 50-200 | |
| Naphthalene-d8 | 1146-65-2 | 132 | 50-200 | |
| Perylene-d12 | 1520-96-3 | 146 | 50-200 | |
| Phenanthrene-d10 | 1517-22-2 | 113 | 50-200 | |

Date Prepared: 03/09/2023

Preparation Method: EPA 3545 A

Date Analyzed: 03/14/2023

Analytical Method: EPA 8270 E

| | |
|---|---|
| Client: Let It Grow Inc | Client ID: 151 South St, Manorville, NY |
| Date (Time) Collected: 03/08/2023 13:35 | Sample ID: Soil - Comp A |
| Date (Time) Received: 03/08/2023 16:25 | Laboratory ID: 3030828-01 % Solid:78.816 |
| Matrix: Soil | ELAP: #11693 |

## Pesticides Analysis

| Parameter | CAS No. | LOQ | Result | Units | Flag |
|---|---|---|---|---|---|
| 4,4'-DDD | 72-54-8 | 2.54 | <2.54 | ug/kg dry | |
| 4,4'-DDE | 72-55-9 | 2.54 | 3.96 | ug/kg dry | |
| 4,4'-DDT | 50-29-3 | 2.54 | <2.54 | ug/kg dry | |
| Aldrin | 309-00-2 | 2.54 | <2.54 | ug/kg dry | |
| alpha-BHC | 319-84-6 | 6.34 | <6.34 | ug/kg dry | |
| beta-BHC | 319-85-7 | 6.34 | <6.34 | ug/kg dry | |
| cis-Chlordane | 5103-71-9 | 6.34 | 9.06 | ug/kg dry | |
| delta-BHC | 319-86-8 | 6.34 | <6.34 | ug/kg dry | |
| Dieldrin | 60-57-1 | 2.54 | 9.59 | ug/kg dry | |
| Endosulfan I | 959-98-8 | 6.34 | <6.34 | ug/kg dry | |
| Endosulfan II | 33213-65-9 | 6.34 | <6.34 | ug/kg dry | |
| Endosulfan Sulfate | 1031-07-8 | 6.34 | <6.34 | ug/kg dry | |
| Endrin | 72-20-8 | 6.34 | <6.34 | ug/kg dry | |
| gamma-BHC / Lindane | 58-89-9 | 6.34 | <6.34 | ug/kg dry | |
| Heptachlor | 76-44-8 | 6.34 | <6.34 | ug/kg dry | |

| Surrogate | CAS No. | % Recovery | Rec. Limits | Flag |
|---|---|---|---|---|
| Decachlorobiphenyl | 2051-24-3 | 96 | 52.6-153 | |
| Tetrachloro-m-xylene | 877-09-8 | 89 | 56.1-151 | |

| Internal Standard | CAS No. | % Recovery | Rec. Limits | Flag |
|---|---|---|---|---|
| 1-Bromo-2-Nitrobenzene | 108-31-6 | 117 | 50-200 | |

Date Prepared: 03/10/2023

Preparation Method: EPA 3545 A

Date Analyzed: 03/16/2023

Analytical Method: EPA 8081 B

| | |
|---|---|
| Client: Let It Grow Inc | Client ID: 151 South St, Manorville, NY |
| Date (Time) Collected: 03/08/2023 13:35 | Sample ID: Soil - Comp A |
| Date (Time) Received: 03/08/2023 16:25 | Laboratory ID: 3030828-01 % Solid:78.816 |
| Matrix: Soil | ELAP: #11693 |

## PCB/Aroclor Analysis

| Parameter | CAS No. | LOQ | Result | Units | Flag |
|---|---|---|---|---|---|
| Aroclor-1016 | 12674-11-2 | 63.4 | <63.4 | ug/kg dry | |
| Aroclor-1221 | 11104-28-2 | 63.4 | <63.4 | ug/kg dry | |
| Aroclor-1232 | 11141-16-5 | 63.4 | <63.4 | ug/kg dry | |
| Aroclor-1242 | 53469-21-9 | 63.4 | <63.4 | ug/kg dry | |
| Aroclor-1248 | 12672-29-6 | 63.4 | <63.4 | ug/kg dry | |
| Aroclor-1254 | 11097-69-1 | 63.4 | <63.4 | ug/kg dry | |
| Aroclor-1260 | 11096-82-5 | 63.4 | <63.4 | ug/kg dry | |
| Aroclor-1262 | 37324-23-5 | 63.4 | <63.4 | ug/kg dry | |
| Aroclor-1268 | 11100-14-4 | 63.4 | <63.4 | ug/kg dry | |

| Surrogate | CAS No. | % Recovery | Rec. Limits | Flag |
|---|---|---|---|---|
| Decachlorobiphenyl | 2051-24-3 | 90 | 47.4-148 | |
| Tetrachloro-m-xylene | 877-09-8 | 83 | 51.4-150 | |

| Internal Standard | CAS No. | % Recovery | Rec. Limits | Flag |
|---|---|---|---|---|
| 1-Bromo-2-Nitrobenzene | 108-31-6 | 93 | 50-200 | |

Date Prepared: 03/10/2023

Preparation Method: EPA 3545 A

Date Analyzed: 03/16/2023

Analytical Method: EPA 8082 A

| | |
|---|---|
| Client: Let It Grow Inc | Client ID: 151 South St, Manorville, NY |
| Date (Time) Collected: 03/08/2023 13:35 | Sample ID: Soil - Comp A |
| Date (Time) Received: 03/08/2023 16:25 | Laboratory ID: 3030828-01 % Solid:78.816 |
| Matrix: Soil | ELAP: #11693 |

## Herbicide Analysis

| Parameter | CAS No. | LOQ | Result | Units | Flag |
|---|---|---|---|---|---|
| 2,4,5-TP (Silvex) | 93-72-1 | 32 | <32 | ug/kg dry | |

Date Prepared: 03/10/2023

Preparation Method: EPA 3545 A

Date Analyzed: 03/21/2023

Analytical Method: EPA 8151 A

| | |
|---|---|
| Client: Let It Grow Inc | Client ID: 151 South St, Manorville, NY |
| Date (Time) Collected: 03/08/2023 13:35 | Sample ID: Soil - Comp A |
| Date (Time) Received: 03/08/2023 16:25 | Laboratory ID: 3030828-01 % Solid:78.816 |
| Matrix: Soil | ELAP: #11693 |

## Total Metals Analysis

| Parameter | Date Analyzed | Method | LOQ | Result | Units | Flag |
|---|---|---|---|---|---|---|
| Arsenic | 03/14/2023 | EPA 6010 D | 1.71 | 2.62 | mg/kg dry | |
| Barium | 03/14/2023 | EPA 6010 D | 1.71 | 38.1 | mg/kg dry | |
| Beryllium | 03/14/2023 | EPA 6010 D | 0.69 | <0.69 | mg/kg dry | |
| Cadmium | 03/14/2023 | EPA 6010 D | 1.71 | <1.71 | mg/kg dry | |
| Chromium | 03/14/2023 | EPA 6010 D | 1.71 | 10.2 | mg/kg dry | |
| Copper | 03/14/2023 | EPA 6010 D | 1.71 | 17.3 | mg/kg dry | |
| Lead | 03/14/2023 | EPA 6010 D | 1.71 | 28.1 | mg/kg dry | |
| Manganese | 03/14/2023 | EPA 6010 D | 1.71 | 153 | mg/kg dry | |
| Nickel | 03/14/2023 | EPA 6010 D | 1.71 | 7.16 | mg/kg dry | |
| Selenium | 03/14/2023 | EPA 6010 D | 3.41 | <3.41 | mg/kg dry | |
| Silver | 03/14/2023 | EPA 6010 D | 0.43 | <0.43 | mg/kg dry | |
| Zinc | 03/14/2023 | EPA 6010 D | 1.71 | 43.4 | mg/kg dry | |

Date Prepared: 03/09/2023 Preparation Method: EPA 3050B

| Parameter | Date Analyzed | Method | LOQ | Result | Units | Flag |
|---|---|---|---|---|---|---|
| Hexavalent Chromium | 03/15/2023 | EPA 7196 A | 0.633 | 1.00 | mg/kg dry | |

Date Prepared: 03/14/2023 Preparation Method: EPA 3060A

| Parameter | Date Analyzed | Method | LOQ | Result | Units | Flag |
|---|---|---|---|---|---|---|
| Mercury | 03/13/2023 | EPA 7471 B | 0.01 | 0.07 | mg/kg dry | |

Date Prepared: 03/09/2023 Preparation Method: EPA 7471 B

| Parameter | Date Analyzed | Method | LOQ | Result | Units | Flag |
|---|---|---|---|---|---|---|
| Cyanide | 03/21/2023 | EPA 9014 | 0.25 | <0.25 | mg/kg dry | |

Date Prepared: 03/16/2023 Preparation Method: Distillation Prep

| | |
|---|---|
| Client: Let It Grow Inc | Client ID: 151 South St, Manorville, NY |
| Date (Time) Collected: 03/08/2023 13:42 | Sample ID: Soil - Comp B |
| Date (Time) Received: 03/08/2023 16:25 | Laboratory ID: 3030828-02 % Solid:77.267 |
| Matrix: Soil | ELAP: #11693 |

## Semivolatile Analysis

| Parameter | CAS No. | LOQ | Result | Units | Flag |
|---|---|---|---|---|---|
| 11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (F-53B Minor) (11Cl-PF3OUdS) | 763051-92-9 | 0.40 | <0.40 | ng/kg | |
| 3:3 Fluorotelomer carboxylic acid (3:3 FTCA) | 356-02-5 | 0.40 | <0.40 | ng/kg | |
| 4,8-Dioxa-3H-perfluorononanoic acid (ADONA) | 919005-14-4 | 0.40 | <0.40 | ng/kg | |
| 4:2 Fluorotelomer sulfonic acid (4:2-FTS) | 757124-72-4 | 0.40 | <0.40 | ng/kg | |
| 5:3 Fluorotelomer carboxylic acid (5:3 FTCA) | 914637-49-3 | 0.40 | <0.40 | ng/kg | |
| 6:2 Fluorotelomer sulfonic acid (6:FTS) | 27619-97-2 | 0.40 | <0.40 | ng/kg | |
| 7:3 Fluorotelomer carboxylic acid (7:3 FTCA) | 812-70-4 | 0.40 | <0.40 | ng/kg | |
| 8:2 Fluorotelomer sulfonic acid (8:2-FTS) | 39108-34-4 | 0.40 | <0.40 | ng/kg | |
| 9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (F-53B Major) (9Cl-PF30NS) | 756426-58-1 | 0.40 | <0.40 | ng/kg | |
| Hexafluoropropylene oxide dimer acid (HFPO-DA) | 13252-13-6 | 0.40 | <0.40 | ng/kg | |
| N-ethylperfluorooctane sulfonamide (NEtFOSA) | 4151-50-2 | 0.40 | <0.40 | ng/kg | |
| N-ethylperfluorooctane sulfonamidoacetic acid (N-EtFOSAA) | 2991-50-6 | 0.40 | <0.40 | ng/kg | |
| N-ethylperfluorooctane sulfonamidoethanol (EtFOSE) | 1691-99-2 | 0.40 | <0.40 | ng/kg | |
| N-methylperfluorooctane sulfonamide (NMeFOSA) | 31506-32-8 | 0.40 | <0.40 | ng/kg | |
| N-methylperfluorooctane sulfonamidoacetic acid (N-MeFOSAA) | 2355-31-9 | 0.40 | <0.40 | ng/kg | |
| N-methylperfluorooctane sulfonamidoethanol (MeFOSE) | 24448-09-7 | 0.40 | <0.40 | ng/kg | |
| Nonafluoro-3,6-dioxaheptanoic acid (NFDHA) | 151772-58-6 | 0.40 | <0.40 | ng/kg | |
| Perfluoro(2-ethoxyethane) sulfonic acid (PFEESA) | 113507-82-7 | 0.40 | <0.40 | ng/kg | |
| Perfluoro-3-methoxypropanoic acid (PFMPA) | 377-73-1 | 0.40 | <0.40 | ng/kg | |
| Perfluoro-4-methoxybutanoic acid (PFMBA) | 863090-89-5 | 0.40 | <0.40 | ng/kg | |
| Perfluorobutanesulfonic acid (PFBS) | 375-73-5 | 0.40 | <0.40 | ng/kg | |
| Perfluorobutanoic acid (PFBA) | 375-22-4 | 0.40 | <0.40 | ng/kg | |
| Perfluorodecanesulfonic acid (PFDS) | 335-77-3 | 0.40 | <0.40 | ng/kg | |
| Perfluorodecanoic acid (PFDA) | 335-76-2 | 0.40 | <0.40 | ng/kg | |
| Perfluorododecanesulfonic acid (PFDoS) | 79780-39-5 | 0.40 | <0.40 | ng/kg | |
| Perfluorododecanoic acid (PFDoA) | 307-55-1 | 0.40 | <0.40 | ng/kg | |
| Perfluoroheptanesulfonic acid (PFHpS) | 375-92-8 | 0.40 | <0.40 | ng/kg | |
| Perfluoroheptanoic acid (PFHpA) | 375-85-9 | 0.40 | <0.40 | ng/kg | |
| Perfluorohexanesulfonic acid (PFHxS) | 355-46-4 | 0.40 | <0.40 | ng/kg | |
| Perfluorohexanoic acid (PFHxA) | 307-24-4 | 0.40 | <0.40 | ng/kg | |
| Perfluorononanesulfonic acid (PFNS) | 68259-12-1 | 0.40 | <0.40 | ng/kg | |
| Perfluorononanoic acid (PFNA) | 375-95-1 | 0.40 | <0.40 | ng/kg | |

| | |
|---|---|
| Client: Let It Grow Inc | Client ID: 151 South St, Manorville, NY |
| Date (Time) Collected: 03/08/2023 13:42 | Sample ID: Soil - Comp B |
| Date (Time) Received: 03/08/2023 16:25 | Laboratory ID: 3030828-02 % Solid:77.267 |
| Matrix: Soil | ELAP: #11693 |

| Parameter | CAS No. | LOQ | Result | Units | Flag |
|---|---|---|---|---|---|
| Perfluorooctane sulfonamide (PFOSA) | 754-91-6 | 0.40 | <0.40 | ng/kg | |
| Perfluorooctanesulfonic acid (PFOS) | 1763-23-1 | 0.40 | <0.40 | ng/kg | |
| Perfluorooctanoic acid (PFOA) | 335-67-1 | 0.40 | <0.40 | ng/kg | |
| Perfluoropentanesulfonic acid (PFPeS) | 2706-91-4 | 0.40 | <0.40 | ng/kg | |
| Perfluoropentanoic acid (PFPeA) | 2706-90-3 | 0.40 | <0.40 | ng/kg | |
| Perfluorotetradecanoic acid (PFTeDA) | 376-06-7 | 0.40 | <0.40 | ng/kg | |
| Perfluorotridecanoic acid (PFTrDA) | 72629-94-8 | 0.40 | <0.40 | ng/kg | |
| Perfluoroundecanoic acid (PFUnA) | 2058-94-8 | 0.40 | <0.40 | ng/kg | |

| Surrogate | CAS No. | % Recovery | Rec. Limits | Flag |
|---|---|---|---|---|
| 2,3,3,3-Tetrafluoro-2-(13C3) propanoic acid | 13252-13-6 | 70 | 50-200 | |
| Perfluoro-n-(1,2,3,4,5,6,7-13C7)undecanoic acid | 2058-94-8 | 48 | 50-200 | 4.D |
| Perfluoro-n-(1,2,3,4,5,6-13C6)decanoic acid | 335-76-2 | 46 | 50-200 | 4.D |
| Perfluoro-n-(1,2,3,4,6-13C5) hexanoic acid | 307-24-4 | 56 | 50-200 | |
| Perfluoro-n-(1,2,3,4-13C4) heptanoic acid | 375-85-9 | 61 | 50-200 | |
| Perfluoro-n-(1,2-13C2)dodecanoic acid | 307-55-1 | 55 | 50-200 | |
| Perfluoro-n-(13C4)butanoic acid | 375-22-4 | 71 | 50-200 | |
| Perfluoro-n-(13C5)pentanoic acid | 2706-90-3 | 70 | 50-200 | |
| Perfluoro-n-(13C8)octanoic acid | 335-67-1 | 62 | 50-200 | |
| Perfluoro-n-(13C9)nonanoic acid | 375-95-1 | 59 | 50-200 | |
| Sodium perfluoro-1-(1,2,3-13C3)hexanesulfonate | 355-46-4 | 63 | 50-200 | |
| Sodium perfluoro-1-(1,2-13C2)decanesulfonate | 39108-34-4 | 98 | 50-200 | |
| Sodium perfluoro-1-(1,2-13C2)octanesulfonate | 27619-97-2 | 81 | 50-200 | |
| Sodium perfluoro-1-(13C8)octanesulfonate | 1763-23-1 | 61 | 50-200 | |
| Sodium perfluoro-1-(2,3,4-13C3)butanesulfonate | 375-73-5 | 71 | 50-200 | |
| Sodium perfuloro-1-(1,2-13C2)hexanesulfonate | 757124-72-4 | 73 | 50-200 | |

| Internal Standard | CAS No. | % Recovery | Rec. Limits | Flag |
|---|---|---|---|---|
| Perfluoro-n-(1,2-13C2)octanoic acid | 335-67-1 | 112 | 50-150 | |
| Perfluoro-n-(2,3,4-13C3)butanoic acid | 375-22-4 | 96 | 50-150 | |
| Sodium perfluoro-1- | 1763-23-1 | 85 | 50-150 | |

Date Prepared: 03/10/2023

Date Analyzed: 03/13/2023

Preparation Method: EPA 1633

Analytical Method: EPA 1633

| | |
|---|---|
| Client: Let It Grow Inc | Client ID: 151 South St, Manorville, NY |
| Date (Time) Collected: 03/08/2023 13:42 | Sample ID: Soil - Comp B |
| Date (Time) Received: 03/08/2023 16:25 | Laboratory ID: 3030828-02 % Solid:77.267 |
| Matrix: Soil | ELAP: #11693 |

## Semivolatile Analysis

| Parameter | CAS No. | LOQ | Result | Units | Flag |
|---|---|---|---|---|---|
| 2-Methylphenol | 95-48-7 | 388 | <388 | ug/kg dry | |
| 3/4-Methylphenol (m-Cresol/p-Cresol) | 108-39-4/106-44-5 | 194 | <194 | ug/kg dry | |
| Acenaphthene | 83-32-9 | 259 | <259 | ug/kg dry | |
| Acenaphthylene | 208-96-8 | 194 | <194 | ug/kg dry | |
| Anthracene | 120-12-7 | 259 | <259 | ug/kg dry | |
| Benzo(a)anthracene | 56-55-3 | 194 | <194 | ug/kg dry | |
| Benzo(a)pyrene | 50-32-8 | 194 | <194 | ug/kg dry | |
| Benzo(b)fluoranthene | 205-99-2 | 388 | <388 | ug/kg dry | |
| Benzo(g,h,i)perylene | 191-24-2 | 194 | <194 | ug/kg dry | |
| Benzo(k)fluoranthene | 207-08-9 | 194 | <194 | ug/kg dry | |
| Chrysene | 218-01-9 | 259 | <259 | ug/kg dry | |
| Dibenzo(a,h)anthracene | 53-70-3 | 194 | <194 | ug/kg dry | |
| Dibenzofuran | 132-64-9 | 259 | <259 | ug/kg dry | |
| Fluoranthene | 206-44-0 | 259 | <259 | ug/kg dry | |
| Fluorene | 86-73-7 | 259 | <259 | ug/kg dry | |
| Hexachlorobenzene | 118-74-1 | 259 | <259 | ug/kg dry | |
| Indeno(1,2,3-cd)pyrene | 193-39-5 | 194 | <194 | ug/kg dry | |
| Naphthalene | 91-20-3 | 259 | <259 | ug/kg dry | |
| Pentachlorophenol | 87-86-5 | 388 | <388 | ug/kg dry | |
| Phenanthrene | 85-01-8 | 259 | <259 | ug/kg dry | |
| Phenol | 108-95-2 | 194 | <194 | ug/kg dry | |
| Pyrene | 129-00-0 | 259 | <259 | ug/kg dry | |

| Surrogate | CAS No. | % Recovery | Rec. Limits | Flag |
|---|---|---|---|---|
| 2,4,6-Tribromophenol | 118-79-6 | 69 | 28.3-111 | |
| 2-Fluorobiphenyl | 321-60-8 | 62 | 30.1-118 | 4.D |
| 2-Fluorophenol | 367-12-4 | 56 | 28.1-113 | 4.D |
| Nitrobenzene-d5 | 4165-60-0 | 64 | 30.3-117 | 4.D |
| Phenol-d6 | 13127-88-3 | 62 | 26.7-119 | 4.D |
| Terphenyl-d14 | 1718-51-0 | 70 | 31.4-136 | |

| | |
|---|---|
| Client: Let It Grow Inc | Client ID: 151 South St, Manorville, NY |
| Date (Time) Collected: 03/08/2023 13:42 | Sample ID: Soil - Comp B |
| Date (Time) Received: 03/08/2023 16:25 | Laboratory ID: 3030828-02 % Solid:77.267 |
| Matrix: Soil | ELAP: #11693 |

## Semivolatile Analysis

| Internal Standard | CAS No. | % Recovery | Rec. Limits | Flag |
|---|---|---|---|---|
| 1,4-Dichlorobenzene-d4 | 3855-82-1 | 125 | 50-200 | |
| Acenaphthene-d10 | 15067-26-2 | 129 | 50-200 | |
| Chrysene-d12 | 1719-03-5 | 96 | 50-200 | |
| Naphthalene-d8 | 1146-65-2 | 133 | 50-200 | |
| Perylene-d12 | 1520-96-3 | 144 | 50-200 | |
| Phenanthrene-d10 | 1517-22-2 | 114 | 50-200 | |

Date Prepared: 03/09/2023

Preparation Method: EPA 3545 A

Date Analyzed: 03/14/2023

Analytical Method: EPA 8270 E

| | |
|---|---|
| Client: Let It Grow Inc | Client ID: 151 South St, Manorville, NY |
| Date (Time) Collected: 03/08/2023 13:42 | Sample ID: Soil - Comp B |
| Date (Time) Received: 03/08/2023 16:25 | Laboratory ID: 3030828-02 % Solid:77.267 |
| Matrix: Soil | ELAP: #11693 |

## Pesticides Analysis

| Parameter | CAS No. | LOQ | Result | Units | Flag |
|---|---|---|---|---|---|
| 4,4'-DDD | 72-54-8 | 2.59 | <2.59 | ug/kg dry | |
| 4,4'-DDE | 72-55-9 | 2.59 | 4.04 | ug/kg dry | |
| 4,4'-DDT | 50-29-3 | 2.59 | <2.59 | ug/kg dry | |
| Aldrin | 309-00-2 | 2.59 | <2.59 | ug/kg dry | |
| alpha-BHC | 319-84-6 | 6.47 | <6.47 | ug/kg dry | |
| beta-BHC | 319-85-7 | 6.47 | <6.47 | ug/kg dry | |
| cis-Chlordane | 5103-71-9 | 6.47 | 13.5 | ug/kg dry | |
| delta-BHC | 319-86-8 | 6.47 | <6.47 | ug/kg dry | |
| Dieldrin | 60-57-1 | 2.59 | 4.66 | ug/kg dry | |
| Endosulfan I | 959-98-8 | 6.47 | <6.47 | ug/kg dry | |
| Endosulfan II | 33213-65-9 | 6.47 | <6.47 | ug/kg dry | |
| Endosulfan Sulfate | 1031-07-8 | 6.47 | <6.47 | ug/kg dry | |
| Endrin | 72-20-8 | 6.47 | <6.47 | ug/kg dry | |
| gamma-BHC / Lindane | 58-89-9 | 6.47 | <6.47 | ug/kg dry | |
| Heptachlor | 76-44-8 | 6.47 | <6.47 | ug/kg dry | |

| Surrogate | CAS No. | % Recovery | Rec. Limits | Flag |
|---|---|---|---|---|
| Decachlorobiphenyl | 2051-24-3 | 75 | 52.6-153 | |
| Tetrachloro-m-xylene | 877-09-8 | 73 | 56.1-151 | |

| Internal Standard | CAS No. | % Recovery | Rec. Limits | Flag |
|---|---|---|---|---|
| 1-Bromo-2-Nitrobenzene | 108-31-6 | 114 | 50-200 | |

Date Prepared: 03/10/2023

Preparation Method: EPA 3545 A

Date Analyzed: 03/16/2023

Analytical Method: EPA 8081 B

| | |
|---|---|
| Client: Let It Grow Inc | Client ID: 151 South St, Manorville, NY |
| Date (Time) Collected: 03/08/2023 13:42 | Sample ID: Soil - Comp B |
| Date (Time) Received: 03/08/2023 16:25 | Laboratory ID: 3030828-02 % Solid:77.267 |
| Matrix: Soil | ELAP: #11693 |

## PCB/Aroclor Analysis

| Parameter | CAS No. | LOQ | Result | Units | Flag |
|---|---|---|---|---|---|
| Aroclor-1016 | 12674-11-2 | 64.7 | <64.7 | ug/kg dry | |
| Aroclor-1221 | 11104-28-2 | 64.7 | <64.7 | ug/kg dry | |
| Aroclor-1232 | 11141-16-5 | 64.7 | <64.7 | ug/kg dry | |
| Aroclor-1242 | 53469-21-9 | 64.7 | <64.7 | ug/kg dry | |
| Aroclor-1248 | 12672-29-6 | 64.7 | <64.7 | ug/kg dry | |
| Aroclor-1254 | 11097-69-1 | 64.7 | <64.7 | ug/kg dry | |
| Aroclor-1260 | 11096-82-5 | 64.7 | <64.7 | ug/kg dry | |
| Aroclor-1262 | 37324-23-5 | 64.7 | <64.7 | ug/kg dry | |
| Aroclor-1268 | 11100-14-4 | 64.7 | <64.7 | ug/kg dry | |

| Surrogate | CAS No. | % Recovery | Rec. Limits | Flag |
|---|---|---|---|---|
| Decachlorobiphenyl | 2051-24-3 | 69 | 47.4-148 | |
| Tetrachloro-m-xylene | 877-09-8 | 65 | 51.4-150 | |

| Internal Standard | CAS No. | % Recovery | Rec. Limits | Flag |
|---|---|---|---|---|
| 1-Bromo-2-Nitrobenzene | 108-31-6 | 97 | 50-200 | |

Date Prepared: 03/10/2023

Preparation Method: EPA 3545 A

Date Analyzed: 03/16/2023

Analytical Method: EPA 8082 A

| | |
|---|---|
| Client: Let It Grow Inc | Client ID: 151 South St, Manorville, NY |
| Date (Time) Collected: 03/08/2023 13:42 | Sample ID: Soil - Comp B |
| Date (Time) Received: 03/08/2023 16:25 | Laboratory ID: 3030828-02 % Solid:77.267 |
| Matrix: Soil | ELAP: #11693 |

## Herbicide Analysis

| Parameter | CAS No. | LOQ | Result | Units | Flag |
|---|---|---|---|---|---|
| 2,4,5-TP (Silvex) | 93-72-1 | 32 | <32 | ug/kg dry | |

Date Prepared: 03/10/2023

Preparation Method: EPA 3545 A

Date Analyzed: 03/21/2023

Analytical Method: EPA 8151 A

| | |
|---|---|
| Client: Let It Grow Inc | Client ID: 151 South St, Manorville, NY |
| Date (Time) Collected: 03/08/2023 13:42 | Sample ID: Soil - Comp B |
| Date (Time) Received: 03/08/2023 16:25 | Laboratory ID: 3030828-02 % Solid:77.267 |
| Matrix: Soil | ELAP: #11693 |

## Total Metals Analysis

| Parameter | Date Analyzed | Method | LOQ | Result | Units | Flag |
|---|---|---|---|---|---|---|
| Arsenic | 03/14/2023 | EPA 6010 D | 2.00 | 3.03 | mg/kg dry | |
| Barium | 03/14/2023 | EPA 6010 D | 2.00 | 41.7 | mg/kg dry | |
| Beryllium | 03/14/2023 | EPA 6010 D | 0.80 | <0.80 | mg/kg dry | |
| Cadmium | 03/14/2023 | EPA 6010 D | 2.00 | <2.00 | mg/kg dry | |
| Chromium | 03/14/2023 | EPA 6010 D | 2.00 | 11.1 | mg/kg dry | |
| Copper | 03/14/2023 | EPA 6010 D | 2.00 | 18.5 | mg/kg dry | |
| Lead | 03/14/2023 | EPA 6010 D | 2.00 | 30.8 | mg/kg dry | |
| Manganese | 03/14/2023 | EPA 6010 D | 2.00 | 160 | mg/kg dry | |
| Nickel | 03/14/2023 | EPA 6010 D | 2.00 | 8.15 | mg/kg dry | |
| Selenium | 03/14/2023 | EPA 6010 D | 3.99 | <3.99 | mg/kg dry | |
| Silver | 03/14/2023 | EPA 6010 D | 0.50 | <0.50 | mg/kg dry | |
| Zinc | 03/14/2023 | EPA 6010 D | 2.00 | 44.9 | mg/kg dry | |

Date Prepared: 03/09/2023 Preparation Method: EPA 3050B

| Parameter | Date Analyzed | Method | LOQ | Result | Units | Flag |
|---|---|---|---|---|---|---|
| Hexavalent Chromium | 03/15/2023 | EPA 7196 A | 0.658 | 3.03 | mg/kg dry | |

Date Prepared: 03/14/2023 Preparation Method: EPA 3060A

| Parameter | Date Analyzed | Method | LOQ | Result | Units | Flag |
|---|---|---|---|---|---|---|
| Mercury | 03/13/2023 | EPA 7471 B | 0.01 | 0.08 | mg/kg dry | |

Date Prepared: 03/09/2023 Preparation Method: EPA 7471 B

| Parameter | Date Analyzed | Method | LOQ | Result | Units | Flag |
|---|---|---|---|---|---|---|
| Cyanide | 03/21/2023 | EPA 9014 | 0.26 | <0.26 | mg/kg dry | |

Date Prepared: 03/16/2023 Preparation Method: Distillation Prep

| | |
|---|---|
| Client: Let It Grow Inc | Client ID: 151 South St, Manorville, NY |
| Date (Time) Collected: 03/08/2023 13:45 | Sample ID: Soil - Grab 1 |
| Date (Time) Received: 03/08/2023 16:25 | Laboratory ID: 3030828-03 % Solid:81.689 |
| Matrix: Soil | ELAP: #11693 |

## Volatiles Low Level Analysis

| Parameter | CAS No. | LOQ | Result | Units | Flag |
|---|---|---|---|---|---|
| 1,1,1-Trichloroethane | 71-55-6 | 5.91 | <5.91 | ug/kg dry | |
| 1,1-Dichloroethane | 75-34-3 | 5.91 | <5.91 | ug/kg dry | |
| 1,1-Dichloroethene | 75-35-4 | 5.91 | <5.91 | ug/kg dry | |
| 1,2,4-Trimethylbenzene | 95-63-6 | 5.91 | <5.91 | ug/kg dry | 4.K |
| 1,2-Dichlorobenzene | 95-50-1 | 5.91 | <5.91 | ug/kg dry | |
| 1,2-Dichloroethane | 107-06-2 | 5.91 | <5.91 | ug/kg dry | |
| 1,3,5-Trimethylbenzene | 108-67-8 | 5.91 | <5.91 | ug/kg dry | |
| 1,3-Dichlorobenzene | 541-73-1 | 5.91 | <5.91 | ug/kg dry | |
| 1,4-Dichlorobenzene | 106-46-7 | 5.91 | <5.91 | ug/kg dry | |
| 1,4-Dioxane | 123-91-1 | 29.5 | <29.5 | ug/kg dry | |
| Acetone | 67-64-1 | 23.6 | <23.6 | ug/kg dry | |
| Benzene | 71-43-2 | 5.91 | <5.91 | ug/kg dry | |
| Carbon Tetrachloride | 56-23-5 | 5.91 | <5.91 | ug/kg dry | |
| Chlorobenzene | 108-90-7 | 5.91 | <5.91 | ug/kg dry | |
| Chloroform | 67-66-3 | 5.91 | <5.91 | ug/kg dry | |
| cis-1,2-Dichloroethene | 156-59-2 | 5.91 | <5.91 | ug/kg dry | |
| Ethylbenzene | 100-41-4 | 5.91 | <5.91 | ug/kg dry | |
| m,p-Xylenes | 108-38-3/106-42-3 | 11.8 | <11.8 | ug/kg dry | |
| Methyl Ethyl Ketone (2-Butanone) | 78-93-3 | 11.8 | <11.8 | ug/kg dry | |
| Methylene Chloride | 75-09-2 | 5.91 | <5.91 | ug/kg dry | |
| Methyl-tert-Butyl Ether | 1634-04-4 | 5.91 | <5.91 | ug/kg dry | |
| n-Butylbenzene | 104-51-8 | 5.91 | <5.91 | ug/kg dry | 4.K |
| n-Propylbenzene | 103-65-1 | 5.91 | <5.91 | ug/kg dry | |
| o-Xylene | 95-47-6 | 5.91 | <5.91 | ug/kg dry | |
| sec-Butylbenzene | 135-98-8 | 5.91 | <5.91 | ug/kg dry | 4.K |
| tert-Butylbenzene | 98-06-6 | 5.91 | <5.91 | ug/kg dry | |
| Tetrachloroethene | 127-18-4 | 5.91 | <5.91 | ug/kg dry | |
| Toluene | 108-88-3 | 5.91 | <5.91 | ug/kg dry | |
| trans-1,2-Dichloroethene | 156-60-5 | 5.91 | <5.91 | ug/kg dry | |
| Trichloroethene | 79-01-6 | 5.91 | <5.91 | ug/kg dry | |

| | |
|---|---|
| Client: Let It Grow Inc | Client ID: 151 South St, Manorville, NY |
| Date (Time) Collected: 03/08/2023 13:45 | Sample ID: Soil - Grab 1 |
| Date (Time) Received: 03/08/2023 16:25 | Laboratory ID: 3030828-03 % Solid:81.689 |
| Matrix: Soil | ELAP: #11693 |

| Parameter | CAS No. | LOQ | Result | Units | Flag |
|---|---|---|---|---|---|
| Vinyl chloride | 75-01-4 | 5.91 | <5.91 | ug/kg dry | |

| Surrogate | CAS No. | % Recovery | Rec. Limits | Flag |
|---|---|---|---|---|
| 1,2-Dichloroethane-d4 | 10706-07-0 | 107 | 72.1-142 | |
| 4-Bromofluorobenzene | 460-00-4 | 111 | 76.1-131 | |
| Dibromofluoromethane | 1868-53-7 | 94 | 77.6-135 | |
| Toluene-d8 | 2037-26-5 | 106 | 77.8-124 | |

| Internal Standard | CAS No. | % Recovery | Rec. Limits | Flag |
|---|---|---|---|---|
| 1,4-Dichlorobenzene-d4 | 3855-82-1 | 64 | 50-200 | |
| 1,4-Difluorobenzene | 540-36-3 | 86 | 50-200 | |
| Chlorobenzene-d5 | 3114-55-4 | 78 | 50-200 | |
| Pentafluorobenzene | 363-72-4 | 87 | 50-200 | |

Date Prepared: 03/09/2023

Preparation Method: EPA 5035A-L

Date Analyzed: 03/09/2023

Analytical Method: EPA 8260 D

| | |
|---|---|
| Client: Let It Grow Inc | Client ID: 151 South St, Manorville, NY |
| Date (Time) Collected: 03/08/2023 13:47 | Sample ID: Soil - Grab 2 |
| Date (Time) Received: 03/08/2023 16:25 | Laboratory ID: 3030828-04 % Solid:78.573 |
| Matrix: Soil | ELAP: #11693 |

## Volatiles Low Level Analysis

| Parameter | CAS No. | LOQ | Result | Units | Flag |
|---|---|---|---|---|---|
| 1,1,1-Trichloroethane | 71-55-6 | 6.28 | <6.28 | ug/kg dry | |
| 1,1-Dichloroethane | 75-34-3 | 6.28 | <6.28 | ug/kg dry | |
| 1,1-Dichloroethene | 75-35-4 | 6.28 | <6.28 | ug/kg dry | |
| 1,2,4-Trimethylbenzene | 95-63-6 | 6.28 | <6.28 | ug/kg dry | 4.K |
| 1,2-Dichlorobenzene | 95-50-1 | 6.28 | <6.28 | ug/kg dry | |
| 1,2-Dichloroethane | 107-06-2 | 6.28 | <6.28 | ug/kg dry | |
| 1,3,5-Trimethylbenzene | 108-67-8 | 6.28 | <6.28 | ug/kg dry | |
| 1,3-Dichlorobenzene | 541-73-1 | 6.28 | <6.28 | ug/kg dry | |
| 1,4-Dichlorobenzene | 106-46-7 | 6.28 | <6.28 | ug/kg dry | |
| 1,4-Dioxane | 123-91-1 | 31.4 | <31.4 | ug/kg dry | |
| Acetone | 67-64-1 | 25.1 | <25.1 | ug/kg dry | |
| Benzene | 71-43-2 | 6.28 | <6.28 | ug/kg dry | |
| Carbon Tetrachloride | 56-23-5 | 6.28 | <6.28 | ug/kg dry | |
| Chlorobenzene | 108-90-7 | 6.28 | <6.28 | ug/kg dry | |
| Chloroform | 67-66-3 | 6.28 | <6.28 | ug/kg dry | |
| cis-1,2-Dichloroethene | 156-59-2 | 6.28 | <6.28 | ug/kg dry | |
| Ethylbenzene | 100-41-4 | 6.28 | <6.28 | ug/kg dry | |
| m,p-Xylenes | 108-38-3/106-42-3 | 12.6 | <12.6 | ug/kg dry | |
| Methyl Ethyl Ketone (2-Butanone) | 78-93-3 | 12.6 | <12.6 | ug/kg dry | |
| Methylene Chloride | 75-09-2 | 6.28 | <6.28 | ug/kg dry | |
| Methyl-tert-Butyl Ether | 1634-04-4 | 6.28 | <6.28 | ug/kg dry | |
| n-Butylbenzene | 104-51-8 | 6.28 | <6.28 | ug/kg dry | 4.K |
| n-Propylbenzene | 103-65-1 | 6.28 | <6.28 | ug/kg dry | |
| o-Xylene | 95-47-6 | 6.28 | <6.28 | ug/kg dry | |
| sec-Butylbenzene | 135-98-8 | 6.28 | <6.28 | ug/kg dry | 4.K |
| tert-Butylbenzene | 98-06-6 | 6.28 | <6.28 | ug/kg dry | |
| Tetrachloroethene | 127-18-4 | 6.28 | <6.28 | ug/kg dry | |
| Toluene | 108-88-3 | 6.28 | <6.28 | ug/kg dry | |
| trans-1,2-Dichloroethene | 156-60-5 | 6.28 | <6.28 | ug/kg dry | |
| Trichloroethene | 79-01-6 | 6.28 | <6.28 | ug/kg dry | |

| | |
|---|---|
| Client: Let It Grow Inc | Client ID: 151 South St, Manorville, NY |
| Date (Time) Collected: 03/08/2023 13:47 | Sample ID: Soil - Grab 2 |
| Date (Time) Received: 03/08/2023 16:25 | Laboratory ID: 3030828-04 % Solid:78.573 |
| Matrix: Soil | ELAP: #11693 |

| Parameter | CAS No. | LOQ | Result | Units | Flag |
|---|---|---|---|---|---|
| Vinyl chloride | 75-01-4 | 6.28 | <6.28 | ug/kg dry | |

| Surrogate | CAS No. | % Recovery | Rec. Limits | Flag |
|---|---|---|---|---|
| 1,2-Dichloroethane-d4 | 10706-07-0 | 105 | 72.1-142 | |
| 4-Bromofluorobenzene | 460-00-4 | 115 | 76.1-131 | |
| Dibromofluoromethane | 1868-53-7 | 94 | 77.6-135 | |
| Toluene-d8 | 2037-26-5 | 106 | 77.8-124 | |

| Internal Standard | CAS No. | % Recovery | Rec. Limits | Flag |
|---|---|---|---|---|
| 1,4-Dichlorobenzene-d4 | 3855-82-1 | 63 | 50-200 | |
| 1,4-Difluorobenzene | 540-36-3 | 88 | 50-200 | |
| Chlorobenzene-d5 | 3114-55-4 | 78 | 50-200 | |
| Pentafluorobenzene | 363-72-4 | 90 | 50-200 | |

Date Prepared: 03/09/2023

Preparation Method: EPA 5035A-L

Date Analyzed: 03/09/2023

Analytical Method: EPA 8260 D

| | |
|---|---|
| Client: Let It Grow Inc | Client ID: 151 South St, Manorville, NY |
| Date (Time) Collected: 03/08/2023 13:50 | Sample ID: Soil - Grab 3 |
| Date (Time) Received: 03/08/2023 16:25 | Laboratory ID: 3030828-05 % Solid:86.203 |
| Matrix: Soil | ELAP: #11693 |

## Volatiles Low Level Analysis

| Parameter | CAS No. | LOQ | Result | Units | Flag |
|---|---|---|---|---|---|
| 1,1,1-Trichloroethane | 71-55-6 | 5.53 | <5.53 | ug/kg dry | |
| 1,1-Dichloroethane | 75-34-3 | 5.53 | <5.53 | ug/kg dry | |
| 1,1-Dichloroethene | 75-35-4 | 5.53 | <5.53 | ug/kg dry | |
| 1,2,4-Trimethylbenzene | 95-63-6 | 5.53 | <5.53 | ug/kg dry | 4.K |
| 1,2-Dichlorobenzene | 95-50-1 | 5.53 | <5.53 | ug/kg dry | |
| 1,2-Dichloroethane | 107-06-2 | 5.53 | <5.53 | ug/kg dry | |
| 1,3,5-Trimethylbenzene | 108-67-8 | 5.53 | <5.53 | ug/kg dry | |
| 1,3-Dichlorobenzene | 541-73-1 | 5.53 | <5.53 | ug/kg dry | |
| 1,4-Dichlorobenzene | 106-46-7 | 5.53 | <5.53 | ug/kg dry | |
| 1,4-Dioxane | 123-91-1 | 27.7 | <27.7 | ug/kg dry | |
| Acetone | 67-64-1 | 22.1 | 22.4 | ug/kg dry | |
| Benzene | 71-43-2 | 5.53 | <5.53 | ug/kg dry | |
| Carbon Tetrachloride | 56-23-5 | 5.53 | <5.53 | ug/kg dry | |
| Chlorobenzene | 108-90-7 | 5.53 | <5.53 | ug/kg dry | |
| Chloroform | 67-66-3 | 5.53 | <5.53 | ug/kg dry | |
| cis-1,2-Dichloroethene | 156-59-2 | 5.53 | <5.53 | ug/kg dry | |
| Ethylbenzene | 100-41-4 | 5.53 | <5.53 | ug/kg dry | |
| m,p-Xylenes | 108-38-3/106-42-3 | 11.1 | <11.1 | ug/kg dry | |
| Methyl Ethyl Ketone (2-Butanone) | 78-93-3 | 11.1 | <11.1 | ug/kg dry | |
| Methylene Chloride | 75-09-2 | 5.53 | <5.53 | ug/kg dry | |
| Methyl-tert-Butyl Ether | 1634-04-4 | 5.53 | <5.53 | ug/kg dry | |
| n-Butylbenzene | 104-51-8 | 5.53 | <5.53 | ug/kg dry | 4.K |
| n-Propylbenzene | 103-65-1 | 5.53 | <5.53 | ug/kg dry | |
| o-Xylene | 95-47-6 | 5.53 | <5.53 | ug/kg dry | |
| sec-Butylbenzene | 135-98-8 | 5.53 | <5.53 | ug/kg dry | 4.K |
| tert-Butylbenzene | 98-06-6 | 5.53 | <5.53 | ug/kg dry | |
| Tetrachloroethene | 127-18-4 | 5.53 | <5.53 | ug/kg dry | |
| Toluene | 108-88-3 | 5.53 | <5.53 | ug/kg dry | |
| trans-1,2-Dichloroethene | 156-60-5 | 5.53 | <5.53 | ug/kg dry | |
| Trichloroethene | 79-01-6 | 5.53 | <5.53 | ug/kg dry | |

| | |
|---|---|
| Client: Let It Grow Inc | Client ID: 151 South St, Manorville, NY |
| Date (Time) Collected: 03/08/2023 13:50 | Sample ID: Soil - Grab 3 |
| Date (Time) Received: 03/08/2023 16:25 | Laboratory ID: 3030828-05 % Solid:86.203 |
| Matrix: Soil | ELAP: #11693 |

| Parameter | CAS No. | LOQ | Result | Units | Flag |
|---|---|---|---|---|---|
| Vinyl chloride | 75-01-4 | 5.53 | <5.53 | ug/kg dry | |

| Surrogate | CAS No. | % Recovery | Rec. Limits | Flag |
|---|---|---|---|---|
| 1,2-Dichloroethane-d4 | 10706-07-0 | 109 | 72.1-142 | |
| 4-Bromofluorobenzene | 460-00-4 | 109 | 76.1-131 | |
| Dibromofluoromethane | 1868-53-7 | 98 | 77.6-135 | |
| Toluene-d8 | 2037-26-5 | 100 | 77.8-124 | |

| Internal Standard | CAS No. | % Recovery | Rec. Limits | Flag |
|---|---|---|---|---|
| 1,4-Dichlorobenzene-d4 | 3855-82-1 | 66 | 50-200 | |
| 1,4-Difluorobenzene | 540-36-3 | 84 | 50-200 | |
| Chlorobenzene-d5 | 3114-55-4 | 80 | 50-200 | |
| Pentafluorobenzene | 363-72-4 | 85 | 50-200 | |

Date Prepared: 03/09/2023

Preparation Method: EPA 5035A-L

Date Analyzed: 03/09/2023

Analytical Method: EPA 8260 D

| | |
|---|---|
| Client: Let It Grow Inc | Client ID: 151 South St, Manorville, NY |
| Date (Time) Collected: 03/08/2023 13:53 | Sample ID: Soil - Grab 4 |
| Date (Time) Received: 03/08/2023 16:25 | Laboratory ID: 3030828-06 % Solid:84.326 |
| Matrix: Soil | ELAP: #11693 |

## Volatiles Low Level Analysis

| Parameter | CAS No. | LOQ | Result | Units | Flag |
|---|---|---|---|---|---|
| 1,1,1-Trichloroethane | 71-55-6 | 5.76 | <5.76 | ug/kg dry | |
| 1,1-Dichloroethane | 75-34-3 | 5.76 | <5.76 | ug/kg dry | |
| 1,1-Dichloroethene | 75-35-4 | 5.76 | <5.76 | ug/kg dry | |
| 1,2,4-Trimethylbenzene | 95-63-6 | 5.76 | <5.76 | ug/kg dry | 4.K |
| 1,2-Dichlorobenzene | 95-50-1 | 5.76 | <5.76 | ug/kg dry | |
| 1,2-Dichloroethane | 107-06-2 | 5.76 | <5.76 | ug/kg dry | |
| 1,3,5-Trimethylbenzene | 108-67-8 | 5.76 | <5.76 | ug/kg dry | |
| 1,3-Dichlorobenzene | 541-73-1 | 5.76 | <5.76 | ug/kg dry | |
| 1,4-Dichlorobenzene | 106-46-7 | 5.76 | <5.76 | ug/kg dry | |
| 1,4-Dioxane | 123-91-1 | 28.8 | <28.8 | ug/kg dry | |
| Acetone | 67-64-1 | 23.0 | <23.0 | ug/kg dry | |
| Benzene | 71-43-2 | 5.76 | <5.76 | ug/kg dry | |
| Carbon Tetrachloride | 56-23-5 | 5.76 | <5.76 | ug/kg dry | |
| Chlorobenzene | 108-90-7 | 5.76 | <5.76 | ug/kg dry | |
| Chloroform | 67-66-3 | 5.76 | <5.76 | ug/kg dry | |
| cis-1,2-Dichloroethene | 156-59-2 | 5.76 | <5.76 | ug/kg dry | |
| Ethylbenzene | 100-41-4 | 5.76 | <5.76 | ug/kg dry | |
| m,p-Xylenes | 108-38-3/106-42-3 | 11.5 | <11.5 | ug/kg dry | |
| Methyl Ethyl Ketone (2-Butanone) | 78-93-3 | 11.5 | <11.5 | ug/kg dry | |
| Methylene Chloride | 75-09-2 | 5.76 | <5.76 | ug/kg dry | |
| Methyl-tert-Butyl Ether | 1634-04-4 | 5.76 | <5.76 | ug/kg dry | |
| n-Butylbenzene | 104-51-8 | 5.76 | <5.76 | ug/kg dry | 4.K |
| n-Propylbenzene | 103-65-1 | 5.76 | <5.76 | ug/kg dry | |
| o-Xylene | 95-47-6 | 5.76 | <5.76 | ug/kg dry | |
| sec-Butylbenzene | 135-98-8 | 5.76 | <5.76 | ug/kg dry | 4.K |
| tert-Butylbenzene | 98-06-6 | 5.76 | <5.76 | ug/kg dry | |
| Tetrachloroethene | 127-18-4 | 5.76 | <5.76 | ug/kg dry | |
| Toluene | 108-88-3 | 5.76 | <5.76 | ug/kg dry | |
| trans-1,2-Dichloroethene | 156-60-5 | 5.76 | <5.76 | ug/kg dry | |
| Trichloroethene | 79-01-6 | 5.76 | <5.76 | ug/kg dry | |

| | |
|---|---|
| Client: Let It Grow Inc | Client ID: 151 South St, Manorville, NY |
| Date (Time) Collected: 03/08/2023 13:53 | Sample ID: Soil - Grab 4 |
| Date (Time) Received: 03/08/2023 16:25 | Laboratory ID: 3030828-06 % Solid:84.326 |
| Matrix: Soil | ELAP: #11693 |

| Parameter | CAS No. | LOQ | Result | Units | Flag |
|---|---|---|---|---|---|
| Vinyl chloride | 75-01-4 | 5.76 | <5.76 | ug/kg dry | |

| Surrogate | CAS No. | % Recovery | Rec. Limits | Flag |
|---|---|---|---|---|
| 1,2-Dichloroethane-d4 | 10706-07-0 | 85 | 72.1-142 | |
| 4-Bromofluorobenzene | 460-00-4 | 123 | 76.1-131 | |
| Dibromofluoromethane | 1868-53-7 | 83 | 77.6-135 | |
| Toluene-d8 | 2037-26-5 | 114 | 77.8-124 | |

| Internal Standard | CAS No. | % Recovery | Rec. Limits | Flag |
|---|---|---|---|---|
| 1,4-Dichlorobenzene-d4 | 3855-82-1 | 47 | 50-200 | 4.P |
| 1,4-Difluorobenzene | 540-36-3 | 85 | 50-200 | |
| Chlorobenzene-d5 | 3114-55-4 | 69 | 50-200 | |
| Pentafluorobenzene | 363-72-4 | 92 | 50-200 | |

Date Prepared: 03/09/2023

Preparation Method: EPA 5035A-L

Date Analyzed: 03/09/2023

Analytical Method: EPA 8260 D

| | |
|---|---|
| Client: Let It Grow Inc | Client ID: 151 South St, Manorville, NY |
| Date (Time) Collected: 03/08/2023 13:56 | Sample ID: Soil - Grab 5 |
| Date (Time) Received: 03/08/2023 16:25 | Laboratory ID: 3030828-07 % Solid:78.068 |
| Matrix: Soil | ELAP: #11693 |

## Volatiles Low Level Analysis

| Parameter | CAS No. | LOQ | Result | Units | Flag |
|---|---|---|---|---|---|
| 1,1,1-Trichloroethane | 71-55-6 | 6.18 | <6.18 | ug/kg dry | |
| 1,1-Dichloroethane | 75-34-3 | 6.18 | <6.18 | ug/kg dry | |
| 1,1-Dichloroethene | 75-35-4 | 6.18 | <6.18 | ug/kg dry | |
| 1,2,4-Trimethylbenzene | 95-63-6 | 6.18 | <6.18 | ug/kg dry | 4.K |
| 1,2-Dichlorobenzene | 95-50-1 | 6.18 | <6.18 | ug/kg dry | |
| 1,2-Dichloroethane | 107-06-2 | 6.18 | <6.18 | ug/kg dry | |
| 1,3,5-Trimethylbenzene | 108-67-8 | 6.18 | <6.18 | ug/kg dry | |
| 1,3-Dichlorobenzene | 541-73-1 | 6.18 | <6.18 | ug/kg dry | |
| 1,4-Dichlorobenzene | 106-46-7 | 6.18 | <6.18 | ug/kg dry | |
| 1,4-Dioxane | 123-91-1 | 30.9 | <30.9 | ug/kg dry | |
| Acetone | 67-64-1 | 24.7 | 25.8 | ug/kg dry | |
| Benzene | 71-43-2 | 6.18 | <6.18 | ug/kg dry | |
| Carbon Tetrachloride | 56-23-5 | 6.18 | <6.18 | ug/kg dry | |
| Chlorobenzene | 108-90-7 | 6.18 | <6.18 | ug/kg dry | |
| Chloroform | 67-66-3 | 6.18 | <6.18 | ug/kg dry | |
| cis-1,2-Dichloroethene | 156-59-2 | 6.18 | <6.18 | ug/kg dry | |
| Ethylbenzene | 100-41-4 | 6.18 | <6.18 | ug/kg dry | |
| m,p-Xylenes | 108-38-3/106-42-3 | 12.4 | <12.4 | ug/kg dry | |
| Methyl Ethyl Ketone (2-Butanone) | 78-93-3 | 12.4 | <12.4 | ug/kg dry | |
| Methylene Chloride | 75-09-2 | 6.18 | <6.18 | ug/kg dry | |
| Methyl-tert-Butyl Ether | 1634-04-4 | 6.18 | <6.18 | ug/kg dry | |
| n-Butylbenzene | 104-51-8 | 6.18 | <6.18 | ug/kg dry | 4.K |
| n-Propylbenzene | 103-65-1 | 6.18 | <6.18 | ug/kg dry | |
| o-Xylene | 95-47-6 | 6.18 | <6.18 | ug/kg dry | |
| sec-Butylbenzene | 135-98-8 | 6.18 | <6.18 | ug/kg dry | 4.K |
| tert-Butylbenzene | 98-06-6 | 6.18 | <6.18 | ug/kg dry | |
| Tetrachloroethene | 127-18-4 | 6.18 | <6.18 | ug/kg dry | |
| Toluene | 108-88-3 | 6.18 | <6.18 | ug/kg dry | |
| trans-1,2-Dichloroethene | 156-60-5 | 6.18 | <6.18 | ug/kg dry | |
| Trichloroethene | 79-01-6 | 6.18 | <6.18 | ug/kg dry | |

| | |
|---|---|
| Client: Let It Grow Inc | Client ID: 151 South St, Manorville, NY |
| Date (Time) Collected: 03/08/2023 13:56 | Sample ID: Soil - Grab 5 |
| Date (Time) Received: 03/08/2023 16:25 | Laboratory ID: 3030828-07 % Solid:78.068 |
| Matrix: Soil | ELAP: #11693 |

| Parameter | CAS No. | LOQ | Result | Units | Flag |
|---|---|---|---|---|---|
| Vinyl chloride | 75-01-4 | 6.18 | <6.18 | ug/kg dry | |

| Surrogate | CAS No. | % Recovery | Rec. Limits | Flag |
|---|---|---|---|---|
| 1,2-Dichloroethane-d4 | 10706-07-0 | 100 | 72.1-142 | |
| 4-Bromofluorobenzene | 460-00-4 | 119 | 76.1-131 | |
| Dibromofluoromethane | 1868-53-7 | 93 | 77.6-135 | |
| Toluene-d8 | 2037-26-5 | 110 | 77.8-124 | |

| Internal Standard | CAS No. | % Recovery | Rec. Limits | Flag |
|---|---|---|---|---|
| 1,4-Dichlorobenzene-d4 | 3855-82-1 | 54 | 50-200 | |
| 1,4-Difluorobenzene | 540-36-3 | 85 | 50-200 | |
| Chlorobenzene-d5 | 3114-55-4 | 74 | 50-200 | |
| Pentafluorobenzene | 363-72-4 | 88 | 50-200 | |

Date Prepared: 03/09/2023

Preparation Method: EPA 5035A-L

Date Analyzed: 03/09/2023

Analytical Method: EPA 8260 D

| | |
|---|---|
| Client: Let It Grow Inc | Client ID: 151 South St, Manorville, NY |
| Date (Time) Collected: 03/08/2023 13:59 | Sample ID: Soil - Grab 6 |
| Date (Time) Received: 03/08/2023 16:25 | Laboratory ID: 3030828-08 % Solid:76.793 |
| Matrix: Soil | ELAP: #11693 |

## Volatiles Low Level Analysis

| Parameter | CAS No. | LOQ | Result | Units | Flag |
|---|---|---|---|---|---|
| 1,1,1-Trichloroethane | 71-55-6 | 6.51 | <6.51 | ug/kg dry | |
| 1,1-Dichloroethane | 75-34-3 | 6.51 | <6.51 | ug/kg dry | |
| 1,1-Dichloroethene | 75-35-4 | 6.51 | <6.51 | ug/kg dry | |
| 1,2,4-Trimethylbenzene | 95-63-6 | 6.51 | <6.51 | ug/kg dry | 4.K |
| 1,2-Dichlorobenzene | 95-50-1 | 6.51 | <6.51 | ug/kg dry | |
| 1,2-Dichloroethane | 107-06-2 | 6.51 | <6.51 | ug/kg dry | |
| 1,3,5-Trimethylbenzene | 108-67-8 | 6.51 | <6.51 | ug/kg dry | |
| 1,3-Dichlorobenzene | 541-73-1 | 6.51 | <6.51 | ug/kg dry | |
| 1,4-Dichlorobenzene | 106-46-7 | 6.51 | <6.51 | ug/kg dry | |
| 1,4-Dioxane | 123-91-1 | 32.6 | <32.6 | ug/kg dry | |
| Acetone | 67-64-1 | 26.0 | <26.0 | ug/kg dry | |
| Benzene | 71-43-2 | 6.51 | <6.51 | ug/kg dry | |
| Carbon Tetrachloride | 56-23-5 | 6.51 | <6.51 | ug/kg dry | |
| Chlorobenzene | 108-90-7 | 6.51 | <6.51 | ug/kg dry | |
| Chloroform | 67-66-3 | 6.51 | <6.51 | ug/kg dry | |
| cis-1,2-Dichloroethene | 156-59-2 | 6.51 | <6.51 | ug/kg dry | |
| Ethylbenzene | 100-41-4 | 6.51 | <6.51 | ug/kg dry | |
| m,p-Xylenes | 108-38-3/106-42-3 | 13.0 | <13.0 | ug/kg dry | |
| Methyl Ethyl Ketone (2-Butanone) | 78-93-3 | 13.0 | <13.0 | ug/kg dry | |
| Methylene Chloride | 75-09-2 | 6.51 | <6.51 | ug/kg dry | |
| Methyl-tert-Butyl Ether | 1634-04-4 | 6.51 | <6.51 | ug/kg dry | |
| n-Butylbenzene | 104-51-8 | 6.51 | <6.51 | ug/kg dry | 4.K |
| n-Propylbenzene | 103-65-1 | 6.51 | <6.51 | ug/kg dry | |
| o-Xylene | 95-47-6 | 6.51 | <6.51 | ug/kg dry | |
| sec-Butylbenzene | 135-98-8 | 6.51 | <6.51 | ug/kg dry | 4.K |
| tert-Butylbenzene | 98-06-6 | 6.51 | <6.51 | ug/kg dry | |
| Tetrachloroethene | 127-18-4 | 6.51 | <6.51 | ug/kg dry | |
| Toluene | 108-88-3 | 6.51 | <6.51 | ug/kg dry | |
| trans-1,2-Dichloroethene | 156-60-5 | 6.51 | <6.51 | ug/kg dry | |
| Trichloroethene | 79-01-6 | 6.51 | <6.51 | ug/kg dry | |

| | |
|---|---|
| Client: Let It Grow Inc | Client ID: 151 South St, Manorville, NY |
| Date (Time) Collected: 03/08/2023 13:59 | Sample ID: Soil - Grab 6 |
| Date (Time) Received: 03/08/2023 16:25 | Laboratory ID: 3030828-08 % Solid:76.793 |
| Matrix: Soil | ELAP: #11693 |

| Parameter | CAS No. | LOQ | Result | Units | Flag |
|---|---|---|---|---|---|
| Vinyl chloride | 75-01-4 | 6.51 | <6.51 | ug/kg dry | |

| Surrogate | CAS No. | % Recovery | Rec. Limits | Flag |
|---|---|---|---|---|
| 1,2-Dichloroethane-d4 | 10706-07-0 | 105 | 72.1-142 | |
| 4-Bromofluorobenzene | 460-00-4 | 116 | 76.1-131 | |
| Dibromofluoromethane | 1868-53-7 | 99 | 77.6-135 | |
| Toluene-d8 | 2037-26-5 | 106 | 77.8-124 | |

| Internal Standard | CAS No. | % Recovery | Rec. Limits | Flag |
|---|---|---|---|---|
| 1,4-Dichlorobenzene-d4 | 3855-82-1 | 57 | 50-200 | |
| 1,4-Difluorobenzene | 540-36-3 | 81 | 50-200 | |
| Chlorobenzene-d5 | 3114-55-4 | 73 | 50-200 | |
| Pentafluorobenzene | 363-72-4 | 82 | 50-200 | |

Date Prepared: 03/09/2023

Preparation Method: EPA 5035A-L

Date Analyzed: 03/09/2023

Analytical Method: EPA 8260 D

| | |
|---|---|
| Client: Let It Grow Inc | Client ID: 151 South St, Manorville, NY |
| Date (Time) Collected: 03/08/2023 14:03 | Sample ID: Soil - Grab 7 |
| Date (Time) Received: 03/08/2023 16:25 | Laboratory ID: 3030828-09 % Solid:80.684 |
| Matrix: Soil | ELAP: #11693 |

## Volatiles Low Level Analysis

| Parameter | CAS No. | LOQ | Result | Units | Flag |
|---|---|---|---|---|---|
| 1,1,1-Trichloroethane | 71-55-6 | 6.06 | <6.06 | ug/kg dry | |
| 1,1-Dichloroethane | 75-34-3 | 6.06 | <6.06 | ug/kg dry | |
| 1,1-Dichloroethene | 75-35-4 | 6.06 | <6.06 | ug/kg dry | |
| 1,2,4-Trimethylbenzene | 95-63-6 | 6.06 | <6.06 | ug/kg dry | 4.K |
| 1,2-Dichlorobenzene | 95-50-1 | 6.06 | <6.06 | ug/kg dry | |
| 1,2-Dichloroethane | 107-06-2 | 6.06 | <6.06 | ug/kg dry | |
| 1,3,5-Trimethylbenzene | 108-67-8 | 6.06 | <6.06 | ug/kg dry | |
| 1,3-Dichlorobenzene | 541-73-1 | 6.06 | <6.06 | ug/kg dry | |
| 1,4-Dichlorobenzene | 106-46-7 | 6.06 | <6.06 | ug/kg dry | |
| 1,4-Dioxane | 123-91-1 | 30.3 | <30.3 | ug/kg dry | |
| Acetone | 67-64-1 | 24.3 | 32.3 | ug/kg dry | |
| Benzene | 71-43-2 | 6.06 | <6.06 | ug/kg dry | |
| Carbon Tetrachloride | 56-23-5 | 6.06 | <6.06 | ug/kg dry | |
| Chlorobenzene | 108-90-7 | 6.06 | <6.06 | ug/kg dry | |
| Chloroform | 67-66-3 | 6.06 | <6.06 | ug/kg dry | |
| cis-1,2-Dichloroethene | 156-59-2 | 6.06 | <6.06 | ug/kg dry | |
| Ethylbenzene | 100-41-4 | 6.06 | <6.06 | ug/kg dry | |
| m,p-Xylenes | 108-38-3/106-42-3 | 12.1 | <12.1 | ug/kg dry | |
| Methyl Ethyl Ketone (2-Butanone) | 78-93-3 | 12.1 | <12.1 | ug/kg dry | |
| Methylene Chloride | 75-09-2 | 6.06 | <6.06 | ug/kg dry | |
| Methyl-tert-Butyl Ether | 1634-04-4 | 6.06 | <6.06 | ug/kg dry | |
| n-Butylbenzene | 104-51-8 | 6.06 | <6.06 | ug/kg dry | 4.K |
| n-Propylbenzene | 103-65-1 | 6.06 | <6.06 | ug/kg dry | |
| o-Xylene | 95-47-6 | 6.06 | <6.06 | ug/kg dry | |
| sec-Butylbenzene | 135-98-8 | 6.06 | <6.06 | ug/kg dry | 4.K |
| tert-Butylbenzene | 98-06-6 | 6.06 | <6.06 | ug/kg dry | |
| Tetrachloroethene | 127-18-4 | 6.06 | <6.06 | ug/kg dry | |
| Toluene | 108-88-3 | 6.06 | <6.06 | ug/kg dry | |
| trans-1,2-Dichloroethene | 156-60-5 | 6.06 | <6.06 | ug/kg dry | |
| Trichloroethene | 79-01-6 | 6.06 | <6.06 | ug/kg dry | |

| | |
|---|---|
| Client: Let It Grow Inc | Client ID: 151 South St, Manorville, NY |
| Date (Time) Collected: 03/08/2023 14:03 | Sample ID: Soil - Grab 7 |
| Date (Time) Received: 03/08/2023 16:25 | Laboratory ID: 3030828-09 % Solid:80.684 |
| Matrix: Soil | ELAP: #11693 |

| Parameter | CAS No. | LOQ | Result | Units | Flag |
|---|---|---|---|---|---|
| Vinyl chloride | 75-01-4 | 6.06 | <6.06 | ug/kg dry | |

| Surrogate | CAS No. | % Recovery | Rec. Limits | Flag |
|---|---|---|---|---|
| 1,2-Dichloroethane-d4 | 10706-07-0 | 102 | 72.1-142 | |
| 4-Bromofluorobenzene | 460-00-4 | 116 | 76.1-131 | |
| Dibromofluoromethane | 1868-53-7 | 98 | 77.6-135 | |
| Toluene-d8 | 2037-26-5 | 106 | 77.8-124 | |

| Internal Standard | CAS No. | % Recovery | Rec. Limits | Flag |
|---|---|---|---|---|
| 1,4-Dichlorobenzene-d4 | 3855-82-1 | 58 | 50-200 | |
| 1,4-Difluorobenzene | 540-36-3 | 84 | 50-200 | |
| Chlorobenzene-d5 | 3114-55-4 | 76 | 50-200 | |
| Pentafluorobenzene | 363-72-4 | 88 | 50-200 | |

Date Prepared: 03/09/2023

Preparation Method: EPA 5035A-L

Date Analyzed: 03/09/2023

Analytical Method: EPA 8260 D

| | |
|---|---|
| Client: Let It Grow Inc | Client ID: 151 South St, Manorville, NY |
| Date (Time) Collected: 03/08/2023 14:07 | Sample ID: Soil - Grab 8 |
| Date (Time) Received: 03/08/2023 16:25 | Laboratory ID: 3030828-10 % Solid:76.817 |
| Matrix: Soil | ELAP: #11693 |

## Volatiles Low Level Analysis

| Parameter | CAS No. | LOQ | Result | Units | Flag |
|---|---|---|---|---|---|
| 1,1,1-Trichloroethane | 71-55-6 | 6.15 | <6.15 | ug/kg dry | |
| 1,1-Dichloroethane | 75-34-3 | 6.15 | <6.15 | ug/kg dry | |
| 1,1-Dichloroethene | 75-35-4 | 6.15 | <6.15 | ug/kg dry | |
| 1,2,4-Trimethylbenzene | 95-63-6 | 6.15 | <6.15 | ug/kg dry | 4.K |
| 1,2-Dichlorobenzene | 95-50-1 | 6.15 | <6.15 | ug/kg dry | |
| 1,2-Dichloroethane | 107-06-2 | 6.15 | <6.15 | ug/kg dry | |
| 1,3,5-Trimethylbenzene | 108-67-8 | 6.15 | <6.15 | ug/kg dry | |
| 1,3-Dichlorobenzene | 541-73-1 | 6.15 | <6.15 | ug/kg dry | |
| 1,4-Dichlorobenzene | 106-46-7 | 6.15 | <6.15 | ug/kg dry | |
| 1,4-Dioxane | 123-91-1 | 30.8 | <30.8 | ug/kg dry | |
| Acetone | 67-64-1 | 24.6 | 27.0 | ug/kg dry | |
| Benzene | 71-43-2 | 6.15 | <6.15 | ug/kg dry | |
| Carbon Tetrachloride | 56-23-5 | 6.15 | <6.15 | ug/kg dry | |
| Chlorobenzene | 108-90-7 | 6.15 | <6.15 | ug/kg dry | |
| Chloroform | 67-66-3 | 6.15 | <6.15 | ug/kg dry | |
| cis-1,2-Dichloroethene | 156-59-2 | 6.15 | <6.15 | ug/kg dry | |
| Ethylbenzene | 100-41-4 | 6.15 | <6.15 | ug/kg dry | |
| m,p-Xylenes | 108-38-3/106-42-3 | 12.3 | <12.3 | ug/kg dry | |
| Methyl Ethyl Ketone (2-Butanone) | 78-93-3 | 12.3 | <12.3 | ug/kg dry | |
| Methylene Chloride | 75-09-2 | 6.15 | <6.15 | ug/kg dry | |
| Methyl-tert-Butyl Ether | 1634-04-4 | 6.15 | <6.15 | ug/kg dry | |
| n-Butylbenzene | 104-51-8 | 6.15 | <6.15 | ug/kg dry | 4.K |
| n-Propylbenzene | 103-65-1 | 6.15 | <6.15 | ug/kg dry | |
| o-Xylene | 95-47-6 | 6.15 | <6.15 | ug/kg dry | |
| sec-Butylbenzene | 135-98-8 | 6.15 | <6.15 | ug/kg dry | 4.K |
| tert-Butylbenzene | 98-06-6 | 6.15 | <6.15 | ug/kg dry | |
| Tetrachloroethene | 127-18-4 | 6.15 | <6.15 | ug/kg dry | |
| Toluene | 108-88-3 | 6.15 | <6.15 | ug/kg dry | |
| trans-1,2-Dichloroethene | 156-60-5 | 6.15 | <6.15 | ug/kg dry | |
| Trichloroethene | 79-01-6 | 6.15 | <6.15 | ug/kg dry | |

| | |
|---|---|
| Client: Let It Grow Inc | Client ID: 151 South St, Manorville, NY |
| Date (Time) Collected: 03/08/2023 14:07 | Sample ID: Soil - Grab 8 |
| Date (Time) Received: 03/08/2023 16:25 | Laboratory ID: 3030828-10 % Solid:76.817 |
| Matrix: Soil | ELAP: #11693 |

| Parameter | CAS No. | LOQ | Result | Units | Flag |
|---|---|---|---|---|---|
| Vinyl chloride | 75-01-4 | 6.15 | <6.15 | ug/kg dry | |

| Surrogate | CAS No. | % Recovery | Rec. Limits | Flag |
|---|---|---|---|---|
| 1,2-Dichloroethane-d4 | 10706-07-0 | 103 | 72.1-142 | |
| 4-Bromofluorobenzene | 460-00-4 | 116 | 76.1-131 | |
| Dibromofluoromethane | 1868-53-7 | 98 | 77.6-135 | |
| Toluene-d8 | 2037-26-5 | 103 | 77.8-124 | |

| Internal Standard | CAS No. | % Recovery | Rec. Limits | Flag |
|---|---|---|---|---|
| 1,4-Dichlorobenzene-d4 | 3855-82-1 | 59 | 50-200 | |
| 1,4-Difluorobenzene | 540-36-3 | 81 | 50-200 | |
| Chlorobenzene-d5 | 3114-55-4 | 75 | 50-200 | |
| Pentafluorobenzene | 363-72-4 | 84 | 50-200 | |

Date Prepared: 03/09/2023

Preparation Method: EPA 5035A-L

Date Analyzed: 03/09/2023

Analytical Method: EPA 8260 D

| | |
|---|---|
| Client: Let It Grow Inc | Client ID: 151 South St, Manorville, NY |
| Date (Time) Collected: 03/08/2023 14:11 | Sample ID: Soil - Grab 9 |
| Date (Time) Received: 03/08/2023 16:25 | Laboratory ID: 3030828-11 % Solid:80.932 |
| Matrix: Soil | ELAP: #11693 |

## Volatiles Low Level Analysis

| Parameter | CAS No. | LOQ | Result | Units | Flag |
|---|---|---|---|---|---|
| 1,1,1-Trichloroethane | 71-55-6 | 5.85 | <5.85 | ug/kg dry | |
| 1,1-Dichloroethane | 75-34-3 | 5.85 | <5.85 | ug/kg dry | |
| 1,1-Dichloroethene | 75-35-4 | 5.85 | <5.85 | ug/kg dry | |
| 1,2,4-Trimethylbenzene | 95-63-6 | 5.85 | <5.85 | ug/kg dry | 4.K |
| 1,2-Dichlorobenzene | 95-50-1 | 5.85 | <5.85 | ug/kg dry | |
| 1,2-Dichloroethane | 107-06-2 | 5.85 | <5.85 | ug/kg dry | |
| 1,3,5-Trimethylbenzene | 108-67-8 | 5.85 | <5.85 | ug/kg dry | |
| 1,3-Dichlorobenzene | 541-73-1 | 5.85 | <5.85 | ug/kg dry | |
| 1,4-Dichlorobenzene | 106-46-7 | 5.85 | <5.85 | ug/kg dry | |
| 1,4-Dioxane | 123-91-1 | 29.3 | <29.3 | ug/kg dry | |
| Acetone | 67-64-1 | 23.4 | <23.4 | ug/kg dry | |
| Benzene | 71-43-2 | 5.85 | <5.85 | ug/kg dry | |
| Carbon Tetrachloride | 56-23-5 | 5.85 | <5.85 | ug/kg dry | |
| Chlorobenzene | 108-90-7 | 5.85 | <5.85 | ug/kg dry | |
| Chloroform | 67-66-3 | 5.85 | <5.85 | ug/kg dry | |
| cis-1,2-Dichloroethene | 156-59-2 | 5.85 | <5.85 | ug/kg dry | |
| Ethylbenzene | 100-41-4 | 5.85 | <5.85 | ug/kg dry | |
| m,p-Xylenes | 108-38-3/106-42-3 | 11.7 | <11.7 | ug/kg dry | |
| Methyl Ethyl Ketone (2-Butanone) | 78-93-3 | 11.7 | <11.7 | ug/kg dry | |
| Methylene Chloride | 75-09-2 | 5.85 | <5.85 | ug/kg dry | |
| Methyl-tert-Butyl Ether | 1634-04-4 | 5.85 | <5.85 | ug/kg dry | |
| n-Butylbenzene | 104-51-8 | 5.85 | <5.85 | ug/kg dry | 4.K |
| n-Propylbenzene | 103-65-1 | 5.85 | <5.85 | ug/kg dry | |
| o-Xylene | 95-47-6 | 5.85 | <5.85 | ug/kg dry | |
| sec-Butylbenzene | 135-98-8 | 5.85 | <5.85 | ug/kg dry | 4.K |
| tert-Butylbenzene | 98-06-6 | 5.85 | <5.85 | ug/kg dry | |
| Tetrachloroethene | 127-18-4 | 5.85 | <5.85 | ug/kg dry | |
| Toluene | 108-88-3 | 5.85 | <5.85 | ug/kg dry | |
| trans-1,2-Dichloroethene | 156-60-5 | 5.85 | <5.85 | ug/kg dry | |
| Trichloroethene | 79-01-6 | 5.85 | <5.85 | ug/kg dry | |

| | |
|---|---|
| Client: Let It Grow Inc | Client ID: 151 South St, Manorville, NY |
| Date (Time) Collected: 03/08/2023 14:11 | Sample ID: Soil - Grab 9 |
| Date (Time) Received: 03/08/2023 16:25 | Laboratory ID: 3030828-11 % Solid:80.932 |
| Matrix: Soil | ELAP: #11693 |

| Parameter | CAS No. | LOQ | Result | Units | Flag |
|---|---|---|---|---|---|
| Vinyl chloride | 75-01-4 | 5.85 | <5.85 | ug/kg dry | |

| Surrogate | CAS No. | % Recovery | Rec. Limits | Flag |
|---|---|---|---|---|
| 1,2-Dichloroethane-d4 | 10706-07-0 | 100 | 72.1-142 | |
| 4-Bromofluorobenzene | 460-00-4 | 117 | 76.1-131 | |
| Dibromofluoromethane | 1868-53-7 | 99 | 77.6-135 | |
| Toluene-d8 | 2037-26-5 | 107 | 77.8-124 | |

| Internal Standard | CAS No. | % Recovery | Rec. Limits | Flag |
|---|---|---|---|---|
| 1,4-Dichlorobenzene-d4 | 3855-82-1 | 57 | 50-200 | |
| 1,4-Difluorobenzene | 540-36-3 | 82 | 50-200 | |
| Chlorobenzene-d5 | 3114-55-4 | 73 | 50-200 | |
| Pentafluorobenzene | 363-72-4 | 84 | 50-200 | |

Date Prepared: 03/09/2023

Preparation Method: EPA 5035A-L

Date Analyzed: 03/09/2023

Analytical Method: EPA 8260 D

**Data Qualifiers Key Reference:**

| | |
|---|---|
| 2.B | Parameter not certifiable by NELAP. |
| 4.D | Surrogate recovery has failed low. |
| 4.J | Continuing Calibration Verification (CCV) quality control levels failed low, values are considered to be estimated. |
| 4.K | Continuing Calibration Verification (CCV) quality control levels failed high, values are considered to be estimated. |
| 4.N | LCS recovery was below QC acceptance limit. |
| 4.P | Internal Standard out of range due to matrix interference. |
| MDL | Minimum Detection Limit |
| LOQ | Limit of Quantitation |
| H | Holding Time Exceeded |

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# CHAIN OF CUSTODY / REQUEST FOR ANALYSIS DOCUMENT

3030828

CLIENT NAME/ADDRESS: Let It Grow

CONTACT: Nishant

PHONE: 201-478-6248

EMAIL:

PROJECT LOCATION: 151 South St, Manorville

SAMPLER (SIGNATURE): Matt Sullivan

SAMPLER NAME (PRINT): Matt Sullivan

SAMPLE(S) SEALED: YES / NO

CORRECT CONTAINER(S): YES / NO

SAMPLES RECEIVED AT: 2.1 °C

**TERMS & CONDITIONS:** Accounts are payable in full within thirty days, outstanding balances accrue service charges of 1.5% per month. Tendering of samples to LIAL for analytical testing constitutes agreement by buyer/sampler to LIAL's Standard terms

| LABORATORY ID # (For Laboratory Use Only) | MATRIX | TYPE | pH | RES. CHLORINE | PRES. | DATE | TIME | SAMPLE # LOCATION | ANALYSIS REQUIRED: Full Part 375 (VOCs) | Part 375 (SVOCs) | PFAS (1633) | 1,4 Dioxane | # OF CONTAINERS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1. | S | C | | | 1 | 3/8/23 | 13:35 | Soil Comp A | X | | X | X | 2 |
| 2. | ↓ | C | | | ↓ | ↓ | 13:42 | Soil Comp B | X | | X | X | 2 |
| 3. | | | | | | | | | | | | | |
| 4. | | G | | | | | 13:45 | Soil Grab #1 | | X | | | 1 |
| 5. | | G | | | | | 13:47 | Soil Grab #2 | | X | | | 1 |
| 6. | | G | | | | | 13:50 | Soil Grab #3 | | X | | | 1 |
| 7. | | G | | | | | 13:53 | Soil Grab #4 | | X | | | 1 |
| 8. | | G | | | | | 13:56 | Soil Grab #5 | | X | | | 1 |
| 9. | | G | | | | | 13:59 | Soil Grab #6 | | X | | | 1 |
| 10. | | G | | | | | 14:03 | Soil Grab #7 | | X | | | 1 |
| 11. | | G | | | | | 14:07 | Soil Grab #8 | | X | | | 1 |
| 12. | | G | | | | | 14:11 | Soil Grab #9 | | X | | | 1 |
| 13. | | | | | | | | | | | | | |
| 14. | | | | | | | | | | | | | |

**MATRIX:** S=SOIL; SL=SLUDGE; DW=DRINKING WATER; A=AIR; W=WIPE; PC=PAINT CHIPS; BM= BULK MATERIAL, O=OIL, WW=WASTE WATER
**TYPE:** G=GRAB; C=COMPOSITE; SS=SPLIT SPOON
**PRES:** (1) ICE; (2) HCL; (3) $H_2SO_4$; (4) NAOH; (5) $NA_2S_2O_3$; (6) $HNO_3$; (7) OTHER

TURNAROUND REQUIRED: ☒ NORMAL ☐ STAT
BY / /

COMMENTS / INSTRUCTIONS: 2 hours billed

| RELINQUISHED BY (SIGNATURE) | DATE / TIME | PRINTED NAME | RECEIVED BY (SIGNATURE) | DATE / TIME | PRINTED NAME |
|---|---|---|---|---|---|
| Matt Sullivan | DATE 3/8/23 TIME | Matt S | | DATE TIME | |
| RELINQUISHED BY (SIGNATURE) | DATE / TIME | PRINTED NAME | RECEIVED BY SAMPLE CUSTODIAN | DATE 3/8/23 TIME 16:25 | PRINTED NAME |

WHITE - OFFICE / CANARY - CLIENT

Client: Let It Grow

Location: 151 South St, Manorville

Dirt Road




Stockpile



Client: Let It Grow Inc
Project: Analysis
ProjectNumber: 151 South St, Manorville, NY
Matrix: Soil
Collect Dates: 3/8/2023 Thru 3/8/2023

| Lab Number | | | | | | 3030828-01 | | 3030828-02 | | 3030828-03 | | 3030828-04 | | 3030828-05 | | 3030828-06 | | 3030828-07 | | 3030828-08 | | 3030828-09 | | 3030828-10 | | 3030828-11 | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Sampled Name | | | | | | Soil - Comp A | | Soil - Comp B | | Soil - Grab 1 | | Soil - Grab 2 | | Soil - Grab 3 | | Soil - Grab 4 | | Soil - Grab 5 | | Soil - Grab 6 | | Soil - Grab 7 | | Soil - Grab 8 | | Soil - Grab 9 | |
| Sampled Date | | | | | | 3/8/2023 | | 3/8/2023 | | 3/8/2023 | | 3/8/2023 | | 3/8/2023 | | 3/8/2023 | | 3/8/2023 | | 3/8/2023 | | 3/8/2023 | | 3/8/2023 | | 3/8/2023 | |
| Parameter | Part 375 Unrestricte | Part 375 Protection | Part 375 Residential | Part 375 Restricted | Part 375 Commercial | Value | Qual | Value | Qual | Value | Qual | Value | Qual | Value | Qual | Value | Qual | Value | Qual | Value | Qual | Value | Qual | Value | Qual | Value | Qual |
| EPA 1633 (ng/kg) | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (F-53B Minor) (11Cl-PF3OUdS) | NA | NA | NA | NA | NA | <0.40 | | <0.40 | | | | | | | | | | | | | | | | | | | |
| 3:3 Fluorotelomer carboxylic acid (3:3 FTCA) | NA | NA | NA | NA | NA | <0.40 | | <0.40 | | | | | | | | | | | | | | | | | | | |
| 4,8-Dioxa-3H-perfluorononanoic acid (ADONA) | NA | NA | NA | NA | NA | <0.40 | | <0.40 | | | | | | | | | | | | | | | | | | | |
| 4:2 Fluorotelomer sulfonic acid (4:2 FTS) | NA | NA | NA | NA | NA | <0.40 | | <0.40 | | | | | | | | | | | | | | | | | | | |
| 5:3 Fluorotelomer carboxylic acid (5:3 FTCA) | NA | NA | NA | NA | NA | <0.40 | | <0.40 | | | | | | | | | | | | | | | | | | | |
| 6:2 Fluorotelomer sulfonic acid (6:2 FTS) | NA | NA | NA | NA | NA | <0.40 | | <0.40 | | | | | | | | | | | | | | | | | | | |
| 7:3 Fluorotelomer carboxylic acid (7:3 FTCA) | NA | NA | NA | NA | NA | <0.40 | | <0.40 | | | | | | | | | | | | | | | | | | | |
| 8:2 Fluorotelomer sulfonic acid (8:2 FTS) | NA | NA | NA | NA | NA | <0.40 | | <0.40 | | | | | | | | | | | | | | | | | | | |
| 9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (F-53B Major) (9Cl-PF3ONS) | NA | NA | NA | NA | NA | <0.40 | | <0.40 | | | | | | | | | | | | | | | | | | | |
| Hexafluoropropylene oxide dimer acid (HFPO-DA) | NA | NA | NA | NA | NA | <0.40 | | <0.40 | | | | | | | | | | | | | | | | | | | |
| N-ethylperfluorooctane sulfonamide (NEtFOSA) | NA | NA | NA | NA | NA | <0.40 | | <0.40 | | | | | | | | | | | | | | | | | | | |
| N-ethylperfluorooctane sulfonamidoacetic acid (N-EtFOSAA) | NA | NA | NA | NA | NA | <0.40 | | <0.40 | | | | | | | | | | | | | | | | | | | |
| N-ethylperfluorooctane sulfonamidoethanol (EtFOSE) | NA | NA | NA | NA | NA | <0.40 | | <0.40 | | | | | | | | | | | | | | | | | | | |
| N-methylperfluorooctane sulfonamide (NMeFOSA) | NA | NA | NA | NA | NA | <0.40 | | <0.40 | | | | | | | | | | | | | | | | | | | |
| N-methylperfluorooctane sulfonamidoacetic acid (N-MeFOSAA) | NA | NA | NA | NA | NA | <0.40 | | <0.40 | | | | | | | | | | | | | | | | | | | |
| N-methylperfluorooctane sulfonamidoethanol (MeFOSE) | NA | NA | NA | NA | NA | <0.40 | | <0.40 | | | | | | | | | | | | | | | | | | | |
| Nonafluoro-3,6-dioxaheptanoic acid (NFDHA) | NA | NA | NA | NA | NA | <0.40 | | <0.40 | | | | | | | | | | | | | | | | | | | |
| Perfluoro(2-ethoxyethane) sulfonic acid (PFEESA) | NA | NA | NA | NA | NA | <0.40 | | <0.40 | | | | | | | | | | | | | | | | | | | |
| Perfluoro-3-methoxypropanoic acid (PFMPA) | NA | NA | NA | NA | NA | <0.40 | | <0.40 | | | | | | | | | | | | | | | | | | | |
| Perfluoro-4-methoxybutanoic acid (PFMBA) | NA | NA | NA | NA | NA | <0.40 | | <0.40 | | | | | | | | | | | | | | | | | | | |
| Perfluorobutanesulfonic acid (PFBS) | NA | NA | NA | NA | NA | <0.40 | | <0.40 | | | | | | | | | | | | | | | | | | | |
| Perfluorobutanoic acid (PFBA) | NA | NA | NA | NA | NA | <0.40 | | <0.40 | | | | | | | | | | | | | | | | | | | |
| Perfluorodecanesulfonic acid (PFDS) | NA | NA | NA | NA | NA | <0.40 | | <0.40 | | | | | | | | | | | | | | | | | | | |
| Perfluorodecanoic acid (PFDA) | NA | NA | NA | NA | NA | <0.40 | | <0.40 | | | | | | | | | | | | | | | | | | | |
| Perfluorododecanesulfonic acid (PFDoS) | NA | NA | NA | NA | NA | <0.40 | | <0.40 | | | | | | | | | | | | | | | | | | | |
| Perfluorododecanoic acid (PFDoA) | NA | NA | NA | NA | NA | <0.40 | | <0.40 | | | | | | | | | | | | | | | | | | | |
| Perfluoroheptanesulfonic acid (PFHpS) | NA | NA | NA | NA | NA | <0.40 | | <0.40 | | | | | | | | | | | | | | | | | | | |
| Perfluoroheptanoic acid (PFHpA) | NA | NA | NA | NA | NA | <0.40 | | <0.40 | | | | | | | | | | | | | | | | | | | |
| Perfluorohexanesulfonic acid (PFHxS) | NA | NA | NA | NA | NA | <0.40 | | <0.40 | | | | | | | | | | | | | | | | | | | |
| Perfluorohexanoic acid (PFHxA) | NA | NA | NA | NA | NA | <0.40 | | <0.40 | | | | | | | | | | | | | | | | | | | |
| Perfluorononanesulfonic acid (PFNS) | NA | NA | NA | NA | NA | <0.40 | | <0.40 | | | | | | | | | | | | | | | | | | | |
| Perfluorononanoic acid (PFNA) | NA | NA | NA | NA | NA | <0.40 | | <0.40 | | | | | | | | | | | | | | | | | | | |
| Perfluorooctane sulfonamide (PFOSA) | NA | NA | NA | NA | NA | <0.40 | | <0.40 | | | | | | | | | | | | | | | | | | | |
| Perfluorooctanesulfonic acid (PFOS) | NA | NA | NA | NA | NA | <0.40 | | <0.40 | | | | | | | | | | | | | | | | | | | |
| Perfluorooctanoic acid (PFOA) | NA | NA | NA | NA | NA | <0.40 | | <0.40 | | | | | | | | | | | | | | | | | | | |
| Perfluoropentanesulfonic acid (PFPeS) | 880 | 3700 | 8800 | 44000 | 440000 | <0.40 | | <0.40 | | | | | | | | | | | | | | | | | | | |
| Perfluoropentanoic acid (PFPeA) | 660 | 1100 | 6600 | 33000 | 500000 | <0.40 | | <0.40 | | | | | | | | | | | | | | | | | | | |
| Perfluorotetradecanoic acid (PFTeDA) | NA | NA | NA | NA | NA | <0.40 | | <0.40 | | | | | | | | | | | | | | | | | | | |
| Perfluorotridecanoic acid (PFTrDA) | NA | NA | NA | NA | NA | <0.40 | | <0.40 | | | | | | | | | | | | | | | | | | | |
| Perfluoroundecanoic acid (PFUnA) | NA | NA | NA | NA | NA | <0.40 | | <0.40 | | | | | | | | | | | | | | | | | | | |
| EPA 6010 D (mg/kg dry) | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Arsenic | 13 | 16 | 16 | 16 | 16.1 | 2.62 | | 3.03 | | | | | | | | | | | | | | | | | | | |
| Barium | 350 | 820 | 351 | 400 | 400 | 38.1 | | 41.7 | | | | | | | | | | | | | | | | | | | |
| Beryllium | 7.2 | 47 | 14 | 72 | 590 | <0.89 | | <0.80 | | | | | | | | | | | | | | | | | | | |
| Cadmium | 2.5 | 7.5 | 2.6 | 4.3 | 9.3 | <1.71 | | <2.00 | | | | | | | | | | | | | | | | | | | |
| Chromium | 30 | N/A | 36 | 180 | 1500 | 10.2 | | 11.1 | | | | | | | | | | | | | | | | | | | |
| Copper | 50 | 1720 | 270 | 270 | 271 | 17.3 | | 18.5 | | | | | | | | | | | | | | | | | | | |
| Lead | 63 | 450 | 400 | 400 | 1000 | 28.1 | | 30.8 | | | | | | | | | | | | | | | | | | | |
| Manganese | 1600 | 2000 | 2000 | 2000 | 10000 | 153 | | 160 | | | | | | | | | | | | | | | | | | | |
| Nickel | 30 | 130 | 140 | 310 | 310 | 7.16 | | 8.15 | | | | | | | | | | | | | | | | | | | |
| Selenium | 3.9 | 4 | 36 | 180 | 1500 | <3.41 | | <3.99 | | | | | | | | | | | | | | | | | | | |
| Silver | 2 | 8.3 | 36 | 180 | 1500 | <0.43 | | <0.50 | | | | | | | | | | | | | | | | | | | |
| Zinc | 109 | 2480 | 2200 | 10000 | 10000 | 43.4 | | 44.9 | | | | | | | | | | | | | | | | | | | |
| EPA 7196 A (mg/kg dry) | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Hexavalent Chromium | 1 | 19 | 22 | 110 | 400 | 1 | | 3.03 | | | | | | | | | | | | | | | | | | | |
| EPA 7471 B (mg/kg dry) | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mercury | 0.18 | 0.73 | 0.81 | 0.811 | 2.8 | 0.07 | | 0.08 | | | | | | | | | | | | | | | | | | | |
| EPA 8081 B (ug/kg dry) | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4,4'-DDD | 3.3 | 14000 | 2600 | 13000 | 92000 | <2.54 | | <2.59 | | | | | | | | | | | | | | | | | | | |
| 4,4'-DDE | 3.3 | 17000 | 1800 | 8900 | 62000 | 3.96 | | 4.04 | | | | | | | | | | | | | | | | | | | |
| 4,4'-DDT | 3.3 | 136000 | 1700 | 7900 | 47000 | <2.54 | | <2.59 | | | | | | | | | | | | | | | | | | | |
| Aldrin | 5 | 190 | 19 | 97 | 680 | <2.54 | | <2.59 | | | | | | | | | | | | | | | | | | | |
| alpha-BHC | 20 | 20 | 97 | 480 | 3400 | <6.34 | | <6.47 | | | | | | | | | | | | | | | | | | | |
| beta-BHC | 36 | 90 | 72 | 360 | 3000 | <6.34 | | <6.47 | | | | | | | | | | | | | | | | | | | |
| cis-Chlordane | 94 | 2900 | 910 | 4200 | 24000 | 9.06 | | 13.5 | | | | | | | | | | | | | | | | | | | |
| delta-BHC | 40 | 250 | 100000 | 100000 | 500000 | <6.34 | | <6.47 | | | | | | | | | | | | | | | | | | | |
| Dieldrin | 5 | 100 | 39 | 200 | 1400 | 5.59 | | 4.66 | | | | | | | | | | | | | | | | | | | |
| Endosulfan I | 2400 | 102000 | 4800 | 24000 | 200000 | <6.34 | | <6.47 | | | | | | | | | | | | | | | | | | | |
| Endosulfan II | 2400 | 102000 | 4800 | 24000 | 200000 | <6.34 | | <6.47 | | | | | | | | | | | | | | | | | | | |
| Endosulfan Sulfate | 2400 | 1000000 | 4800 | 24000 | 200000 | <6.34 | | <6.47 | | | | | | | | | | | | | | | | | | | |
| Endrin | 14 | 60 | 2200 | 11000 | 89000 | <6.34 | | <6.47 | | | | | | | | | | | | | | | | | | | |
| Heptachlor | 42 | 380 | 420 | 2100 | 15000 | <6.34 | | <6.47 | | | | | | | | | | | | | | | | | | | |
| EPA 8082 A (ug/kg dry) | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Aroclor 1016 | 11.1 | 355.6 | 111 | 111.1 | 111.2 | <63.4 | | <64.7 | | | | | | | | | | | | | | | | | | | |
| Aroclor 1221 | 11.1 | 355.6 | 111 | 111.1 | 111.2 | <63.4 | | <64.7 | | | | | | | | | | | | | | | | | | | |
| Aroclor 1232 | 11.1 | 355.6 | 111 | 111.1 | 111.2 | <63.4 | | <64.7 | | | | | | | | | | | | | | | | | | | |
| Aroclor 1242 | 11.1 | 355.6 | 111 | 111.1 | 111.2 | <63.4 | | <64.7 | | | | | | | | | | | | | | | | | | | |
| Aroclor 1248 | 11.1 | 355.6 | 111 | 111.1 | 111.2 | <63.4 | | <64.7 | | | | | | | | | | | | | | | | | | | |
| Aroclor 1254 | 11.1 | 355.6 | 111 | 111.1 | 111.2 | <63.4 | | <64.7 | | | | | | | | | | | | | | | | | | | |
| Aroclor 1260 | 11.1 | 355.6 | 111 | 111.1 | 111.2 | <63.4 | | <64.7 | | | | | | | | | | | | | | | | | | | |
| Aroclor 1262 | 11.1 | 355.6 | 111 | 111.1 | 111.2 | <63.4 | | <64.7 | | | | | | | | | | | | | | | | | | | |
| Aroclor 1268 | 11.1 | 355.6 | 111 | 111.1 | 111.2 | <63.4 | | <64.7 | | | | | | | | | | | | | | | | | | | |
| EPA 8151 A (ug/kg dry) | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2,4,5-TP (Silvex) | 3800 | 3800 | 58000 | 100000 | 500000 | <32 | | <32 | | | | | | | | | | | | | | | | | | | |
| EPA 8260 D (ug/kg dry) | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1,1,1-Trichloroethane | 680 | 680 | 10000 | 100000 | 500000 | | | | | <5.91 | | <6.28 | | <5.53 | | <5.76 | | <6.18 | | <6.51 | | <6.06 | | <6.15 | | <5.85 | |
| 1,1-Dichloroethane | 270 | 270 | 19000 | 26000 | 240000 | | | | | <5.91 | | <6.28 | | <5.53 | | <5.76 | | <6.18 | | <6.51 | | <6.06 | | <6.15 | | <5.85 | |
| 1,1-Dichloroethene | 330 | 330 | 100000 | 100000 | 500000 | | | | | <5.91 | | <6.28 | | <5.53 | | <5.76 | | <6.18 | | <6.51 | | <6.06 | | <6.15 | | <5.85 | |
| 1,2,4-Trimethylbenzene | 3600 | 3600 | 47000 | 52000 | 190000 | | | | | <5.91 | 4.K | <6.28 | 4.K | <5.53 | 4.K | <5.76 | 4.K | <6.18 | 4.K | <6.51 | 4.K | <6.06 | 4.K | <6.15 | 4.K | <5.85 | 4.K |
| 1,2-Dichlorobenzene | 1100 | 1100 | 100000 | 100000 | 500000 | | | | | <5.91 | | <6.28 | | <5.53 | | <5.76 | | <6.18 | | <6.51 | | <6.06 | | <6.15 | | <5.85 | |
| 1,2-Dichloroethane | 20 | 20 | 2300 | 3100 | 30000 | | | | | <5.91 | | <6.28 | | <5.53 | | <5.76 | | <6.18 | | <6.51 | | <6.06 | | <6.15 | | <5.85 | |
| 1,3,5-Trimethylbenzene | 8400 | 8400 | 47000 | 52000 | 190000 | | | | | <5.91 | | <6.28 | | <5.53 | | <5.76 | | <6.18 | | <6.51 | | <6.06 | | <6.15 | | <5.85 | |
| 1,3-Dichlorobenzene | 2400 | 2400 | 9800 | 49000 | 280000 | | | | | <5.91 | | <6.28 | | <5.53 | | <5.76 | | <6.18 | | <6.51 | | <6.06 | | <6.15 | | <5.85 | |
| 1,4-Dichlorobenzene | 1800 | 1800 | 9800 | 13000 | 130000 | | | | | <5.91 | | <6.28 | | <5.53 | | <5.76 | | <6.18 | | <6.51 | | <6.06 | | <6.15 | | <5.85 | |
| 1,4-Dioxane | 100 | 100 | 9800 | 13000 | 130000 | | | | | <29.5 | | <31.4 | | <27.7 | | <28.8 | | <30.9 | | <32.6 | | <30.3 | | <30.8 | | <29.3 | |
| Acetone | 50 | 50 | 100000 | 100000 | 500000 | | | | | <23.6 | | <25.1 | | 24.4 | | <23.0 | | 25.8 | | <26.0 | | 32.3 | | 27 | | <23.4 | |
| Benzene | 60 | 60 | 2900 | 4800 | 44000 | | | | | <5.91 | | <6.28 | | <5.53 | | <5.76 | | <6.18 | | <6.51 | | <6.06 | | <6.15 | | <5.85 | |
| Carbon Tetrachloride | 760 | 760 | 1400 | 2400 | 22000 | | | | | <5.91 | | <6.28 | | <5.53 | | <5.76 | | <6.18 | | <6.51 | | <6.06 | | <6.15 | | <5.85 | |
| Chlorobenzene | 1100 | 1100 | 100000 | 100000 | 500000 | | | | | <5.91 | | <6.28 | | <5.53 | | <5.76 | | <6.18 | | <6.51 | | <6.06 | | <6.15 | | <5.85 | |
| Chloroform | 370 | 370 | 10000 | 49000 | 350000 | | | | | <5.91 | | <6.28 | | <5.53 | | <5.76 | | <6.18 | | <6.51 | | <6.06 | | <6.15 | | <5.85 | |
| cis-1,2-Dichloroethene | 250 | 250 | 59000 | 100000 | 500000 | | | | | <5.91 | | <6.28 | | <5.53 | | <5.76 | | <6.18 | | <6.51 | | <6.06 | | <6.15 | | <5.85 | |
| Ethylbenzene | 1000 | 1000 | 30000 | 41000 | 390000 | | | | | <5.91 | | <6.28 | | <5.53 | | <5.76 | | <6.18 | | <6.51 | | <6.06 | | <6.15 | | <5.85 | |
| Hub Pabnes | 174 | 960 | 66666 | 100000 | 333333 | | | | | <11.8 | | <12.6 | | <11.1 | | <11.5 | | <12.4 | | <13.0 | | <12.1 | | <12.3 | | <11.7 | |
| Methyl Ethyl Ketone (2-Butanone) | 120 | 120 | 100000 | 100000 | 500000 | | | | | <11.8 | | <12.6 | | <11.1 | | <11.5 | | <12.4 | | <13.0 | | <12.1 | | <12.3 | | <11.7 | |
| Methylene Chloride | 50 | 50 | 51000 | 51000 | 500000 | | | | | <5.91 | | <6.28 | | <5.53 | | <5.76 | | <6.18 | | <6.51 | | <6.06 | | <6.15 | | <5.85 | |
| Methyl tert-Butyl Ether | 930 | 930 | 62000 | 100000 | 500000 | | | | | <5.91 | | <6.28 | | <5.53 | | <5.76 | | <6.18 | | <6.51 | | <6.06 | | <6.15 | | <5.85 | |
| n-Butylbenzene | 12000 | 12000 | 100000 | 100000 | 500000 | | | | | <5.91 | 4.K | <6.28 | 4.K | <5.53 | 4.K | <5.76 | 4.K | <6.18 | 4.K | <6.51 | 4.K | <6.06 | 4.K | <6.15 | 4.K | <5.85 | 4.K |
| n-Propylbenzene | 3900 | 3900 | 100000 | 100000 | 500000 | | | | | <5.91 | | <6.28 | | <5.53 | | <5.76 | | <6.18 | | <6.51 | | <6.06 | | <6.15 | | <5.85 | |
| o-Xylene | 87 | 480 | 33333 | 100000 | 166666 | | | | | <5.91 | | <6.28 | | <5.53 | | <5.76 | | <6.18 | | <6.51 | | <6.06 | | <6.15 | | <5.85 | |
| sec-Butylbenzene | 11000 | 11000 | 100000 | 100000 | 500000 | | | | | <5.91 | 4.K | <6.28 | 4.K | <5.53 | 4.K | <5.76 | 4.K | <6.18 | 4.K | <6.51 | 4.K | <6.06 | 4.K | <6.15 | 4.K | <5.85 | 4.K |
| tert-Butylbenzene | 5900 | 5900 | 100000 | 100000 | 500000 | | | | | <5.91 | | <6.28 | | <5.53 | | <5.76 | | <6.18 | | <6.51 | | <6.06 | | <6.15 | | <5.85 | |
| Tetrachloroethene | 1300 | 1300 | 5500 | 19000 | 150000 | | | | | <5.91 | | <6.28 | | <5.53 | | <5.76 | | <6.18 | | <6.51 | | <6.06 | | <6.15 | | <5.85 | |
| Toluene | 700 | 700 | 100000 | 100000 | 500000 | | | | | <5.91 | | <6.28 | | <5.53 | | <5.76 | | <6.18 | | <6.51 | | <6.06 | | <6.15 | | <5.85 | |
| trans-1,2-Dichloroethene | 190 | 190 | 100000 | 100000 | 500000 | | | | | <5.91 | | <6.28 | | <5.53 | | <5.76 | | <6.18 | | <6.51 | | <6.06 | | <6.15 | | <5.85 | |
| Trichloroethene | 470 | 470 | 10000 | 21000 | 200000 | | | | | <5.91 | | <6.28 | | <5.53 | | <5.76 | | <6.18 | | <6.51 | | <6.06 | | <6.15 | | <5.85 | |
| Vinyl chloride | 20 | 20 | 210 | 900 | 13000 | | | | | <5.91 | | <6.28 | | <5.53 | | <5.76 | | <6.18 | | <6.51 | | <6.06 | | <6.15 | | <5.85 | |
| EPA 8270 E (ug/kg dry) | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2-Methylphenol | 330 | 330 | 100000 | 100000 | 500000 | <381 | 4.I, 4.N | <388 | 4.I, 4.N | | | | | | | | | | | | | | | | | | |
| Acenaphthene | 20000 | 98000 | 100000 | 100000 | 500000 | <254 | 4.N, 4.J | <259 | 4.J, 4.N | | | | | | | | | | | | | | | | | | |
| Acenaphthylene | 100000 | 107000 | 100001 | 100000 | 500000 | <190 | 4.N | <194 | 4.N | | | | | | | | | | | | | | | | | | |
| Anthracene | 100000 | 1000000 | 100001 | 100000 | 500000 | <254 | 4.J | <259 | 4.J | | | | | | | | | | | | | | | | | | |
| Benzo(a)anthracene | 1000 | 1000 | 1001 | 1000 | 5600 | <190 | | <194 | | | | | | | | | | | | | | | | | | | |
| Benzo(a)pyrene | 1000 | 22000 | 1001 | 1000 | 1002 | <190 | | <194 | | | | | | | | | | | | | | | | | | | |
| Benzo(b)fluoranthene | 1000 | 1700 | 1001 | 1000 | 5600 | <381 | | <388 | | | | | | | | | | | | | | | | | | | |
| Benzo(g,h,i)perylene | 100000 | 1000000 | 100001 | 100000 | 500000 | <190 | 4.K | <194 | 4.K | | | | | | | | | | | | | | | | | | |
| Benzo(k)fluoranthene | 800 | 1700 | 1000 | 3900 | 56000 | <190 | 4.J | <194 | 4.J | | | | | | | | | | | | | | | | | | |
| Chrysene | 1000 | 1000 | 1001 | 3900 | 56000 | <254 | | <259 | | | | | | | | | | | | | | | | | | | |
| Dibenzo(a,h)anthracene | 330 | 1000000 | 331 | 330 | 560 | <190 | 4.K | <194 | 4.K | | | | | | | | | | | | | | | | | | |
| Dibenzofuran | 7000 | 210000 | 14000 | 59000 | 350000 | <254 | 4.J, 4.N | <259 | 4.J, 4.N | | | | | | | | | | | | | | | | | | |
| Fluoranthene | 100000 | 1000000 | 100001 | 100000 | 500000 | <254 | | <259 | | | | | | | | | | | | | | | | | | | |
| Fluorene | 30000 | 386000 | 100000 | 100000 | 500000 | <254 | | <259 | | | | | | | | | | | | | | | | | | | |
| Hexachlorobenzene | 330 | 3200 | 331 | 1200 | 6000 | <254 | | <259 | | | | | | | | | | | | | | | | | | | |
| Indeno(1,2,3-cd)pyrene | 500 | 8200 | 501 | 500 | 5600 | <190 | 4.K | <194 | 4.K | | | | | | | | | | | | | | | | | | |
| Naphthalene | 12000 | 12000 | 100000 | 100000 | 500000 | <254 | 4.N | <259 | 4.N | | | | | | | | | | | | | | | | | | |
| Pentachlorophenol | 800 | 800 | 2400 | 6700 | 6700 | <381 | | <388 | | | | | | | | | | | | | | | | | | | |
| Phenanthrene | 100000 | 1000000 | 100001 | 100000 | 500000 | <254 | 4.J | <259 | 4.J | | | | | | | | | | | | | | | | | | |
| Phenol | 330 | 330 | 100000 | 100000 | 500000 | <190 | 4.J, 4.N | <194 | 4.J, 4.N | | | | | | | | | | | | | | | | | | |
| Pyrene | 100000 | 1000000 | 100001 | 100000 | 500000 | <254 | | <259 | | | | | | | | | | | | | | | | | | | |
| EPA 9014 (mg/kg dry) | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Cyanide | 27 | 40 | 27 | 27 | 27.2 | <0.25 | | <0.26 | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | |

Notes:
Report Generated on: 3/21/2023 10:35:27 AM

Qualifiers:

| | |
|---|---|
| 2.B | Parameter not certifiable by NELAP. |
| 4.I | Continuing Calibration Verification (CCV) quality control levels failed low, values are considered to be estimated. |
| 4.K | Continuing Calibration Verification (CCV) quality control levels failed high, values are considered to be estimated. |
| 4.N | LCS recovery was below QC acceptance limit. |
| 4.P | Internal Standard out of range due to matrix interference. |

32261

**Ranco Sand & Stone Corp.**
151 SOUTH STREET
MANORVILLE, NEW YORK 11949
OFFICE PHONE: 874-3939 • 874-3993

DATE 3/29/23

BUYER Let It Grow - NJ

TNT 10

T. E.

GROSS

20yds TARE

NET

topsoil

2

WEIGHED BY _____

SIGNED BY _____

32264

*Ranco Sand & Stone Corp.*
151 SOUTH STREET
MANORVILLE, NEW YORK 11949
OFFICE PHONE: 874-3939 • 874-3993

DATE 3/30/23

BUYER Let It Grow - NJ
TNT #10

Topsoil

GROSS

TARE 20 yds

NET

WEIGHED BY _____ SIGNED BY _____

Ranco Sand & Stone
151 South Street
Manorville NY, 11949

Ticket #: 501061
Date: 5/6/2023
Phone: (631) 874-3939
Fax: (631) 874-3553

LET IT GROW INC
52 ACKERSON STREET

RIVER EDGE NJ, 07661

Order Number: 1
H1 - H2 GREENPOINT
Tons: 0.000
Loads: 11

TRUCKS - VARIOUS TRUCKS

| | | | | |
|---|---|---|---|---|
| Gross | 0 | Scale 0 | 5/16/2023 | 9:57 AM |
| Tare | 0 | | | |
| Net | 0 | | | |

Material 0.00 tons

FUEL SURCHARGE @10% OF TOTAL COST OF YARDS 252.000 YD

WeighMaster:PAM - PAM

Driver Signature: _____

Remarks: FUEL SURCHARGE @ 10% OF TOTAL COST - $2,520

Ranco Sand & Stone
151 South Street
Manorville NY, 11949

Ticket #: 500898
Date: 5/6/2023
Phone: (631) 874-3939
Fax: (631) 874-3553

LETIT GROW INC
52 ACKERSON STREET

RIVER EDGE NJ, 07661

Order Number: 1
H1 - H2 GREENPOINT
Tons: 0.000
Loads: 9

TNT-3 - TNT #3

| | | | | |
|---|---|---|---|---|
| Gross | 0 | Scale 0 | 5/10/2023 | 10:20 AM |
| Tare | 0 | | | |
| Net | 0 | | | |

Material

0.00 tons
20.000 YD

TOP SOIL BY THE YARD

WeighMaster:PAM - PAM

Driver Signature: _____

Remarks: REPLACES TICKET #32117
H1 - H2 GREENPOINT

Ranco Sand & Stone
151 South Street
Manorville NY, 11949

Ticket #: 500899
Date: 5/6/2023
Phone: (631) 874-3939
Fax: (631) 874-3553

LETIT GROW INC
52 ACKERSON STREET

RIVER EDGE NJ, 07661

Order Number: 1
H1 - H2 GREENPOINT
Tons: 0.000
Loads: 10

TNT-3 - TNT #3

| | | | | |
|---|---|---|---|---|
| Gross | 0 | Scale 0 | 5/10/2023 | 10:22 AM |
| Tare | 0 | | | |
| Net | 0 | | | |

0.00 tons

Material

TOP SOIL BY THE YARD 20.000 YD

WeighMaster:PAM - PAM

Driver Signature: _____

Remarks: REPLACES TICKET #32118
H1 - H2 GREENPOINT

Ranco Sand & Stone
151 South Street
Manorville NY, 11949

Ticket #: 501436
Date: 5/19/2023
Phone: (631) 874-3939
Fax: (631) 874-3553

LETIT GROW INC
52 ACKERSON STREET

RIVER EDGE NJ, 07661

Order Number: 1
H1 - H2 GREENPOINT
Tons: 0.000
Loads: 15

TRUCKS - VARIOUS TRUCKS

| | | | | |
|---|---|---|---|---|
| Gross | 0 | Scale 0 | 6/1/2023 | 9:38 AM |
| Tare | 0 | | | |
| Net | 0 | | | |

Material

0.00 tons

FUEL SURCHARGE @10% OF TOTAL COST OF YARDS

378.000 YD

WeighMaster:PAM - PAM

Driver Signature: _____

Remarks: FUEL SURCHARGE @ 10% OF TOTAL COST $3780

Ranco Sand & Stone
151 South Street
Manorville NY, 11949

Ticket #: 501198
Date: 5/18/2023
Phone: (631) 874-3939
Fax: (631) 874-3553

LETIT GROW INC
52 ACKERSON STREET

RIVER EDGE NJ, 07661

Order Number: 1
H1 - H2 GREENPOINT
Tons: 0.000
Loads: 12

GBO-2014 - GBO #2014

| | | | | |
|---|---|---|---|---|
| Gross | 0 | Scale 0 | 5/22/2023 | 10:45 AM |
| Tare | 0 | | | |
| Net | 0 | | | |
| | 0.00 tons | | | |
| | 20.000 YD | | | |

Material

TOP SOIL BY THE YARD

WeighMaster:PAM - PAM

Driver Signature: _____

Remarks: REPLACES TICKET #32403
H1 - H2 GREENPOINT

22.17

32421

**Ranco Sand & Stone Corp.**

151 SOUTH STREET
MANORVILLE, NEW YORK 11949
OFFICE PHONE: 874-3939 • 874-3993

DATE 5/19/23

BUYER Lehigh Grou - GBC #3014 - Greenport

TOPSOIL

Planting Soil

GROSS

TARE

NET 20 yds

WEIGHED BY mike mcGuire

SIGNED BY mike mcGuire

Ranco Sand & Stone
151 South Street
Manorville NY, 11949

Ticket #: 501201
Date: 5/19/2023
Phone: (631) 874-3939
Fax: (631) 874-3553

LET IT GROW INC
52 ACKERSON STREET

RIVER EDGE NJ, 07661

Order Number: 1
H1 - H2 GREENPOINT
Tons: 0.000
Loads: 13

GBO-2014 - GBO #2014

| | | | | |
|---|---|---|---|---|
| Gross | 0 | Scale 0 | 5/22/2023 | 11:12 AM |
| Tare | 0 | | | |
| Net | 0 | | | |

Material

0.00 tons

TOP SOIL BY THE YARD

20.000 YD

WeighMaster:PAM - PAM

Driver Signature: _____

Remarks: REPLACES TICKET #32421
H1 - H2 GREENPOINT

22-17

32423

**Ranco Sand & Stone Corp.**
151 SOUTH STREET
MANORVILLE, NEW YORK 11949
OFFICE PHONE: 874-3939 • 874-3993

DATE 5/17/23

BUYER Let It Grow
TNT 10 35 Commercial
Greenpoint

TOPSOIL

GROSS

20yds TARE

NET

planting soil

WEIGHED BY [illegible]

SIGNED BY Tony

Ranco Sand & Stone
151 South Street
Manorville NY, 11949

Ticket #: 501202
Date: 5/19/2023
Phone: (631) 874-3939
Fax: (631) 874-3553

LET IT GROW INC
52 ACKERSON STREET

RIVER EDGE NJ, 07661

Order Number: 1
H1 - H2 GREENPOINT
Tons: 0.000
Loads: 14

TNT-10 - TNT LEASING #10

| | | | | |
|---|---|---|---|---|
| Gross | 0 | Scale 0 | 5/22/2023 | 11:13 AM |
| Tare | 0 | | | |
| Net | 0 | | | |

0.00 tons

Material

TOP SOIL BY THE YARD

20.000 YD

WeighMaster:PAM - PAM

Driver Signature: _____

Remarks: REPLACES TICKET #32423
H1 - H2 GREENPOINT

## Tyler Goodnough

**From:** Curley, Ruth E (DEC) <ruth.curley@dec.ny.gov>
**Sent:** Tuesday, July 26, 2022 3:42 PM
**To:** Greg Wyka; Tyler Goodnough
**Cc:** Curley, Ruth E (DEC)
**Subject:** [External] Approval of Material Import Request

All -

The Department has reviewed the request dated 07/22/2022 to import 1000 CY of fill material from Tilcon-Clinton Point and 1000 CY virgin stone from ECMI Hamburg. Based on the information provided, the request is hereby approved.

The proposed fill material meets the requirements for material other than soil (i.e., gravel, rock, stone, recycled concrete or recycled brick) as specified in section 5.4(e)5 of DER-10.

Therefore, this material may be placed below the demarcation barrier or above the demarcation layer as part of final site cover.

As noted in earlier correspondence, please ensure that the quantity of stone used for remedial purposes (the 2 foot cover system) at the site is documented in the FER.

**Ruth Curley**
Professional Engineer 1 (Environmental)
Division of Environmental Remediation
**New York State Department of Environmental Conservation**
625 Broadway, 12th Floor Albany, NY 12233-7016
P: 518-402-9480 | F: 518-402-9773 | ruth.curley@dec.ny.gov
www.dec.ny.gov | | | 

EASTERN
CONCRETE MATERIALS

| *Approved Crushed Stone* | *Certified Fill Materials* | *Washed Sand Products* |
|---|---|---|


***Hamburg Stone Quarry***
3620 Route 23
Hamburg, NJ 07419

***Glen Gardner Stone Quarry***
Railroad Ave
Glen Gardner, NJ 08826

***Wantage Quarry***
80 Route 23
Hamburg, NJ 07419

***Quinton Sand***
358 Quinton Marlboro Rd.
Bridgeton, NJ 08072

**Order toll free- (888) 913-7625**
Dispatch office phone (973) 827-7625


# Material Certification

Please be advised that our aggregate production facilities listed above manufacture construction materials, and fill materials, from the virgin properties as described herein;

**Hamburg Stone Quarry-** Crushed stone products and environmental fill materials are produced from virgin rock, and property, located in Sussex County NJ, Township of Hardyston, block 14, lot 15.
Approved source: NY DOT 8-48R.

**Glen Gardner Stone Quarry**- Materials are produced from virgin rock, and property, located in Hunterdon County NJ, Borough of Glen Gardner, Lebanon Township, blocks 21 and 9, lots 32, 37, 38, 100, and 6.
Approved source: NY 10-47R.

**Wantage Stone Quarry**- Crushed stone products and environmental fill materials are produced from virgin rock, and property, located in Sussex County, Wantage Twp, Block 11, Lot 5.
Approved source: NY DOT 8-96R.

**Quinton Sand Facility –** Sand materials are produced from virgin property located in Quinton Township, Salem County, NJ block 35, lots 54, 63, 64, 66, 67.
Approved source: NY 10-189F

To the best of our knowledge, these materials are not contaminated with any hazardous substances while on our properties as listed above.

If you require additional information, please contact our office.
*Eastern Concrete Materials, Inc.*
***Aggregates Division***

# Aggregate Test Report

**Report Date :** 6/9/2022

## 25290 - ASTM #57 3/4" STONE

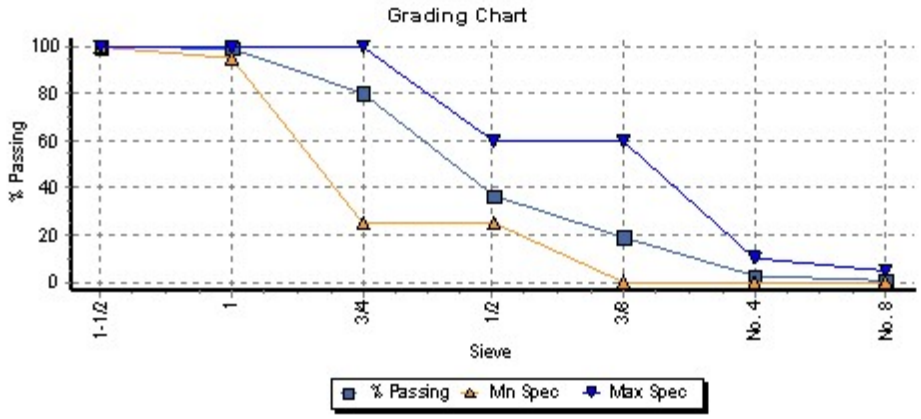
| | | | |
|---|---|---|---|
| Sample ID : | Sample 1 | Customer : | |
| Sample Date : | 6/8/2022 | Project : | |
| Sample By : | | Laboratory : | AG_LAB - ECMI - AGGREGATES LAB |
| Supplier : | ECMI | Plant : | HAMBURG QUARRY |
| Supplier Source : | HAMBURG | Specification : | ASTM C33 #57 - all |
| Supplier Reference No : | | Class : | |

| Sieve (in) | % Passing | Specification | |
|---|---|---|---|
| | | Min | Max |
| 1-1/2 | 100.0 | 100.0 | 100.0 |
| 1 | 98.9 | 95.0 | 100.0 |
| 3/4 | 79.9 | 25.0 | 100.0 |
| 1/2 | 37.2 | 25.0 | 60.0 |
| 3/8 | 19.3 | 0.0 | 60.0 |
| No. 4 | 3.3 | 0.0 | 10.0 |
| No. 8 | 1.1 | 0.0 | 5.0 |

**Testing Results**

| | |
|---|---|
| Fineness Modulus | 6.96 |

**Comments :** Shipping




Project Engineer :

Test Lab Supervisor : MORSIA THOMAS

Date : 6/9/2022

Certification #:

Philip D. Murphy
Governor

Sheila Y. Oliver
Lieutenant Governor

State of New Jersey
DEPARTMENT OF LABOR AND WORKFORCE DEVELOPMENT
LABOR STANDARDS AND SAFETY ENFORCEMENT
DIVISION OF PUBLIC SAFETY & OCCUPATIONAL SAFETY & HEALTH
Office of Safety Compliance
P.O. Box 386
Trenton, NJ 08625-0386
(609) 292-2096 • Fax: (609) 777-4589

Robert Asaro-Angelo
Commissioner

**Certificate No:** 004902

**Expiration Date:** 03/31/2023

# MINE REGISTRATION CERTIFICATE

**ISSUED TO:** Eastern Concrete Materials Inc

**LOCATION:** Eastern Concrete Materials Inc
3620 Rte# 23 N
Hamburg, NJ

**BLK NO(S):** SEE BELOW

**LOT NO(S):** SEE BELOW

**COUNTY:** Sussex

**FEE:** $3,000.00

Issued pursuant to the provisions of N.J.S.A 34:6-98.1 et. seq. Failure to comply with the provisions of the Act, and the Rules promulgated thereunder, shall be good cause for the revocation of this Certificate.

R A Angelo
Commissioner

## THIS CERTIFICATE MUST BE POSTED AT ALL TIMES

| BLOCK NO(S) | LOT NO(S) |
|---|---|
| **3620 Rte# 23 N** | |
| 14 | 11, 14, 15, 16, 6.01, 7, 22, 22.01 |

Philip D. Murphy
Governor

Sheila Y. Oliver
Lieutenant Governor

State of New Jersey
DEPARTMENT OF LABOR AND WORKFORCE DEVELOPMENT
LABOR STANDARDS AND SAFETY ENFORCEMENT
DIVISION OF PUBLIC SAFETY & OCCUPATIONAL SAFETY & HEALTH
Office of Safety Compliance
P.O. Box 386
Trenton, NJ 08625-0386
(609) 292-2096 • Fax: (609) 777-4589

Robert Asaro-Angelo
Commissioner

**Certificate No:** 004901

**Expiration Date:** 03/31/2023

# MINE REGISTRATION CERTIFICATE

**ISSUED TO:** Eastern Concrete Materials Inc

**LOCATION:** Eastern Concrete Materials Inc
50 Blair Rd
Hamburg, NJ

**BLK NO(S):** SEE BELOW

**LOT NO(S):** SEE BELOW

**COUNTY:** Sussex

**FEE:** $3,000.00

Issued pursuant to the provisions of N.J.S.A 34:6-98.1 et. seq. Failure to comply with the provisions of the Act, and the Rules promulgated thereunder, shall be good cause for the revocation of this Certificate.

R A Angelo
Commissioner

## THIS CERTIFICATE MUST BE POSTED AT ALL TIMES

| BLOCK NO(S) | LOT NO(S) |
|---|---|
| **50 Blair Rd** | |
| 11 | 5.01, 5.02 |

# Vulcan Materials Company

HAMBURG QUARRY, LLC
HAMBURG
3620 Route 23
Hamburg, NJ 07419

**DANGER**

**PELIGRO**

**Do not handle until the safety information presented in the Safety Data Sheet (SDS) has been read and understood. Follow applicable local, state and federal health and safety standards. For further health and safety information regarding this product, please refer to the SDS. An electronic version of the SDS is available at http://www.vulcanmaterials.com/construction-materials/safety-data-sheets or by calling 1-866-401-5424**

**No usar hasta que la informacion de seguridad presentada en la Ficha de Datos de Seguridad (SDS) haya sido completemente leida y entendida. Siga las reglas locales, estatales y federales de salud y seguridad. Para mayor informacion sobre la salud y seguridad de este producto, por favor referirse al documento de SDS. Una version de SDS electronica esta disponsible en http://www.vulcanmaterials.com/construction-materials/safety-data-sheets o llamando al 1-866-401-5424**

| RECEIVED BY: X DRIVER | | CUSTOMER/CONSIGNEE | |
|---|---|---|---|
| DATE 3/28/2023 | TIME 5:38AM | PLANT 7288-112 HAMBURG | Ticket No 54045386 |

Note: When initialized below the aggregate shipped under this certificate has been tested and conforms to the requirements of VDOT except for crushed concrete and other non-specification products not listed in the VDOT standard specifications:

**Public weighmaster license**
State NY DONALD J SMITH

Expires

Vulcan Materials Company

Invalid unless signed or initialed

**LIMITED WARRANTY AND WARRANTY DISCLAIMER:** Seller warrants for a period of one (1) year from date of delivery only that the material sold hereunder substantially complies with Seller's specification for said material or the specifications set forth in the Seller's quotation. **SELLER HEREBY EXCLUDES ALL WARRANTIES OF MERCHANTABILITY AND FITNESS FOR ANY PURPOSE, AND ALL OTHER WARRANTIES, EXPRESS OR IMPLIED, OF THE MATERIAL SOLD HEREUNDER, OTHER THAN THE EXPRESS WARRANTY STATED ABOVE.** In addition, except to the extent otherwise set forth in the specification described above, Seller makes no warranty whatsoever with respect to specific gravity, absorption, whether the material is innocuous, non-deleterious, or non-reactive, or whether the material is in conformance with any plans, other specifications, regulations, ordinances, statutes, or other standards applicable to customer's job or to said material as used by customer, SELLER SHALL IN NO EVENT BE RESPONSIBLE FOR ANY INCIDENTAL OR CONSEQUENTIAL DAMAGE CAUSED BY NON-COMPLIANCE OF THE MATERIAL WITH SPECIFICATION, OR FOR ANY DEFECTS IN THE MATERIALS SOLD HEREUNDER.

ALL SALES AND DELIVERS MADE SUBJECT TO SELLER'S GENERAL TERMS AND CONDITIONS.

AS EVIDENCED BY SIGNATURE, OR DEPARTURE FROM SELLER'S FACILITY, CARRIER ACKNOWLEDGES THAT CARRIER IS SOLELY RESPONSIBLE FOR THE ACCURACY OF THIS VEHICLE'S TARE WEIGHT, AXLE WEIGHTS AND GROSS WEIGHT. CARRIER SHALL BE RESPONSIBLE FOR NOTIFYING SELLER WHEN ANY TRUCK OR TRAILER HAS BEEN OVERLOADED SO AS TO RENDER IT OUT OF COMPLIANCE WITH ANY APPLICABLE WEIGHT LIMITS. TO THE MAXIMUM EXTENT ALLOWED BY LAW, CARRIER SHALL INDEMNIFY SELLER FOR ANY LOSS CAUSED BY OVERLOADING.

**TRUCK TARE AND GROSS WEIGHTS ARE DETERMINED WITH THE DRIVER IN THE VEHICLE.**

| CUSTOMER: 6377163 CK# LET IT GROW INC | CUSTOMER PURCHASE ORDER: | GOVT CONTRACT: | |
|---|---|---|---|
| ORDER: 1683172 | Commercial Street, Brooklyn, NY 35 Commercial Street | DELIVERED Dispatch: 498713 | |
| DESTINATION: 2 | Commercial Street, Brooklyn, NY 35 Commercial Street 201-954-7039 | ZONE/MILES 54 MILES | |
| PRODUCT: 25290 | ASTM #57 3/4"" STONE | | |

COMMENTS: 201-954-7039 MIKE

| | | | | | | |
|---|---|---|---|---|---|---|
| TRUCK E6601 | 2021 KENWORTH | CARRIER 118465 | KMT TRUCKING LLC | | | |
| LICENSE AX304C | Triaxle | TRAILER ID NO | TRAILER ID NO | | | |
| FREIGHT TYPE A | AXLES 0 | TARE DATE 03/21/2023 | TARE EXPIRE 04/21/2023 | | | |
| GROSS LBS (Scale 1) 77,880 | TARE LBS (Scale 2) 28,900 | NET LBS 48,980 | TONS 24.49 | TONS TODAY 24.49 | LOADS TODAY 1 | GROSS LEGAL WT 80,000 |
| GROSS KG 35,326 | TARE KG 13,109 | NET KG 22,217 | NET MG 22.22 | MG TODAY 22.22 | IN PLANT 5:26 am | OUT OF PLANT 5:38AM |

| | | | | | | |
|---|---|---|---|---|---|---|
| CASH SALE PER TON | MATERIAL | HAUL | OTHER CHARGE | | | |
| TOTAL | MATERIAL | HAUL | TAX | OTHER CHARGES | COD TOTAL | |
| FREIGHT TIME REPORT | ARRIVE JOB | START UNLOAD | FINISH UNLOAD | JOB TIME | DELAY TIME | |

We make deliveries inside the curb line at the customer's risk only and accept no responsibility whatsoever for damage resulting from such deliveries.

# APPENDIX E

# INSPECTION CHECKLISTS

# SITE INSPECTION CHECKLIST

Site Name: 45 Commercial Street Location: 45 Commercial Street, Brooklyn, NY Project Number: 170229024

Inspector Name: Tyler Goodnough Date: 5/1/2024 Weather Conditions: 70 degrees, partly cloudy

Reason for Inspection (i.e., routine, severe weather condition, etc.): Routine Annual Inspection

Check one of the following:
(Y: Yes N: No NA: Not Applicable)

| | | Y | N | NA | Normal Situation | Remarks |
|---|---|---|---|---|---|---|
| | **General** | | | | | |
| 1 | What are the current site conditions? | -- | -- | -- | -- | Site is occupied by a mixed-use residential and commercial building with ground floor retail and residential units above |
| 2 | Are all applicable site records (e.g., documentation of construction activity, SMD system maintenance and repair, most current easement, etc.) complete and up to date? | X | | | | |
| | | | | | | |
| | **Environmental Easement** | | | | | |
| 3 | Has site use (residential or commercial) remained the same? | X | | | | |
| 4 | Does it appear that all environmental easement restrictions have been followed? | X | | | | |
| | | | | | | |
| | **Composite Cover, Impermeable Cap & SMD System** | | | | | |
| 5 | Are there any indications of a breach in the capping system at the time of this inspection? | | X | | | |
| 6 | Are there any cracks in the building slabs? | | X | | | |
| 7 | Are there any cracks in the building walls? | | X | | | |
| 8 | Is there any construction activity, or indication of any construction activity within the past certification year (including any tenant improvements), that included breaching the capping system or altering the SMD system at the time of this inspection? | X | | | | During the reporting period the site cover system and SMD system were modified. Documentation for these activities is provided in the PRR. |
| 9 | If YES to number 8, is there documentation that the Site Management Plan, HASP, and CAMP for the site was/is being followed? | X | | | | |

*****If the answer to any of the above questions indicate non-compliance with any ICs/ECs for the site, additional remarks must be provided and, where applicable, documentation should be attached to this checklist detailing additional inspection and repair activities.*****

**Additional remarks:**

**Minimum Inspection Schedule:**

- At a minimum, site-wide inspections will be conducted annually, per certification year.
- Additional site-wide inspections will also be conducted immediately following severe storm/weather conditions.
- This checklist will be completed as part of each site-wide inspection event.

# SMD SYSTEM INSPECTION CHECKLIST

Site Name: 45 Commercial Street Location: 45 Commercial Street, NY Project Number: 170229024

Inspector Name: Tyler Goodnough Date: 5/1/2024 Weather Conditions: 70 degrees, partly cloudy

Reason for Inspection (i.e., routine, maintenance, severe condition, etc.): Routine Annual Inspection

Check one of the following: **Y:** Yes **N:** No **NA**: Not Applicable

| | | Y | N | NA | Normal Situation | Remarks |
|---|---|---|---|---|---|---|
| | **Records** | | | | | |
| 1 | Is the Site Management Plan readily available on-site? | X | | | Y | |
| 2 | Based on site records, when was the last inspection, maintenance, or repair event? | | | X | | 1st annual inspection |
| 3 | Based on site records, was the system inoperational for any amount of time since the last inspection, maintenance, or repair event? For how long? Provide details. | | X | | N | The SMD system has shown sub-optimal differential pressure readings at the VMPs since the system was activated in June 2023. The most recent differential pressuring testing event in May 2024 documented some variation in differential pressure readings but documented more consistent negative differential pressures exceeding design criteria. |
| | | | | | | |
| | **Alarm System** | | | | | |
| 4 | Do the alarm lights indicate that the system is operational? | X | | | Y | |
| | | | | | | |
| | **General System** | | | | | |
| 5 | Is there any construction activity, or indication of any construction activity within the past certification year (including any tenant improvements), that included the breaching of the floor slab, on-site at the time of this inspection? | | X | | N | |
| 6 | If YES to number 5, is there documentation that the Soil Management Plan, HASP, and CAMP for the site was/is being followed? | | | X | NA if N to 5/ Y if Y to 5 | |
| 7 | If YES to number 5, is there documentation that all breaches in the floor slab have been sealed? | | | X | NA if N to 5/ Y if Y to 5 | |
| 8 | Does all visible SMD system piping appear intact and undamaged? | X | | | Y | |
| 9 | Have any intake points been constructed at the roof near (less than 10 feet) the SMD system blower discharge point? | | X | | N | |

# SMD SYSTEM INSPECTION CHECKLIST

Site Name: 45 Commercial Street Location: 45 Commercial Street, NY Project Number: 170229024

Inspector Name: Tyler Goodnough Date: 5/1/2024 Weather Conditions: 70 degrees, partly cloudy

Reason for Inspection (i.e., routine, maintenance, severe condition, etc.): Routine Annual Inspection

Check one of the following: **Y:** Yes **N:** No **NA**: Not Applicable

| | | Y | N | NA | Normal Situation | Remarks |
|---|---|---|---|---|---|---|
| | **SMD System Blower Unit** | | | | | |
| 10 | Is the SMD system blower operational at the time of the inspection? | X | | | Y | |
| 11 | What is the VelociCalc Meter reading? | | | | | |
| 12 | Is the SMD system blower expelling air at the discharge point? | X | | | Y | |
| 13 | Have dust and debris been removed from surface of blower? | X | | | Y | |
| 14 | Have dirty or clogged filter cartridges been replaced? | | | X | Y | Filters are new and observed to be free of dirt and debris |
| 15 | Vacuum Monitoring Point Differential Pressure Readings | **Reading** | | | **Sufficient?** | **Remarks** |
| | VP-1 | -0.022 / -0.011 | | | Y | Readings are averages from testing on 5/1 (first number) and 5/2/2024 (second number). The full data set is included in Appendix C. |
| | VP-2 | -0.010 / -0.012 | | | Y | |
| | VP-3 | -0.024 / -0.010 | | | Y | |
| | VP-4 | -0.005 / +0.001 | | | N | |
| | VP-5 | -0.119 / -0.106 | | | Y | |

*** If the answer to any of the above questions indicate the SMD system is non-operational or malfunctioning, or that this EC is in non-compliance,additional remarks must be provided and, where applicable, documentation attached to this checklist detailing additional inspection and repair activities.**

**Additional remarks** The SMD system has shown sub-optimal differential pressure readings at the VMPs since the system was activated in June 2023. The most recent differential pressuring testing event in May 2024 documented some variation in differential pressure readings but documented more consistent negative differential pressures exceeding design criteria.

**Minimum Inspection Schedule: SMD inspections will be conducted quarterly for the first certification year at a minimum. Additional inspections will also be conducted at times of maintenance, repair, or severe condition events. The minimum schedule will be revised, as necessary, following the first certification year. All inspection events will utilize this checklist.**

# APPENDIX F

# COVER SYSTEM INSPECTION PHOTOGRAPHS

LANGAN

# Photograph Log

| Client Name: | Site Location: | Project No. |
|---|---|---|
| H1H2 Owner LLC | 45 Commercial Street, Brooklyn, New York | 170229024 |

| Date | Photo No. |
|---|---|
| 3/27/2023 | 1 |

**Direction Photo Taken:**

Northeast

**Description:**

View of black geotextile fabric installed prior to topsoil backfilling in the north courtyard

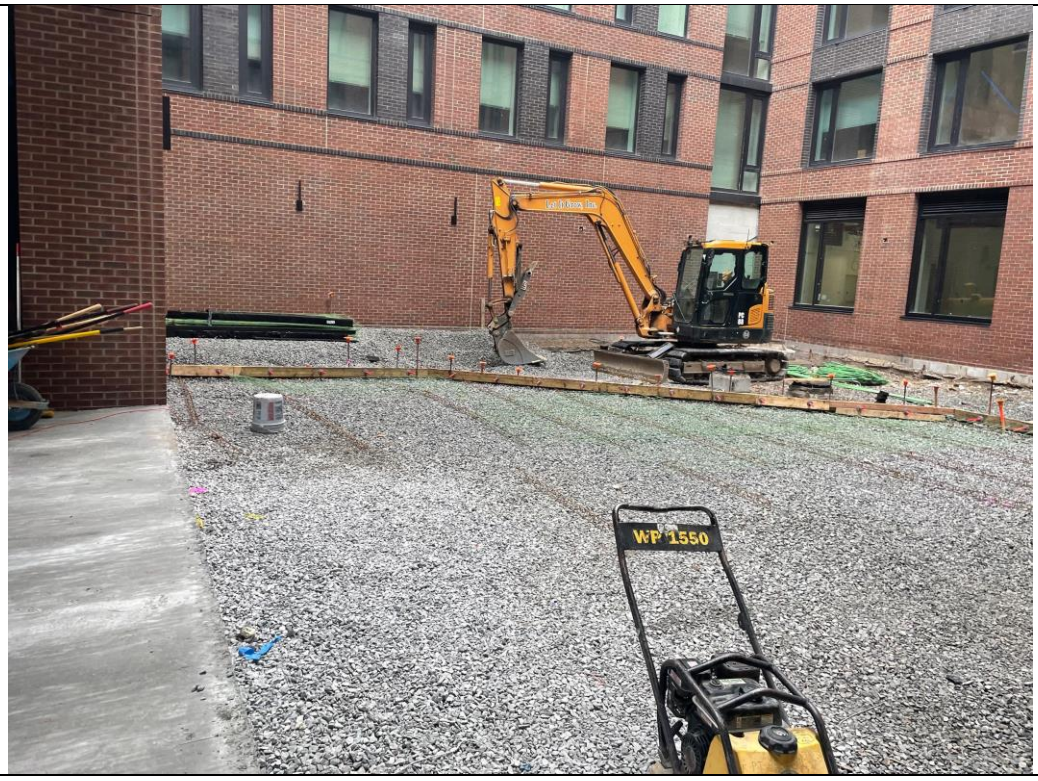
| Date | Photo No. |
|---|---|
| 4/5/2023 | 2 |

**Direction Photo Taken:**

West

**Description:**

View of imported stone backfill and concrete slab partially installed in the southern courtyard



LANGAN

# Photograph Log

| Client Name: | Site Location: | Project No. |
|---|---|---|
| H1H2 Owner LLC | 45 Commercial Street, Brooklyn, New York | 170229024 |

| Date | Photo No. |
|---|---|
| 5/1/2024 | 3 |

**Direction Photo Taken:**

East

**Description:**

View of residential entrance at the eastern part of the building

| Date | Photo No. |
|---|---|
| 5/1/2024 | 4 |

**Direction Photo Taken:**

West

**Description:**

View of bike room at the central part of the building

LANGAN

# Photograph Log

| Client Name: | Site Location: | Project No. |
|---|---|---|
| H1H2 Owner LLC | 45 Commercial Street, Brooklyn, New York | 170229024 |

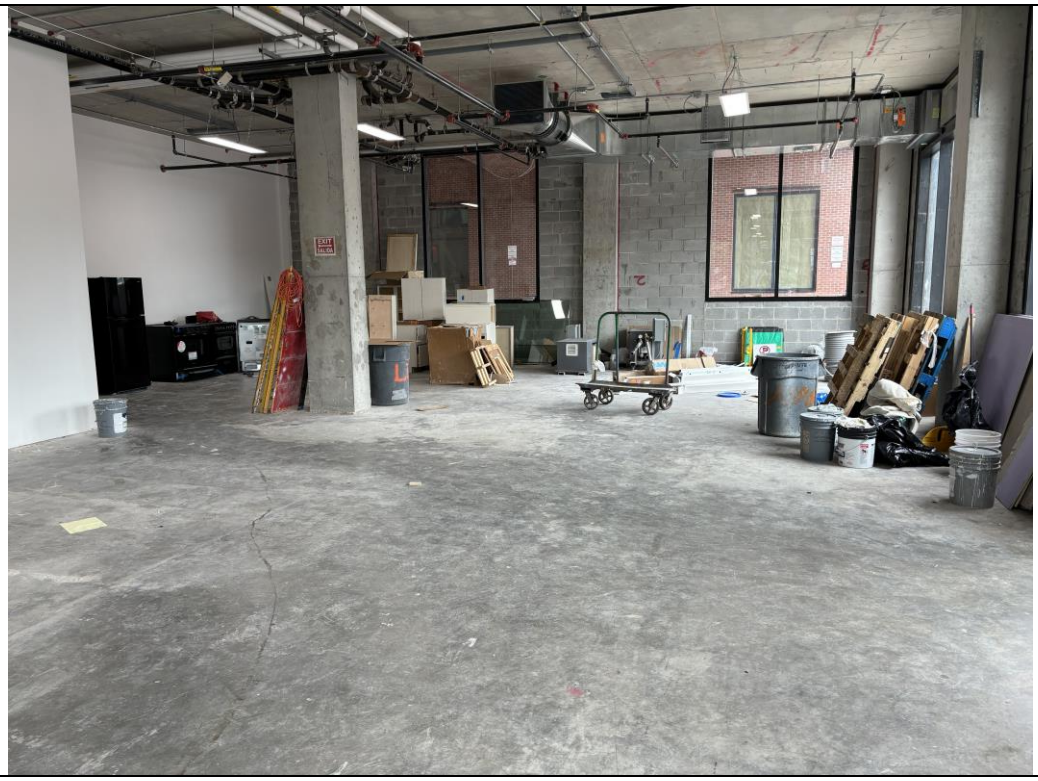
| Date | Photo No. |
|---|---|
| 5/1/2024 | 5 |

**Direction Photo Taken:**

East

**Description:**

View of vacant commercial space at the southwestern corner of the building



| Date | Photo No. |
|---|---|
| 5/1/2024 | 6 |

**Direction Photo Taken:**

North

**Description:**

View of commercial space currently under renovation at the southeastern corner of the building

LANGAN

# Photograph Log

| Client Name: | Site Location: | Project No. |
|---|---|---|
| H1H2 Owner LLC | 45 Commercial Street, Brooklyn, New York | 170229024 |

| Date | Photo No. |
|---|---|
| 5/1/2024 | 7 |

**Direction Photo Taken:**

South

**Description:**

View of residential corridor at the northwestern part of the building

| Date | Photo No. |
|---|---|
| 5/1/2024 | 8 |

**Direction Photo Taken:**

Northwest

**Description:**

View of final cover system installed in the north courtyard

LANGAN

# Photograph Log

| Client Name: | Site Location: | Project No. |
|---|---|---|
| H1H2 Owner LLC | 45 Commercial Street, Brooklyn, New York | 170229024 |

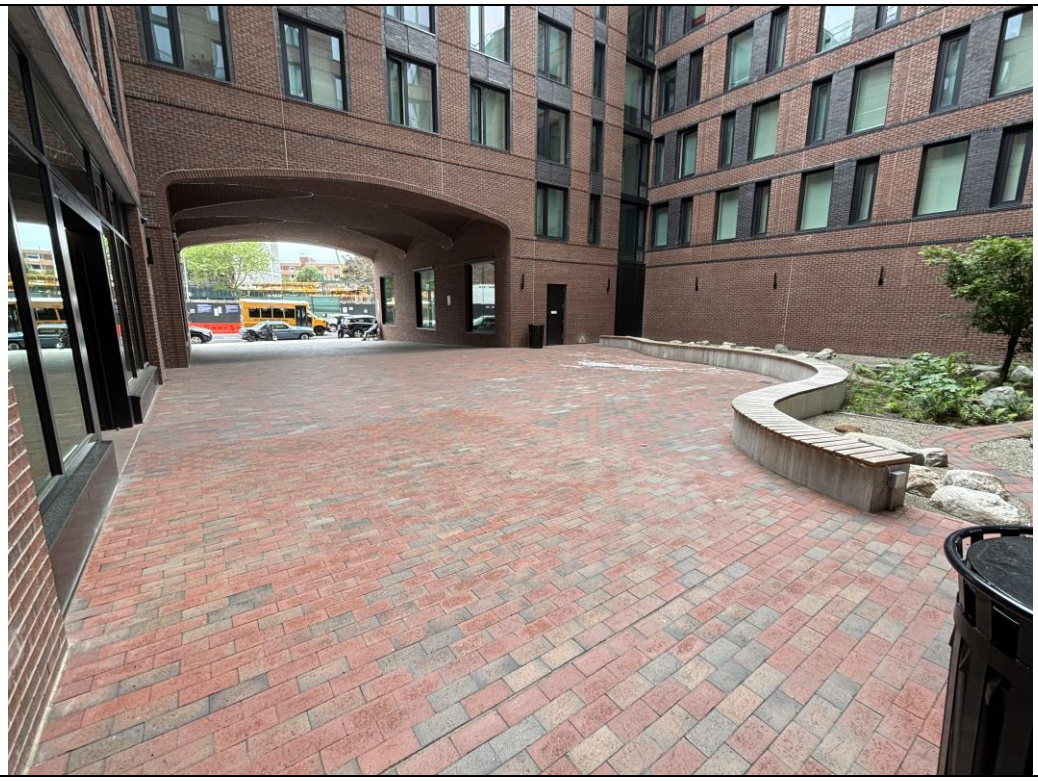
| Date | Photo No. |
|---|---|
| 5/1/2024 | 9 |

**Direction Photo Taken:**

Southeast

**Description:**

View of final cover system installed in the south courtyard



| Date | Photo No. |
|---|---|
| 5/1/2024 | 10 |

**Direction Photo Taken:**

North

**Description:**

Final cover system installed in the east courtyard

# APPENDIX G

# IC/EC CERTIFICATION FORM

**Enclosure 2**
**NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION**
**Site Management Periodic Review Report Notice**
**Institutional and Engineering Controls Certification Form**

**Site Details** **Box 1**

**Site No. C224304**

**Site Name 45 Commercial Street**

Site Address: 45 Commercial Street Zip Code: 11222
City/Town: Brooklyn
County: Kings
Site Acreage: 1.020

Reporting Period: December 15, 2022 to April 15, 2024

| | YES | NO |
|---|---|---|
| 1. Is the information above correct? | X | ☐ |
| If NO, include handwritten above or on a separate sheet. | | |
| 2. Has some or all of the site property been sold, subdivided, merged, or undergone a tax map amendment during this Reporting Period? | ☐ | X |
| 3. Has there been any change of use at the site during this Reporting Period (see 6NYCRR 375-1.11(d))? | ☐ | X |
| 4. Have any federal, state, and/or local permits (e.g., building, discharge) been issued for or at the property during this Reporting Period? | ☐ | X |
| **If you answered YES to questions 2 thru 4, include documentation or evidence that documentation has been previously submitted with this certification form.** | | |
| 5. Is the site currently undergoing development? | ☐ | X |

**Box 2**

| | YES | NO |
|---|---|---|
| 6. Is the current site use consistent with the use(s) listed below? Restricted-Residential, Commercial, and Industrial | X | ☐ |
| 7. Are all ICs in place and functioning as designed? | X | ☐ |

**IF THE ANSWER TO EITHER QUESTION 6 OR 7 IS NO, sign and date below and DO NOT COMPLETE THE REST OF THIS FORM. Otherwise continue.**

**A Corrective Measures Work Plan must be submitted along with this form to address these issues.**

Signature of Owner, Remedial Party or Designated Representative Date

**Box 2A**

| | YES | NO |
|---|---|---|
| 8. Has any new information revealed that assumptions made in the Qualitative Exposure Assessment regarding offsite contamination are no longer valid? | ☐ | X |

**If you answered YES to question 8, include documentation or evidence that documentation has been previously submitted with this certification form.**

| | | |
|---|---|---|
| 9. Are the assumptions in the Qualitative Exposure Assessment still valid? (The Qualitative Exposure Assessment must be certified every five years) | X | ☐ |

**If you answered NO to question 9, the Periodic Review Report must include an updated Qualitative Exposure Assessment based on the new assumptions.**

**SITE NO. C224304** **Box 3**

**Description of Institutional Controls**

| Parcel | Owner | Institutional Control |
|---|---|---|
| **2472-70** | H1H2 Owner LLC | Ground Water Use Restriction<br>Site Management Plan<br>IC/EC Plan |

Described in 3.2 of SMP
Use of property is restricted residential
Use of groundwater is prohibited without treatment, and approval by NYSDEC
Any disturbance of remaining contamination must comply with SMP and EWP
Monitoring and Operation and Maintenance performed as indicated in SMP
Access provided to NYSDEC
Potential for Vapor Intrusion must be evaluated for any future buildings developed at the site

**Box 4**

**Description of Engineering Controls**

| Parcel | Engineering Control |
|---|---|
| **2472-70** | Vapor Mitigation<br>Cover System |

Sitewide Cover System consisting of building slab, concrete and/or stone cover
Sub-Membrane Depressurization System

**Box 5**

**Periodic Review Report (PRR) Certification Statements**

1. I certify by checking "YES" below that:

   a) the Periodic Review report and all attachments were prepared under the direction of, and reviewed by, the party making the Engineering Control certification;

   b) to the best of my knowledge and belief, the work and conclusions described in this certification are in accordance with the requirements of the site remedial program, and generally accepted engineering practices; and the information presented is accurate and compete.

| YES | NO |
|---|---|
| X | ☐ |

2. For each Engineering control listed in Box 4, I certify by checking "YES" below that all of the following statements are true:

   (a) The Engineering Control(s) employed at this site is unchanged since the date that the Control was put in-place, or was last approved by the Department;

   (b) nothing has occurred that would impair the ability of such Control, to protect public health and the environment;

   (c) access to the site will continue to be provided to the Department, to evaluate the remedy, including access to evaluate the continued maintenance of this Control;

   (d) nothing has occurred that would constitute a violation or failure to comply with the Site Management Plan for this Control; and

   (e) if a financial assurance mechanism is required by the oversight document for the site, the mechanism remains valid and sufficient for its intended purpose established in the document.

| YES | NO |
|---|---|
| X | ☐ |

**IF THE ANSWER TO QUESTION 2 IS NO, sign and date below and DO NOT COMPLETE THE REST OF THIS FORM. Otherwise continue.**

**A Corrective Measures Work Plan must be submitted along with this form to address these issues.**

_____ _____

Signature of Owner, Remedial Party or Designated Representative Date

**IC CERTIFICATIONS**
**SITE NO. C224304**

**Box 6**

**SITE OWNER OR DESIGNATED REPRESENTATIVE SIGNATURE**

I certify that all information and statements in Boxes 1,2, and 3 are true. I understand that a false statement made herein is punishable as a Class "A" misdemeanor, pursuant to Section 210.45 of the Penal Law.

I Guy Morton (print name) at H1H2 Owner LLC, 535 Madison Avenue, 35th Floor, NY,NY 10022 (print business address),

am certifying as Owner (Owner or Remedial Party)

for the Site named in the Site Details Section of this form.

Guy Morton
Signature of Owner, Remedial Party, or Designated Representative Rendering Certification

6/10/2024
Date

## EC CERTIFICATIONS

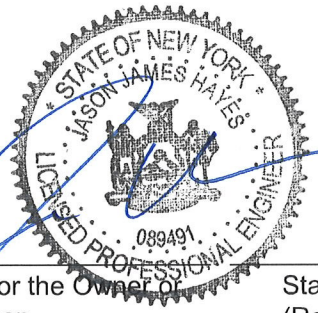
**Box 7**

### Professional Engineer Signature

I certify that all information in Boxes 4 and 5 are true. I understand that a false statement made herein is punishable as a Class "A" misdemeanor, pursuant to Section 210.45 of the Penal Law.

I Jason Hayes at 360 W 31st St, 8th Fl, New York, NY,
print name print business address

am certifying as a Professional Engineer for the OWNER
(Owner or Remedial Party)




Signature of Professional Engineer, for the Owner or Remedial Party, Rendering Certification

Stamp (Required for PE)

6/10/2024
Date