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**131 Sunnyside, LLC**

# **Soil Vapor Extraction Interim Remedial Measure Summary Report**

**Former United Stellar Industries  
131 Sunnyside Boulevard  
Plainview, New York  
NYSDEC Site Number 1-30-115**

March 15, 2023

# Soil Vapor Extraction Interim Remedial Measure Summary Report

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**131 Sunnyside Boulevard**  
**Plainview, New York**  
**NYSDEC Site Number 1-30-115**

March 15, 2023

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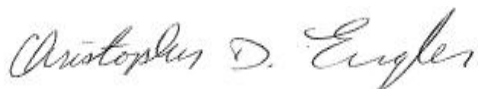
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## Acronyms and Abbreviations

|        |                                                         |
|--------|---------------------------------------------------------|
| CSM    | conceptual site model                                   |
| ft bls | feet below land surface                                 |
| HSA    | hollow-stem auger                                       |
| IRM    | interim remedial measure                                |
| NYSDEC | New York State Department of Environmental Conservation |
| NYSDOH | New York State Department of Health                     |
| PVC    | polyvinyl chloride                                      |
| ROI    | radius of influence                                     |
| SVE    | soil vapor extraction                                   |
| SVI    | Soil Vapor Investigation                                |
| VOC    | volatile organic compound                               |

## 1 Introduction

On behalf of 131 Sunnyside, LLC, Arcadis has prepared this Soil Vapor Extraction Interim Remedial Measure Summary Report to describe the testing and evaluation of two soil vapor extraction (SVE) systems identified as SVE-1 and SVE-2 that were installed at 131 Sunnyside Boulevard Plainview, New York (Site) as part of an interim remedial measure (IRM) identified in the Soil Vapor Extraction Interim Remedial Measure Work Plan (Work Plan) dated October 7, 2021.

## 2 Site Background

Based on data that were collected in July 2010 and December 2020, trichloroethene (TCE) was identified in soil vapor at the SV-11 location and cis-1,2-dichloroethene (cis-1,2-DCE) was found in soil vapor at the SV-1 location (Figure 1). As described in the Soil Vapor Screening Evaluation Summary Report (Arcadis 2021), these VOC concentrations in soil vapor appeared to be relatively localized based on data from nearby soil vapor sample locations such as SV-12 (near SV-11) and SV-9 (near SV-1). To further evaluate soil vapor quality in the vicinity of temporary soil vapor point SV-11, two (2) permanent soil vapor probes (SV-13 and SV-14) were installed along the eastern property boundary. These soil vapor probe locations are shown on Figure 1 and are positioned along the edge of the parking lot pavement, which is the furthest east that a drill rig was able to safely access before the topography slopes downward to the adjacent property to the east.

Concentrations of TCE in soil vapor at SV-13 and SV-14 in March 2022 were 1,400 ug/m<sup>3</sup> and 23 ug/m<sup>3</sup>, respectively, which further corroborated the premise that VOC concentrations in soil vapor appeared to be relatively localized and also diminish significantly toward the eastern property boundary. Based on this information, it was determined that a SVE IRM test would be implemented to assess whether the concentrations at SV-1 and SV-11 are the result of residual vapors trapped below the paved surfaces of the parking lot. The purpose of the SVE IRM was to remove, as reasonably as practical, the VOCs that have accumulated in soil vapor beneath the asphalt parking lot surface.

The SVE IRM consists of two SVE systems (SVE-1 and SVE-2) that were installed in the vicinity of the temporary soil vapor points SV-1 and SV-11.M). The location of SVE-1 and SVE-2 is shown on Figure 1.

## 3 SVE IRM System Design and Construction

Two (2) SVE wells (SVE-1 and SVE-2) were installed on February 17, 2022 to serve as extraction points for removal of VOC-impacted soil vapor. SVE-1 was installed in the vicinity of SV-11 and SVE-2 was installed in the vicinity of SV-1.

The SVE wells were constructed with 4-inch diameter Schedule 40 polyvinyl chloride (PVC) casing and 5 feet of 4-inch diameter Schedule 40 PVC screen. The SVE wells were screened from 5 to 10 ft bls to target the interval where elevated concentrations of VOCs were detected in shallow soil vapor in December 2020 (Arcadis 2021). The SVE wells were installed using hollow-stem auger (HSA) drilling methodology.

Each SVE well was connected to a portable SVE blower skid unit via permanently installed 4-inch diameter Schedule 80 PVC piping located beneath asphalt parking lot areas. Each SVE blower skid unit was equipped with a 7.5 HP, 230 VAC, regenerative blower capable of 68 inches water column (iwc) vacuum at 381 CFM and a

moisture knockout tank with high level alarm. SVE blower skid units were staged in parking lot areas away from traffic flow at a landscape island (SVE-1) near the SV-11 soil vapor sample location and at a dumpster enclosure (SVE-2) near the SV-1 soil vapor sample location. A layer of 10 mil polyethylene sheeting was used to cover an exposed soil area at the SVE-1 landscape island location to mitigate potential for “short circuiting” of the SVE vacuum influence to the atmosphere. SVE Design Drawings are included in Appendix A.

Four (4) induced vacuum monitoring points (VMPs) were installed around each SVE well (total of eight [8] vapor monitoring points [VMP-1 through VMP-8]) at distances of approximately 20, 40, 60, and 80 feet and in various directions from the SVE wells to determine the radius of influence (ROI) based on a minimum vacuum level (relative to ambient pressure) of 0.1 inches of water column measured at each monitoring point.

The VMPs were constructed with 1-inch diameter Schedule 40 PVC casing and 5 feet of 1-inch diameter Schedule 40 PVC screen and were screened from 5 to 10 ft bls (i.e., screened in the same interval as the SVE wells). The locations of the SVE wells and induced vacuum monitoring points are shown on Figure 1.

## 4 SVE IRM System Operation and Soil Gas Sampling

The SVE IRM systems were operated 24 hours per day, 7 days a week (24/7) for a period of approximately 4 weeks each. Monitoring data was collected from the induced vacuum monitoring points during the first week of system operations and during three subsequent sample events to determine the radius of influence (ROI). Influent air samples were collected to evaluate system effectiveness and to assess if there was a decline in VOC mass removal (i.e., asymptotic behavior) during the course of the operational period and during the post-shutdown monitoring period (i.e., to assess rebound in VOC concentrations).

The SVE-2 system experienced a shut down shortly after initial startup due to a condensate knockout tank high level alarm and was off for approximately 6 days. The SVE-2 system was therefore operated for an extra week beyond the SVE-1 system to meet the four (4) week operational plan.

### 4.1 System Parameter Measurements

SVE system vacuum, pressure, temperature, and air flow velocity parameters were recorded during systems operation. Vacuum was also measured at VMP-1 through VMP-4 to determine the ROI for the SVE-1 system and at VMP-5 through VMP-8 to determine the ROI for the SVE-2 system. System parameter readings are included in Table 1.

## 4.2 Soil Vapor Sampling

During the operational period, SVE-1 and SVE-2 system influent samples were collected on a weekly basis from the influent sample port on the vacuum side of the blower motor, prior to the moisture knockout tank, to dedicated 5-liter polypropylene Tedlar bags provided by Alpha Analytical, a NYSDOH approved laboratory, located in Westborough, Massachusetts. All samples were delivered to Alpha Analytical via courier service for laboratory analysis by U.S. Environmental Protection Agency (USEPA) Method TO-15. Rebound monitoring (i.e., post shutdown soil vapor sampling) was performed one (1) week following the initial system shutdowns and again at the 5<sup>th</sup> week of system shutdown for SVE-1 system shutdown and the 6<sup>th</sup> week of SVE-2 system shutdown.

## 5 SVE IRM System Data Evaluation

### 5.1 Radius of Influence

Induced vacuum readings were collected at VMP-1 through VMP-4 to determine the ROI for the SVE-1 system and at VMP-5 through VMP-8 to determine the ROI for the SVE-2 system. The maximum ROI vacuum readings are summarized in the table that follows as well as on Figure 2 of this report.

| ROI of SVE Wells |                          |                      |                      |
|------------------|--------------------------|----------------------|----------------------|
| VMP No.          | Distance from SVE-1 (ft) | Direction from SVE-1 | Maximum Vacuum (iwc) |
| 1                | 20                       | SE                   | -0.225               |
| 2                | 40                       | SW                   | -0.032               |
| 3                | 60                       | NE                   | -0.015               |
| 4                | 80                       | NW                   | -0.048               |
|                  |                          |                      |                      |
| VMP No.          | Distance from SVE-2 (ft) | Direction from SVE-2 | Maximum Vacuum (iwc) |
| 5                | 20                       | SE                   | -0.558               |
| 6                | 40                       | NE                   | -0.114               |
| 7                | 60                       | SW                   | -0.033               |
| 8                | 80                       | NW                   | -0.014               |
|                  |                          |                      |                      |

Review of VMP vacuum readings indicate that each IRM well maintained greater than -0.1 iwc at a distance of 20 feet from the well and a measurable vacuum was recorded up to 80 feet from each IRM well. The reduced vacuum at some VMP locations, (i.e.,) VMP-3 and VMP-6, may be due to short-circuiting of the induced vacuum at nearby stormwater drywell structures near the VMPs.

## 5.2 Soil Vapor Analytical Results

A soil vapor sample collected at SVE-1 during initial system startup had a TCE concentration of 134,000 ug/m<sup>3</sup>. The subsequent soil vapor sample concentrations over time while the SVE-1 system was “ON” and operating were: 16,300 ug/m<sup>3</sup>; 11,100 ug/m<sup>3</sup>; 6,130 ug/m<sup>3</sup>; and 8,060 ug/m<sup>3</sup>. The results are presented in Table 2 and indicate a declining trend between July 21 and August 18 with the exception of an increase in TCE detected in the final sample collected during system operation. SVE-1 soil vapor sample results during the post-shutdown rebound monitoring period (i.e., system “OFF”), which occurred between August 18 and September 22, 2022, indicated TCE concentrations from 18,600 ug/m<sup>3</sup> and 43,700 ug/m<sup>3</sup>.

As shown in Table 2, additional VOCs were detected at lower concentrations in SVE-1 soil vapor samples, but TCE was the primary VOC that drove the evaluation of VOC trends.

A soil vapor sample collected at SVE-2 during initial system startup had a TCE concentration of 9,730 ug/m<sup>3</sup>. Subsequent soil vapor sample concentrations over time while the SVE-2 system was “ON” and operating were: 1,200 ug/m<sup>3</sup>; 36.9 ug/m<sup>3</sup>; 132 ug/m<sup>3</sup>; and 548 ug/m<sup>3</sup>. The results are presented in Table 2 and indicate a declining trend between July 21 and August 25 with the exception of the increase in TCE detected in the final sample collected during system operation. SVE-2 soil vapor sample results during the post-shutdown rebound monitoring period (i.e., system “OFF”), which occurred between August 25 and September 22, 2022, TCE concentrations from 98.3 ug/m<sup>3</sup> and 994 ug/m<sup>3</sup>.

Similar to the results observed at SVE-1, additional VOCs were detected at lower concentrations in SVE-2 soil vapor samples, but TCE was the primary VOC that drove the evaluation of VOC trends.

A summary of soil vapor analytical results is provided in Table 2 and complete laboratory analytical data reports are provided in Appendix B.

Estimated VOC mass flow rates from each system were calculated weekly during system operation based on SVE system average air flow rates and contaminant concentrations as reported in the sample analytical data. Weekly TCE and/or cis-1,2-DCE mass removal were also calculated based on air vapor sample concentrations and SVE IRM air flow rates. SVE-1 removed an estimated 10 lbs of TCE from the vadose zone and 0.02 lbs of cis-1,2-DCE. SVE-2 removed an estimated 0.6 lbs of TCE and 0.03 lbs of cis-1,2-DCE. Mass removal estimates are provided in Table 3.

## 5.3 Soil Vapor Treatment Evaluation

The potential requirement for soil vapor treatment was evaluated based on TCE and cis-1,2-DCE effluent discharges during the SVE IRM operating period as well as predicted concentrations during future and/or continued operations of the systems. The untreated average influent concentrations for TCE and cis-1,2-DCE and maximum recorded system air flow velocities were utilized to calculate mass emission discharges in lbs/yr in accordance with NYSDEC 6 CRR-NY-212 (Rule 212) requirements to determine if mass emissions from the SVE IRM processes might exceed the permissible annual mass emissions for the air contaminants. Calculations indicated that the annual mass emissions limits for TCE and cis-1, 2-DCE would not be exceeded and therefore system emissions treatment would not be required. Mass emission calculations are included in Appendix C.

## 6 SVE IRM Conclusions

Both the SVE-1 and SVE-2 IRM systems were found to have vacuum influence greater than -0.1 iwc at a 20 ft ROI and maintained a negative pressure up to an 80 ft ROI. The SVE-1 and SVE-2 IRM systems provided subsurface extraction and mass removal of TCE and other VOC constituents in the vadose zone that exhibited a declining trend while the systems were operating. The SVE IRM test period demonstrated that the technology was effective in removing VOC mass from the vadose zone.

Based upon a thorough review of the analytical results presented above, an additional onsite VOC investigation is warranted to eliminate data gaps and evaluate the potential need for SVE IRM enhancements. A supplemental on-site sampling workplan will be provided to NYSDEC in the near term presenting the proposed approach and rationale.

## 7 References

- Arcadis 2021. *Soil Vapor Extraction Interim Remedial Measure Work Plan*, Former United Stellar Industries, 131 Sunnyside Boulevard, Plainview, New York. October 2021.
- Arcadis 2021. *Soil Vapor Screening Evaluation Summary Report*. Former United Stellar Industries, 131 Sunnyside Boulevard, Plainview, New York. February 2021.
- Arcadis. 2007. *Site Characterization Report*. United Stellar Industries Property. 131 Sunnyside Boulevard, Plainview, New York. June 2007.

# Tables

**Table 1**  
**SVE IRM Operating Parameters**  
**131 Sunnyside Boulevard**  
**Plainview, New York**

| Parameter                              | Result                 | Result                | Result                 | Result                 | Result    | Result    | Result    | Result                 | Result                 | Result                 |             |
|----------------------------------------|------------------------|-----------------------|------------------------|------------------------|-----------|-----------|-----------|------------------------|------------------------|------------------------|-------------|
| Date                                   | 9/22/2022 <sup>7</sup> | 9/1/2022 <sup>6</sup> | 8/25/2022 <sup>5</sup> | 8/18/2022 <sup>4</sup> | 8/11/2022 | 8/3/2022  | 8/1/2022  | 7/26/2022 <sup>3</sup> | 7/21/2022 <sup>2</sup> | 7/15/2022 <sup>1</sup> |             |
| SVE-1 BLOWER SKID PARAMETERS           |                        |                       |                        |                        |           |           |           |                        |                        |                        |             |
| Blend Valve Position                   | 1/2 Open               | 1/2 Open              | 1/2 Open               | 1/2 Open               | 1/2 Open  | 1/2 Open  | 1/2 Open  | 3/4 Open               | 3/4 Open               | Full Open              | Full Closed |
| Runtime Hours (HMI Login)              | NA                     | NA                    | 652.1                  | NA                     | NA        | NA        | NA        | NA                     | NA                     | NA                     | NA          |
| System ON/OFF on Arrival               | OFF                    | OFF                   | OFF                    | ON                     | ON        | ON        | ON        | ON                     | OFF                    | OFF                    | OFF         |
| System ON/OFF on Departure             | OFF                    | OFF                   | OFF                    | OFF                    | ON        | ON        | ON        | OFF                    | ON                     | OFF                    | OFF         |
| Knockout Tank Level (in)               | 0                      | NA                    | 0                      | 0                      | 0         | 0         | 0         | 0                      | 0                      | 0                      | 0           |
| Influent Vaccum (iwc)                  | -52                    | NA                    | -53                    | -52                    | -51       | -51       | -52       | -48                    | -45                    | -41                    | -100 +      |
| Influent Temperature (°F)              | 74                     | NA                    | 88                     | 87                     | 82        | 83        | 72        | 83                     | 78                     | 80                     | 80          |
| Differential Pressure (iwc)            | 5.8                    | NA                    | 6                      | 6                      | 5.8       | 6         | 6         | 6                      | 6                      | NA                     | NA          |
| Air Filter Differential Pressure (iwc) | 0                      | NA                    | 0                      | 0                      | 0         | 0         | 0         | 0                      | 0                      | 0                      | 0           |
| Effluent Pressure (iwc)                | 1                      | NA                    | 1                      | 1                      | 0.5       | 2         | 2         | 2                      | 4.5                    | 5                      | < 1         |
| Effluent Temperature (°F)              | 120                    | NA                    | 125                    | 130                    | 125       | 130       | 110       | 125                    | 120                    | 120                    | 120         |
| Effluent Velocity (ft/min)             | NA                     | NA                    | 5,866                  | 5,724                  | 5,874     | 5,840     | NA        | 6,699                  | 6,162                  | NA                     | NA          |
| SVE-2 BLOWER SKID PARAMETERS           |                        |                       |                        |                        |           |           |           |                        |                        |                        |             |
| Blend Valve Position                   | Full Open              | Full Open             | Full Open              | Full Open              | Full Open | Full Open | Full Open | Full Open              | Full Open              | Full Open              | Full Closed |
| Runtime Hours (HMI Login)              | NA                     | 681.2                 | 681.2                  | NA                     | NA        | NA        | NA        | NA                     | NA                     | NA                     | NA          |
| System ON/OFF on Arrival               | OFF                    | OFF                   | ON                     | ON                     | ON        | ON        | ON        | OFF                    | OFF                    | OFF                    | OFF         |
| System ON/OFF on Departure             | OFF                    | OFF                   | OFF                    | ON                     | ON        | ON        | ON        | OFF                    | ON                     | OFF                    | OFF         |
| Knockout Tank Level (in)               | 0                      | 0                     | 0                      | 0                      | 0         | 0         | 0         | FULL                   | 0                      | 0                      | 0           |
| Influent Vaccum (iwc)                  | -22                    | -22                   | -21.5                  | -23                    | -24       | -22       | -22       | NA                     | -25                    | -21                    | -61         |
| Influent Temperature (°F)              | 80                     | 88                    | 84                     | 83                     | 82        | 80        | 80        | NA                     | 81                     | 90                     | 80          |
| Differential Pressure (iwc)            | 7.2                    | 7.2                   | 7.2                    | 7                      | 7.2       | 7         | 7         | NA                     | 6                      | NA                     | NA          |
| Air Filter Differential Pressure (iwc) | 0                      | 0                     | 0                      | 0                      | 0         | 0         | 0         | NA                     | 0                      | NA                     | NA          |
| Effluent Pressure (iwc)                | 3                      | 2.5                   | 2.5                    | 2.5                    | 2.5       | 3         | 2.5       | NA                     | 4.5                    | 4                      | 2.3         |
| Effluent Temperature (°F)              | 100                    | 110                   | 110                    | 110                    | 125       | 110       | 110       | NA                     | 110                    | 105                    | 130         |
| Effluent Velocity (ft/min)             | NA                     | 7,053                 | 6,624                  | 7,411                  | 6,693     | 6,777     | NA        | NA                     | 6,162                  | NA                     | NA          |
| SVE Wellhead Readings                  |                        |                       |                        |                        |           |           |           |                        |                        |                        |             |
| SVE-1 (iwc)                            | NA                     | NA                    | NA                     | -55                    | NA        | -53       | NA        | -52                    | NA                     | -42                    | NA          |
| SVE-2 (iwc)                            | NA                     | NA                    | -23                    | -23                    | NA        | NA        | NA        | NA                     | NA                     | -22                    | NA          |

Footnotes on last page

**Table 1**  
**SVE IRM Operating Parameters**  
**131 Sunnyside Boulevard**  
**Plainview, New York**



| Parameter                                          | Result                 | Result                | Result                 | Result                 | Result    | Result   | Result   | Result                 | Result                 | Result                 |
|----------------------------------------------------|------------------------|-----------------------|------------------------|------------------------|-----------|----------|----------|------------------------|------------------------|------------------------|
| Date                                               | 9/22/2022 <sup>7</sup> | 9/1/2022 <sup>6</sup> | 8/25/2022 <sup>5</sup> | 8/18/2022 <sup>4</sup> | 8/11/2022 | 8/3/2022 | 8/1/2022 | 7/26/2022 <sup>3</sup> | 7/21/2022 <sup>2</sup> | 7/15/2022 <sup>1</sup> |
| <b>SVE-1 Vapor Monitoring Point (VMP) Readings</b> |                        |                       |                        |                        |           |          |          |                        |                        |                        |
| VPM-1 (iwc)                                        | NA                     | NA                    | NA                     | -0.209                 | NA        | -0.225   | NA       | -0.209                 | -0.213                 | NA                     |
| VPM-2 (iwc)                                        | NA                     | NA                    | NA                     | -0.03                  | NA        | -0.023   | NA       | -0.032                 | -0.012                 | NA                     |
| VMP-3 (iwc)                                        | NA                     | NA                    | NA                     | -0.015                 | NA        | -0.006   | NA       | -0.003                 | 0.019                  | NA                     |
| VMP-4 (iwc)                                        | NA                     | NA                    | NA                     | -0.013                 | NA        | -0.004   | NA       | -0.048                 | 0.030                  | NA                     |
| <b>SVE-2 Vapor Monitoring Point (VMP) Readings</b> |                        |                       |                        |                        |           |          |          |                        |                        |                        |
| VPM-5 (iwc)                                        | NA                     | NA                    | -0.558                 | -0.505                 | NA        | -0.525   | NA       | NA                     | -0.519                 | NA                     |
| VPM-6 (iwc)                                        | NA                     | NA                    | -0.059                 | -0.05                  | NA        | -0.065   | NA       | NA                     | -0.114                 | NA                     |
| VMP-7 (iwc)                                        | NA                     | NA                    | -0.05                  | -0.027                 | NA        | -0.033   | NA       | NA                     | -0.006                 | NA                     |
| VMP-8 (iwc)                                        | NA                     | NA                    | -0.014                 | -0.008                 | NA        | -0.006   | NA       | NA                     | 0.006                  | NA                     |

**Notes:**

1. SVE IRM systems temporarily started after installation for shakeout and troubleshooting and initial parameter readings.
2. SVE IRM system startups.
3. SVE-2 system found OFF on 7/26/22. SVE-2 system had shutdown on 7/23/22 due to knockout tank high condensate level and was re-started on 7/29/22.  
SVE-1 shutdown of 7/26/22 due to blower motor overload at time of blend valve adjustment. SVE-1 was re-started on 7/29/22.
4. SVE-1 shut OFF after sample collection. SVE-2 remained ON.
5. SVE-2 shut OFF after sample collection. SVE-1 temporarily started for 1 week rebound sample collection and shut OFF.
6. SVE-2 temporarily started for 1 week rebound sample collection and shut OFF. SVE-1 remained OFF.
7. SVE-1 and SVE-2 temporarily started for final rebound sample collection and shut OFF. Both SVE-1 and SVE-2 systems remain OFF.

<sup>0</sup>F: degrees Fahrenheit

NA: not applicable or not available

ft/min: feet per minute

iwc: inches of water column

**Table 2**  
**Summary of VOC Analyses for SVE IRM Soil Vapor Samples**  
**131 Sunnyside Boulevard**  
**Plainview, New York**



| Analyte                         | CAS      | Sample ID:<br>Lab ID:<br>Collection Date:<br>Sample Matrix:<br>SVE IRM Status:<br>(ug/m3) | SVE-1<br>L2239129-02<br>7/21/2022<br>SOIL_VAPOR<br>STARTUP/ BASELINE<br>Concentration | SVE-1<br>L2240234-01<br>7/26/2022<br>SOIL_VAPOR<br>ON<br>Concentration | SVE-1<br>L2241805-01<br>8/3/2022<br>SOIL_VAPOR<br>ON<br>Concentration | SVE-1<br>L2243287-01<br>8/11/2022<br>SOIL_VAPOR<br>ON<br>Concentration | SVE-1<br>L2244639-01<br>8/18/2022<br>SOIL_VAPOR<br>ON <sup>5</sup><br>Concentration | SVE-1<br>L2244639-01<br>8/25/2022<br>SOIL_VAPOR<br>OFF/ REBOUND<br>Concentration | SVE-1<br>L2244639-01<br>9/22/2022<br>SOIL_VAPOR<br>OFF/ REBOUND<br>Concentration |
|---------------------------------|----------|-------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|------------------------------------------------------------------------|-----------------------------------------------------------------------|------------------------------------------------------------------------|-------------------------------------------------------------------------------------|----------------------------------------------------------------------------------|----------------------------------------------------------------------------------|
| <b>Volatile Organics in Air</b> |          |                                                                                           |                                                                                       |                                                                        |                                                                       |                                                                        |                                                                                     |                                                                                  |                                                                                  |
| Isopropanol                     | 67-63-0  |                                                                                           | <472                                                                                  | <49.9                                                                  | 52.1                                                                  | 35.4                                                                   | 33.2                                                                                | <49.9                                                                            | <134                                                                             |
| 1,1-Dichloroethane              | 75-34-3  |                                                                                           | 311                                                                                   | <32.8                                                                  | <23.4                                                                 | <13.8                                                                  | <16.2                                                                               | <32.9                                                                            | <86                                                                              |
| cis-1,2-Dichloroethene          | 156-59-2 |                                                                                           | 1,650                                                                                 | <32.1                                                                  | 92.8                                                                  | 47.6                                                                   | 50                                                                                  | 122                                                                              | 318                                                                              |
| Tetrahydrofuran                 | 109-99-9 |                                                                                           | 3,040                                                                                 | <59.9                                                                  | 59.3                                                                  | 51.9                                                                   | 59.9                                                                                | 501                                                                              | <160                                                                             |
| 1,1,1-Trichloroethane           | 71-55-6  |                                                                                           | 993                                                                                   | <44.2                                                                  | <31.6                                                                 | <18.6                                                                  | 22.8                                                                                | 70.9                                                                             | 227                                                                              |
| Trichloroethene                 | 79-01-6  |                                                                                           | <b>134,000</b>                                                                        | <b>16,300</b>                                                          | <b>11,100</b>                                                         | <b>6,130</b>                                                           | <b>8,060</b>                                                                        | <b>18,600</b>                                                                    | <b>43,700</b>                                                                    |
| Toluene                         | 108-88-3 |                                                                                           | <290                                                                                  | <30.5                                                                  | <21.8                                                                 | 13.9                                                                   | <15.1                                                                               | <30.6                                                                            | <81.8                                                                            |
| Tetrachloroethene               | 127-18-4 |                                                                                           | 128                                                                                   | 180                                                                    | 119                                                                   | 80.7                                                                   | 104                                                                                 | 128                                                                              | 210                                                                              |

| Analyte                         | CAS      | Sample ID:<br>Lab ID:<br>Collection Date:<br>Sample Matrix:<br>SVE IRM Status:<br>(ug/m3) | SVE-2<br>L2239129-01<br>7/21/2022<br>SOIL_VAPOR<br>STARTUP/ BASELINE<br>Concentration | SVE-2<br>L2241805-02<br>8/3/2022<br>SOIL_VAPOR<br>ON<br>Concentration | SVE-2<br>L2243287-02<br>8/11/2022<br>SOIL_VAPOR<br>ON<br>Concentration | SVE-2<br>L2244639-02<br>8/18/2022<br>SOIL_VAPOR<br>ON<br>Concentration | SVE-2<br>L2244639-02<br>8/25/2022<br>SOIL_VAPOR<br>ON <sup>5</sup><br>Concentration | SVE-2<br>L2244639-02<br>9/1/2022<br>SOIL_VAPOR<br>OFF/ REBOUND<br>Concentration | SVE-2<br>L2244639-02<br>9/22/2022<br>SOIL_VAPOR<br>OFF/ REBOUND<br>Concentration |
|---------------------------------|----------|-------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|-----------------------------------------------------------------------|------------------------------------------------------------------------|------------------------------------------------------------------------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------|----------------------------------------------------------------------------------|
| <b>Volatile Organics in Air</b> |          |                                                                                           |                                                                                       |                                                                       |                                                                        |                                                                        |                                                                                     |                                                                                 |                                                                                  |
| Dichlorodifluoromethane         | 75-71-8  |                                                                                           | <23.9                                                                                 | <3.3                                                                  | 2.29                                                                   | 1.96                                                                   | 2.64                                                                                | <2.6                                                                            | <2.47                                                                            |
| Chloromethane                   | 74-87-3  |                                                                                           | <9.99                                                                                 | <1.38                                                                 | 0.432                                                                  | 0.425                                                                  | <0.826                                                                              | <1.09                                                                           | <1.03                                                                            |
| Ethanol                         | 64-17-5  |                                                                                           | <228                                                                                  | <31.5                                                                 | 50.3                                                                   | 31.7                                                                   | 23.6                                                                                | <24.9                                                                           | <23.6                                                                            |
| Acetone                         | 67-64-1  |                                                                                           | 73.6                                                                                  | 15.7                                                                  | 21                                                                     | 14.7                                                                   | 13.6                                                                                | 8.86                                                                            | 7.74                                                                             |
| Trichlorofluoromethane          | 75-69-4  |                                                                                           | <27.2                                                                                 | <3.75                                                                 | 1.42                                                                   | 1.23                                                                   | <2.25                                                                               | 4.24                                                                            | 6.01                                                                             |
| Isopropanol                     | 67-63-0  |                                                                                           | <29.7                                                                                 | 12.9                                                                  | 35.4                                                                   | 2.75                                                                   | 23.9                                                                                | 20.3                                                                            | 12.5                                                                             |
| Tertiary butyl Alcohol          | 75-65-0  |                                                                                           | <36.7                                                                                 | <5.06                                                                 | 1.69                                                                   | 39.7                                                                   | <2.02                                                                               | <4                                                                              | <3.79                                                                            |
| Carbon disulfide                | 75-15-0  |                                                                                           | <15.1                                                                                 | <2.08                                                                 | 1.48                                                                   | 1.26                                                                   | <1.25                                                                               | 5.45                                                                            | 4.48                                                                             |
| Freon-113                       | 76-13-1  |                                                                                           | <37.1                                                                                 | <5.11                                                                 | 4.15                                                                   | 4.78                                                                   | 4.06                                                                                | <4.03                                                                           | <3.83                                                                            |
| trans-1,2-Dichloroethene        | 156-60-5 |                                                                                           | 29.6                                                                                  | <2.64                                                                 | <0.793                                                                 | <0.793                                                                 | <1.59                                                                               | 4.04                                                                            | 9.04                                                                             |
| 2-Butanone                      | 78-93-3  |                                                                                           | 81.7                                                                                  | 7.34                                                                  | 6.49                                                                   | 4.93                                                                   | 3.66                                                                                | 15                                                                              | 5.19                                                                             |
| cis-1,2-Dichloroethene          | 156-59-2 |                                                                                           | 440                                                                                   | 29.8                                                                  | 19.5                                                                   | 13.3                                                                   | 11.8                                                                                | 40                                                                              | 63.8                                                                             |
| Ethyl Acetate                   | 141-78-6 |                                                                                           | <43.6                                                                                 | 12.7                                                                  | 3.64                                                                   | <1.8                                                                   | <3.6                                                                                | <4.76                                                                           | <4.5                                                                             |

Footnotes on last page

**Table 2**  
**Summary of VOC Analyses for SVE IRM Soil Vapor Samples**  
**131 Sunnyside Boulevard**  
**Plainview, New York**



| Analyte (cont'd)       | CAS         | Sample ID:       | SVE-2             | SVE-2         | SVE-2         | SVE-2         | SVE-2           | SVE-2         | SVE-2         |
|------------------------|-------------|------------------|-------------------|---------------|---------------|---------------|-----------------|---------------|---------------|
|                        |             | Lab ID:          | L2239129-01       | L2241805-02   | L2243287-02   | L2244639-02   | L2244639-02     | L2244639-02   | L2244639-02   |
|                        |             | Collection Date: | 7/21/2022         | 8/3/2022      | 8/11/2022     | 8/18/2022     | 8/25/2022       | 9/1/2022      | 9/22/2022     |
|                        |             | Sample Matrix:   | SOIL_VAPOR        | SOIL_VAPOR    | SOIL_VAPOR    | SOIL_VAPOR    | SOIL_VAPOR      | SOIL_VAPOR    | SOIL_VAPOR    |
|                        |             | SVE IRM Status:  | STARTUP/ BASELINE | ON            | ON            | ON            | ON <sup>5</sup> | OFF/ REBOUND  | OFF/ REBOUND  |
|                        |             | (ug/m3)          | Concentration     | Concentration | Concentration | Concentration | Concentration   | Concentration | Concentration |
| Chloroform             | 67-66-3     |                  | <23.6             | <3.26         | 0.982         | <0.977        | <1.95           | <2.57         | 2.89          |
| Tetrahydrofuran        | 109-99-9    |                  | 495               | 17.8          | 10.1          | 6.58          | 12.8            | 584           | 284           |
| n-Hexane               | 110-54-3    |                  | <17.1             | <2.35         | 2.18          | 5.11          | <1.41           | <1.85         | <1.76         |
| 1,1,1-Trichloroethane  | 71-55-6     |                  | 33.8              | <3.64         | <1.09         | <1.09         | <2.18           | <2.37         | 3.64          |
| Benzene                | 71-43-2     |                  | <15.5             | <2.13         | 3.05          | 1.11          | <1.28           | <1.68         | <1.6          |
| Cyclohexane            | 110-82-7    |                  | <16.7             | <2.3          | 2.8           | 0.857         | <1.38           | <1.81         | <1.72         |
| Trichloroethene        | 79-01-6     |                  | <b>9,730</b>      | <b>1,200</b>  | <b>36.9</b>   | <b>132</b>    | <b>548</b>      | <b>98.3</b>   | <b>994</b>    |
| 2,2,4-Trimethylpentane | 540-84-1    |                  | <22.6             | <3.12         | 5.51          | 1.44          | 3.62            | <2.46         | <2.34         |
| Heptane                | 142-82-5    |                  | <19.8             | 4.34          | 4.06          | <0.82         | <1.64           | <2.16         | <2.05         |
| 4-Methyl-2-pentanone   | 108-10-1    |                  | <49.6             | <6.84         | 2.95          | <2.05         | <4.1            | <4.51         | <5.12         |
| Toluene                | 108-88-3    |                  | 23.7              | 7.39          | 12.1          | 5.16          | 1.55            | 2.42          | <1.88         |
| Tetrachloroethene      | 127-18-4    |                  | 99.7              | 34            | 19            | 21.5          | 20.2            | 6.78          | 13.8          |
| Ethylbenzene           | 100-41-4    |                  | <21               | 3.23          | 2.86          | 1.26          | <1.74           | <2.28         | <2.17         |
| p/m-Xylene             | 179601-23-1 |                  | <42               | 12.9          | 11.6          | 5.6           | 7.17            | 7.04          | <4.34         |
| Styrene                | 100-42-5    |                  | <20.6             | <2.84         | 1.06          | <0.852        | <1.7            | <2.24         | <2.13         |
| o-Xylene               | 95-47-6     |                  | <21               | 4.95          | 4.47          | 2.28          | 2.81            | 2.5           | <2.17         |
| 1,3,5-Trimethylbenzene | 108-67-8    |                  | <23.8             | <3.28         | 1.24          | <0.983        | <1.97           | <2.59         | <2.46         |
| 1,2,4-Trimethylbenzene | 95-63-6     |                  | <23.8             | 3.34          | 4.62          | 2.12          | <1.97           | <2.59         | <2.46         |

**Notes:**

1. ug/m3 = micrograms per cubic meter of air.
2. CAS = Chemical Abstracts Service number. A unique numerical identifier assigned by the Chemical Abstracts Service (CAS) to every known chemical substance.
3. "<" Indicates the constituent was not detected at a concentration above the minimum laboratory reporting limit (RL) indicated, otherwise reported as non-detect (ND).
4. SVE System IRM Status - Indicates the operating status of the SVE IRM system at the time of air gas sample collection. Startup samples collected immediately upon SVE IRM systems startup. Rebound samples collected when SVE IRM systems were "OFF". Systems were temporarily started to collect rebound samples.
5. SVE IRM System was shutdown following final "ON" operating air vapor sample collection.

**Table 3**  
**SVE IRM**  
**TCE and cis 1,2 Dichloroethene**  
**Mass Removed**  
**131 Sunnyside Boulevard**  
**Plainview, New York**



**SVE-1 TRICHLOROETHYLENE ESTIMATED MASS REMOVAL**

| Sample Date  | Averaged TCE Sample <sup>1</sup><br>Concentration (ug/m3) | Air Flow <sup>2</sup><br>Velocity (ft/min) | Estimated Run Time <sup>3</sup><br>(hours) | Air Flow Volume<br>(ft <sup>3</sup> /hour) | Flow Rate (m <sup>3</sup> /hr) | Estimated Mass<br>removed TCE (lbs) |
|--------------|-----------------------------------------------------------|--------------------------------------------|--------------------------------------------|--------------------------------------------|--------------------------------|-------------------------------------|
| 7/26/2022    | 75,150                                                    | 6,431                                      | 132                                        | 18,939                                     | 536                            | 3.7                                 |
| 8/3/2022     | 13,700                                                    | 6,270                                      | 120                                        | 18,465                                     | 523                            | 2.2                                 |
| 8/11/2022    | 8,615                                                     | 5,857                                      | 192                                        | 17,250                                     | 488                            | 1.9                                 |
| 8/18/2022    | 7,095                                                     | 5,799                                      | 168                                        | 17,079                                     | 484                            | 2.1                                 |
| <b>TOTAL</b> |                                                           |                                            |                                            |                                            |                                | <b>10</b>                           |

**SVE-1 cis 1,2 DICHLOROETHENE ESTIMATED MASS REMOVAL**

| Sample Date  | Averaged 1,2-DCE Sample <sup>1</sup><br>Concentration (ug/m3) | Air Flow <sup>2</sup><br>Velocity (ft/min) | Estimated Run Time <sup>3</sup><br>(hours) | Air Flow Volume<br>(ft <sup>3</sup> /hour) | Flow Rate (m <sup>3</sup> /hr) | Estimated Mass<br>removed 1,2 DCE (lbs) |
|--------------|---------------------------------------------------------------|--------------------------------------------|--------------------------------------------|--------------------------------------------|--------------------------------|-----------------------------------------|
| 7/26/2022    | 825                                                           | 6,431                                      | 132                                        | 18,939                                     | 536                            | 0.00                                    |
| 8/3/2022     | 46                                                            | 6,270                                      | 120                                        | 18,465                                     | 523                            | 0.02                                    |
| 8/11/2022    | 70                                                            | 5,857                                      | 192                                        | 17,250                                     | 488                            | 0.01                                    |
| 8/18/2022    | 49                                                            | 5,799                                      | 168                                        | 17,079                                     | 484                            | 0.01                                    |
| <b>TOTAL</b> |                                                               |                                            |                                            |                                            |                                | <b>0.05</b>                             |

**SVE-2 TRICHLOROETHYLENE ESTIMATED MASS REMOVAL**

| Sample Date  | Averaged TCE Sample <sup>1</sup><br>Concentration (ug/m3) | Air Flow <sup>2</sup><br>Velocity (ft/min) | Estimated Run Time <sup>3</sup><br>(hours) | Air Flow Volume<br>(ft <sup>3</sup> /hour) | Flow Rate (m <sup>3</sup> /hr) | Estimated Mass<br>removed TCE (lbs) |
|--------------|-----------------------------------------------------------|--------------------------------------------|--------------------------------------------|--------------------------------------------|--------------------------------|-------------------------------------|
| 8/3/2022     | 5,465                                                     | 6,470                                      | 192                                        | 19,054.3                                   | 539.6                          | 0.40                                |
| 8/11/2022    | 618.5                                                     | 6,735                                      | 192                                        | 19,836.2                                   | 561.7                          | 0.01                                |
| 8/18/2022    | 84.5                                                      | 7,052                                      | 168                                        | 20,769.9                                   | 588.1                          | 0.04                                |
| 8/25/2022    | 340                                                       | 7,018                                      | 168                                        | 20,668.2                                   | 585.3                          | 0.17                                |
| <b>TOTAL</b> |                                                           |                                            |                                            |                                            |                                | <b>0.6</b>                          |

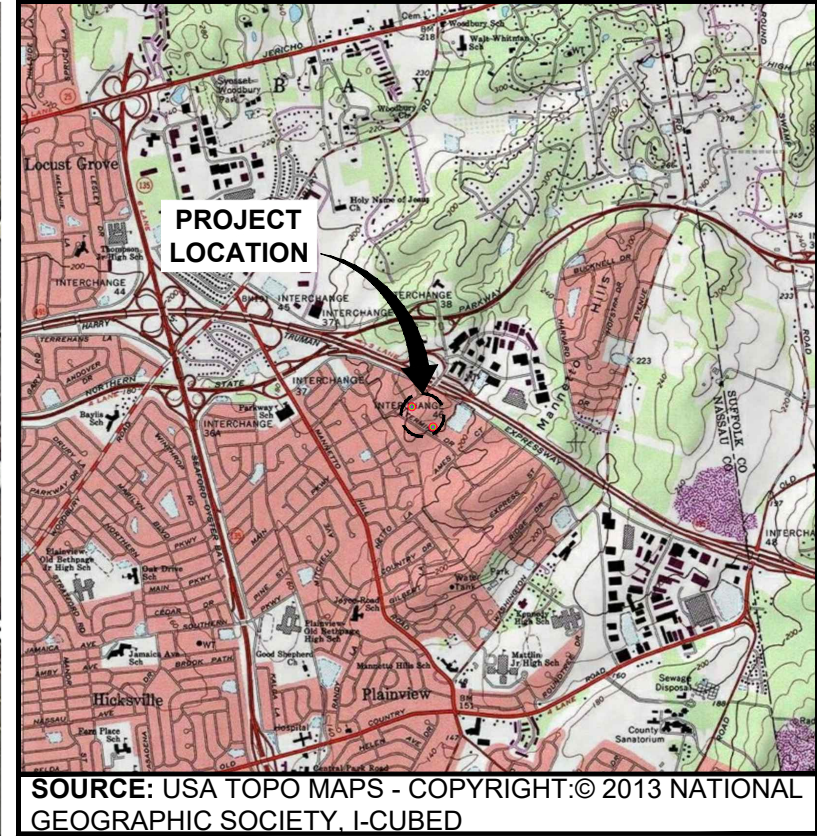
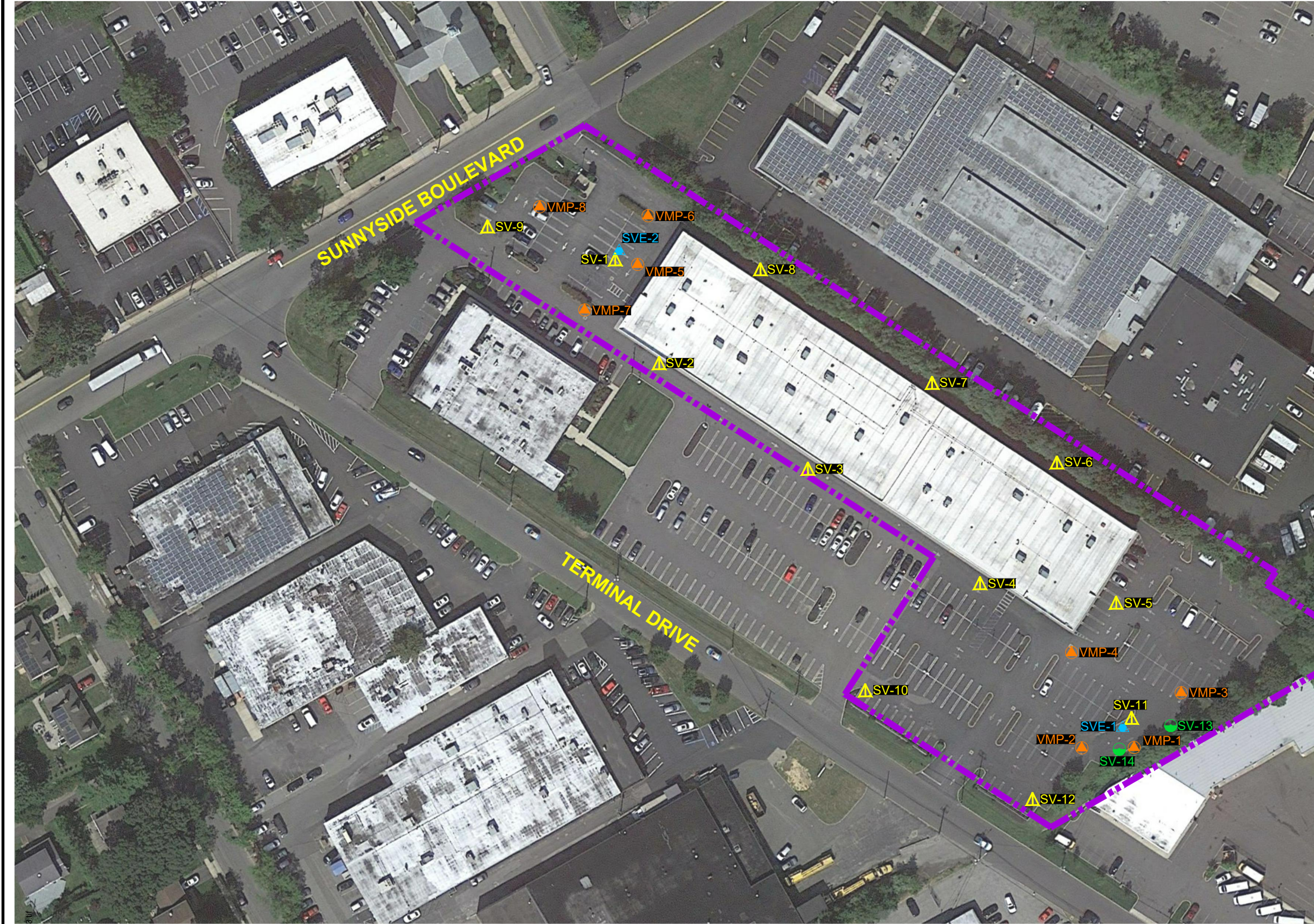
**SVE-2 cis 1,2 DICHLOROETHENE ESTIMATED MASS REMOVAL**

| Sample Date  | Averaged 1,2-DCE Sample <sup>1</sup><br>Concentration (ug/m3) | Air Flow <sup>2</sup> Velocity<br>(ft/min) | Estimated Run Time <sup>3</sup><br>(hours) | Air Flow Volume<br>(ft <sup>3</sup> /hour) | Flow Rate (m <sup>3</sup> /hr) | Estimated Mass<br>removed 1,2 DCE (lbs) |
|--------------|---------------------------------------------------------------|--------------------------------------------|--------------------------------------------|--------------------------------------------|--------------------------------|-----------------------------------------|
| 8/3/2022     | 234.9                                                         | 6,470                                      | 192                                        | 19,054                                     | 540                            | 0.010                                   |
| 8/11/2022    | 24.7                                                          | 6,735                                      | 192                                        | 19,836                                     | 562                            | 0.007                                   |
| 8/18/2022    | 16.4                                                          | 7,052                                      | 168                                        | 20,770                                     | 588                            | 0.004                                   |
| 8/25/2022    | 12.6                                                          | 7,018                                      | 168                                        | 20,668                                     | 585                            | 0.004                                   |
| <b>TOTAL</b> |                                                               |                                            |                                            |                                            |                                | <b>0.02</b>                             |

**Notes:**

1. Soil vapor sample concentrations are the average of untreated influent sample concentration data from the day of sample collection and the previous week's influent sample concentration data.
2. Air flow velocity used in calculation estimates is the average of the air flow velocity measured at the time of soil vapor sample collection and the previous week's air flow velocity reading.
3. SVE IRM systems run times are estimated based on calendar days operating less days system "OFF" due to alarm conditions indicated in Table 1.

# Figures

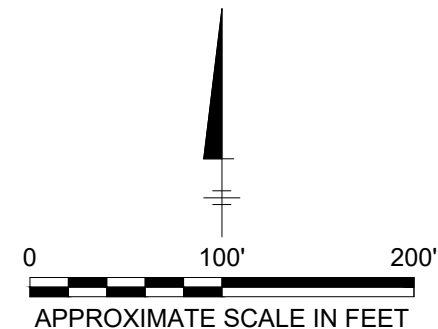


LEGEND:

-  APPROXIMATE PROPERTY LINE
-  SOIL VAPOR SAMPLE LOCATION
-  SOIL VAPOR EXTRACTION WELL
-  SOIL VAPOR PROBE
-  VACUUM MONITORING POINT

NOTES:

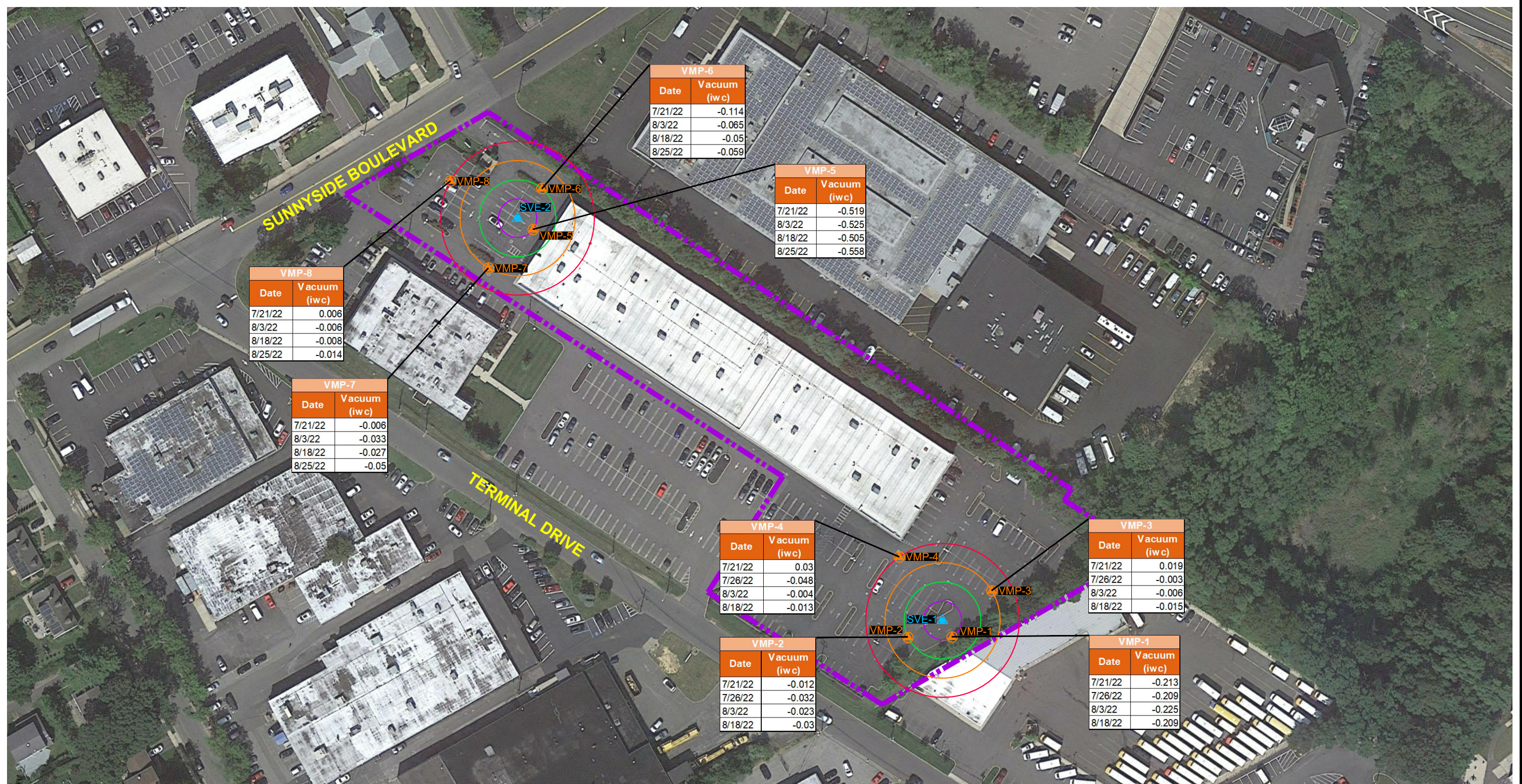
1. SITE AERIAL PHOTOGRAPH FROM GOOGLE EARTH PRO, DATED 09.19.2019.
2. ALL LOCATIONS ARE APPROXIMATE.



FORMER UNITED STELLAR INDUSTRIES SITE  
131 SUNNYSIDE BOULEVARD  
PLAINVIEW, NEW YORK

SITE MAP AND SVE IRM  
WELL LOCATIONS



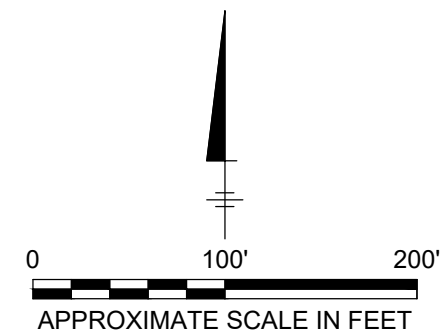


LEGEND:

- |                                                                                     |                            |                                                                                     |                            |
|-------------------------------------------------------------------------------------|----------------------------|-------------------------------------------------------------------------------------|----------------------------|
|  | APPROXIMATE PROPERTY LINE  |  | 20' RADIUS AROUND EACH VMP |
|  | SOIL VAPOR EXTRACTION WELL |  | 40' RADIUS AROUND EACH VMP |
|  | VACUUM MONITORING POINT    |  | 60' RADIUS AROUND EACH VMP |
|                                                                                     |                            |  | 80' RADIUS AROUND EACH VMP |

NOTES:

1. SITE AERIAL PHOTOGRAPH FROM GOOGLE EARTH PRO, DATED 09.19.2019.
2. ALL VACUUM CONCENTRATIONS ARE IN INCHES OF WATER COLUMN (iwc).
3. ALL LOCATIONS ARE APPROXIMATE.



FORMER UNITED STELLAR INDUSTRIES SITE  
131 SUNNYSIDE BOULEVARD  
PLAINVIEW, NEW YORK

### SVE IRM VACUUM READINGS



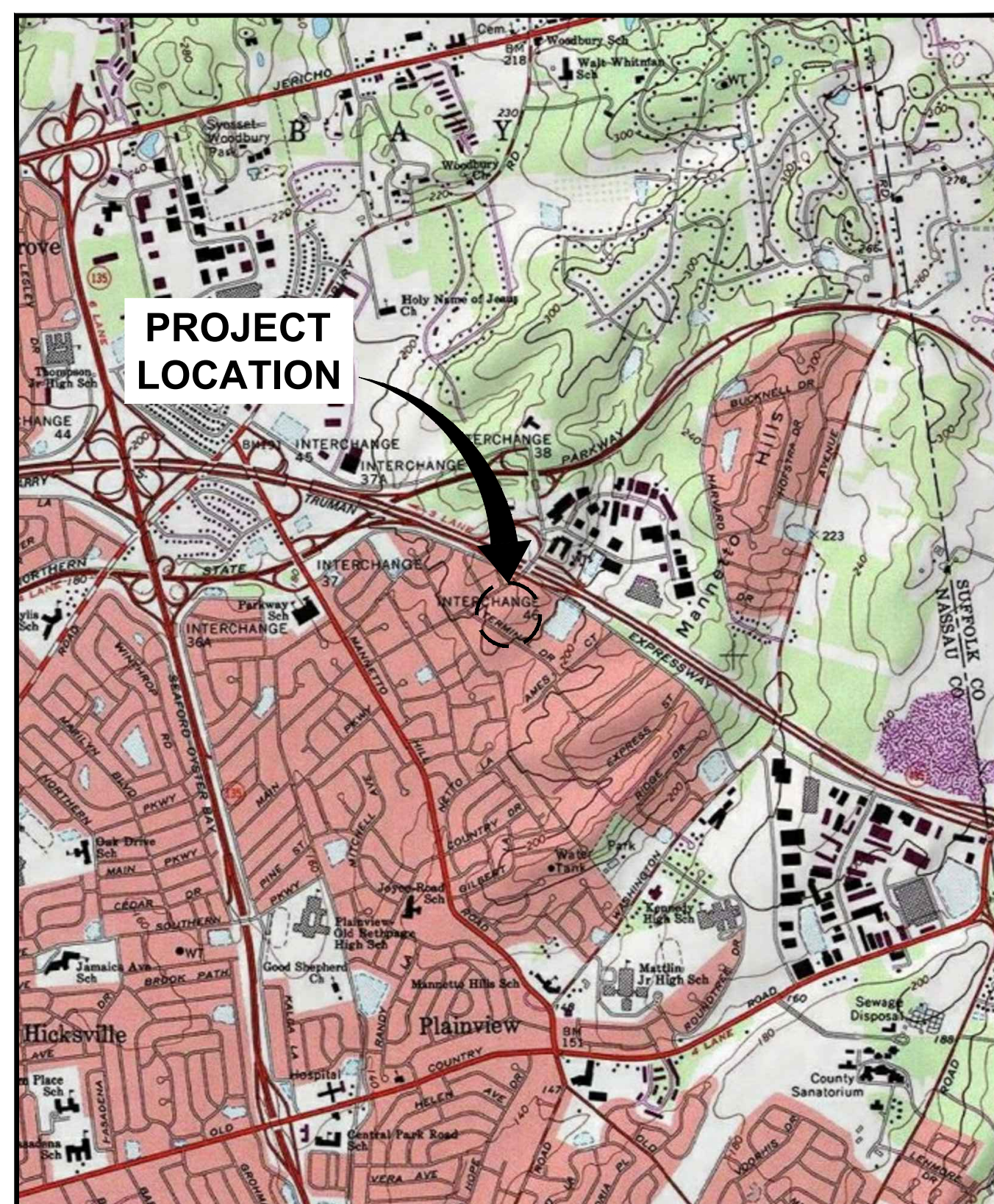
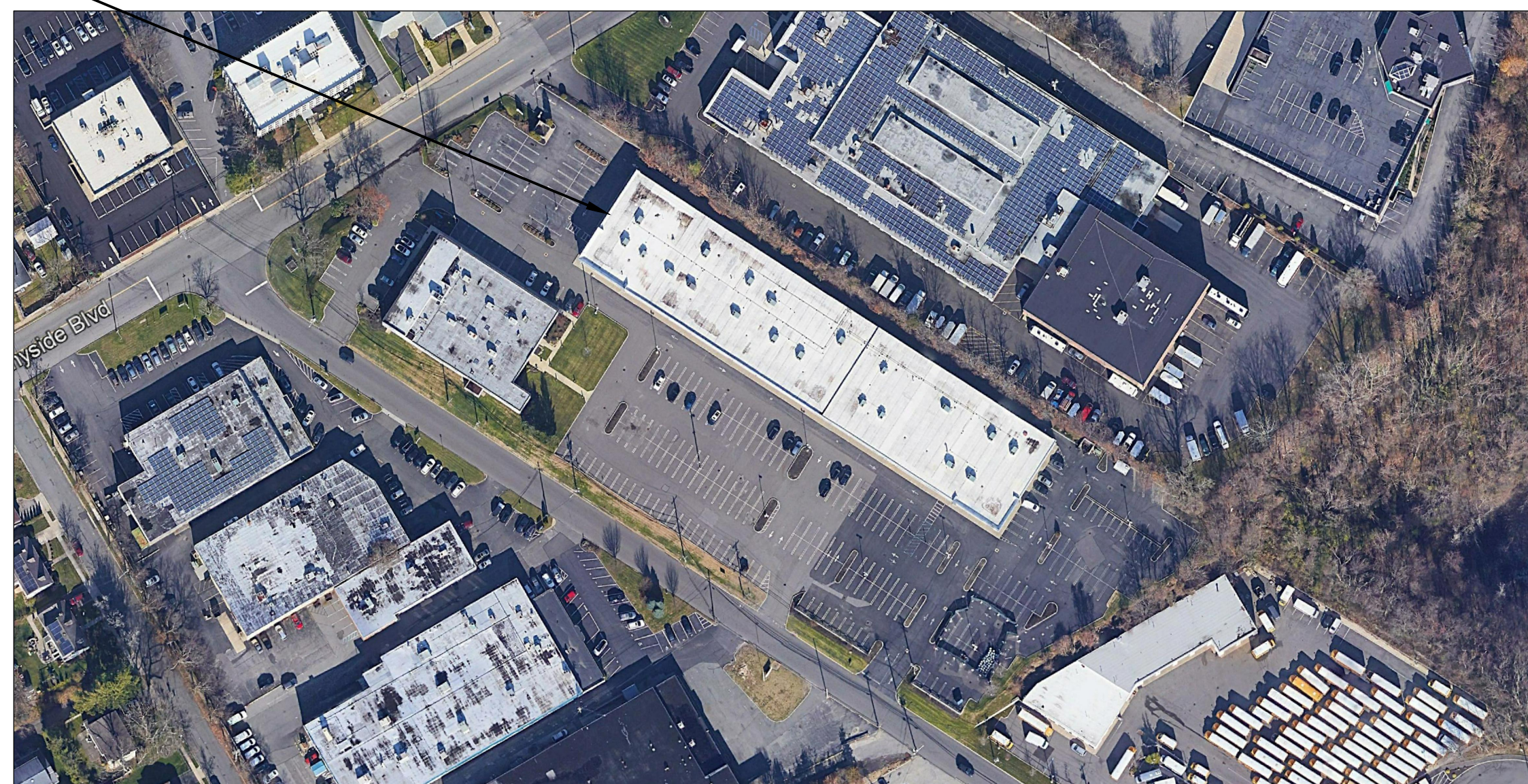
FIGURE  
2

# Appendix A

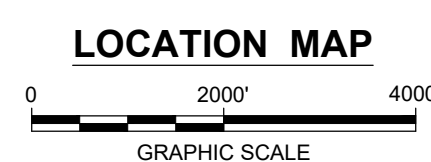
# 131 SUNNYSIDE BOULEVARD

## TEMPORARY SOIL VAPOR EXTRACTION DESIGN

EXISTING BUILDING



**SOURCE:** USA TOPO MAPS - COPYRIGHT:© 2013 NATIONAL GEOGRAPHIC SOCIETY, I-CUBED



# JUNE 2022

**131 SUNNYSIDE BOULEVARD  
PLAINVIEW, NEW YORK 11803**



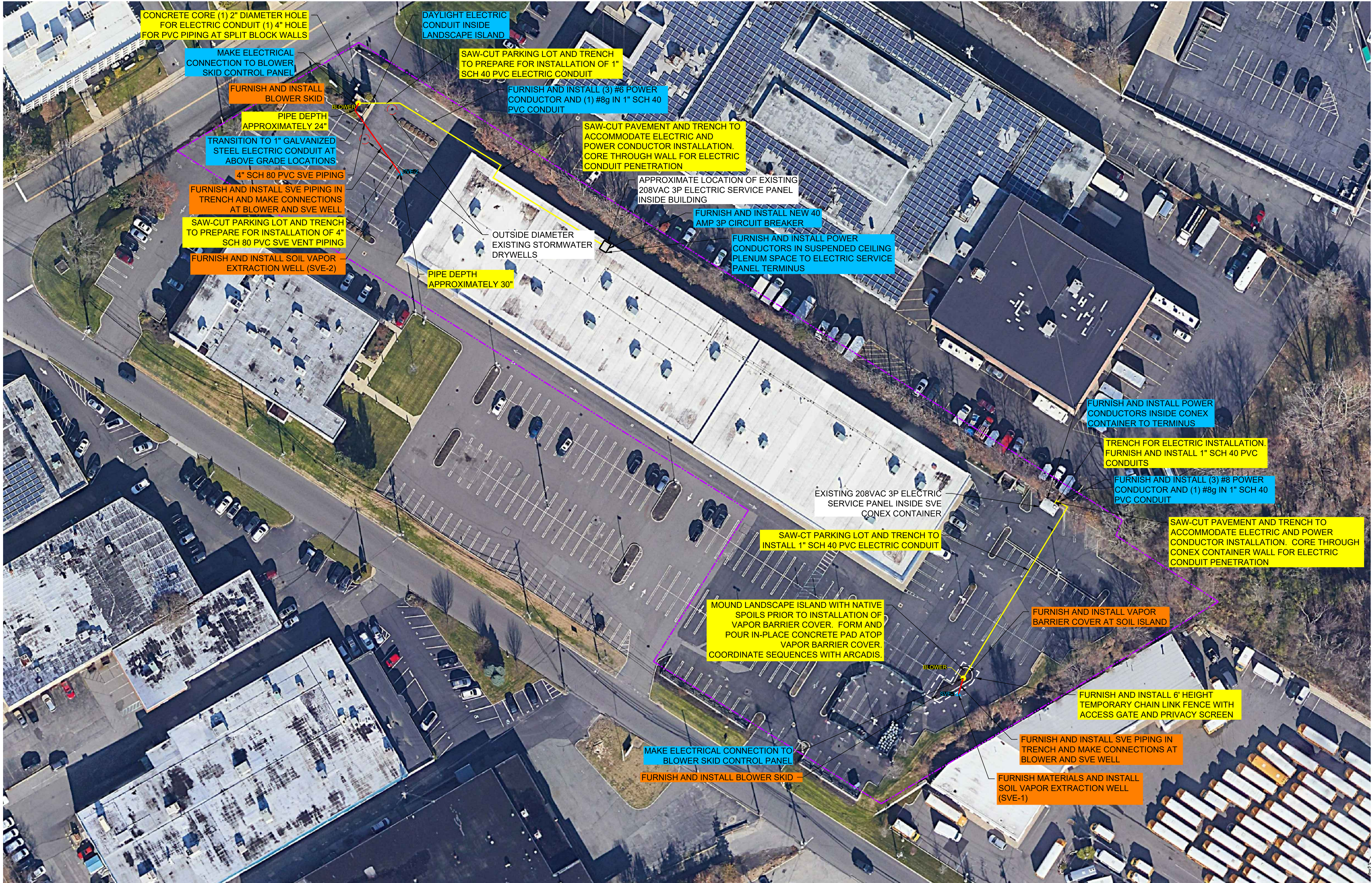
ARCADIS OF NEW YORK, INC.

## INDEX TO DRAWINGS

1. TITLE SHEET
2. OVERHEAD SITE MAP WITH PIPING AND ELECTRICAL  
CONDUIT LAYOUT
3. MISCELLANEOUS DETAILS
4. MISCELLANEOUS DETAILS
5. MISCELLANEOUS DETAILS
6. BLOWER PHOTOS AND SCHEDULE



CITY:SYRACUSE-NEW YORK DIV:GROUP-SER: DB-G, STEINBERGER, LD-G, STEINBERGER, P-C: PM: TM: LYR:ONE\*-OFF\*-REF\*  
C:\Users\BSS\OneDrive\Arcadis\US-131 SUNNYSIDE, LLC\PLAINVIEW\New York\Project Files\20220101 in Progress\01-DWG(SVE-F01)-SITE\LAYOUT.dwg LAYOUT: 2 ACADVER: 23.1S (LMS TECH) PAGES: 21 OF 21 PLOT: 6/28/2022 2:11 PM BY: SMALL, BRIAN



- LEGEND:
- APPROXIMATE PROPERTY LINE
  - SOIL VAPOR EXTRACTION WELL
  - 7.5 HP BLOWER SKID
  - 4\"/>

- NOTES:
- SITE AERIAL PHOTOGRAPH FROM GOOGLE EARTH PRO, DATED 8/18/2020.
  - ALL LOCATIONS ARE APPROXIMATE.
  - OWNER TO PERFORM SAW-CUT & TRENCHING AT ASPHALT PARKING.
  - OWNER TO INSTALL ELECTRICAL PVC & CONDUCTORS FROM EXISTING ELECTRICAL PANELS INSIDE BUILDING TO TERMINATION INSIDE NEMA ENCLOSURE OF (2) TEMPORARY SVE BLOWER TREATMENT SYSTEMS.
  - OWNER TO MAKE (2) ELECTRICAL CONNECTIONS IN EXISTING ELECTRICAL PANELS TO PROVIDE 208 VAC 3P POWER TO (2) TEMPORARY SVE BLOWER TREATMENT SYSTEMS.
  - OWNER TO FURNISH & INSTALL (2) CIRCUIT BREAKERS IN EXISTING ELECTRICAL PANELS.
  - ARCADIS TO FURNISH AND INSTALL BELOW-GRADE PVC PIPING FROM SVE EXTRACTION WELLS TO SVE TREATMENT SYSTEM.
  - ARCADIS TO FURNISH AND INSTALL (2) PRE-ENGINEERED & ASSEMBLED TEMPORARY SVE BLOWER TREATMENT SYSTEMS.
  - OWNER TO BACKFILL AND COMPACT PIPING AND ELECTRICAL TRENCHES.
  - OWNER TO RESTORE ASPHALT PARKING LOT AND STRIPING AT TRENCH LOCATIONS.
  - SVE-1 GRASS ISLAND SHALL BE MOUND TO A LEVEL AREA ABOVE CONCRETE CURB TO ACCOMMODATE SVE-1 BLOWER SKID INSTALLATION AND TO SHED WATER AWAY FROM BLOWER SKID.
  - SVE-1 GRASS ISLAND SHALL BE COVERED WITH 10 MIL POLYETHYLENE SHEETING TO THE TO EDGE OF CONCRETE CURB AFTER LEVEL AND MOUNDING. FASTEN SHEETING ROLLED X 2 ONTO BATTEN BAR AT TOP OF CONCRETE CURB WITH MASONRY NAILS AT MINIMUM EVERY 12\"/>

0 40' 80'

GRAPHIC SCALE

THIS BAR REPRESENTS ONE INCH ON THE ORIGINAL DRAWING.

USE TO VERIFY FIGURE REPRODUCTION SCALE

| No. | Date | Revisions | By | Ckd |
|-----|------|-----------|----|-----|
|     |      |           |    |     |
|     |      |           |    |     |
|     |      |           |    |     |

Professional Engineer's Name  
**CHRISTOPHER D. ENGLER**

Professional Engineer's No.

State  
NY

Date Signed

Project Mgr.  
SF

Designed by  
ST/KC

Drawn by  
BS/KI

Checked by  
CDE

STATE OF NEW YORK

SEAL

PROFESSIONAL ENGINEER

ARCADIS

ARCADIS OF NEW YORK, INC.

NO ALTERATIONS PERMITTED HEREON EXCEPT AS PROVIDED UNDER SECTION 7209 SUBDIVISION 2 OF THE NEW YORK STATE EDUCATION LAW

131 SUNNYSIDE LLC • 131 SUNNYSIDE BOULEVARD, PLAINVIEW, NEW YORK

TEMPORARY SOIL VAPOR EXTRACTION DESIGN

**OVERHEAD SITE MAP WITH PIPING AND ELECTRICAL CONDUIT LAYOUT**

ARCADIS Project No.  
30022232.ENCDD0

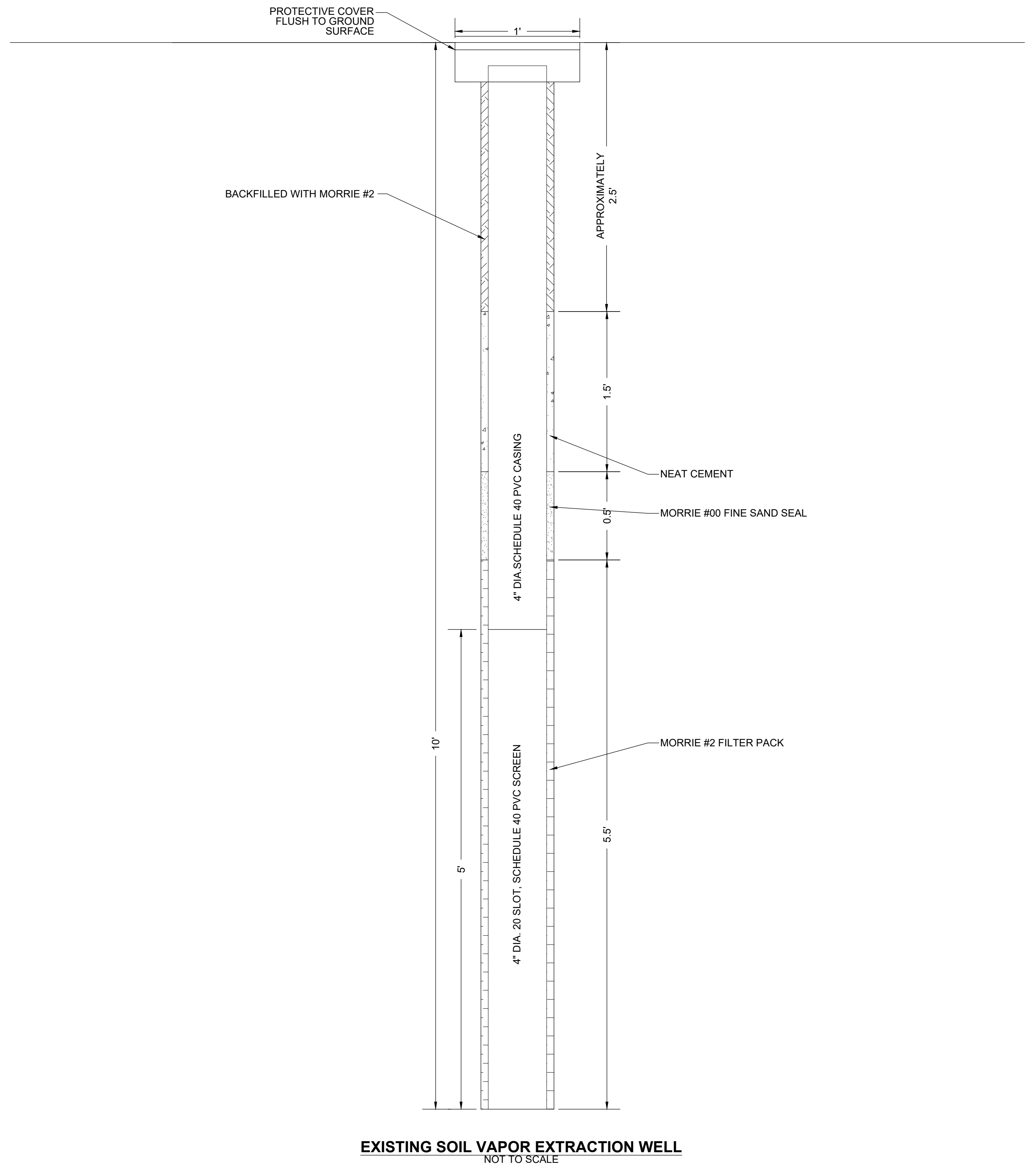
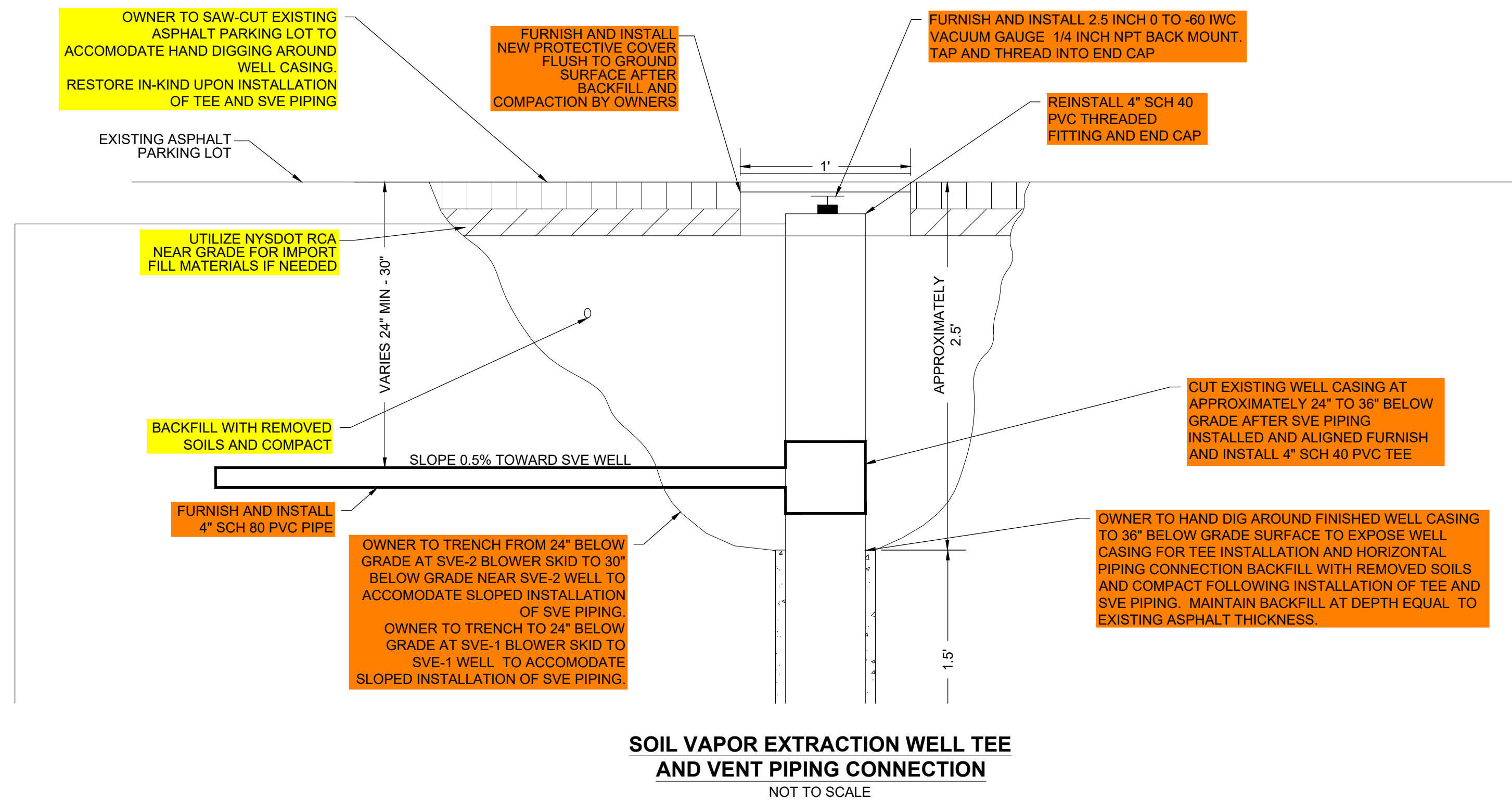
Date  
JUNE 2022

ARCADIS  
2 HUNTINGTON QUADRANGLE,  
SUITE 1S10  
MELVILLE, NY 11747

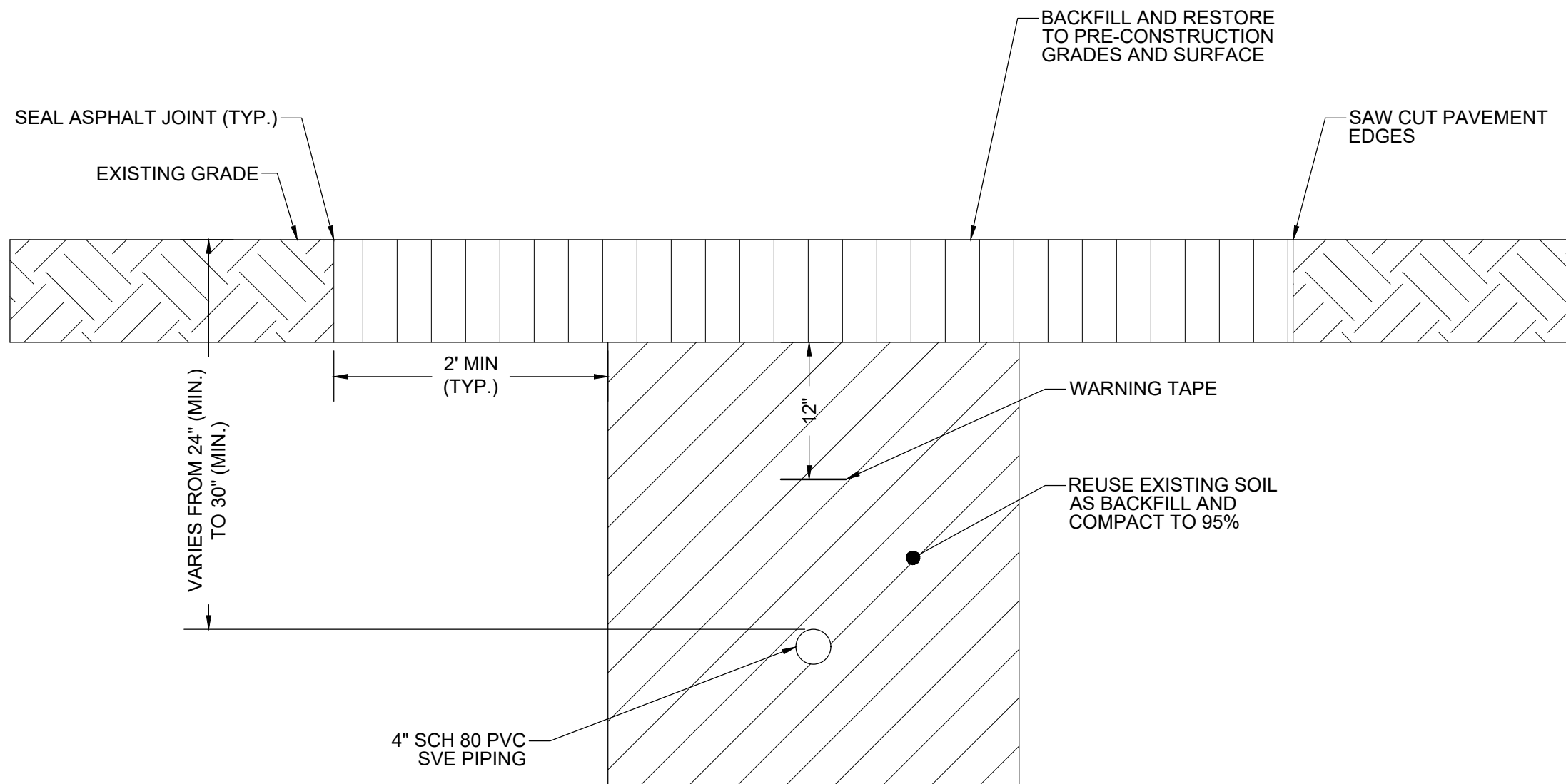
2

| BILL OF MATERIALS |     |      |                                                                                |                                                                     |                                                                                           |           |
|-------------------|-----|------|--------------------------------------------------------------------------------|---------------------------------------------------------------------|-------------------------------------------------------------------------------------------|-----------|
| ITEM              | QTY | UNIT | MATERIALS                                                                      | MODEL                                                               | MANUFACTURER                                                                              | INSTALLER |
| 1                 | 10  | LF   | (2) - 4" Diameter PVC Well Casing                                              | SCH 40 ASTM D1785                                                   | JM Eagle or Equivalent                                                                    | Arcadis   |
| 2                 | 10  | LF   | (2) - 4" Diameter 20 Slot PVC Well Screen                                      | SCH 40 ASTM D1785                                                   | JM Eagle or Equivalent                                                                    | Arcadis   |
| 3                 | 350 | LF   | 1" Diameter PVC Electrical Conduit                                             | SCH 40 ASTM D1785                                                   | JM Eagle or Equivalent                                                                    | Owner     |
| 4                 | 40  | LF   | 1" Diameter Galvanized Electrical RMC w/40-mil thick exterior PVC coating      | NEC Article 344                                                     | Allied Tube & Conduit or Equivalent                                                       | Owner     |
| 5                 | 600 | LF   | SVE-1 (3) #8 Power Conductor                                                   | Type XHHW-2 ASTM B3, B8 or ASTM B33                                 | Southwire or Equivalent                                                                   | Owner     |
| 6                 | 200 | LF   | SVE-1 (1)- #8 Ground Conductor                                                 | Type XHHW-2 ASTM B3, B8 or ASTM B33                                 | Southwire or Equivalent                                                                   | Owner     |
| 7                 | 825 | LF   | SVE-2 (3) - #6 Power Conductor                                                 | Type XHHW-2 ASTM B3, B8 or ASTM B33                                 | Southwire or Equivalent                                                                   | Owner     |
| 8                 | 275 | LF   | SVE-2 (1) - #8 Ground Conductor                                                | Type XHHW-2 ASTM B3, B8 or ASTM B33                                 | Southwire or Equivalent                                                                   | Owner     |
| 9                 | 2   | EA   | Circuit Breakers<br>40 Amp, 208VAC 3 Pole                                      | ANSI/UL 1449, UL 1283.<br>IEEE C62.11, IEEE C62.41 and IEEE C62.45. | Electrician to Field Verify Existing Service Panel Manufacturer and Select Make and Model | Owner     |
| 10                | 550 | LF   | 4" Wide Foil Detection Tape                                                    | 400 Series or Equivalent                                            | Scotch or Equivalent                                                                      | Owner     |
| 11                | 100 | LF   | 4" Diameter PVC Piping                                                         | SCH 80 ASTM D1785                                                   | JM Eagle or Equivalent                                                                    | Arcadis   |
| 12                | 12  | EA   | 3" PVC Tees, Threaded Fittings and Solvent Weld End Cap Fittings               | SCH 40 ASTM D1785                                                   | JM Eagle or Equivalent                                                                    | Arcadis   |
| 13                | 20  | LF   | 3" Diameter PVC Piping                                                         | SCH 40 ASTM D1785                                                   | JM Eagle or Equivalent                                                                    | Arcadis   |
| 14                | 21  | EA   | 4" PVC Tees, 90° Elbows, 45° Elbows, Couples and Solvent Weld End Cap Fittings | SCH 80 ASTM D1785                                                   | JM Eagle or Equivalent                                                                    | Arcadis   |
| 15                | 8   | LF   | 3" Diameter PVC Piping                                                         | SCH 80 ASTM D1785                                                   | JM Eagle or Equivalent                                                                    | Arcadis   |
| 16                | 2   | EA   | Non-Fusible NEMA 4 Disconnect Switch<br>60 Amp, 208 VAC, 3 Pole                | ANSI/UL 1449, UL 1283.IEEE C62.11, IEEE C62.41 and IEEE C62.45      | Square D or Equivalent                                                                    | Owner     |
| 17                | 2   | EA   | 2.5 Inch Vacuum Gauge 0 to -60 IWC 1/4 Inch NPT Back Mount                     | PGCNB7Y63045D2H60WCV                                                | PRM or Equivalent                                                                         | Arcadis   |
| 18                | 2   | EA   | Monitoring Manhole Cover 12" x 12" Bolt Down Lid Galvanized Skirt              | A0721-101<br>AASHTO H20                                             | Enviro Design or Equivalent                                                               | Arcadis   |
| 19                | 4   | EA   | Aluminum 3" Male Camlock X 3" Female NPT                                       | GA30M30FN                                                           | Camlock Direct or Equivalent                                                              | Arcadis   |
| 20                | 800 | SF   | Vapor Barrier Black Sheeting                                                   | 10 MIL<br>ASTM E1745                                                | ULINE or Equivalent                                                                       | Arcadis   |
| 21                | 2   | EA   | Blower Skid Package                                                            | 7.5 HP TEFC Motor/<br>FPZ Regenerative Blower                       | Fliteway                                                                                  | Arcadis   |

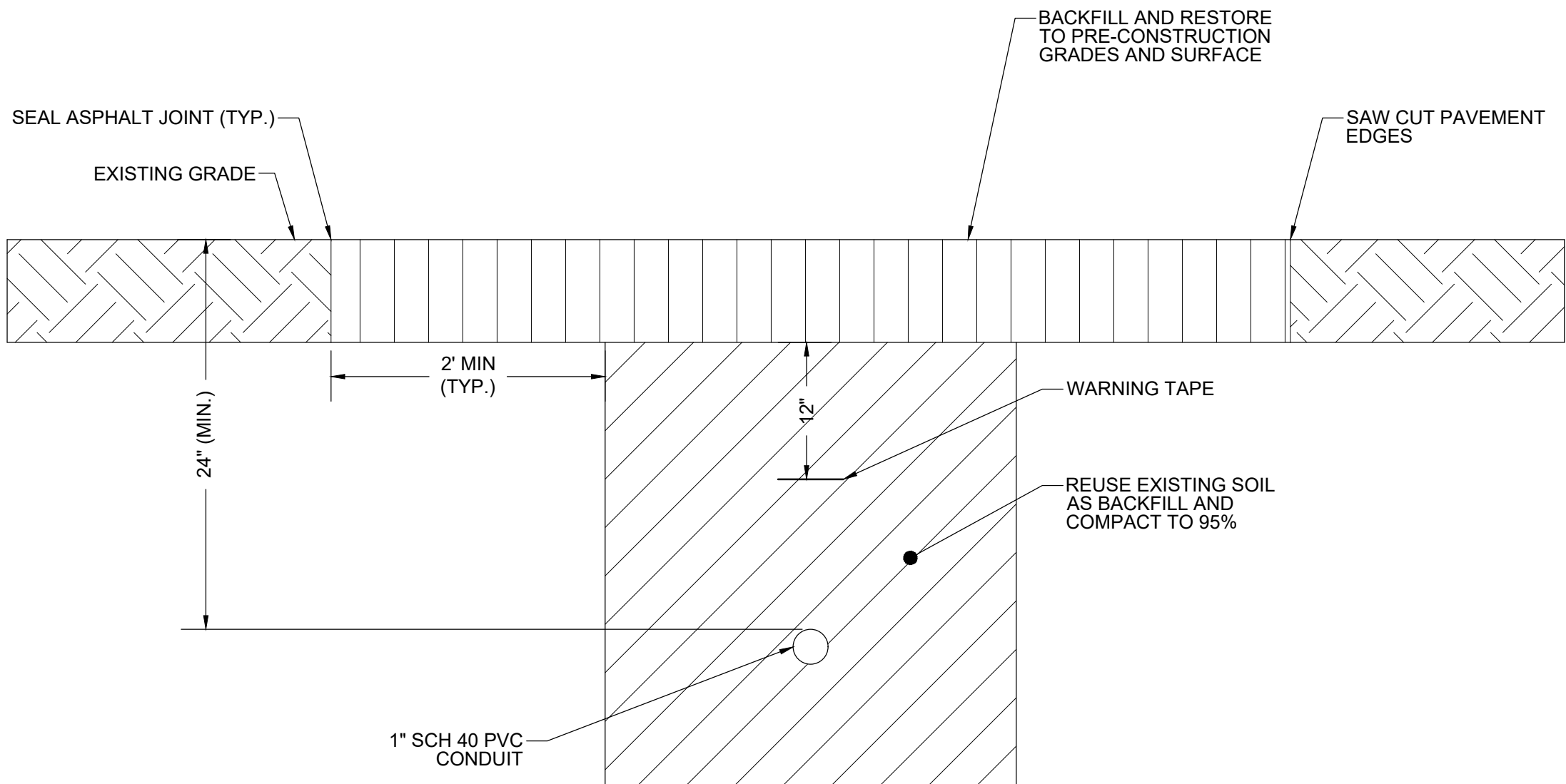
\*Note: Quantity estimations are approximate, contractor to provide all materials to construct as shown in drawings. Restoration materials are not included.



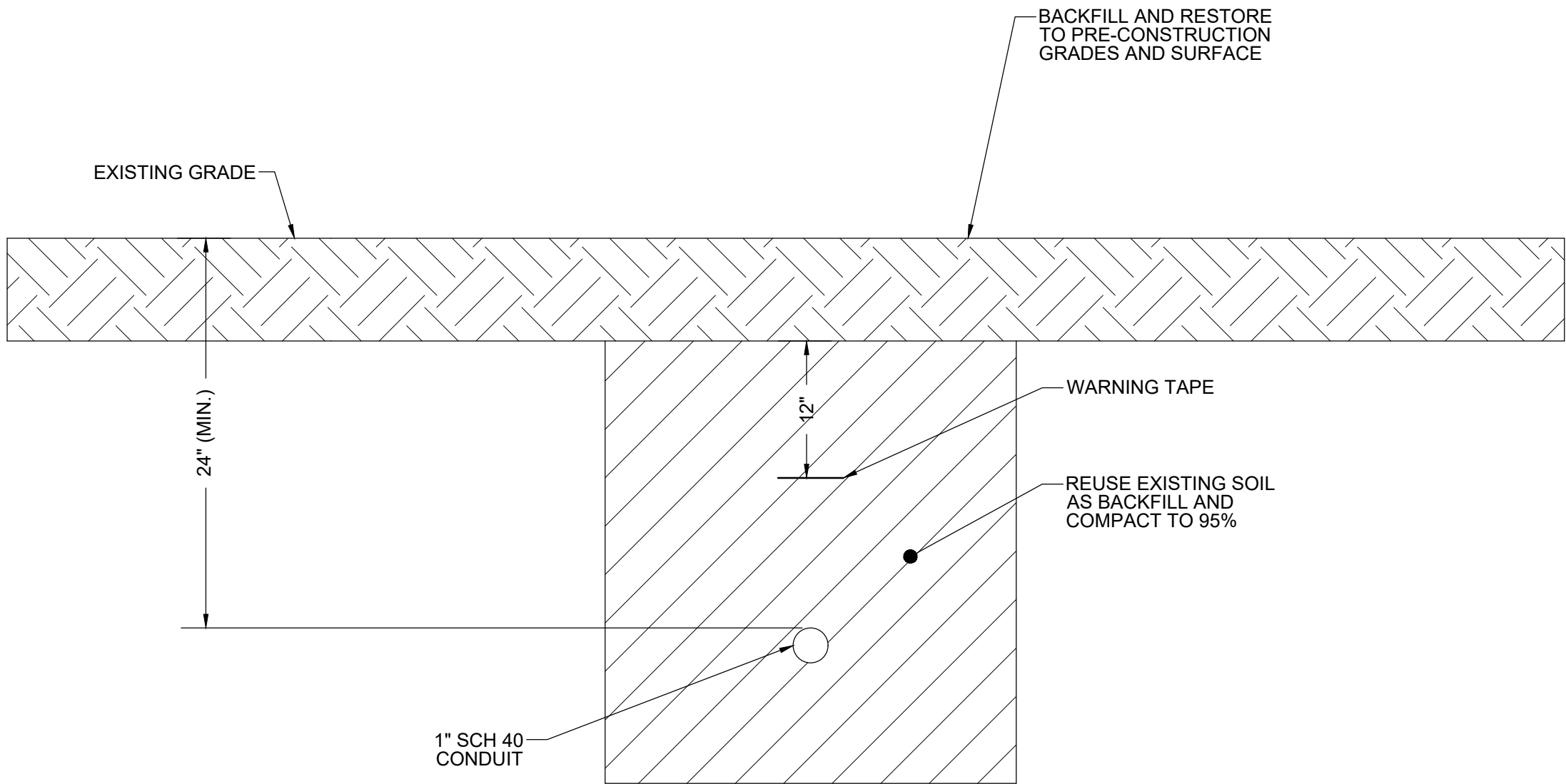
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C:\Users\BSS\ra\Arcadis\AUS\131 SUNNYSIDE, LLC\PLAINVIEW\Plainview New York\Project Files\2022\01-In Progress\01-DWG\SVE-F03-DETAILS.dwg LAYOUT: 4 SAVED: 6/28/2022 2:10 PM ACADVER: 23.1S (LMS TECH) PAGESETUP: ---- PLOTSTYLETABLE: BLACKGRAY-THIN.CTB  
PLOTTED: 6/28/2022 2:11 PM BY: SMALL, BRIAN



VENT PIPING TRENCH DETAIL  
NOT TO SCALE



ELECTRICAL CONDUIT TRENCH DETAIL  
(ASPHALT SURFACE)  
NOT TO SCALE

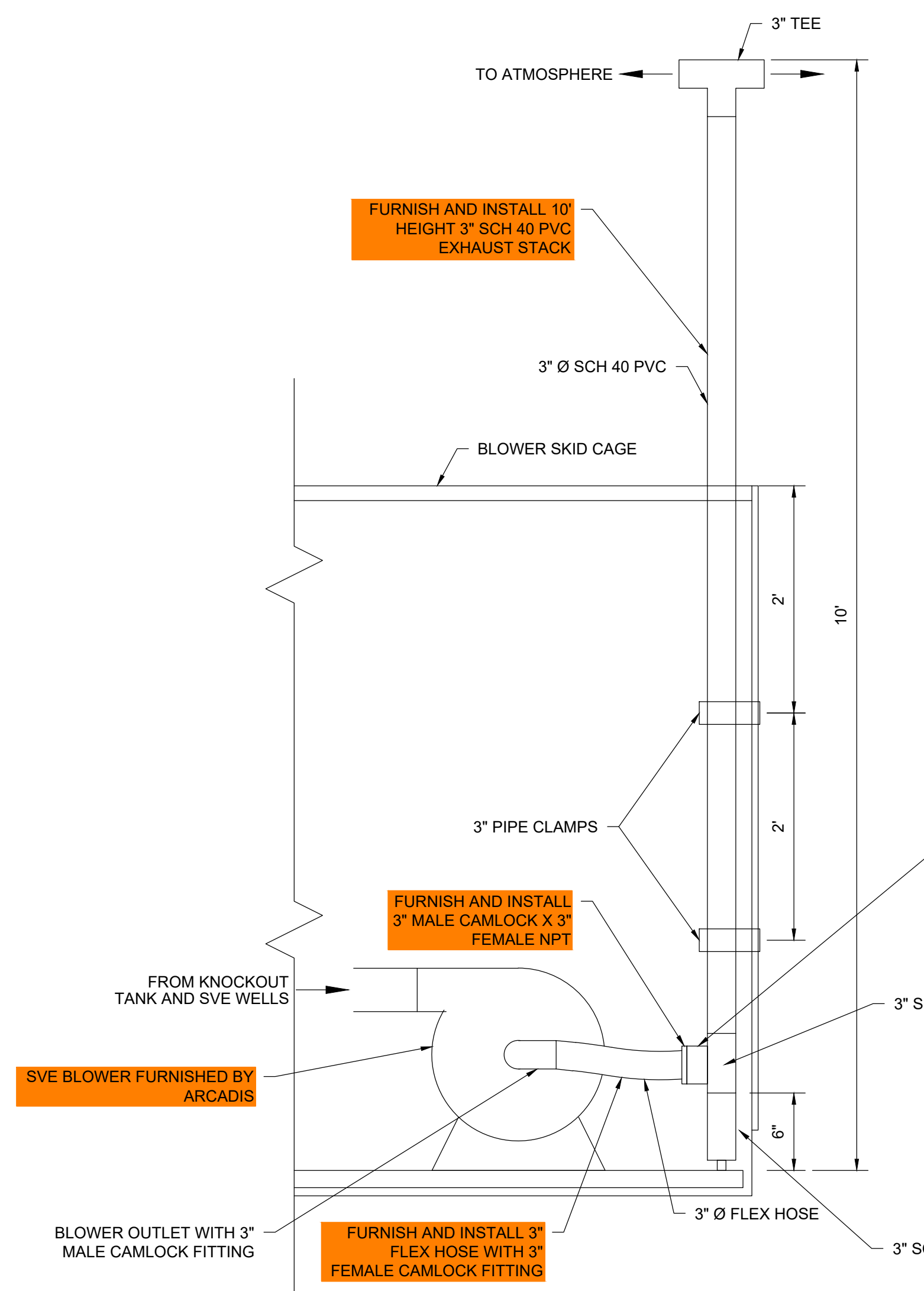


ELECTRICAL CONDUIT TRENCH DETAIL  
(SOIL SURFACE)  
NOT TO SCALE

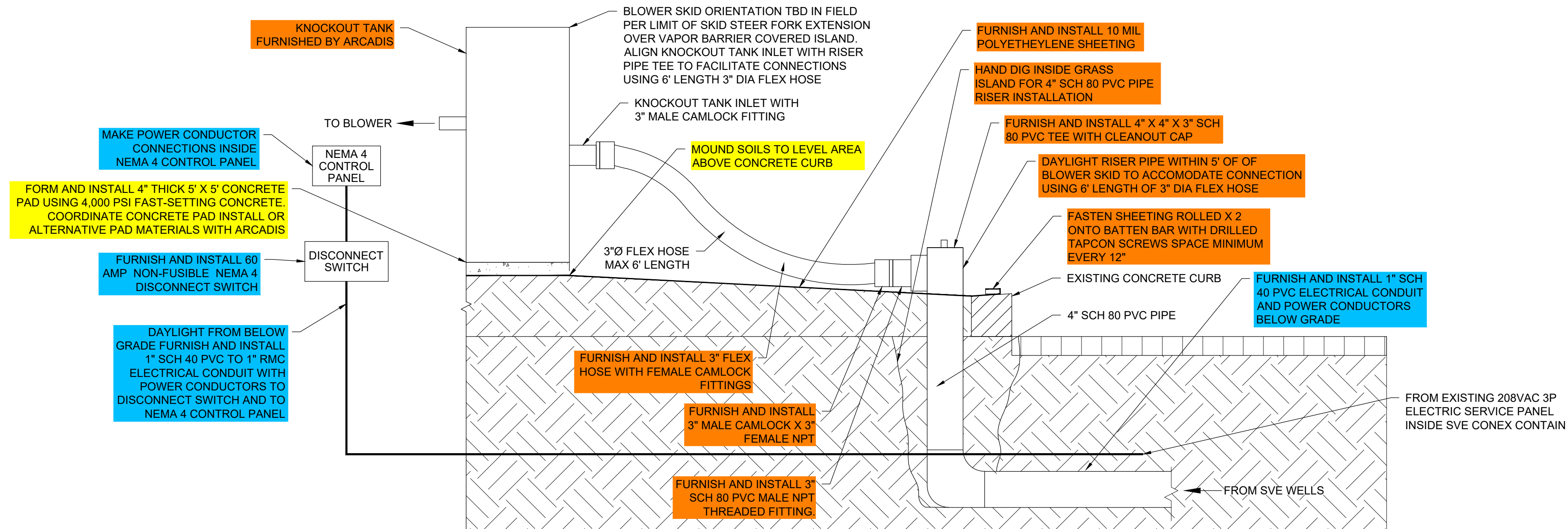
LEGEND

- BACKFILL
- ASPHALT
- EXISTING SOIL

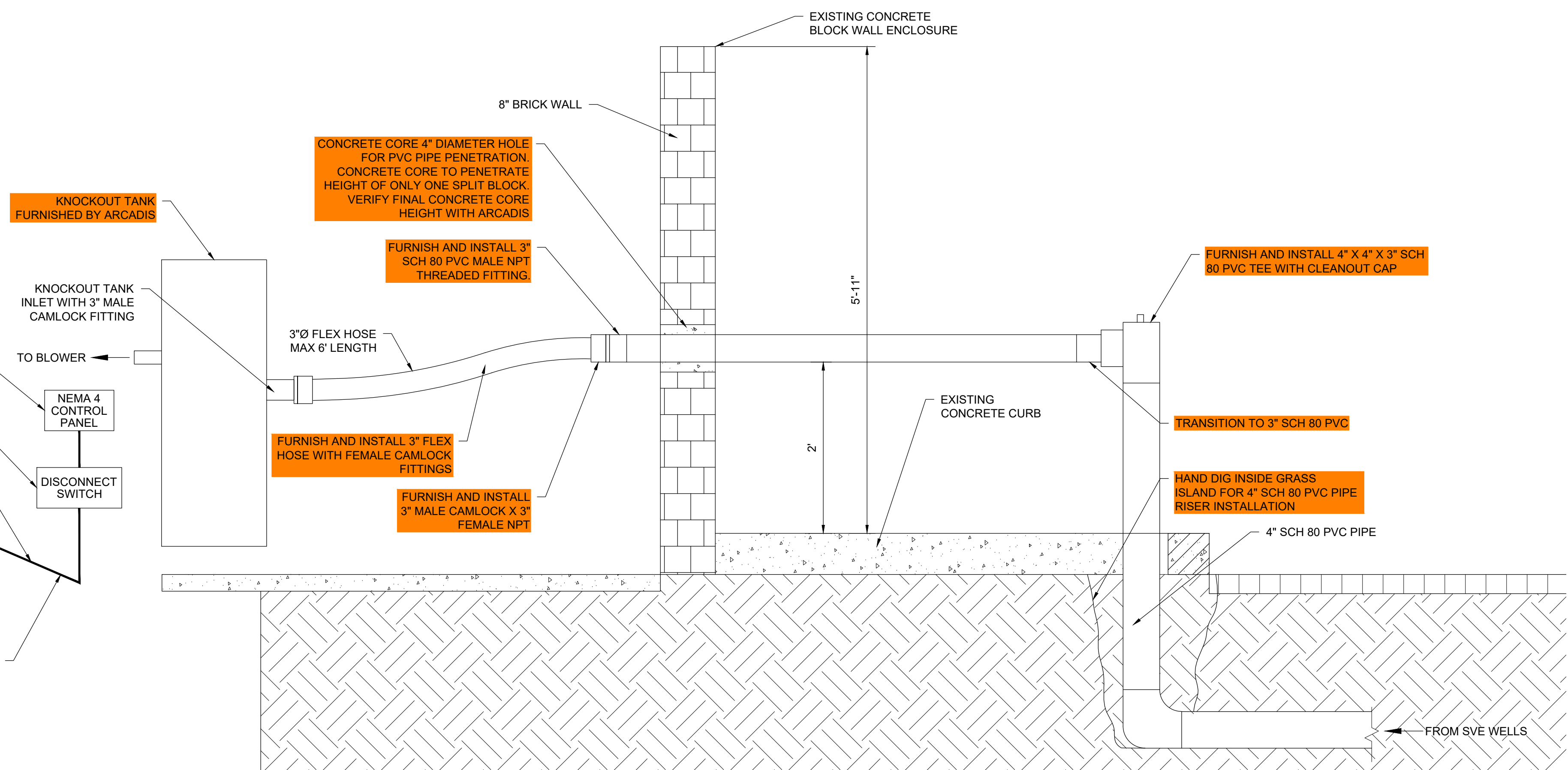
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|-------------------------------------------------------|--|-----------------------------------------|--|-----|--|--------------------------------------------------------------|--|-----------|----------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------|--|---------------------------------------|--|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|
| SCALE(S) AS INDICATED                                 |  |                                         |  |     |  | Professional Engineer's Name<br><b>CHRISTOPHER D. ENGLER</b> |  |           | <br>ARCADIS OF NEW YORK, INC.<br>NO ALTERATIONS PERMITTED HEREON EXCEPT AS PROVIDED UNDER SECTION 7209 SUBDIVISION 2 OF THE NEW YORK STATE EDUCATION LAW | 131 SUNNYSIDE LLC. • 131 SUNNYSIDE BOULEVARD, PLAINVIEW, NEW YORK<br>TEMPORARY SOIL VAPOR EXTRACTION DESIGN |  | ARCADIS Project No.<br>30022232.ENCD0 |  | 4                                                                                                                                                                                     |  |  |
|                                                       |  |                                         |  |     |  | Professional Engineer's No.                                  |  |           |                                                                                                                                                          |                                                                                                             |  | Date<br>JUNE 2022                     |  |                                                                                                                                                                                       |  |  |
|                                                       |  |                                         |  |     |  | State<br>NY                                                  |  |           |                                                                                                                                                          | Date Signed                                                                                                 |  | Project Mgr.<br>SF                    |  |                                                                                                                                                                                       |  |  |
|                                                       |  |                                         |  |     |  | Designed by<br>ST/KC                                         |  |           |                                                                                                                                                          | Drawn by<br>BS/KI                                                                                           |  | Checked by<br>CDE                     |  |                                                                                                                                                                                       |  |  |
| THIS BAR REPRESENTS ONE INCH ON THE ORIGINAL DRAWING: |  | USE TO VERIFY FIGURE REPRODUCTION SCALE |  | No. |  | Date                                                         |  | Revisions |                                                                                                                                                          | By                                                                                                          |  | Ckd                                   |  | THIS DRAWING IS THE PROPERTY OF THE ARCADIS ENTITY IDENTIFIED IN THE TITLE BLOCK AND MAY NOT BE REUSED OR ALTERED IN WHOLE OR IN PART WITHOUT THE EXPRESS WRITTEN PERMISSION OF SAME. |  |  |



**SVE-1 AND SVE-2 EXHAUST STACK INSTALLATION DETAIL**  
NOT TO SCALE



**SVE-1 BLOWER SKID CONNECTION  
DETAIL IN GRASS ISLAND**  
NOT TO SCALE



**SVE-2 INSTALLATION DETAIL**  
NOT TO SCALE

|                                                                                                                                                                                       |  |                                         |  |  |  |                                                                                             |  |                                                                                       |                                                                                                                                                                                                                                                   |                                                                                                                                                 |                                      |   |                                                                      |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|-----------------------------------------|--|--|--|---------------------------------------------------------------------------------------------|--|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------|---|----------------------------------------------------------------------|
| SCALE(S) AS INDICATED                                                                                                                                                                 |  |                                         |  |  |  | Professional Engineer's Name<br><b>CHRISTOPHER D. ENGLER</b><br>Professional Engineer's No. |  |  | <br>ARCADIS OF NEW YORK, INC.<br><br>NO ALTERATIONS PERMITTED HEREON EXCEPT AS PROVIDED UNDER SECTION 7209 SUBDIVISION 2 OF THE NEW YORK STATE EDUCATION LAW | 131 SUNNYSIDE LLC. • 131 SUNNYSIDE BOULEVARD, PLAINVIEW, NEW YORK<br>TEMPORARY SOIL VAPOR EXTRACTION DESIGN<br><br><b>MISCELLANEOUS DETAILS</b> | ARCADIS Project No.<br>3002232.ENC00 | 5 |                                                                      |
| THIS BAR REPRESENTS ONE INCH ON THE ORIGINAL DRAWING:                                                                                                                                 |  | USE TO VERIFY FIGURE REPRODUCTION SCALE |  |  |  | State Date Signed Project Mgr.<br>NY SF                                                     |  |                                                                                       |                                                                                                                                                                                                                                                   |                                                                                                                                                 | Date<br>JUNE 2022                    |   | ARCADIS<br>2 HUNTINGTON QUADRANGLE, SUITE 1S10<br>MELVILLE, NY 11747 |
|                                                                                                                                                                                       |  |                                         |  |  |  | Designed by Drawn by Checked by<br>ST/KC BS/KI CDE                                          |  |                                                                                       |                                                                                                                                                                                                                                                   |                                                                                                                                                 |                                      |   |                                                                      |
| THIS DRAWING IS THE PROPERTY OF THE ARCADIS ENTITY IDENTIFIED IN THE TITLE BLOCK AND MAY NOT BE REUSED OR ALTERED IN WHOLE OR IN PART WITHOUT THE EXPRESS WRITTEN PERMISSION OF SAME. |  |                                         |  |  |  |                                                                                             |  |                                                                                       |                                                                                                                                                                                                                                                   |                                                                                                                                                 |                                      |   |                                                                      |



## Appendix B



## ANALYTICAL REPORT

Lab Number: L2239129

Client: Arcadis of New York, Inc.  
Two Huntington Quadrangle  
Suite 1S10  
Melville, NY 11747

ATTN: Steven Feldman

Phone: (631) 249-7600

Project Name: 131 SUNNYSIDE BLVD

Project Number: 30017762.00012

Report Date: 08/03/22

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

Certifications & Approvals: MA (M-MA030), NH NELAP (2062), CT (PH-0141), DoD (L2474), FL (E87814), IL (200081), LA (85084), ME (MA00030), MD (350), NJ (MA015), NY (11627), NC (685), OH (CL106), PA (68-02089), RI (LAO00299), TX (T104704419), VT (VT-0015), VA (460194), WA (C954), US Army Corps of Engineers, USDA (Permit #P330-17-00150), USFWS (Permit #206964).

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320 Forbes Boulevard, Mansfield, MA 02048-1806  
508-822-9300 (Fax) 508-822-3288 800-624-9220 - [www.alphalab.com](http://www.alphalab.com)



**Project Name:** 131 SUNNYSIDE BLVD  
**Project Number:** 30017762.00012

**Lab Number:** L2239129  
**Report Date:** 08/03/22

| <b>Alpha<br/>Sample ID</b> | <b>Client ID</b> | <b>Matrix</b> | <b>Sample<br/>Location</b> | <b>Collection<br/>Date/Time</b> | <b>Receive Date</b> |
|----------------------------|------------------|---------------|----------------------------|---------------------------------|---------------------|
| L2239129-01                | SVE-2            | SOIL_VAPOR    | PLAINVIEW NY               | 07/21/22 16:00                  | 07/21/22            |
| L2239129-02                | SVE-1            | SOIL_VAPOR    | PLAINVIEW NY               | 07/21/22 15:30                  | 07/21/22            |

**Project Name:** 131 SUNNYSIDE BLVD  
**Project Number:** 30017762.00012

**Lab Number:** L2239129  
**Report Date:** 08/03/22

### Case Narrative

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

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

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

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

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

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

---

**Project Name:** 131 SUNNYSIDE BLVD  
**Project Number:** 30017762.00012

**Lab Number:** L2239129  
**Report Date:** 08/03/22

### Case Narrative (continued)

#### Volatile Organics in Air

L2239129-01D and -02D: The samples have elevated detection limits due to the dilution required by the elevated concentrations of target compounds in the samples.

L2239129-01D and -02D: Samples were transferred from a Tedlar bag into a fused silica lined canister upon receipt in order to extend the holding time for analysis.

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

Authorized Signature:  Christopher J. Anderson

Title: Technical Director/Representative

Date: 08/03/22

**AIR**

**Project Name:** 131 SUNNYSIDE BLVD**Lab Number:** L2239129**Project Number:** 30017762.00012**Report Date:** 08/03/22**SAMPLE RESULTS**

Lab ID: L2239129-01 D

Client ID: SVE-2

Sample Location: PLAINVIEW NY

Date Collected: 07/21/22 16:00

Date Received: 07/21/22

Field Prep: Not Specified

Sample Depth:

Matrix: Soil\_Vapor

Analytical Method: 48,TO-15

Analytical Date: 08/02/22 01:44

Analyst: TS

| Parameter                                | ppbV    |      |     | ug/m3   |      |     | Qualifier | Dilution Factor |
|------------------------------------------|---------|------|-----|---------|------|-----|-----------|-----------------|
|                                          | Results | RL   | MDL | Results | RL   | MDL |           |                 |
| Volatile Organics in Air - Mansfield Lab |         |      |     |         |      |     |           |                 |
| Dichlorodifluoromethane                  | ND      | 4.84 | --  | ND      | 23.9 | --  |           | 24.18           |
| Chloromethane                            | ND      | 4.84 | --  | ND      | 9.99 | --  |           | 24.18           |
| Freon-114                                | ND      | 4.84 | --  | ND      | 33.8 | --  |           | 24.18           |
| Vinyl chloride                           | ND      | 4.84 | --  | ND      | 12.4 | --  |           | 24.18           |
| 1,3-Butadiene                            | ND      | 4.84 | --  | ND      | 10.7 | --  |           | 24.18           |
| Bromomethane                             | ND      | 4.84 | --  | ND      | 18.8 | --  |           | 24.18           |
| Chloroethane                             | ND      | 4.84 | --  | ND      | 12.8 | --  |           | 24.18           |
| Ethanol                                  | ND      | 121  | --  | ND      | 228  | --  |           | 24.18           |
| Vinyl bromide                            | ND      | 4.84 | --  | ND      | 21.2 | --  |           | 24.18           |
| Acetone                                  | 31.0    | 24.2 | --  | 73.6    | 57.5 | --  |           | 24.18           |
| Trichlorofluoromethane                   | ND      | 4.84 | --  | ND      | 27.2 | --  |           | 24.18           |
| Isopropanol                              | 12.2    | 12.1 | --  | 30.0    | 29.7 | --  |           | 24.18           |
| 1,1-Dichloroethene                       | ND      | 4.84 | --  | ND      | 19.2 | --  |           | 24.18           |
| Tertiary butyl Alcohol                   | ND      | 12.1 | --  | ND      | 36.7 | --  |           | 24.18           |
| Methylene chloride                       | ND      | 12.1 | --  | ND      | 42.0 | --  |           | 24.18           |
| 3-Chloropropene                          | ND      | 4.84 | --  | ND      | 15.1 | --  |           | 24.18           |
| Carbon disulfide                         | ND      | 4.84 | --  | ND      | 15.1 | --  |           | 24.18           |
| Freon-113                                | ND      | 4.84 | --  | ND      | 37.1 | --  |           | 24.18           |
| trans-1,2-Dichloroethene                 | 7.47    | 4.84 | --  | 29.6    | 19.2 | --  |           | 24.18           |
| 1,1-Dichloroethane                       | ND      | 4.84 | --  | ND      | 19.6 | --  |           | 24.18           |
| Methyl tert butyl ether                  | ND      | 4.84 | --  | ND      | 17.4 | --  |           | 24.18           |
| 2-Butanone                               | 27.7    | 12.1 | --  | 81.7    | 35.7 | --  |           | 24.18           |
| cis-1,2-Dichloroethene                   | 111     | 4.84 | --  | 440     | 19.2 | --  |           | 24.18           |



**Project Name:** 131 SUNNYSIDE BLVD**Lab Number:** L2239129**Project Number:** 30017762.00012**Report Date:** 08/03/22**SAMPLE RESULTS**

Lab ID: L2239129-01 D

Client ID: SVE-2

Sample Location: PLAINVIEW NY

Date Collected: 07/21/22 16:00

Date Received: 07/21/22

Field Prep: Not Specified

Sample Depth:

| Parameter                                | ppbV    |      |     | ug/m3   |      |     | Qualifier | Dilution Factor |
|------------------------------------------|---------|------|-----|---------|------|-----|-----------|-----------------|
|                                          | Results | RL   | MDL | Results | RL   | MDL |           |                 |
| Volatile Organics in Air - Mansfield Lab |         |      |     |         |      |     |           |                 |
| Ethyl Acetate                            | ND      | 12.1 | --  | ND      | 43.6 | --  |           | 24.18           |
| Chloroform                               | ND      | 4.84 | --  | ND      | 23.6 | --  |           | 24.18           |
| Tetrahydrofuran                          | 168     | 12.1 | --  | 495     | 35.7 | --  |           | 24.18           |
| 1,2-Dichloroethane                       | ND      | 4.84 | --  | ND      | 19.6 | --  |           | 24.18           |
| n-Hexane                                 | ND      | 4.84 | --  | ND      | 17.1 | --  |           | 24.18           |
| 1,1,1-Trichloroethane                    | 6.19    | 4.84 | --  | 33.8    | 26.4 | --  |           | 24.18           |
| Benzene                                  | ND      | 4.84 | --  | ND      | 15.5 | --  |           | 24.18           |
| Carbon tetrachloride                     | ND      | 4.84 | --  | ND      | 30.4 | --  |           | 24.18           |
| Cyclohexane                              | ND      | 4.84 | --  | ND      | 16.7 | --  |           | 24.18           |
| 1,2-Dichloropropane                      | ND      | 4.84 | --  | ND      | 22.4 | --  |           | 24.18           |
| Bromodichloromethane                     | ND      | 4.84 | --  | ND      | 32.4 | --  |           | 24.18           |
| 1,4-Dioxane                              | ND      | 4.84 | --  | ND      | 17.4 | --  |           | 24.18           |
| Trichloroethene                          | 1810    | 4.84 | --  | 9730    | 26.0 | --  |           | 24.18           |
| 2,2,4-Trimethylpentane                   | ND      | 4.84 | --  | ND      | 22.6 | --  |           | 24.18           |
| Heptane                                  | ND      | 4.84 | --  | ND      | 19.8 | --  |           | 24.18           |
| cis-1,3-Dichloropropene                  | ND      | 4.84 | --  | ND      | 22.0 | --  |           | 24.18           |
| 4-Methyl-2-pentanone                     | ND      | 12.1 | --  | ND      | 49.6 | --  |           | 24.18           |
| trans-1,3-Dichloropropene                | ND      | 4.84 | --  | ND      | 22.0 | --  |           | 24.18           |
| 1,1,2-Trichloroethane                    | ND      | 4.84 | --  | ND      | 26.4 | --  |           | 24.18           |
| Toluene                                  | 6.29    | 4.84 | --  | 23.7    | 18.2 | --  |           | 24.18           |
| 2-Hexanone                               | ND      | 4.84 | --  | ND      | 19.8 | --  |           | 24.18           |
| Dibromochloromethane                     | ND      | 4.84 | --  | ND      | 41.2 | --  |           | 24.18           |
| 1,2-Dibromoethane                        | ND      | 4.84 | --  | ND      | 37.2 | --  |           | 24.18           |
| Tetrachloroethene                        | 14.7    | 4.84 | --  | 99.7    | 32.8 | --  |           | 24.18           |
| Chlorobenzene                            | ND      | 4.84 | --  | ND      | 22.3 | --  |           | 24.18           |
| Ethylbenzene                             | ND      | 4.84 | --  | ND      | 21.0 | --  |           | 24.18           |



**Project Name:** 131 SUNNYSIDE BLVD  
**Project Number:** 30017762.00012

**Lab Number:** L2239129  
**Report Date:** 08/03/22

### SAMPLE RESULTS

Lab ID: L2239129-01 D  
 Client ID: SVE-2  
 Sample Location: PLAINVIEW NY

Date Collected: 07/21/22 16:00  
 Date Received: 07/21/22  
 Field Prep: Not Specified

Sample Depth:

| Parameter                                | ppbV    |      |     | ug/m3   |      |     | Qualifier | Dilution Factor |
|------------------------------------------|---------|------|-----|---------|------|-----|-----------|-----------------|
|                                          | Results | RL   | MDL | Results | RL   | MDL |           |                 |
| Volatile Organics in Air - Mansfield Lab |         |      |     |         |      |     |           |                 |
| p/m-Xylene                               | ND      | 9.67 | --  | ND      | 42.0 | --  |           | 24.18           |
| Bromoform                                | ND      | 4.84 | --  | ND      | 50.0 | --  |           | 24.18           |
| Styrene                                  | ND      | 4.84 | --  | ND      | 20.6 | --  |           | 24.18           |
| 1,1,2,2-Tetrachloroethane                | ND      | 4.84 | --  | ND      | 33.2 | --  |           | 24.18           |
| o-Xylene                                 | ND      | 4.84 | --  | ND      | 21.0 | --  |           | 24.18           |
| 4-Ethyltoluene                           | ND      | 4.84 | --  | ND      | 23.8 | --  |           | 24.18           |
| 1,3,5-Trimethylbenzene                   | ND      | 4.84 | --  | ND      | 23.8 | --  |           | 24.18           |
| 1,2,4-Trimethylbenzene                   | ND      | 4.84 | --  | ND      | 23.8 | --  |           | 24.18           |
| Benzyl chloride                          | ND      | 4.84 | --  | ND      | 25.1 | --  |           | 24.18           |
| 1,3-Dichlorobenzene                      | ND      | 4.84 | --  | ND      | 29.1 | --  |           | 24.18           |
| 1,4-Dichlorobenzene                      | ND      | 4.84 | --  | ND      | 29.1 | --  |           | 24.18           |
| 1,2-Dichlorobenzene                      | ND      | 4.84 | --  | ND      | 29.1 | --  |           | 24.18           |
| 1,2,4-Trichlorobenzene                   | ND      | 4.84 | --  | ND      | 35.9 | --  |           | 24.18           |
| Hexachlorobutadiene                      | ND      | 4.84 | --  | ND      | 51.6 | --  |           | 24.18           |

| Internal Standard   | % Recovery | Qualifier | Acceptance Criteria |
|---------------------|------------|-----------|---------------------|
| 1,4-Difluorobenzene | 112        |           | 60-140              |
| Bromochloromethane  | 111        |           | 60-140              |
| chlorobenzene-d5    | 104        |           | 60-140              |



**Project Name:** 131 SUNNYSIDE BLVD**Lab Number:** L2239129**Project Number:** 30017762.00012**Report Date:** 08/03/22**SAMPLE RESULTS**

Lab ID: L2239129-02 D

Client ID: SVE-1

Sample Location: PLAINVIEW NY

Date Collected: 07/21/22 15:30

Date Received: 07/21/22

Field Prep: Not Specified

Sample Depth:

Matrix: Soil\_Vapor

Analytical Method: 48,TO-15

Analytical Date: 08/02/22 02:20

Analyst: TS

| Parameter                                | ppbV    |      |     | ug/m3   |      |     | Qualifier | Dilution Factor |
|------------------------------------------|---------|------|-----|---------|------|-----|-----------|-----------------|
|                                          | Results | RL   | MDL | Results | RL   | MDL |           |                 |
| Volatile Organics in Air - Mansfield Lab |         |      |     |         |      |     |           |                 |
| Dichlorodifluoromethane                  | ND      | 76.9 | --  | ND      | 380  | --  |           | 384.6           |
| Chloromethane                            | ND      | 76.9 | --  | ND      | 159  | --  |           | 384.6           |
| Freon-114                                | ND      | 76.9 | --  | ND      | 538  | --  |           | 384.6           |
| Vinyl chloride                           | ND      | 76.9 | --  | ND      | 197  | --  |           | 384.6           |
| 1,3-Butadiene                            | ND      | 76.9 | --  | ND      | 170  | --  |           | 384.6           |
| Bromomethane                             | ND      | 76.9 | --  | ND      | 299  | --  |           | 384.6           |
| Chloroethane                             | ND      | 76.9 | --  | ND      | 203  | --  |           | 384.6           |
| Ethanol                                  | ND      | 1920 | --  | ND      | 3620 | --  |           | 384.6           |
| Vinyl bromide                            | ND      | 76.9 | --  | ND      | 336  | --  |           | 384.6           |
| Acetone                                  | ND      | 385  | --  | ND      | 915  | --  |           | 384.6           |
| Trichlorofluoromethane                   | ND      | 76.9 | --  | ND      | 432  | --  |           | 384.6           |
| Isopropanol                              | ND      | 192  | --  | ND      | 472  | --  |           | 384.6           |
| 1,1-Dichloroethene                       | ND      | 76.9 | --  | ND      | 305  | --  |           | 384.6           |
| Tertiary butyl Alcohol                   | ND      | 192  | --  | ND      | 582  | --  |           | 384.6           |
| Methylene chloride                       | ND      | 192  | --  | ND      | 667  | --  |           | 384.6           |
| 3-Chloropropene                          | ND      | 76.9 | --  | ND      | 241  | --  |           | 384.6           |
| Carbon disulfide                         | ND      | 76.9 | --  | ND      | 239  | --  |           | 384.6           |
| Freon-113                                | ND      | 76.9 | --  | ND      | 589  | --  |           | 384.6           |
| trans-1,2-Dichloroethene                 | ND      | 76.9 | --  | ND      | 305  | --  |           | 384.6           |
| 1,1-Dichloroethane                       | 76.9    | 76.9 | --  | 311     | 311  | --  |           | 384.6           |
| Methyl tert butyl ether                  | ND      | 76.9 | --  | ND      | 277  | --  |           | 384.6           |
| 2-Butanone                               | ND      | 192  | --  | ND      | 566  | --  |           | 384.6           |
| cis-1,2-Dichloroethene                   | 416     | 76.9 | --  | 1650    | 305  | --  |           | 384.6           |



**Project Name:** 131 SUNNYSIDE BLVD**Lab Number:** L2239129**Project Number:** 30017762.00012**Report Date:** 08/03/22**SAMPLE RESULTS**

Lab ID: L2239129-02 D

Client ID: SVE-1

Sample Location: PLAINVIEW NY

Date Collected: 07/21/22 15:30

Date Received: 07/21/22

Field Prep: Not Specified

Sample Depth:

| Parameter                                | ppbV    |      |     | ug/m3   |     |     | Qualifier | Dilution Factor |
|------------------------------------------|---------|------|-----|---------|-----|-----|-----------|-----------------|
|                                          | Results | RL   | MDL | Results | RL  | MDL |           |                 |
| Volatile Organics in Air - Mansfield Lab |         |      |     |         |     |     |           |                 |
| Ethyl Acetate                            | ND      | 192. | --  | ND      | 692 | --  |           | 384.6           |
| Chloroform                               | ND      | 76.9 | --  | ND      | 376 | --  |           | 384.6           |
| Tetrahydrofuran                          | 1030    | 192  | --  | 3040    | 566 | --  |           | 384.6           |
| 1,2-Dichloroethane                       | ND      | 76.9 | --  | ND      | 311 | --  |           | 384.6           |
| n-Hexane                                 | ND      | 76.9 | --  | ND      | 271 | --  |           | 384.6           |
| 1,1,1-Trichloroethane                    | 182     | 76.9 | --  | 993     | 420 | --  |           | 384.6           |
| Benzene                                  | ND      | 76.9 | --  | ND      | 246 | --  |           | 384.6           |
| Carbon tetrachloride                     | ND      | 76.9 | --  | ND      | 484 | --  |           | 384.6           |
| Cyclohexane                              | ND      | 76.9 | --  | ND      | 265 | --  |           | 384.6           |
| 1,2-Dichloropropane                      | ND      | 76.9 | --  | ND      | 355 | --  |           | 384.6           |
| Bromodichloromethane                     | ND      | 76.9 | --  | ND      | 515 | --  |           | 384.6           |
| 1,4-Dioxane                              | ND      | 76.9 | --  | ND      | 277 | --  |           | 384.6           |
| Trichloroethene                          | 25000   | 76.9 | --  | 134000  | 413 | --  |           | 384.6           |
| 2,2,4-Trimethylpentane                   | ND      | 76.9 | --  | ND      | 359 | --  |           | 384.6           |
| Heptane                                  | ND      | 76.9 | --  | ND      | 315 | --  |           | 384.6           |
| cis-1,3-Dichloropropene                  | ND      | 76.9 | --  | ND      | 349 | --  |           | 384.6           |
| 4-Methyl-2-pentanone                     | ND      | 192. | --  | ND      | 787 | --  |           | 384.6           |
| trans-1,3-Dichloropropene                | ND      | 76.9 | --  | ND      | 349 | --  |           | 384.6           |
| 1,1,2-Trichloroethane                    | ND      | 76.9 | --  | ND      | 420 | --  |           | 384.6           |
| Toluene                                  | ND      | 76.9 | --  | ND      | 290 | --  |           | 384.6           |
| 2-Hexanone                               | ND      | 76.9 | --  | ND      | 315 | --  |           | 384.6           |
| Dibromochloromethane                     | ND      | 76.9 | --  | ND      | 655 | --  |           | 384.6           |
| 1,2-Dibromoethane                        | ND      | 76.9 | --  | ND      | 591 | --  |           | 384.6           |
| Tetrachloroethene                        | ND      | 76.9 | --  | ND      | 521 | --  |           | 384.6           |
| Chlorobenzene                            | ND      | 76.9 | --  | ND      | 354 | --  |           | 384.6           |
| Ethylbenzene                             | ND      | 76.9 | --  | ND      | 334 | --  |           | 384.6           |



**Project Name:** 131 SUNNYSIDE BLVD**Lab Number:** L2239129**Project Number:** 30017762.00012**Report Date:** 08/03/22**SAMPLE RESULTS**

Lab ID: L2239129-02 D

Client ID: SVE-1

Sample Location: PLAINVIEW NY

Date Collected: 07/21/22 15:30

Date Received: 07/21/22

Field Prep: Not Specified

Sample Depth:

| Parameter                                | ppbV    |      |     | ug/m3   |     |     | Qualifier | Dilution Factor |
|------------------------------------------|---------|------|-----|---------|-----|-----|-----------|-----------------|
|                                          | Results | RL   | MDL | Results | RL  | MDL |           |                 |
| Volatile Organics in Air - Mansfield Lab |         |      |     |         |     |     |           |                 |
| p/m-Xylene                               | ND      | 154. | --  | ND      | 669 | --  |           | 384.6           |
| Bromoform                                | ND      | 76.9 | --  | ND      | 795 | --  |           | 384.6           |
| Styrene                                  | ND      | 76.9 | --  | ND      | 327 | --  |           | 384.6           |
| 1,1,2,2-Tetrachloroethane                | ND      | 76.9 | --  | ND      | 528 | --  |           | 384.6           |
| o-Xylene                                 | ND      | 76.9 | --  | ND      | 334 | --  |           | 384.6           |
| 4-Ethyltoluene                           | ND      | 76.9 | --  | ND      | 378 | --  |           | 384.6           |
| 1,3,5-Trimethylbenzene                   | ND      | 76.9 | --  | ND      | 378 | --  |           | 384.6           |
| 1,2,4-Trimethylbenzene                   | ND      | 76.9 | --  | ND      | 378 | --  |           | 384.6           |
| Benzyl chloride                          | ND      | 76.9 | --  | ND      | 398 | --  |           | 384.6           |
| 1,3-Dichlorobenzene                      | ND      | 76.9 | --  | ND      | 462 | --  |           | 384.6           |
| 1,4-Dichlorobenzene                      | ND      | 76.9 | --  | ND      | 462 | --  |           | 384.6           |
| 1,2-Dichlorobenzene                      | ND      | 76.9 | --  | ND      | 462 | --  |           | 384.6           |
| 1,2,4-Trichlorobenzene                   | ND      | 76.9 | --  | ND      | 571 | --  |           | 384.6           |
| Hexachlorobutadiene                      | ND      | 76.9 | --  | ND      | 820 | --  |           | 384.6           |

| Internal Standard   | % Recovery | Qualifier | Acceptance Criteria |
|---------------------|------------|-----------|---------------------|
| 1,4-Difluorobenzene | 110        |           | 60-140              |
| Bromochloromethane  | 112        |           | 60-140              |
| chlorobenzene-d5    | 104        |           | 60-140              |



Project Name: 131 SUNNYSIDE BLVD

Lab Number: L2239129

Project Number: 30017762.00012

Report Date: 08/03/22

### Method Blank Analysis Batch Quality Control

Analytical Method: 48,TO-15

Analytical Date: 08/01/22 15:22

| Parameter                                                                        | ppbV    |       |     | ug/m3   |       |     | Qualifier | Dilution Factor |
|----------------------------------------------------------------------------------|---------|-------|-----|---------|-------|-----|-----------|-----------------|
|                                                                                  | Results | RL    | MDL | Results | RL    | MDL |           |                 |
| Volatile Organics in Air - Mansfield Lab for sample(s): 01-02 Batch: WG1669846-4 |         |       |     |         |       |     |           |                 |
| Dichlorodifluoromethane                                                          | ND      | 0.200 | --  | ND      | 0.989 | --  |           | 1               |
| Chloromethane                                                                    | ND      | 0.200 | --  | ND      | 0.413 | --  |           | 1               |
| Freon-114                                                                        | ND      | 0.200 | --  | ND      | 1.40  | --  |           | 1               |
| Vinyl chloride                                                                   | ND      | 0.200 | --  | ND      | 0.511 | --  |           | 1               |
| 1,3-Butadiene                                                                    | ND      | 0.200 | --  | ND      | 0.442 | --  |           | 1               |
| Bromomethane                                                                     | ND      | 0.200 | --  | ND      | 0.777 | --  |           | 1               |
| Chloroethane                                                                     | ND      | 0.200 | --  | ND      | 0.528 | --  |           | 1               |
| Ethanol                                                                          | ND      | 5.00  | --  | ND      | 9.42  | --  |           | 1               |
| Vinyl bromide                                                                    | ND      | 0.200 | --  | ND      | 0.874 | --  |           | 1               |
| Acetone                                                                          | ND      | 1.00  | --  | ND      | 2.38  | --  |           | 1               |
| Trichlorofluoromethane                                                           | ND      | 0.200 | --  | ND      | 1.12  | --  |           | 1               |
| Isopropanol                                                                      | ND      | 0.500 | --  | ND      | 1.23  | --  |           | 1               |
| 1,1-Dichloroethene                                                               | ND      | 0.200 | --  | ND      | 0.793 | --  |           | 1               |
| Tertiary butyl Alcohol                                                           | ND      | 0.500 | --  | ND      | 1.52  | --  |           | 1               |
| Methylene chloride                                                               | ND      | 0.500 | --  | ND      | 1.74  | --  |           | 1               |
| 3-Chloropropene                                                                  | ND      | 0.200 | --  | ND      | 0.626 | --  |           | 1               |
| Carbon disulfide                                                                 | ND      | 0.200 | --  | ND      | 0.623 | --  |           | 1               |
| Freon-113                                                                        | ND      | 0.200 | --  | ND      | 1.53  | --  |           | 1               |
| trans-1,2-Dichloroethene                                                         | ND      | 0.200 | --  | ND      | 0.793 | --  |           | 1               |
| 1,1-Dichloroethane                                                               | ND      | 0.200 | --  | ND      | 0.809 | --  |           | 1               |
| Methyl tert butyl ether                                                          | ND      | 0.200 | --  | ND      | 0.721 | --  |           | 1               |
| 2-Butanone                                                                       | ND      | 0.500 | --  | ND      | 1.47  | --  |           | 1               |
| cis-1,2-Dichloroethene                                                           | ND      | 0.200 | --  | ND      | 0.793 | --  |           | 1               |
| Ethyl Acetate                                                                    | ND      | 0.500 | --  | ND      | 1.80  | --  |           | 1               |
| Chloroform                                                                       | ND      | 0.200 | --  | ND      | 0.977 | --  |           | 1               |



Project Name: 131 SUNNYSIDE BLVD

Lab Number: L2239129

Project Number: 30017762.00012

Report Date: 08/03/22

### Method Blank Analysis Batch Quality Control

Analytical Method: 48,TO-15

Analytical Date: 08/01/22 15:22

| Parameter                                                                        | ppbV    |       |     | ug/m3   |       |     | Qualifier | Dilution Factor |
|----------------------------------------------------------------------------------|---------|-------|-----|---------|-------|-----|-----------|-----------------|
|                                                                                  | Results | RL    | MDL | Results | RL    | MDL |           |                 |
| Volatile Organics in Air - Mansfield Lab for sample(s): 01-02 Batch: WG1669846-4 |         |       |     |         |       |     |           |                 |
| Tetrahydrofuran                                                                  | ND      | 0.500 | --  | ND      | 1.47  | --  |           | 1               |
| 1,2-Dichloroethane                                                               | ND      | 0.200 | --  | ND      | 0.809 | --  |           | 1               |
| n-Hexane                                                                         | ND      | 0.200 | --  | ND      | 0.705 | --  |           | 1               |
| 1,1,1-Trichloroethane                                                            | ND      | 0.200 | --  | ND      | 1.09  | --  |           | 1               |
| Benzene                                                                          | ND      | 0.200 | --  | ND      | 0.639 | --  |           | 1               |
| Carbon tetrachloride                                                             | ND      | 0.200 | --  | ND      | 1.26  | --  |           | 1               |
| Cyclohexane                                                                      | ND      | 0.200 | --  | ND      | 0.688 | --  |           | 1               |
| 1,2-Dichloropropane                                                              | ND      | 0.200 | --  | ND      | 0.924 | --  |           | 1               |
| Bromodichloromethane                                                             | ND      | 0.200 | --  | ND      | 1.34  | --  |           | 1               |
| 1,4-Dioxane                                                                      | ND      | 0.200 | --  | ND      | 0.721 | --  |           | 1               |
| Trichloroethene                                                                  | ND      | 0.200 | --  | ND      | 1.07  | --  |           | 1               |
| 2,2,4-Trimethylpentane                                                           | ND      | 0.200 | --  | ND      | 0.934 | --  |           | 1               |
| Heptane                                                                          | ND      | 0.200 | --  | ND      | 0.820 | --  |           | 1               |
| cis-1,3-Dichloropropene                                                          | ND      | 0.200 | --  | ND      | 0.908 | --  |           | 1               |
| 4-Methyl-2-pentanone                                                             | ND      | 0.500 | --  | ND      | 2.05  | --  |           | 1               |
| trans-1,3-Dichloropropene                                                        | ND      | 0.200 | --  | ND      | 0.908 | --  |           | 1               |
| 1,1,2-Trichloroethane                                                            | ND      | 0.200 | --  | ND      | 1.09  | --  |           | 1               |
| Toluene                                                                          | ND      | 0.200 | --  | ND      | 0.754 | --  |           | 1               |
| 2-Hexanone                                                                       | ND      | 0.200 | --  | ND      | 0.820 | --  |           | 1               |
| Dibromochloromethane                                                             | ND      | 0.200 | --  | ND      | 1.70  | --  |           | 1               |
| 1,2-Dibromoethane                                                                | ND      | 0.200 | --  | ND      | 1.54  | --  |           | 1               |
| Tetrachloroethene                                                                | ND      | 0.200 | --  | ND      | 1.36  | --  |           | 1               |
| Chlorobenzene                                                                    | ND      | 0.200 | --  | ND      | 0.921 | --  |           | 1               |
| Ethylbenzene                                                                     | ND      | 0.200 | --  | ND      | 0.869 | --  |           | 1               |
| p/m-Xylene                                                                       | ND      | 0.400 | --  | ND      | 1.74  | --  |           | 1               |



Project Name: 131 SUNNYSIDE BLVD

Lab Number: L2239129

Project Number: 30017762.00012

Report Date: 08/03/22

### Method Blank Analysis Batch Quality Control

Analytical Method: 48,TO-15

Analytical Date: 08/01/22 15:22

| Parameter                                                                        | ppbV    |       |     | ug/m3   |       |     | Qualifier | Dilution Factor |
|----------------------------------------------------------------------------------|---------|-------|-----|---------|-------|-----|-----------|-----------------|
|                                                                                  | Results | RL    | MDL | Results | RL    | MDL |           |                 |
| Volatile Organics in Air - Mansfield Lab for sample(s): 01-02 Batch: WG1669846-4 |         |       |     |         |       |     |           |                 |
| Bromoform                                                                        | ND      | 0.200 | --  | ND      | 2.07  | --  |           | 1               |
| Styrene                                                                          | ND      | 0.200 | --  | ND      | 0.852 | --  |           | 1               |
| 1,1,2,2-Tetrachloroethane                                                        | ND      | 0.200 | --  | ND      | 1.37  | --  |           | 1               |
| o-Xylene                                                                         | ND      | 0.200 | --  | ND      | 0.869 | --  |           | 1               |
| 4-Ethyltoluene                                                                   | ND      | 0.200 | --  | ND      | 0.983 | --  |           | 1               |
| 1,3,5-Trimethylbenzene                                                           | ND      | 0.200 | --  | ND      | 0.983 | --  |           | 1               |
| 1,2,4-Trimethylbenzene                                                           | ND      | 0.200 | --  | ND      | 0.983 | --  |           | 1               |
| Benzyl chloride                                                                  | ND      | 0.200 | --  | ND      | 1.04  | --  |           | 1               |
| 1,3-Dichlorobenzene                                                              | ND      | 0.200 | --  | ND      | 1.20  | --  |           | 1               |
| 1,4-Dichlorobenzene                                                              | ND      | 0.200 | --  | ND      | 1.20  | --  |           | 1               |
| 1,2-Dichlorobenzene                                                              | ND      | 0.200 | --  | ND      | 1.20  | --  |           | 1               |
| 1,2,4-Trichlorobenzene                                                           | ND      | 0.200 | --  | ND      | 1.48  | --  |           | 1               |
| Hexachlorobutadiene                                                              | ND      | 0.200 | --  | ND      | 2.13  | --  |           | 1               |

## Lab Control Sample Analysis

### Batch Quality Control

**Project Name:** 131 SUNNYSIDE BLVD

**Project Number:** 30017762.00012

**Lab Number:** L2239129

**Report Date:** 08/03/22

| Parameter                                                                               | LCS<br>%Recovery | Qual | LCSD<br>%Recovery | Qual | %Recovery<br>Limits | RPD | Qual | RPD<br>Limits |
|-----------------------------------------------------------------------------------------|------------------|------|-------------------|------|---------------------|-----|------|---------------|
| Volatile Organics in Air - Mansfield Lab Associated sample(s): 01-02 Batch: WG1669846-3 |                  |      |                   |      |                     |     |      |               |
| Dichlorodifluoromethane                                                                 | 90               |      | -                 |      | 70-130              | -   |      |               |
| Chloromethane                                                                           | 94               |      | -                 |      | 70-130              | -   |      |               |
| Freon-114                                                                               | 93               |      | -                 |      | 70-130              | -   |      |               |
| Vinyl chloride                                                                          | 99               |      | -                 |      | 70-130              | -   |      |               |
| 1,3-Butadiene                                                                           | 96               |      | -                 |      | 70-130              | -   |      |               |
| Bromomethane                                                                            | 99               |      | -                 |      | 70-130              | -   |      |               |
| Chloroethane                                                                            | 100              |      | -                 |      | 70-130              | -   |      |               |
| Ethanol                                                                                 | 95               |      | -                 |      | 40-160              | -   |      |               |
| Vinyl bromide                                                                           | 80               |      | -                 |      | 70-130              | -   |      |               |
| Acetone                                                                                 | 90               |      | -                 |      | 40-160              | -   |      |               |
| Trichlorofluoromethane                                                                  | 72               |      | -                 |      | 70-130              | -   |      |               |
| Isopropanol                                                                             | 100              |      | -                 |      | 40-160              | -   |      |               |
| 1,1-Dichloroethene                                                                      | 97               |      | -                 |      | 70-130              | -   |      |               |
| Tertiary butyl Alcohol                                                                  | 96               |      | -                 |      | 70-130              | -   |      |               |
| Methylene chloride                                                                      | 100              |      | -                 |      | 70-130              | -   |      |               |
| 3-Chloropropene                                                                         | 105              |      | -                 |      | 70-130              | -   |      |               |
| Carbon disulfide                                                                        | 90               |      | -                 |      | 70-130              | -   |      |               |
| Freon-113                                                                               | 89               |      | -                 |      | 70-130              | -   |      |               |
| trans-1,2-Dichloroethene                                                                | 87               |      | -                 |      | 70-130              | -   |      |               |
| 1,1-Dichloroethane                                                                      | 94               |      | -                 |      | 70-130              | -   |      |               |
| Methyl tert butyl ether                                                                 | 84               |      | -                 |      | 70-130              | -   |      |               |
| 2-Butanone                                                                              | 96               |      | -                 |      | 70-130              | -   |      |               |
| cis-1,2-Dichloroethene                                                                  | 95               |      | -                 |      | 70-130              | -   |      |               |

## Lab Control Sample Analysis

### Batch Quality Control

**Project Name:** 131 SUNNYSIDE BLVD

**Project Number:** 30017762.00012

**Lab Number:** L2239129

**Report Date:** 08/03/22

| Parameter                                                                               | LCS<br>%Recovery | Qual | LCSD<br>%Recovery | Qual | %Recovery<br>Limits | RPD | Qual | RPD<br>Limits |
|-----------------------------------------------------------------------------------------|------------------|------|-------------------|------|---------------------|-----|------|---------------|
| Volatile Organics in Air - Mansfield Lab Associated sample(s): 01-02 Batch: WG1669846-3 |                  |      |                   |      |                     |     |      |               |
| Ethyl Acetate                                                                           | 108              |      | -                 |      | 70-130              | -   |      |               |
| Chloroform                                                                              | 94               |      | -                 |      | 70-130              | -   |      |               |
| Tetrahydrofuran                                                                         | 97               |      | -                 |      | 70-130              | -   |      |               |
| 1,2-Dichloroethane                                                                      | 85               |      | -                 |      | 70-130              | -   |      |               |
| n-Hexane                                                                                | 108              |      | -                 |      | 70-130              | -   |      |               |
| 1,1,1-Trichloroethane                                                                   | 106              |      | -                 |      | 70-130              | -   |      |               |
| Benzene                                                                                 | 108              |      | -                 |      | 70-130              | -   |      |               |
| Carbon tetrachloride                                                                    | 108              |      | -                 |      | 70-130              | -   |      |               |
| Cyclohexane                                                                             | 107              |      | -                 |      | 70-130              | -   |      |               |
| 1,2-Dichloropropane                                                                     | 111              |      | -                 |      | 70-130              | -   |      |               |
| Bromodichloromethane                                                                    | 108              |      | -                 |      | 70-130              | -   |      |               |
| 1,4-Dioxane                                                                             | 105              |      | -                 |      | 70-130              | -   |      |               |
| Trichloroethene                                                                         | 99               |      | -                 |      | 70-130              | -   |      |               |
| 2,2,4-Trimethylpentane                                                                  | 107              |      | -                 |      | 70-130              | -   |      |               |
| Heptane                                                                                 | 110              |      | -                 |      | 70-130              | -   |      |               |
| cis-1,3-Dichloropropene                                                                 | 116              |      | -                 |      | 70-130              | -   |      |               |
| 4-Methyl-2-pentanone                                                                    | 123              |      | -                 |      | 70-130              | -   |      |               |
| trans-1,3-Dichloropropene                                                               | 102              |      | -                 |      | 70-130              | -   |      |               |
| 1,1,2-Trichloroethane                                                                   | 108              |      | -                 |      | 70-130              | -   |      |               |
| Toluene                                                                                 | 89               |      | -                 |      | 70-130              | -   |      |               |
| 2-Hexanone                                                                              | 99               |      | -                 |      | 70-130              | -   |      |               |
| Dibromochloromethane                                                                    | 90               |      | -                 |      | 70-130              | -   |      |               |
| 1,2-Dibromoethane                                                                       | 92               |      | -                 |      | 70-130              | -   |      |               |

## Lab Control Sample Analysis

### Batch Quality Control

**Project Name:** 131 SUNNYSIDE BLVD

**Project Number:** 30017762.00012

**Lab Number:** L2239129

**Report Date:** 08/03/22

| Parameter                                                                               | LCS<br>%Recovery | Qual | LCSD<br>%Recovery | Qual | %Recovery<br>Limits | RPD | Qual | RPD<br>Limits |
|-----------------------------------------------------------------------------------------|------------------|------|-------------------|------|---------------------|-----|------|---------------|
| Volatile Organics in Air - Mansfield Lab Associated sample(s): 01-02 Batch: WG1669846-3 |                  |      |                   |      |                     |     |      |               |
| Tetrachloroethene                                                                       | 85               |      | -                 |      | 70-130              | -   |      |               |
| Chlorobenzene                                                                           | 93               |      | -                 |      | 70-130              | -   |      |               |
| Ethylbenzene                                                                            | 92               |      | -                 |      | 70-130              | -   |      |               |
| p/m-Xylene                                                                              | 94               |      | -                 |      | 70-130              | -   |      |               |
| Bromoform                                                                               | 91               |      | -                 |      | 70-130              | -   |      |               |
| Styrene                                                                                 | 85               |      | -                 |      | 70-130              | -   |      |               |
| 1,1,2,2-Tetrachloroethane                                                               | 106              |      | -                 |      | 70-130              | -   |      |               |
| o-Xylene                                                                                | 91               |      | -                 |      | 70-130              | -   |      |               |
| 4-Ethyltoluene                                                                          | 81               |      | -                 |      | 70-130              | -   |      |               |
| 1,3,5-Trimethylbenzene                                                                  | 88               |      | -                 |      | 70-130              | -   |      |               |
| 1,2,4-Trimethylbenzene                                                                  | 102              |      | -                 |      | 70-130              | -   |      |               |
| Benzyl chloride                                                                         | 78               |      | -                 |      | 70-130              | -   |      |               |
| 1,3-Dichlorobenzene                                                                     | 90               |      | -                 |      | 70-130              | -   |      |               |
| 1,4-Dichlorobenzene                                                                     | 86               |      | -                 |      | 70-130              | -   |      |               |
| 1,2-Dichlorobenzene                                                                     | 90               |      | -                 |      | 70-130              | -   |      |               |
| 1,2,4-Trichlorobenzene                                                                  | 92               |      | -                 |      | 70-130              | -   |      |               |
| Hexachlorobutadiene                                                                     | 90               |      | -                 |      | 70-130              | -   |      |               |

**Project Name:** 131 SUNNYSIDE BLVD**Lab Number:** L2239129**Project Number:** 30017762.00012**Report Date:** 08/03/22**Sample Receipt and Container Information**

Were project specific reporting limits specified?

YES

**Cooler Information**

|               |                     |
|---------------|---------------------|
| <b>Cooler</b> | <b>Custody Seal</b> |
| NA            | Absent              |

**Container Information**

| <b>Container ID</b> | <b>Container Type</b>                    | <b>Cooler</b> | <b>Initial<br/>pH</b> | <b>Final<br/>pH</b> | <b>Temp<br/>deg C</b> | <b>Pres</b> | <b>Seal</b> | <b>Frozen<br/>Date/Time</b> | <b>Analysis(*)</b> |
|---------------------|------------------------------------------|---------------|-----------------------|---------------------|-----------------------|-------------|-------------|-----------------------------|--------------------|
| L2239129-01A        | Tedlar Bag 5 liter-Polypropylene Fitting | NA            | NA                    |                     |                       | Y           | Absent      |                             | TO15-LL(30)        |
| L2239129-01B        | Tedlar Bag 5 liter-Polypropylene Fitting | NA            | NA                    |                     |                       | Y           | Absent      |                             | TO15-LL(30)        |
| L2239129-01X        | Tedlar Bag 5 liter-Polypropylene Fitting | NA            | NA                    |                     |                       | Y           | Absent      |                             | TO15-LL(30)        |
| L2239129-02A        | Tedlar Bag 5 liter-Polypropylene Fitting | NA            | NA                    |                     |                       | Y           | Absent      |                             | TO15-LL(30)        |
| L2239129-02B        | Tedlar Bag 5 liter-Polypropylene Fitting | NA            | NA                    |                     |                       | Y           | Absent      |                             | TO15-LL(30)        |
| L2239129-02X        | Tedlar Bag 5 liter-Polypropylene Fitting | NA            | NA                    |                     |                       | Y           | Absent      |                             | TO15-LL(30)        |

**Project Name:** 131 SUNNYSIDE BLVD**Lab Number:** L2239129**Project Number:** 30017762.00012**Report Date:** 08/03/22

## GLOSSARY

### Acronyms

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

*Report Format: Data Usability Report*

**Project Name:** 131 SUNNYSIDE BLVD  
**Project Number:** 30017762.00012

**Lab Number:** L2239129  
**Report Date:** 08/03/22

### Footnotes

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

### Terms

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

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

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

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

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

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

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

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

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

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

### Data Qualifiers

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

**Report Format:** Data Usability Report



**Project Name:** 131 SUNNYSIDE BLVD**Lab Number:** L2239129**Project Number:** 30017762.00012**Report Date:** 08/03/22**Data Qualifiers**

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

**Project Name:** 131 SUNNYSIDE BLVD  
**Project Number:** 30017762.00012

**Lab Number:** L2239129  
**Report Date:** 08/03/22

## REFERENCES

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

## LIMITATION OF LIABILITIES

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

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



## Certification Information

The following analytes are not included in our Primary NELAP Scope of Accreditation:

### Westborough Facility

**EPA 624/624.1:** m/p-xylene, o-xylene, Naphthalene

**EPA 625/625.1:** alpha-Terpineol

**EPA 8260C/8260D:** NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene, Azobenzene; SCM: Iodomethane (methyl iodide), 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.

**EPA 8270D/8270E:** NPW: Dimethylnaphthalene, 1,4-Diphenylhydrazine, alpha-Terpineol; SCM: Dimethylnaphthalene, 1,4-Diphenylhydrazine.

**SM4500:** NPW: Amenable Cyanide; SCM: Total Phosphorus, TKN, NO<sub>2</sub>, NO<sub>3</sub>.

### Mansfield Facility

**SM 2540D:** TSS

**EPA 8082A:** NPW: PCB: 1, 5, 31, 87, 101, 110, 141, 151, 153, 180, 183, 187.

**EPA TO-15:** Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene,

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

**Biological Tissue Matrix:** EPA 3050B

The following analytes are included in our Massachusetts DEP Scope of Accreditation

### Westborough Facility:

#### Drinking Water

**EPA 300.0:** Chloride, Nitrate-N, Fluoride, Sulfate; **EPA 353.2:** Nitrate-N, Nitrite-N; **SM4500NO3-F:** Nitrate-N, Nitrite-N; **SM4500F-C, SM4500CN-CE,**

**EPA 180.1, SM2130B, SM4500CI-D, SM2320B, SM2540C, SM4500H-B, SM4500NO2-B**

**EPA 332:** Perchlorate; **EPA 524.2:** THMs and VOCs; **EPA 504.1:** EDB, DBCP.

**Microbiology:** **SM9215B; SM9223-P/A, SM9223B-Colilert-QT, SM9222D.**

#### Non-Potable Water

**SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2320B, SM4500CL-E, SM4500F-BC, SM4500NH3-BH:** Ammonia-N and Kjeldahl-N, **EPA 350.1:** Ammonia-N, **LACHAT 10-107-06-1-B:** Ammonia-N, **EPA 351.1, SM4500NO3-F, EPA 353.2:** Nitrate-N, **SM4500P-E, SM4500P-B, E, SM4500SO4-E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, EPA 420.1, SM4500-CN-CE, SM2540D, EPA 300:** Chloride, Sulfate, Nitrate.

**EPA 624.1:** Volatile Halocarbons & Aromatics,

**EPA 608.3:** Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs

**EPA 625.1:** SVOC (Acid/Base/Neutral Extractables), **EPA 600/4-81-045:** PCB-Oil.

**Microbiology:** **SM9223B-Colilert-QT; Enterolert-QT, SM9221E, EPA 1600, EPA 1603, SM9222D.**

### Mansfield Facility:

#### Drinking Water

**EPA 200.7:** Al, Ba, Cd, Cr, Cu, Fe, Mn, Ni, Na, Ag, Ca, Zn. **EPA 200.8:** Al, Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn. **EPA 245.1 Hg.**

**EPA 522, EPA 537.1.**

#### Non-Potable Water

**EPA 200.7:** Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, TL, Ti, V, Zn.

**EPA 200.8:** Al, Sb, As, Be, Cd, Cr, Cu, Fe, Pb, Mn, Ni, K, Se, Ag, Na, TL, Zn.

**EPA 245.1 Hg.**

**SM2340B**

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



## AIR ANALYSIS

PAGE OF

### CHAIN OF CUSTODY

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

## Client Information

Client: Arcadis  
Address: 2 Huntington Quadrangle  
Suite 1510  
Phone: 631-356-8791

Fax: \_\_\_\_\_

Email: sal.telesco e arcadis.com

☐ These samples have been previously analyzed by Alpha

Other Project Specific Requirements/Comments:

Project-Specific Target Compound List: ☐

## Project Information

Project Name: 131 Sunnyside Blvd

Project Location: Pizzinview NY

Project #: 30017762.00012

Project Manager: Steve Feldman

ALPHA Quote #:

### Turn-Around Time

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

Date Due:

Time:

Date Rec'd in Lab: 7/29/22

## Report Information - Data Deliverables

☐ FAX  
☐ ADE<sub>x</sub>

Criteria Checker:

(Default based on Regulatory Criteria Indicated)

**Other Formats:**

☒ EMAIL (standard pdf report)

☐ Additional Deliverables:

Report to: (if different than Project Manager)

ALPHA Job #: L223912.9

### Billing Information

|                                              |                     |
|----------------------------------------------|---------------------|
| <input type="checkbox"/> Same as Client info | PO #: 30017762.0012 |
|----------------------------------------------|---------------------|

Arcadia - Accounts Payable  
Highland Ranch Co

## Regulatory Requirements/Report Limits

| State/Fed | Program | Res / Comm |
|-----------|---------|------------|
|-----------|---------|------------|

## ANALYSIS

**All Columns Below Must Be Filled Out**

[illegible]

\*SAMPLE MATRIX CODES

AA = Ambient Air (Indoor/Outdoor)  
SV = Soil Vapor/Landfill Gas/SVE  
Other = Please Specify

Container Type

~~Relinquished By:~~

Date/Time

Received By 

Date/Time:

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



## ANALYTICAL REPORT

|                 |                                                                                            |
|-----------------|--------------------------------------------------------------------------------------------|
| Lab Number:     | L2240234                                                                                   |
| Client:         | Arcadis of New York, Inc.<br>Two Huntington Quadrangle<br>Suite 1S10<br>Melville, NY 11747 |
| ATTN:           | Steven Feldman                                                                             |
| Phone:          | (631) 249-7600                                                                             |
| Project Name:   | 131 SUNNYSIDE BLVD.                                                                        |
| Project Number: | 30017762.00012                                                                             |
| Report Date:    | 08/09/22                                                                                   |

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

Certifications & Approvals: MA (M-MA030), NH NELAP (2062), CT (PH-0141), DoD (L2474), FL (E87814), IL (200081), LA (85084), ME (MA00030), MD (350), NJ (MA015), NY (11627), NC (685), OH (CL106), PA (68-02089), RI (LAO00299), TX (T104704419), VT (VT-0015), VA (460194), WA (C954), US Army Corps of Engineers, USDA (Permit #P330-17-00150), USFWS (Permit #206964).

---

320 Forbes Boulevard, Mansfield, MA 02048-1806  
508-822-9300 (Fax) 508-822-3288 800-624-9220 - [www.alphalab.com](http://www.alphalab.com)



**Project Name:** 131 SUNNYSIDE BLVD.  
**Project Number:** 30017762.00012

**Lab Number:** L2240234  
**Report Date:** 08/09/22

| <b>Alpha<br/>Sample ID</b> | <b>Client ID</b> | <b>Matrix</b> | <b>Sample<br/>Location</b> | <b>Collection<br/>Date/Time</b> | <b>Receive Date</b> |
|----------------------------|------------------|---------------|----------------------------|---------------------------------|---------------------|
| L2240234-01                | SVE-1            | SOIL_VAPOR    | PLAINVIEW, NY              | 07/26/22 15:05                  | 07/27/22            |

**Project Name:** 131 SUNNYSIDE BLVD.  
**Project Number:** 30017762.00012

**Lab Number:** L2240234  
**Report Date:** 08/09/22

### Case Narrative

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

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

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

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

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

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

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**Project Name:** 131 SUNNYSIDE BLVD.  
**Project Number:** 30017762.00012

**Lab Number:** L2240234  
**Report Date:** 08/09/22

**Case Narrative (continued)**

Volatile Organics in Air

L2240234-01D: The sample has elevated detection limits due to the dilution required by the elevated concentrations of target compounds in the sample.

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

Authorized Signature:  Christopher J. Anderson

Title: Technical Director/Representative

Date: 08/09/22

**AIR**

**Project Name:** 131 SUNNYSIDE BLVD.**Project Number:** 30017762.00012**Lab Number:** L2240234**Report Date:** 08/09/22**SAMPLE RESULTS**

Lab ID: L2240234-01 D

Client ID: SVE-1

Sample Location: PLAINVIEW, NY

Date Collected: 07/26/22 15:05

Date Received: 07/27/22

Field Prep: Not Specified

Sample Depth:

Matrix: Soil\_Vapor

Analytical Method: 48,TO-15

Analytical Date: 08/09/22 03:14

Analyst: TS

| Parameter                                | ppbV    |      |     | ug/m3   |      |     | Qualifier | Dilution Factor |
|------------------------------------------|---------|------|-----|---------|------|-----|-----------|-----------------|
|                                          | Results | RL   | MDL | Results | RL   | MDL |           |                 |
| Volatile Organics in Air - Mansfield Lab |         |      |     |         |      |     |           |                 |
| Dichlorodifluoromethane                  | ND      | 8.10 | --  | ND      | 40.1 | --  |           | 40.52           |
| Chloromethane                            | ND      | 8.10 | --  | ND      | 16.7 | --  |           | 40.52           |
| Freon-114                                | ND      | 8.10 | --  | ND      | 56.6 | --  |           | 40.52           |
| Vinyl chloride                           | ND      | 8.10 | --  | ND      | 20.7 | --  |           | 40.52           |
| 1,3-Butadiene                            | ND      | 8.10 | --  | ND      | 17.9 | --  |           | 40.52           |
| Bromomethane                             | ND      | 8.10 | --  | ND      | 31.5 | --  |           | 40.52           |
| Chloroethane                             | ND      | 8.10 | --  | ND      | 21.4 | --  |           | 40.52           |
| Ethanol                                  | ND      | 203. | --  | ND      | 383  | --  |           | 40.52           |
| Vinyl bromide                            | ND      | 8.10 | --  | ND      | 35.4 | --  |           | 40.52           |
| Acetone                                  | ND      | 40.5 | --  | ND      | 96.2 | --  |           | 40.52           |
| Trichlorofluoromethane                   | ND      | 8.10 | --  | ND      | 45.5 | --  |           | 40.52           |
| Isopropanol                              | ND      | 20.3 | --  | ND      | 49.9 | --  |           | 40.52           |
| 1,1-Dichloroethene                       | ND      | 8.10 | --  | ND      | 32.1 | --  |           | 40.52           |
| Tertiary butyl Alcohol                   | ND      | 20.3 | --  | ND      | 61.5 | --  |           | 40.52           |
| Methylene chloride                       | ND      | 20.3 | --  | ND      | 70.5 | --  |           | 40.52           |
| 3-Chloropropene                          | ND      | 8.10 | --  | ND      | 25.4 | --  |           | 40.52           |
| Carbon disulfide                         | ND      | 8.10 | --  | ND      | 25.2 | --  |           | 40.52           |
| Freon-113                                | ND      | 8.10 | --  | ND      | 62.1 | --  |           | 40.52           |
| trans-1,2-Dichloroethene                 | ND      | 8.10 | --  | ND      | 32.1 | --  |           | 40.52           |
| 1,1-Dichloroethane                       | ND      | 8.10 | --  | ND      | 32.8 | --  |           | 40.52           |
| Methyl tert butyl ether                  | ND      | 8.10 | --  | ND      | 29.2 | --  |           | 40.52           |
| 2-Butanone                               | ND      | 20.3 | --  | ND      | 59.9 | --  |           | 40.52           |
| cis-1,2-Dichloroethene                   | 27.7    | 8.10 | --  | 110     | 32.1 | --  |           | 40.52           |



**Project Name:** 131 SUNNYSIDE BLVD.**Lab Number:** L2240234**Project Number:** 30017762.00012**Report Date:** 08/09/22**SAMPLE RESULTS**

Lab ID: L2240234-01 D

Client ID: SVE-1

Sample Location: PLAINVIEW, NY

Date Collected: 07/26/22 15:05

Date Received: 07/27/22

Field Prep: Not Specified

Sample Depth:

| Parameter                                | ppbV    |      |     | ug/m3   |      |     | Qualifier | Dilution Factor |
|------------------------------------------|---------|------|-----|---------|------|-----|-----------|-----------------|
|                                          | Results | RL   | MDL | Results | RL   | MDL |           |                 |
| Volatile Organics in Air - Mansfield Lab |         |      |     |         |      |     |           |                 |
| Ethyl Acetate                            | ND      | 20.3 | --  | ND      | 73.2 | --  |           | 40.52           |
| Chloroform                               | ND      | 8.10 | --  | ND      | 39.6 | --  |           | 40.52           |
| Tetrahydrofuran                          | ND      | 20.3 | --  | ND      | 59.9 | --  |           | 40.52           |
| 1,2-Dichloroethane                       | ND      | 8.10 | --  | ND      | 32.8 | --  |           | 40.52           |
| n-Hexane                                 | ND      | 8.10 | --  | ND      | 28.5 | --  |           | 40.52           |
| 1,1,1-Trichloroethane                    | ND      | 8.10 | --  | ND      | 44.2 | --  |           | 40.52           |
| Benzene                                  | ND      | 8.10 | --  | ND      | 25.9 | --  |           | 40.52           |
| Carbon tetrachloride                     | ND      | 8.10 | --  | ND      | 51.0 | --  |           | 40.52           |
| Cyclohexane                              | ND      | 8.10 | --  | ND      | 27.9 | --  |           | 40.52           |
| 1,2-Dichloropropane                      | ND      | 8.10 | --  | ND      | 37.4 | --  |           | 40.52           |
| Bromodichloromethane                     | ND      | 8.10 | --  | ND      | 54.3 | --  |           | 40.52           |
| 1,4-Dioxane                              | ND      | 8.10 | --  | ND      | 29.2 | --  |           | 40.52           |
| Trichloroethene                          | 3030    | 8.10 | --  | 16300   | 43.5 | --  |           | 40.52           |
| 2,2,4-Trimethylpentane                   | ND      | 8.10 | --  | ND      | 37.8 | --  |           | 40.52           |
| Heptane                                  | ND      | 8.10 | --  | ND      | 33.2 | --  |           | 40.52           |
| cis-1,3-Dichloropropene                  | ND      | 8.10 | --  | ND      | 36.8 | --  |           | 40.52           |
| 4-Methyl-2-pentanone                     | ND      | 20.3 | --  | ND      | 83.2 | --  |           | 40.52           |
| trans-1,3-Dichloropropene                | ND      | 8.10 | --  | ND      | 36.8 | --  |           | 40.52           |
| 1,1,2-Trichloroethane                    | ND      | 8.10 | --  | ND      | 44.2 | --  |           | 40.52           |
| Toluene                                  | ND      | 8.10 | --  | ND      | 30.5 | --  |           | 40.52           |
| 2-Hexanone                               | ND      | 8.10 | --  | ND      | 33.2 | --  |           | 40.52           |
| Dibromochloromethane                     | ND      | 8.10 | --  | ND      | 69.0 | --  |           | 40.52           |
| 1,2-Dibromoethane                        | ND      | 8.10 | --  | ND      | 62.2 | --  |           | 40.52           |
| Tetrachloroethene                        | 26.6    | 8.10 | --  | 180     | 54.9 | --  |           | 40.52           |
| Chlorobenzene                            | ND      | 8.10 | --  | ND      | 37.3 | --  |           | 40.52           |
| Ethylbenzene                             | ND      | 8.10 | --  | ND      | 35.2 | --  |           | 40.52           |



**Project Name:** 131 SUNNYSIDE BLVD.**Lab Number:** L2240234**Project Number:** 30017762.00012**Report Date:** 08/09/22**SAMPLE RESULTS**

Lab ID: L2240234-01 D

Client ID: SVE-1

Sample Location: PLAINVIEW, NY

Date Collected: 07/26/22 15:05

Date Received: 07/27/22

Field Prep: Not Specified

Sample Depth:

| Parameter                                | ppbV    |      |     | ug/m3   |      |     | Qualifier | Dilution Factor |
|------------------------------------------|---------|------|-----|---------|------|-----|-----------|-----------------|
|                                          | Results | RL   | MDL | Results | RL   | MDL |           |                 |
| Volatile Organics in Air - Mansfield Lab |         |      |     |         |      |     |           |                 |
| p/m-Xylene                               | ND      | 16.2 | --  | ND      | 70.4 | --  |           | 40.52           |
| Bromoform                                | ND      | 8.10 | --  | ND      | 83.7 | --  |           | 40.52           |
| Styrene                                  | ND      | 8.10 | --  | ND      | 34.5 | --  |           | 40.52           |
| 1,1,2,2-Tetrachloroethane                | ND      | 8.10 | --  | ND      | 55.6 | --  |           | 40.52           |
| o-Xylene                                 | ND      | 8.10 | --  | ND      | 35.2 | --  |           | 40.52           |
| 4-Ethyltoluene                           | ND      | 8.10 | --  | ND      | 39.8 | --  |           | 40.52           |
| 1,3,5-Trimethylbenzene                   | ND      | 8.10 | --  | ND      | 39.8 | --  |           | 40.52           |
| 1,2,4-Trimethylbenzene                   | ND      | 8.10 | --  | ND      | 39.8 | --  |           | 40.52           |
| Benzyl chloride                          | ND      | 8.10 | --  | ND      | 41.9 | --  |           | 40.52           |
| 1,3-Dichlorobenzene                      | ND      | 8.10 | --  | ND      | 48.7 | --  |           | 40.52           |
| 1,4-Dichlorobenzene                      | ND      | 8.10 | --  | ND      | 48.7 | --  |           | 40.52           |
| 1,2-Dichlorobenzene                      | ND      | 8.10 | --  | ND      | 48.7 | --  |           | 40.52           |
| 1,2,4-Trichlorobenzene                   | ND      | 8.10 | --  | ND      | 60.1 | --  |           | 40.52           |
| Hexachlorobutadiene                      | ND      | 8.10 | --  | ND      | 86.4 | --  |           | 40.52           |

| Internal Standard   | % Recovery | Qualifier | Acceptance Criteria |
|---------------------|------------|-----------|---------------------|
| 1,4-Difluorobenzene | 97         |           | 60-140              |
| Bromochloromethane  | 97         |           | 60-140              |
| chlorobenzene-d5    | 96         |           | 60-140              |



**Project Name:** 131 SUNNYSIDE BLVD.**Lab Number:** L2240234**Project Number:** 30017762.00012**Report Date:** 08/09/22

### Method Blank Analysis Batch Quality Control

Analytical Method: 48,TO-15

Analytical Date: 08/08/22 15:26

| Parameter                                                                     | ppbV    |       |     | ug/m3   |       |     | Qualifier | Dilution Factor |
|-------------------------------------------------------------------------------|---------|-------|-----|---------|-------|-----|-----------|-----------------|
|                                                                               | Results | RL    | MDL | Results | RL    | MDL |           |                 |
| Volatile Organics in Air - Mansfield Lab for sample(s): 01 Batch: WG1672572-4 |         |       |     |         |       |     |           |                 |
| Dichlorodifluoromethane                                                       | ND      | 0.200 | --  | ND      | 0.989 | --  |           | 1               |
| Chloromethane                                                                 | ND      | 0.200 | --  | ND      | 0.413 | --  |           | 1               |
| Freon-114                                                                     | ND      | 0.200 | --  | ND      | 1.40  | --  |           | 1               |
| Vinyl chloride                                                                | ND      | 0.200 | --  | ND      | 0.511 | --  |           | 1               |
| 1,3-Butadiene                                                                 | ND      | 0.200 | --  | ND      | 0.442 | --  |           | 1               |
| Bromomethane                                                                  | ND      | 0.200 | --  | ND      | 0.777 | --  |           | 1               |
| Chloroethane                                                                  | ND      | 0.200 | --  | ND      | 0.528 | --  |           | 1               |
| Ethanol                                                                       | ND      | 5.00  | --  | ND      | 9.42  | --  |           | 1               |
| Vinyl bromide                                                                 | ND      | 0.200 | --  | ND      | 0.874 | --  |           | 1               |
| Acetone                                                                       | ND      | 1.00  | --  | ND      | 2.38  | --  |           | 1               |
| Trichlorofluoromethane                                                        | ND      | 0.200 | --  | ND      | 1.12  | --  |           | 1               |
| Isopropanol                                                                   | ND      | 0.500 | --  | ND      | 1.23  | --  |           | 1               |
| 1,1-Dichloroethene                                                            | ND      | 0.200 | --  | ND      | 0.793 | --  |           | 1               |
| Tertiary butyl Alcohol                                                        | ND      | 0.500 | --  | ND      | 1.52  | --  |           | 1               |
| Methylene chloride                                                            | ND      | 0.500 | --  | ND      | 1.74  | --  |           | 1               |
| 3-Chloropropene                                                               | ND      | 0.200 | --  | ND      | 0.626 | --  |           | 1               |
| Carbon disulfide                                                              | ND      | 0.200 | --  | ND      | 0.623 | --  |           | 1               |
| Freon-113                                                                     | ND      | 0.200 | --  | ND      | 1.53  | --  |           | 1               |
| trans-1,2-Dichloroethene                                                      | ND      | 0.200 | --  | ND      | 0.793 | --  |           | 1               |
| 1,1-Dichloroethane                                                            | ND      | 0.200 | --  | ND      | 0.809 | --  |           | 1               |
| Methyl tert butyl ether                                                       | ND      | 0.200 | --  | ND      | 0.721 | --  |           | 1               |
| 2-Butanone                                                                    | ND      | 0.500 | --  | ND      | 1.47  | --  |           | 1               |
| cis-1,2-Dichloroethene                                                        | ND      | 0.200 | --  | ND      | 0.793 | --  |           | 1               |
| Ethyl Acetate                                                                 | ND      | 0.500 | --  | ND      | 1.80  | --  |           | 1               |
| Chloroform                                                                    | ND      | 0.200 | --  | ND      | 0.977 | --  |           | 1               |



Project Name: 131 SUNNYSIDE BLVD.

Lab Number: L2240234

Project Number: 30017762.00012

Report Date: 08/09/22

### Method Blank Analysis Batch Quality Control

Analytical Method: 48,TO-15

Analytical Date: 08/08/22 15:26

| Parameter                                                                     | ppbV    |       |     | ug/m3   |       |     | Qualifier | Dilution Factor |
|-------------------------------------------------------------------------------|---------|-------|-----|---------|-------|-----|-----------|-----------------|
|                                                                               | Results | RL    | MDL | Results | RL    | MDL |           |                 |
| Volatile Organics in Air - Mansfield Lab for sample(s): 01 Batch: WG1672572-4 |         |       |     |         |       |     |           |                 |
| Tetrahydrofuran                                                               | ND      | 0.500 | --  | ND      | 1.47  | --  |           | 1               |
| 1,2-Dichloroethane                                                            | ND      | 0.200 | --  | ND      | 0.809 | --  |           | 1               |
| n-Hexane                                                                      | ND      | 0.200 | --  | ND      | 0.705 | --  |           | 1               |
| 1,1,1-Trichloroethane                                                         | ND      | 0.200 | --  | ND      | 1.09  | --  |           | 1               |
| Benzene                                                                       | ND      | 0.200 | --  | ND      | 0.639 | --  |           | 1               |
| Carbon tetrachloride                                                          | ND      | 0.200 | --  | ND      | 1.26  | --  |           | 1               |
| Cyclohexane                                                                   | ND      | 0.200 | --  | ND      | 0.688 | --  |           | 1               |
| 1,2-Dichloropropane                                                           | ND      | 0.200 | --  | ND      | 0.924 | --  |           | 1               |
| Bromodichloromethane                                                          | ND      | 0.200 | --  | ND      | 1.34  | --  |           | 1               |
| 1,4-Dioxane                                                                   | ND      | 0.200 | --  | ND      | 0.721 | --  |           | 1               |
| Trichloroethene                                                               | ND      | 0.200 | --  | ND      | 1.07  | --  |           | 1               |
| 2,2,4-Trimethylpentane                                                        | ND      | 0.200 | --  | ND      | 0.934 | --  |           | 1               |
| Heptane                                                                       | ND      | 0.200 | --  | ND      | 0.820 | --  |           | 1               |
| cis-1,3-Dichloropropene                                                       | ND      | 0.200 | --  | ND      | 0.908 | --  |           | 1               |
| 4-Methyl-2-pentanone                                                          | ND      | 0.500 | --  | ND      | 2.05  | --  |           | 1               |
| trans-1,3-Dichloropropene                                                     | ND      | 0.200 | --  | ND      | 0.908 | --  |           | 1               |
| 1,1,2-Trichloroethane                                                         | ND      | 0.200 | --  | ND      | 1.09  | --  |           | 1               |
| Toluene                                                                       | ND      | 0.200 | --  | ND      | 0.754 | --  |           | 1               |
| 2-Hexanone                                                                    | ND      | 0.200 | --  | ND      | 0.820 | --  |           | 1               |
| Dibromochloromethane                                                          | ND      | 0.200 | --  | ND      | 1.70  | --  |           | 1               |
| 1,2-Dibromoethane                                                             | ND      | 0.200 | --  | ND      | 1.54  | --  |           | 1               |
| Tetrachloroethene                                                             | ND      | 0.200 | --  | ND      | 1.36  | --  |           | 1               |
| Chlorobenzene                                                                 | ND      | 0.200 | --  | ND      | 0.921 | --  |           | 1               |
| Ethylbenzene                                                                  | ND      | 0.200 | --  | ND      | 0.869 | --  |           | 1               |
| p/m-Xylene                                                                    | ND      | 0.400 | --  | ND      | 1.74  | --  |           | 1               |



**Project Name:** 131 SUNNYSIDE BLVD.**Lab Number:** L2240234**Project Number:** 30017762.00012**Report Date:** 08/09/22

### Method Blank Analysis Batch Quality Control

Analytical Method: 48,TO-15

Analytical Date: 08/08/22 15:26

| Parameter                                                                     | ppbV    |       |     | ug/m3   |       |     | Qualifier | Dilution Factor |
|-------------------------------------------------------------------------------|---------|-------|-----|---------|-------|-----|-----------|-----------------|
|                                                                               | Results | RL    | MDL | Results | RL    | MDL |           |                 |
| Volatile Organics in Air - Mansfield Lab for sample(s): 01 Batch: WG1672572-4 |         |       |     |         |       |     |           |                 |
| Bromoform                                                                     | ND      | 0.200 | --  | ND      | 2.07  | --  |           | 1               |
| Styrene                                                                       | ND      | 0.200 | --  | ND      | 0.852 | --  |           | 1               |
| 1,1,2,2-Tetrachloroethane                                                     | ND      | 0.200 | --  | ND      | 1.37  | --  |           | 1               |
| o-Xylene                                                                      | ND      | 0.200 | --  | ND      | 0.869 | --  |           | 1               |
| 4-Ethyltoluene                                                                | ND      | 0.200 | --  | ND      | 0.983 | --  |           | 1               |
| 1,3,5-Trimethylbenzene                                                        | ND      | 0.200 | --  | ND      | 0.983 | --  |           | 1               |
| 1,2,4-Trimethylbenzene                                                        | ND      | 0.200 | --  | ND      | 0.983 | --  |           | 1               |
| Benzyl chloride                                                               | ND      | 0.200 | --  | ND      | 1.04  | --  |           | 1               |
| 1,3-Dichlorobenzene                                                           | ND      | 0.200 | --  | ND      | 1.20  | --  |           | 1               |
| 1,4-Dichlorobenzene                                                           | ND      | 0.200 | --  | ND      | 1.20  | --  |           | 1               |
| 1,2-Dichlorobenzene                                                           | ND      | 0.200 | --  | ND      | 1.20  | --  |           | 1               |
| 1,2,4-Trichlorobenzene                                                        | ND      | 0.200 | --  | ND      | 1.48  | --  |           | 1               |
| Hexachlorobutadiene                                                           | ND      | 0.200 | --  | ND      | 2.13  | --  |           | 1               |

## Lab Control Sample Analysis

### Batch Quality Control

**Project Name:** 131 SUNNYSIDE BLVD.

**Project Number:** 30017762.00012

**Lab Number:** L2240234

**Report Date:** 08/09/22

| Parameter                                                                            | LCS<br>%Recovery | Qual | LCSD<br>%Recovery | Qual | %Recovery<br>Limits | RPD | Qual | RPD<br>Limits |
|--------------------------------------------------------------------------------------|------------------|------|-------------------|------|---------------------|-----|------|---------------|
| Volatile Organics in Air - Mansfield Lab Associated sample(s): 01 Batch: WG1672572-3 |                  |      |                   |      |                     |     |      |               |
| Dichlorodifluoromethane                                                              | 83               |      | -                 |      | 70-130              | -   |      |               |
| Chloromethane                                                                        | 86               |      | -                 |      | 70-130              | -   |      |               |
| Freon-114                                                                            | 91               |      | -                 |      | 70-130              | -   |      |               |
| Vinyl chloride                                                                       | 99               |      | -                 |      | 70-130              | -   |      |               |
| 1,3-Butadiene                                                                        | 86               |      | -                 |      | 70-130              | -   |      |               |
| Bromomethane                                                                         | 99               |      | -                 |      | 70-130              | -   |      |               |
| Chloroethane                                                                         | 91               |      | -                 |      | 70-130              | -   |      |               |
| Ethanol                                                                              | 79               |      | -                 |      | 40-160              | -   |      |               |
| Vinyl bromide                                                                        | 81               |      | -                 |      | 70-130              | -   |      |               |
| Acetone                                                                              | 94               |      | -                 |      | 40-160              | -   |      |               |
| Trichlorofluoromethane                                                               | 80               |      | -                 |      | 70-130              | -   |      |               |
| Isopropanol                                                                          | 80               |      | -                 |      | 40-160              | -   |      |               |
| 1,1-Dichloroethene                                                                   | 90               |      | -                 |      | 70-130              | -   |      |               |
| Tertiary butyl Alcohol                                                               | 82               |      | -                 |      | 70-130              | -   |      |               |
| Methylene chloride                                                                   | 99               |      | -                 |      | 70-130              | -   |      |               |
| 3-Chloropropene                                                                      | 96               |      | -                 |      | 70-130              | -   |      |               |
| Carbon disulfide                                                                     | 80               |      | -                 |      | 70-130              | -   |      |               |
| Freon-113                                                                            | 92               |      | -                 |      | 70-130              | -   |      |               |
| trans-1,2-Dichloroethene                                                             | 84               |      | -                 |      | 70-130              | -   |      |               |
| 1,1-Dichloroethane                                                                   | 90               |      | -                 |      | 70-130              | -   |      |               |
| Methyl tert butyl ether                                                              | 71               |      | -                 |      | 70-130              | -   |      |               |
| 2-Butanone                                                                           | 86               |      | -                 |      | 70-130              | -   |      |               |
| cis-1,2-Dichloroethene                                                               | 93               |      | -                 |      | 70-130              | -   |      |               |

## Lab Control Sample Analysis

### Batch Quality Control

**Project Name:** 131 SUNNYSIDE BLVD.

**Project Number:** 30017762.00012

**Lab Number:** L2240234

**Report Date:** 08/09/22

| Parameter                                                                            | LCS<br>%Recovery | Qual | LCSD<br>%Recovery | Qual | %Recovery<br>Limits | RPD | Qual | RPD<br>Limits |
|--------------------------------------------------------------------------------------|------------------|------|-------------------|------|---------------------|-----|------|---------------|
| Volatile Organics in Air - Mansfield Lab Associated sample(s): 01 Batch: WG1672572-3 |                  |      |                   |      |                     |     |      |               |
| Ethyl Acetate                                                                        | 94               |      | -                 |      | 70-130              | -   |      |               |
| Chloroform                                                                           | 90               |      | -                 |      | 70-130              | -   |      |               |
| Tetrahydrofuran                                                                      | 78               |      | -                 |      | 70-130              | -   |      |               |
| 1,2-Dichloroethane                                                                   | 79               |      | -                 |      | 70-130              | -   |      |               |
| n-Hexane                                                                             | 86               |      | -                 |      | 70-130              | -   |      |               |
| 1,1,1-Trichloroethane                                                                | 84               |      | -                 |      | 70-130              | -   |      |               |
| Benzene                                                                              | 84               |      | -                 |      | 70-130              | -   |      |               |
| Carbon tetrachloride                                                                 | 90               |      | -                 |      | 70-130              | -   |      |               |
| Cyclohexane                                                                          | 86               |      | -                 |      | 70-130              | -   |      |               |
| 1,2-Dichloropropane                                                                  | 95               |      | -                 |      | 70-130              | -   |      |               |
| Bromodichloromethane                                                                 | 86               |      | -                 |      | 70-130              | -   |      |               |
| 1,4-Dioxane                                                                          | 88               |      | -                 |      | 70-130              | -   |      |               |
| Trichloroethene                                                                      | 94               |      | -                 |      | 70-130              | -   |      |               |
| 2,2,4-Trimethylpentane                                                               | 87               |      | -                 |      | 70-130              | -   |      |               |
| Heptane                                                                              | 85               |      | -                 |      | 70-130              | -   |      |               |
| cis-1,3-Dichloropropene                                                              | 91               |      | -                 |      | 70-130              | -   |      |               |
| 4-Methyl-2-pentanone                                                                 | 86               |      | -                 |      | 70-130              | -   |      |               |
| trans-1,3-Dichloropropene                                                            | 78               |      | -                 |      | 70-130              | -   |      |               |
| 1,1,2-Trichloroethane                                                                | 96               |      | -                 |      | 70-130              | -   |      |               |
| Toluene                                                                              | 93               |      | -                 |      | 70-130              | -   |      |               |
| 2-Hexanone                                                                           | 84               |      | -                 |      | 70-130              | -   |      |               |
| Dibromochloromethane                                                                 | 95               |      | -                 |      | 70-130              | -   |      |               |
| 1,2-Dibromoethane                                                                    | 94               |      | -                 |      | 70-130              | -   |      |               |

## Lab Control Sample Analysis

### Batch Quality Control

**Project Name:** 131 SUNNYSIDE BLVD.

**Project Number:** 30017762.00012

**Lab Number:** L2240234

**Report Date:** 08/09/22

| Parameter                                                                            | LCS<br>%Recovery | Qual | LCSD<br>%Recovery | Qual | %Recovery<br>Limits | RPD | Qual | RPD<br>Limits |
|--------------------------------------------------------------------------------------|------------------|------|-------------------|------|---------------------|-----|------|---------------|
| Volatile Organics in Air - Mansfield Lab Associated sample(s): 01 Batch: WG1672572-3 |                  |      |                   |      |                     |     |      |               |
| Tetrachloroethene                                                                    | 91               |      | -                 |      | 70-130              | -   |      |               |
| Chlorobenzene                                                                        | 92               |      | -                 |      | 70-130              | -   |      |               |
| Ethylbenzene                                                                         | 98               |      | -                 |      | 70-130              | -   |      |               |
| p/m-Xylene                                                                           | 97               |      | -                 |      | 70-130              | -   |      |               |
| Bromoform                                                                            | 102              |      | -                 |      | 70-130              | -   |      |               |
| Styrene                                                                              | 96               |      | -                 |      | 70-130              | -   |      |               |
| 1,1,2,2-Tetrachloroethane                                                            | 108              |      | -                 |      | 70-130              | -   |      |               |
| o-Xylene                                                                             | 98               |      | -                 |      | 70-130              | -   |      |               |
| 4-Ethyltoluene                                                                       | 85               |      | -                 |      | 70-130              | -   |      |               |
| 1,3,5-Trimethylbenzene                                                               | 95               |      | -                 |      | 70-130              | -   |      |               |
| 1,2,4-Trimethylbenzene                                                               | 97               |      | -                 |      | 70-130              | -   |      |               |
| Benzyl chloride                                                                      | 88               |      | -                 |      | 70-130              | -   |      |               |
| 1,3-Dichlorobenzene                                                                  | 105              |      | -                 |      | 70-130              | -   |      |               |
| 1,4-Dichlorobenzene                                                                  | 105              |      | -                 |      | 70-130              | -   |      |               |
| 1,2-Dichlorobenzene                                                                  | 102              |      | -                 |      | 70-130              | -   |      |               |
| 1,2,4-Trichlorobenzene                                                               | 87               |      | -                 |      | 70-130              | -   |      |               |
| Hexachlorobutadiene                                                                  | 80               |      | -                 |      | 70-130              | -   |      |               |

**Project Name:** 131 SUNNYSIDE BLVD.**Lab Number:** L2240234**Project Number:** 30017762.00012**Report Date:** 08/09/22**Sample Receipt and Container Information**

Were project specific reporting limits specified?

YES

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

NA                              Present/Intact

**Container Information**

| <b>Container ID</b> | <b>Container Type</b>                    | <b>Cooler</b> | <b>Initial<br/>pH</b> | <b>Final<br/>pH</b> | <b>Temp<br/>deg C</b> | <b>Pres</b> | <b>Seal</b> | <b>Frozen<br/>Date/Time</b> | <b>Analysis(*)</b> |
|---------------------|------------------------------------------|---------------|-----------------------|---------------------|-----------------------|-------------|-------------|-----------------------------|--------------------|
| L2240234-01A        | Tedlar Bag 5 liter-Polypropylene Fitting | NA            | NA                    |                     |                       | Y           | Absent      |                             | TO15-LL(30)        |
| L2240234-01B        | Tedlar Bag 5 liter-Polypropylene Fitting | NA            | NA                    |                     |                       | Y           | Absent      |                             | TO15-LL(30)        |
| L2240234-01X        | Tedlar Bag 5 liter-Polypropylene Fitting | NA            | NA                    |                     |                       | Y           | Absent      |                             | TO15-LL(30)        |
| L2240234-01Y        | Tedlar Bag 5 liter-Polypropylene Fitting | NA            | NA                    |                     |                       | Y           | Absent      |                             | TO15-LL(30)        |

**Project Name:** 131 SUNNYSIDE BLVD.**Lab Number:** L2240234**Project Number:** 30017762.00012**Report Date:** 08/09/22

## GLOSSARY

### Acronyms

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

*Report Format: Data Usability Report*

**Project Name:** 131 SUNNYSIDE BLVD.  
**Project Number:** 30017762.00012

**Lab Number:** L2240234  
**Report Date:** 08/09/22

### Footnotes

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

### Terms

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

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

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

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

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

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

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

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

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

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

### Data Qualifiers

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

**Report Format:** Data Usability Report



**Project Name:** 131 SUNNYSIDE BLVD.**Lab Number:** L2240234**Project Number:** 30017762.00012**Report Date:** 08/09/22**Data Qualifiers**

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

**Project Name:** 131 SUNNYSIDE BLVD.  
**Project Number:** 30017762.00012

**Lab Number:** L2240234  
**Report Date:** 08/09/22

## REFERENCES

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

## LIMITATION OF LIABILITIES

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

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



## Certification Information

The following analytes are not included in our Primary NELAP Scope of Accreditation:

### Westborough Facility

**EPA 624/624.1:** m/p-xylene, o-xylene, Naphthalene

**EPA 625/625.1:** alpha-Terpineol

**EPA 8260C/8260D:** NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene, Azobenzene; SCM: Iodomethane (methyl iodide), 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.

**EPA 8270D/8270E:** NPW: Dimethylnaphthalene, 1,4-Diphenylhydrazine, alpha-Terpineol; SCM: Dimethylnaphthalene, 1,4-Diphenylhydrazine.

**SM4500:** NPW: Amenable Cyanide; SCM: Total Phosphorus, TKN, NO<sub>2</sub>, NO<sub>3</sub>.

### Mansfield Facility

**SM 2540D:** TSS

**EPA 8082A:** NPW: PCB: 1, 5, 31, 87, 101, 110, 141, 151, 153, 180, 183, 187.

**EPA TO-15:** Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene,

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

**Biological Tissue Matrix:** EPA 3050B

The following analytes are included in our Massachusetts DEP Scope of Accreditation

### Westborough Facility:

#### Drinking Water

**EPA 300.0:** Chloride, Nitrate-N, Fluoride, Sulfate; **EPA 353.2:** Nitrate-N, Nitrite-N; **SM4500NO3-F:** Nitrate-N, Nitrite-N; **SM4500F-C, SM4500CN-CE,**

**EPA 180.1, SM2130B, SM4500CI-D, SM2320B, SM2540C, SM4500H-B, SM4500NO2-B**

**EPA 332:** Perchlorate; **EPA 524.2:** THMs and VOCs; **EPA 504.1:** EDB, DBCP.

**Microbiology:** **SM9215B; SM9223-P/A, SM9223B-Colilert-QT, SM9222D.**

#### Non-Potable Water

**SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2320B, SM4500CL-E, SM4500F-BC, SM4500NH3-BH:** Ammonia-N and Kjeldahl-N, **EPA 350.1:**

Ammonia-N, **LACHAT 10-107-06-1-B:** Ammonia-N, **EPA 351.1, SM4500NO3-F, EPA 353.2:** Nitrate-N, **SM4500P-E, SM4500P-B, E, SM4500SO4-E,**

**SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, EPA 420.1, SM4500-CN-CE, SM2540D, EPA 300:** Chloride, Sulfate, Nitrate.

**EPA 624.1:** Volatile Halocarbons & Aromatics,

**EPA 608.3:** Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs

**EPA 625.1:** SVOC (Acid/Base/Neutral Extractables), **EPA 600/4-81-045:** PCB-Oil.

**Microbiology:** **SM9223B-Colilert-QT; Enterolert-QT, SM9221E, EPA 1600, EPA 1603, SM9222D.**

### Mansfield Facility:

#### Drinking Water

**EPA 200.7:** Al, Ba, Cd, Cr, Cu, Fe, Mn, Ni, Na, Ag, Ca, Zn. **EPA 200.8:** Al, Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn. **EPA 245.1 Hg.**

**EPA 522, EPA 537.1.**

#### Non-Potable Water

**EPA 200.7:** Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, TL, Ti, V, Zn.

**EPA 200.8:** Al, Sb, As, Be, Cd, Cr, Cu, Fe, Pb, Mn, Ni, K, Se, Ag, Na, TL, Zn.

**EPA 245.1 Hg.**

**SM2340B**

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



## CHAIN OF CUSTODY

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

## Client Information

|          |                                       |
|----------|---------------------------------------|
| Client:  | Arcadis                               |
| Address: | 2 Huntington Quadrangle<br>Suite 1510 |
| Phone:   | 631-245-0710                          |

Fax:

Email: Kevin.Czerwinski@arcadis.com

☐ These samples have been previously analyzed by Alpha

Other Project Specific Requirements/Comments:

Project-Specific Target Compound List: ☐

## Project Information

Project Name: 131 Sunnyside Blvd.

Project Location: Plainview, NY

Project #: 300/7762.00012

Project Manager: Steve Feldman

ALPHA Quote #:

### Turn-Around Time

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

Date Due: \_\_\_\_\_ Time: \_\_\_\_\_

## Report Information - Data Deliverables

☐ FAX☐ ADE<sub>x</sub>

Criteria Checker: \_\_\_\_\_  
(Default based on Regulatory Criteria Indicated)

Other Formats:

☒ EMAIL (standard pdf report)☐ Additional Deliverables:

Report to: (if different than Project Manager)

ALPHA Job #:

### Billing Information

|                                              |                      |
|----------------------------------------------|----------------------|
| <input type="checkbox"/> Same as Client info | PO #: 30017762-00012 |
|----------------------------------------------|----------------------|

Arcadis- Accounts Payable  
Highlands Ranch, CO

## Regulatory Requirements/Report Limits

| State/Fed | Program | Res / Comm |
|-----------|---------|------------|
|-----------|---------|------------|

## ANALYSIS

TO-15 Soil Vapor  
TO-15 SIM  
APH Substrat Non-petroleum HC's  
Fixed Gases  
Sulfides & Mercaptans by TO-15 ☐

**All Columns Below Must Be Filled Out**[illegible]

\*SAMPLE MATRIX CODES

AA = Ambient Air (Indoor/Outdoor)  
SV = Soil Vapor/Landfill Gas/SVE  
Other = Please Specify

Container Type

Redder

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

Relinquished By:

Date/Time

Received By:

Date/Time:

7/27/22 1550 MCM (m)   
 7/27/22 1715   
 7/27/22   
 7/28/22 0350   
 7/28/22 0005   
 7/28/22 0350



## ANALYTICAL REPORT

|                 |                                                                                            |
|-----------------|--------------------------------------------------------------------------------------------|
| Lab Number:     | L2241805                                                                                   |
| Client:         | Arcadis of New York, Inc.<br>Two Huntington Quadrangle<br>Suite 1S10<br>Melville, NY 11747 |
| ATTN:           | Steven Feldman                                                                             |
| Phone:          | (631) 249-7600                                                                             |
| Project Name:   | 131 SUNNYSIDE BLVD                                                                         |
| Project Number: | 30017762.00012                                                                             |
| Report Date:    | 08/17/22                                                                                   |

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Certifications & Approvals: MA (M-MA030), NH NELAP (2062), CT (PH-0141), DoD (L2474), FL (E87814), IL (200081), LA (85084), ME (MA00030), MD (350), NJ (MA015), NY (11627), NC (685), OH (CL106), PA (68-02089), RI (LAO00299), TX (T104704419), VT (VT-0015), VA (460194), WA (C954), US Army Corps of Engineers, USDA (Permit #P330-17-00150), USFWS (Permit #206964).

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320 Forbes Boulevard, Mansfield, MA 02048-1806  
508-822-9300 (Fax) 508-822-3288 800-624-9220 - [www.alphalab.com](http://www.alphalab.com)



**Project Name:** 131 SUNNYSIDE BLVD  
**Project Number:** 30017762.00012

**Lab Number:** L2241805  
**Report Date:** 08/17/22

| <b>Alpha<br/>Sample ID</b> | <b>Client ID</b> | <b>Matrix</b> | <b>Sample<br/>Location</b> | <b>Collection<br/>Date/Time</b> | <b>Receive Date</b> |
|----------------------------|------------------|---------------|----------------------------|---------------------------------|---------------------|
| L2241805-01                | SVE-1            | SOIL_VAPOR    | PLAINVIEW, NY              | 08/03/22 14:25                  | 08/03/22            |
| L2241805-02                | SVE-2            | SOIL_VAPOR    | PLAINVIEW, NY              | 08/03/22 14:35                  | 08/03/22            |

**Project Name:** 131 SUNNYSIDE BLVD  
**Project Number:** 30017762.00012

**Lab Number:** L2241805  
**Report Date:** 08/17/22

### Case Narrative

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

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

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

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

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

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

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**Project Name:** 131 SUNNYSIDE BLVD  
**Project Number:** 30017762.00012

**Lab Number:** L2241805  
**Report Date:** 08/17/22

### Case Narrative (continued)

#### Volatile Organics in Air

L2241805-01D and -02D: The samples have elevated detection limits due to the dilution required by the elevated concentrations of target compounds in the samples.

L2241805-01D and -02D: Samples were transferred from a Tedlar bag into a fused silica lined canister upon receipt in order to extend the holding time for analysis.

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

Authorized Signature:  Christopher J. Anderson

Title: Technical Director/Representative

Date: 08/17/22

**AIR**

**Project Name:** 131 SUNNYSIDE BLVD**Project Number:** 30017762.00012**Lab Number:** L2241805**Report Date:** 08/17/22**SAMPLE RESULTS**

Lab ID: L2241805-01 D

Client ID: SVE-1

Sample Location: PLAINVIEW, NY

Date Collected: 08/03/22 14:25

Date Received: 08/03/22

Field Prep: Not Specified

Sample Depth:

Matrix: Soil\_Vapor

Analytical Method: 48,TO-15

Analytical Date: 08/17/22 07:02

Analyst: TS

| Parameter                                | ppbV    |      |     | ug/m3   |      |     | Qualifier | Dilution Factor |
|------------------------------------------|---------|------|-----|---------|------|-----|-----------|-----------------|
|                                          | Results | RL   | MDL | Results | RL   | MDL |           |                 |
| Volatile Organics in Air - Mansfield Lab |         |      |     |         |      |     |           |                 |
| Dichlorodifluoromethane                  | ND      | 5.79 | --  | ND      | 28.6 | --  |           | 28.94           |
| Chloromethane                            | ND      | 5.79 | --  | ND      | 12.0 | --  |           | 28.94           |
| Freon-114                                | ND      | 5.79 | --  | ND      | 40.5 | --  |           | 28.94           |
| Vinyl chloride                           | ND      | 5.79 | --  | ND      | 14.8 | --  |           | 28.94           |
| 1,3-Butadiene                            | ND      | 5.79 | --  | ND      | 12.8 | --  |           | 28.94           |
| Bromomethane                             | ND      | 5.79 | --  | ND      | 22.5 | --  |           | 28.94           |
| Chloroethane                             | ND      | 5.79 | --  | ND      | 15.3 | --  |           | 28.94           |
| Ethanol                                  | ND      | 145  | --  | ND      | 273  | --  |           | 28.94           |
| Vinyl bromide                            | ND      | 5.79 | --  | ND      | 25.3 | --  |           | 28.94           |
| Acetone                                  | ND      | 28.9 | --  | ND      | 68.7 | --  |           | 28.94           |
| Trichlorofluoromethane                   | ND      | 5.79 | --  | ND      | 32.5 | --  |           | 28.94           |
| Isopropanol                              | 21.2    | 14.5 | --  | 52.1    | 35.6 | --  |           | 28.94           |
| 1,1-Dichloroethene                       | ND      | 5.79 | --  | ND      | 23.0 | --  |           | 28.94           |
| Tertiary butyl Alcohol                   | ND      | 14.5 | --  | ND      | 44.0 | --  |           | 28.94           |
| Methylene chloride                       | ND      | 14.5 | --  | ND      | 50.4 | --  |           | 28.94           |
| 3-Chloropropene                          | ND      | 5.79 | --  | ND      | 18.1 | --  |           | 28.94           |
| Carbon disulfide                         | ND      | 5.79 | --  | ND      | 18.0 | --  |           | 28.94           |
| Freon-113                                | ND      | 5.79 | --  | ND      | 44.4 | --  |           | 28.94           |
| trans-1,2-Dichloroethene                 | ND      | 5.79 | --  | ND      | 23.0 | --  |           | 28.94           |
| 1,1-Dichloroethane                       | ND      | 5.79 | --  | ND      | 23.4 | --  |           | 28.94           |
| Methyl tert butyl ether                  | ND      | 5.79 | --  | ND      | 20.9 | --  |           | 28.94           |
| 2-Butanone                               | ND      | 14.5 | --  | ND      | 42.8 | --  |           | 28.94           |
| cis-1,2-Dichloroethene                   | 23.4    | 5.79 | --  | 92.8    | 23.0 | --  |           | 28.94           |



**Project Name:** 131 SUNNYSIDE BLVD**Lab Number:** L2241805**Project Number:** 30017762.00012**Report Date:** 08/17/22**SAMPLE RESULTS**

Lab ID: L2241805-01 D

Client ID: SVE-1

Sample Location: PLAINVIEW, NY

Date Collected: 08/03/22 14:25

Date Received: 08/03/22

Field Prep: Not Specified

Sample Depth:

| Parameter                                | ppbV    |      |     | ug/m3   |      |     | Qualifier | Dilution Factor |
|------------------------------------------|---------|------|-----|---------|------|-----|-----------|-----------------|
|                                          | Results | RL   | MDL | Results | RL   | MDL |           |                 |
| Volatile Organics in Air - Mansfield Lab |         |      |     |         |      |     |           |                 |
| Ethyl Acetate                            | ND      | 14.5 | --  | ND      | 52.3 | --  |           | 28.94           |
| Chloroform                               | ND      | 5.79 | --  | ND      | 28.3 | --  |           | 28.94           |
| Tetrahydrofuran                          | 20.1    | 14.5 | --  | 59.3    | 42.8 | --  |           | 28.94           |
| 1,2-Dichloroethane                       | ND      | 5.79 | --  | ND      | 23.4 | --  |           | 28.94           |
| n-Hexane                                 | ND      | 5.79 | --  | ND      | 20.4 | --  |           | 28.94           |
| 1,1,1-Trichloroethane                    | ND      | 5.79 | --  | ND      | 31.6 | --  |           | 28.94           |
| Benzene                                  | ND      | 5.79 | --  | ND      | 18.5 | --  |           | 28.94           |
| Carbon tetrachloride                     | ND      | 5.79 | --  | ND      | 36.4 | --  |           | 28.94           |
| Cyclohexane                              | ND      | 5.79 | --  | ND      | 19.9 | --  |           | 28.94           |
| 1,2-Dichloropropane                      | ND      | 5.79 | --  | ND      | 26.8 | --  |           | 28.94           |
| Bromodichloromethane                     | ND      | 5.79 | --  | ND      | 38.8 | --  |           | 28.94           |
| 1,4-Dioxane                              | ND      | 5.79 | --  | ND      | 20.9 | --  |           | 28.94           |
| Trichloroethene                          | 2070    | 5.79 | --  | 11100   | 31.1 | --  |           | 28.94           |
| 2,2,4-Trimethylpentane                   | ND      | 5.79 | --  | ND      | 27.0 | --  |           | 28.94           |
| Heptane                                  | ND      | 5.79 | --  | ND      | 23.7 | --  |           | 28.94           |
| cis-1,3-Dichloropropene                  | ND      | 5.79 | --  | ND      | 26.3 | --  |           | 28.94           |
| 4-Methyl-2-pentanone                     | ND      | 14.5 | --  | ND      | 59.4 | --  |           | 28.94           |
| trans-1,3-Dichloropropene                | ND      | 5.79 | --  | ND      | 26.3 | --  |           | 28.94           |
| 1,1,2-Trichloroethane                    | ND      | 5.79 | --  | ND      | 31.6 | --  |           | 28.94           |
| Toluene                                  | ND      | 5.79 | --  | ND      | 21.8 | --  |           | 28.94           |
| 2-Hexanone                               | ND      | 5.79 | --  | ND      | 23.7 | --  |           | 28.94           |
| Dibromochloromethane                     | ND      | 5.79 | --  | ND      | 49.3 | --  |           | 28.94           |
| 1,2-Dibromoethane                        | ND      | 5.79 | --  | ND      | 44.5 | --  |           | 28.94           |
| Tetrachloroethene                        | 17.6    | 5.79 | --  | 119     | 39.3 | --  |           | 28.94           |
| Chlorobenzene                            | ND      | 5.79 | --  | ND      | 26.7 | --  |           | 28.94           |
| Ethylbenzene                             | ND      | 5.79 | --  | ND      | 25.1 | --  |           | 28.94           |



**Project Name:** 131 SUNNYSIDE BLVD  
**Project Number:** 30017762.00012

**Lab Number:** L2241805  
**Report Date:** 08/17/22

### SAMPLE RESULTS

Lab ID: L2241805-01 D  
 Client ID: SVE-1  
 Sample Location: PLAINVIEW, NY

Date Collected: 08/03/22 14:25  
 Date Received: 08/03/22  
 Field Prep: Not Specified

Sample Depth:

| Parameter                                | ppbV    |      |     | ug/m3   |      |     | Qualifier | Dilution Factor |
|------------------------------------------|---------|------|-----|---------|------|-----|-----------|-----------------|
|                                          | Results | RL   | MDL | Results | RL   | MDL |           |                 |
| Volatile Organics in Air - Mansfield Lab |         |      |     |         |      |     |           |                 |
| p/m-Xylene                               | ND      | 11.6 | --  | ND      | 50.4 | --  |           | 28.94           |
| Bromoform                                | ND      | 5.79 | --  | ND      | 59.9 | --  |           | 28.94           |
| Styrene                                  | ND      | 5.79 | --  | ND      | 24.7 | --  |           | 28.94           |
| 1,1,2,2-Tetrachloroethane                | ND      | 5.79 | --  | ND      | 39.8 | --  |           | 28.94           |
| o-Xylene                                 | ND      | 5.79 | --  | ND      | 25.1 | --  |           | 28.94           |
| 4-Ethyltoluene                           | ND      | 5.79 | --  | ND      | 28.5 | --  |           | 28.94           |
| 1,3,5-Trimethylbenzene                   | ND      | 5.79 | --  | ND      | 28.5 | --  |           | 28.94           |
| 1,2,4-Trimethylbenzene                   | ND      | 5.79 | --  | ND      | 28.5 | --  |           | 28.94           |
| Benzyl chloride                          | ND      | 5.79 | --  | ND      | 30.0 | --  |           | 28.94           |
| 1,3-Dichlorobenzene                      | ND      | 5.79 | --  | ND      | 34.8 | --  |           | 28.94           |
| 1,4-Dichlorobenzene                      | ND      | 5.79 | --  | ND      | 34.8 | --  |           | 28.94           |
| 1,2-Dichlorobenzene                      | ND      | 5.79 | --  | ND      | 34.8 | --  |           | 28.94           |
| 1,2,4-Trichlorobenzene                   | ND      | 5.79 | --  | ND      | 43.0 | --  |           | 28.94           |
| Hexachlorobutadiene                      | ND      | 5.79 | --  | ND      | 61.8 | --  |           | 28.94           |

| Internal Standard   | % Recovery | Qualifier | Acceptance Criteria |
|---------------------|------------|-----------|---------------------|
| 1,4-Difluorobenzene | 93         |           | 60-140              |
| Bromochloromethane  | 92         |           | 60-140              |
| chlorobenzene-d5    | 87         |           | 60-140              |



**Project Name:** 131 SUNNYSIDE BLVD**Lab Number:** L2241805**Project Number:** 30017762.00012**Report Date:** 08/17/22**SAMPLE RESULTS**

Lab ID: L2241805-02 D

Client ID: SVE-2

Sample Location: PLAINVIEW, NY

Date Collected: 08/03/22 14:35

Date Received: 08/03/22

Field Prep: Not Specified

Sample Depth:

Matrix: Soil\_Vapor

Analytical Method: 48,TO-15

Analytical Date: 08/17/22 07:39

Analyst: TS

| Parameter                                | ppbV    |       |     | ug/m3   |      |     | Qualifier | Dilution Factor |
|------------------------------------------|---------|-------|-----|---------|------|-----|-----------|-----------------|
|                                          | Results | RL    | MDL | Results | RL   | MDL |           |                 |
| Volatile Organics in Air - Mansfield Lab |         |       |     |         |      |     |           |                 |
| Dichlorodifluoromethane                  | ND      | 0.667 | --  | ND      | 3.30 | --  |           | 3.333           |
| Chloromethane                            | ND      | 0.667 | --  | ND      | 1.38 | --  |           | 3.333           |
| Freon-114                                | ND      | 0.667 | --  | ND      | 4.66 | --  |           | 3.333           |
| Vinyl chloride                           | ND      | 0.667 | --  | ND      | 1.71 | --  |           | 3.333           |
| 1,3-Butadiene                            | ND      | 0.667 | --  | ND      | 1.48 | --  |           | 3.333           |
| Bromomethane                             | ND      | 0.667 | --  | ND      | 2.59 | --  |           | 3.333           |
| Chloroethane                             | ND      | 0.667 | --  | ND      | 1.76 | --  |           | 3.333           |
| Ethanol                                  | ND      | 16.7  | --  | ND      | 31.5 | --  |           | 3.333           |
| Vinyl bromide                            | ND      | 0.667 | --  | ND      | 2.92 | --  |           | 3.333           |
| Acetone                                  | 6.59    | 3.33  | --  | 15.7    | 7.91 | --  |           | 3.333           |
| Trichlorofluoromethane                   | ND      | 0.667 | --  | ND      | 3.75 | --  |           | 3.333           |
| Isopropanol                              | 5.24    | 1.67  | --  | 12.9    | 4.10 | --  |           | 3.333           |
| 1,1-Dichloroethene                       | ND      | 0.667 | --  | ND      | 2.64 | --  |           | 3.333           |
| Tertiary butyl Alcohol                   | ND      | 1.67  | --  | ND      | 5.06 | --  |           | 3.333           |
| Methylene chloride                       | ND      | 1.67  | --  | ND      | 5.80 | --  |           | 3.333           |
| 3-Chloropropene                          | ND      | 0.667 | --  | ND      | 2.09 | --  |           | 3.333           |
| Carbon disulfide                         | ND      | 0.667 | --  | ND      | 2.08 | --  |           | 3.333           |
| Freon-113                                | ND      | 0.667 | --  | ND      | 5.11 | --  |           | 3.333           |
| trans-1,2-Dichloroethene                 | ND      | 0.667 | --  | ND      | 2.64 | --  |           | 3.333           |
| 1,1-Dichloroethane                       | ND      | 0.667 | --  | ND      | 2.70 | --  |           | 3.333           |
| Methyl tert butyl ether                  | ND      | 0.667 | --  | ND      | 2.40 | --  |           | 3.333           |
| 2-Butanone                               | 2.49    | 1.67  | --  | 7.34    | 4.93 | --  |           | 3.333           |
| cis-1,2-Dichloroethene                   | 7.52    | 0.667 | --  | 29.8    | 2.64 | --  |           | 3.333           |



**Project Name:** 131 SUNNYSIDE BLVD**Lab Number:** L2241805**Project Number:** 30017762.00012**Report Date:** 08/17/22**SAMPLE RESULTS**

Lab ID: L2241805-02 D

Client ID: SVE-2

Sample Location: PLAINVIEW, NY

Date Collected: 08/03/22 14:35

Date Received: 08/03/22

Field Prep: Not Specified

Sample Depth:

| Parameter                                | ppbV    |       |     | ug/m3   |      |     | Qualifier | Dilution Factor |
|------------------------------------------|---------|-------|-----|---------|------|-----|-----------|-----------------|
|                                          | Results | RL    | MDL | Results | RL   | MDL |           |                 |
| Volatile Organics in Air - Mansfield Lab |         |       |     |         |      |     |           |                 |
| Ethyl Acetate                            | 3.53    | 1.67  | --  | 12.7    | 6.02 | --  |           | 3.333           |
| Chloroform                               | ND      | 0.667 | --  | ND      | 3.26 | --  |           | 3.333           |
| Tetrahydrofuran                          | 6.03    | 1.67  | --  | 17.8    | 4.93 | --  |           | 3.333           |
| 1,2-Dichloroethane                       | ND      | 0.667 | --  | ND      | 2.70 | --  |           | 3.333           |
| n-Hexane                                 | ND      | 0.667 | --  | ND      | 2.35 | --  |           | 3.333           |
| 1,1,1-Trichloroethane                    | ND      | 0.667 | --  | ND      | 3.64 | --  |           | 3.333           |
| Benzene                                  | ND      | 0.667 | --  | ND      | 2.13 | --  |           | 3.333           |
| Carbon tetrachloride                     | ND      | 0.667 | --  | ND      | 4.20 | --  |           | 3.333           |
| Cyclohexane                              | ND      | 0.667 | --  | ND      | 2.30 | --  |           | 3.333           |
| 1,2-Dichloropropane                      | ND      | 0.667 | --  | ND      | 3.08 | --  |           | 3.333           |
| Bromodichloromethane                     | ND      | 0.667 | --  | ND      | 4.47 | --  |           | 3.333           |
| 1,4-Dioxane                              | ND      | 0.667 | --  | ND      | 2.40 | --  |           | 3.333           |
| Trichloroethene                          | 223     | 0.667 | --  | 1200    | 3.58 | --  |           | 3.333           |
| 2,2,4-Trimethylpentane                   | ND      | 0.667 | --  | ND      | 3.12 | --  |           | 3.333           |
| Heptane                                  | 1.06    | 0.667 | --  | 4.34    | 2.73 | --  |           | 3.333           |
| cis-1,3-Dichloropropene                  | ND      | 0.667 | --  | ND      | 3.03 | --  |           | 3.333           |
| 4-Methyl-2-pentanone                     | ND      | 1.67  | --  | ND      | 6.84 | --  |           | 3.333           |
| trans-1,3-Dichloropropene                | ND      | 0.667 | --  | ND      | 3.03 | --  |           | 3.333           |
| 1,1,2-Trichloroethane                    | ND      | 0.667 | --  | ND      | 3.64 | --  |           | 3.333           |
| Toluene                                  | 1.96    | 0.667 | --  | 7.39    | 2.51 | --  |           | 3.333           |
| 2-Hexanone                               | ND      | 0.667 | --  | ND      | 2.73 | --  |           | 3.333           |
| Dibromochloromethane                     | ND      | 0.667 | --  | ND      | 5.68 | --  |           | 3.333           |
| 1,2-Dibromoethane                        | ND      | 0.667 | --  | ND      | 5.13 | --  |           | 3.333           |
| Tetrachloroethene                        | 5.02    | 0.667 | --  | 34.0    | 4.52 | --  |           | 3.333           |
| Chlorobenzene                            | ND      | 0.667 | --  | ND      | 3.07 | --  |           | 3.333           |
| Ethylbenzene                             | 0.743   | 0.667 | --  | 3.23    | 2.90 | --  |           | 3.333           |



**Project Name:** 131 SUNNYSIDE BLVD**Lab Number:** L2241805**Project Number:** 30017762.00012**Report Date:** 08/17/22**SAMPLE RESULTS**

Lab ID: L2241805-02 D

Client ID: SVE-2

Sample Location: PLAINVIEW, NY

Date Collected: 08/03/22 14:35

Date Received: 08/03/22

Field Prep: Not Specified

Sample Depth:

| Parameter                                | ppbV    |       |     | ug/m3   |      |     | Qualifier | Dilution Factor |
|------------------------------------------|---------|-------|-----|---------|------|-----|-----------|-----------------|
|                                          | Results | RL    | MDL | Results | RL   | MDL |           |                 |
| Volatile Organics in Air - Mansfield Lab |         |       |     |         |      |     |           |                 |
| p/m-Xylene                               | 2.96    | 1.33  | --  | 12.9    | 5.78 | --  |           | 3.333           |
| Bromoform                                | ND      | 0.667 | --  | ND      | 6.90 | --  |           | 3.333           |
| Styrene                                  | ND      | 0.667 | --  | ND      | 2.84 | --  |           | 3.333           |
| 1,1,2,2-Tetrachloroethane                | ND      | 0.667 | --  | ND      | 4.58 | --  |           | 3.333           |
| o-Xylene                                 | 1.14    | 0.667 | --  | 4.95    | 2.90 | --  |           | 3.333           |
| 4-Ethyltoluene                           | ND      | 0.667 | --  | ND      | 3.28 | --  |           | 3.333           |
| 1,3,5-Trimethylbenzene                   | ND      | 0.667 | --  | ND      | 3.28 | --  |           | 3.333           |
| 1,2,4-Trimethylbenzene                   | 0.680   | 0.667 | --  | 3.34    | 3.28 | --  |           | 3.333           |
| Benzyl chloride                          | ND      | 0.667 | --  | ND      | 3.45 | --  |           | 3.333           |
| 1,3-Dichlorobenzene                      | ND      | 0.667 | --  | ND      | 4.01 | --  |           | 3.333           |
| 1,4-Dichlorobenzene                      | ND      | 0.667 | --  | ND      | 4.01 | --  |           | 3.333           |
| 1,2-Dichlorobenzene                      | ND      | 0.667 | --  | ND      | 4.01 | --  |           | 3.333           |
| 1,2,4-Trichlorobenzene                   | ND      | 0.667 | --  | ND      | 4.95 | --  |           | 3.333           |
| Hexachlorobutadiene                      | ND      | 0.667 | --  | ND      | 7.11 | --  |           | 3.333           |

| Internal Standard   | % Recovery | Qualifier | Acceptance Criteria |
|---------------------|------------|-----------|---------------------|
| 1,4-Difluorobenzene | 94         |           | 60-140              |
| Bromochloromethane  | 93         |           | 60-140              |
| chlorobenzene-d5    | 87         |           | 60-140              |



Project Name: 131 SUNNYSIDE BLVD

Lab Number: L2241805

Project Number: 30017762.00012

Report Date: 08/17/22

### Method Blank Analysis Batch Quality Control

Analytical Method: 48,TO-15

Analytical Date: 08/16/22 15:49

| Parameter                                                                        | ppbV    |       |     | ug/m3   |       |     | Qualifier | Dilution Factor |
|----------------------------------------------------------------------------------|---------|-------|-----|---------|-------|-----|-----------|-----------------|
|                                                                                  | Results | RL    | MDL | Results | RL    | MDL |           |                 |
| Volatile Organics in Air - Mansfield Lab for sample(s): 01-02 Batch: WG1675923-4 |         |       |     |         |       |     |           |                 |
| Dichlorodifluoromethane                                                          | ND      | 0.200 | --  | ND      | 0.989 | --  |           | 1               |
| Chloromethane                                                                    | ND      | 0.200 | --  | ND      | 0.413 | --  |           | 1               |
| Freon-114                                                                        | ND      | 0.200 | --  | ND      | 1.40  | --  |           | 1               |
| Vinyl chloride                                                                   | ND      | 0.200 | --  | ND      | 0.511 | --  |           | 1               |
| 1,3-Butadiene                                                                    | ND      | 0.200 | --  | ND      | 0.442 | --  |           | 1               |
| Bromomethane                                                                     | ND      | 0.200 | --  | ND      | 0.777 | --  |           | 1               |
| Chloroethane                                                                     | ND      | 0.200 | --  | ND      | 0.528 | --  |           | 1               |
| Ethanol                                                                          | ND      | 5.00  | --  | ND      | 9.42  | --  |           | 1               |
| Vinyl bromide                                                                    | ND      | 0.200 | --  | ND      | 0.874 | --  |           | 1               |
| Acetone                                                                          | ND      | 1.00  | --  | ND      | 2.38  | --  |           | 1               |
| Trichlorofluoromethane                                                           | ND      | 0.200 | --  | ND      | 1.12  | --  |           | 1               |
| Isopropanol                                                                      | ND      | 0.500 | --  | ND      | 1.23  | --  |           | 1               |
| 1,1-Dichloroethene                                                               | ND      | 0.200 | --  | ND      | 0.793 | --  |           | 1               |
| Tertiary butyl Alcohol                                                           | ND      | 0.500 | --  | ND      | 1.52  | --  |           | 1               |
| Methylene chloride                                                               | ND      | 0.500 | --  | ND      | 1.74  | --  |           | 1               |
| 3-Chloropropene                                                                  | ND      | 0.200 | --  | ND      | 0.626 | --  |           | 1               |
| Carbon disulfide                                                                 | ND      | 0.200 | --  | ND      | 0.623 | --  |           | 1               |
| Freon-113                                                                        | ND      | 0.200 | --  | ND      | 1.53  | --  |           | 1               |
| trans-1,2-Dichloroethene                                                         | ND      | 0.200 | --  | ND      | 0.793 | --  |           | 1               |
| 1,1-Dichloroethane                                                               | ND      | 0.200 | --  | ND      | 0.809 | --  |           | 1               |
| Methyl tert butyl ether                                                          | ND      | 0.200 | --  | ND      | 0.721 | --  |           | 1               |
| 2-Butanone                                                                       | ND      | 0.500 | --  | ND      | 1.47  | --  |           | 1               |
| cis-1,2-Dichloroethene                                                           | ND      | 0.200 | --  | ND      | 0.793 | --  |           | 1               |
| Ethyl Acetate                                                                    | ND      | 0.500 | --  | ND      | 1.80  | --  |           | 1               |
| Chloroform                                                                       | ND      | 0.200 | --  | ND      | 0.977 | --  |           | 1               |



Project Name: 131 SUNNYSIDE BLVD

Lab Number: L2241805

Project Number: 30017762.00012

Report Date: 08/17/22

### Method Blank Analysis Batch Quality Control

Analytical Method: 48,TO-15

Analytical Date: 08/16/22 15:49

| Parameter                                                                        | ppbV    |       |     | ug/m3   |       |     | Qualifier | Dilution Factor |
|----------------------------------------------------------------------------------|---------|-------|-----|---------|-------|-----|-----------|-----------------|
|                                                                                  | Results | RL    | MDL | Results | RL    | MDL |           |                 |
| Volatile Organics in Air - Mansfield Lab for sample(s): 01-02 Batch: WG1675923-4 |         |       |     |         |       |     |           |                 |
| Tetrahydrofuran                                                                  | ND      | 0.500 | --  | ND      | 1.47  | --  |           | 1               |
| 1,2-Dichloroethane                                                               | ND      | 0.200 | --  | ND      | 0.809 | --  |           | 1               |
| n-Hexane                                                                         | ND      | 0.200 | --  | ND      | 0.705 | --  |           | 1               |
| 1,1,1-Trichloroethane                                                            | ND      | 0.200 | --  | ND      | 1.09  | --  |           | 1               |
| Benzene                                                                          | ND      | 0.200 | --  | ND      | 0.639 | --  |           | 1               |
| Carbon tetrachloride                                                             | ND      | 0.200 | --  | ND      | 1.26  | --  |           | 1               |
| Cyclohexane                                                                      | ND      | 0.200 | --  | ND      | 0.688 | --  |           | 1               |
| 1,2-Dichloropropane                                                              | ND      | 0.200 | --  | ND      | 0.924 | --  |           | 1               |
| Bromodichloromethane                                                             | ND      | 0.200 | --  | ND      | 1.34  | --  |           | 1               |
| 1,4-Dioxane                                                                      | ND      | 0.200 | --  | ND      | 0.721 | --  |           | 1               |
| Trichloroethene                                                                  | ND      | 0.200 | --  | ND      | 1.07  | --  |           | 1               |
| 2,2,4-Trimethylpentane                                                           | ND      | 0.200 | --  | ND      | 0.934 | --  |           | 1               |
| Heptane                                                                          | ND      | 0.200 | --  | ND      | 0.820 | --  |           | 1               |
| cis-1,3-Dichloropropene                                                          | ND      | 0.200 | --  | ND      | 0.908 | --  |           | 1               |
| 4-Methyl-2-pentanone                                                             | ND      | 0.500 | --  | ND      | 2.05  | --  |           | 1               |
| trans-1,3-Dichloropropene                                                        | ND      | 0.200 | --  | ND      | 0.908 | --  |           | 1               |
| 1,1,2-Trichloroethane                                                            | ND      | 0.200 | --  | ND      | 1.09  | --  |           | 1               |
| Toluene                                                                          | ND      | 0.200 | --  | ND      | 0.754 | --  |           | 1               |
| 2-Hexanone                                                                       | ND      | 0.200 | --  | ND      | 0.820 | --  |           | 1               |
| Dibromochloromethane                                                             | ND      | 0.200 | --  | ND      | 1.70  | --  |           | 1               |
| 1,2-Dibromoethane                                                                | ND      | 0.200 | --  | ND      | 1.54  | --  |           | 1               |
| Tetrachloroethene                                                                | ND      | 0.200 | --  | ND      | 1.36  | --  |           | 1               |
| Chlorobenzene                                                                    | ND      | 0.200 | --  | ND      | 0.921 | --  |           | 1               |
| Ethylbenzene                                                                     | ND      | 0.200 | --  | ND      | 0.869 | --  |           | 1               |
| p/m-Xylene                                                                       | ND      | 0.400 | --  | ND      | 1.74  | --  |           | 1               |



Project Name: 131 SUNNYSIDE BLVD

Lab Number: L2241805

Project Number: 30017762.00012

Report Date: 08/17/22

### Method Blank Analysis Batch Quality Control

Analytical Method: 48,TO-15

Analytical Date: 08/16/22 15:49

| Parameter                                                                        | ppbV    |       |     | ug/m3   |       |     | Qualifier | Dilution Factor |
|----------------------------------------------------------------------------------|---------|-------|-----|---------|-------|-----|-----------|-----------------|
|                                                                                  | Results | RL    | MDL | Results | RL    | MDL |           |                 |
| Volatile Organics in Air - Mansfield Lab for sample(s): 01-02 Batch: WG1675923-4 |         |       |     |         |       |     |           |                 |
| Bromoform                                                                        | ND      | 0.200 | --  | ND      | 2.07  | --  |           | 1               |
| Styrene                                                                          | ND      | 0.200 | --  | ND      | 0.852 | --  |           | 1               |
| 1,1,2,2-Tetrachloroethane                                                        | ND      | 0.200 | --  | ND      | 1.37  | --  |           | 1               |
| o-Xylene                                                                         | ND      | 0.200 | --  | ND      | 0.869 | --  |           | 1               |
| 4-Ethyltoluene                                                                   | ND      | 0.200 | --  | ND      | 0.983 | --  |           | 1               |
| 1,3,5-Trimethylbenzene                                                           | ND      | 0.200 | --  | ND      | 0.983 | --  |           | 1               |
| 1,2,4-Trimethylbenzene                                                           | ND      | 0.200 | --  | ND      | 0.983 | --  |           | 1               |
| Benzyl chloride                                                                  | ND      | 0.200 | --  | ND      | 1.04  | --  |           | 1               |
| 1,3-Dichlorobenzene                                                              | ND      | 0.200 | --  | ND      | 1.20  | --  |           | 1               |
| 1,4-Dichlorobenzene                                                              | ND      | 0.200 | --  | ND      | 1.20  | --  |           | 1               |
| 1,2-Dichlorobenzene                                                              | ND      | 0.200 | --  | ND      | 1.20  | --  |           | 1               |
| 1,2,4-Trichlorobenzene                                                           | ND      | 0.200 | --  | ND      | 1.48  | --  |           | 1               |
| Hexachlorobutadiene                                                              | ND      | 0.200 | --  | ND      | 2.13  | --  |           | 1               |

## Lab Control Sample Analysis

### Batch Quality Control

**Project Name:** 131 SUNNYSIDE BLVD

**Project Number:** 30017762.00012

**Lab Number:** L2241805

**Report Date:** 08/17/22

| Parameter                                                                               | LCS<br>%Recovery | Qual | LCSD<br>%Recovery | Qual | %Recovery<br>Limits | RPD | Qual | RPD<br>Limits |
|-----------------------------------------------------------------------------------------|------------------|------|-------------------|------|---------------------|-----|------|---------------|
| Volatile Organics in Air - Mansfield Lab Associated sample(s): 01-02 Batch: WG1675923-3 |                  |      |                   |      |                     |     |      |               |
| Dichlorodifluoromethane                                                                 | 102              |      | -                 |      | 70-130              | -   |      |               |
| Chloromethane                                                                           | 108              |      | -                 |      | 70-130              | -   |      |               |
| Freon-114                                                                               | 106              |      | -                 |      | 70-130              | -   |      |               |
| Vinyl chloride                                                                          | 104              |      | -                 |      | 70-130              | -   |      |               |
| 1,3-Butadiene                                                                           | 106              |      | -                 |      | 70-130              | -   |      |               |
| Bromomethane                                                                            | 106              |      | -                 |      | 70-130              | -   |      |               |
| Chloroethane                                                                            | 102              |      | -                 |      | 70-130              | -   |      |               |
| Ethanol                                                                                 | 87               |      | -                 |      | 40-160              | -   |      |               |
| Vinyl bromide                                                                           | 96               |      | -                 |      | 70-130              | -   |      |               |
| Acetone                                                                                 | 99               |      | -                 |      | 40-160              | -   |      |               |
| Trichlorofluoromethane                                                                  | 95               |      | -                 |      | 70-130              | -   |      |               |
| Isopropanol                                                                             | 96               |      | -                 |      | 40-160              | -   |      |               |
| 1,1-Dichloroethene                                                                      | 105              |      | -                 |      | 70-130              | -   |      |               |
| Tertiary butyl Alcohol                                                                  | 93               |      | -                 |      | 70-130              | -   |      |               |
| Methylene chloride                                                                      | 106              |      | -                 |      | 70-130              | -   |      |               |
| 3-Chloropropene                                                                         | 107              |      | -                 |      | 70-130              | -   |      |               |
| Carbon disulfide                                                                        | 96               |      | -                 |      | 70-130              | -   |      |               |
| Freon-113                                                                               | 106              |      | -                 |      | 70-130              | -   |      |               |
| trans-1,2-Dichloroethene                                                                | 95               |      | -                 |      | 70-130              | -   |      |               |
| 1,1-Dichloroethane                                                                      | 100              |      | -                 |      | 70-130              | -   |      |               |
| Methyl tert butyl ether                                                                 | 98               |      | -                 |      | 70-130              | -   |      |               |
| 2-Butanone                                                                              | 98               |      | -                 |      | 70-130              | -   |      |               |
| cis-1,2-Dichloroethene                                                                  | 102              |      | -                 |      | 70-130              | -   |      |               |

## Lab Control Sample Analysis

### Batch Quality Control

**Project Name:** 131 SUNNYSIDE BLVD

**Project Number:** 30017762.00012

**Lab Number:** L2241805

**Report Date:** 08/17/22

| Parameter                                                                               | LCS<br>%Recovery | Qual | LCSD<br>%Recovery | Qual | %Recovery<br>Limits | RPD | Qual | RPD<br>Limits |
|-----------------------------------------------------------------------------------------|------------------|------|-------------------|------|---------------------|-----|------|---------------|
| Volatile Organics in Air - Mansfield Lab Associated sample(s): 01-02 Batch: WG1675923-3 |                  |      |                   |      |                     |     |      |               |
| Ethyl Acetate                                                                           | 104              |      | -                 |      | 70-130              | -   |      |               |
| Chloroform                                                                              | 103              |      | -                 |      | 70-130              | -   |      |               |
| Tetrahydrofuran                                                                         | 98               |      | -                 |      | 70-130              | -   |      |               |
| 1,2-Dichloroethane                                                                      | 91               |      | -                 |      | 70-130              | -   |      |               |
| n-Hexane                                                                                | 105              |      | -                 |      | 70-130              | -   |      |               |
| 1,1,1-Trichloroethane                                                                   | 106              |      | -                 |      | 70-130              | -   |      |               |
| Benzene                                                                                 | 106              |      | -                 |      | 70-130              | -   |      |               |
| Carbon tetrachloride                                                                    | 102              |      | -                 |      | 70-130              | -   |      |               |
| Cyclohexane                                                                             | 104              |      | -                 |      | 70-130              | -   |      |               |
| 1,2-Dichloropropane                                                                     | 109              |      | -                 |      | 70-130              | -   |      |               |
| Bromodichloromethane                                                                    | 104              |      | -                 |      | 70-130              | -   |      |               |
| 1,4-Dioxane                                                                             | 102              |      | -                 |      | 70-130              | -   |      |               |
| Trichloroethene                                                                         | 109              |      | -                 |      | 70-130              | -   |      |               |
| 2,2,4-Trimethylpentane                                                                  | 104              |      | -                 |      | 70-130              | -   |      |               |
| Heptane                                                                                 | 107              |      | -                 |      | 70-130              | -   |      |               |
| cis-1,3-Dichloropropene                                                                 | 113              |      | -                 |      | 70-130              | -   |      |               |
| 4-Methyl-2-pentanone                                                                    | 114              |      | -                 |      | 70-130              | -   |      |               |
| trans-1,3-Dichloropropene                                                               | 96               |      | -                 |      | 70-130              | -   |      |               |
| 1,1,2-Trichloroethane                                                                   | 113              |      | -                 |      | 70-130              | -   |      |               |
| Toluene                                                                                 | 103              |      | -                 |      | 70-130              | -   |      |               |
| 2-Hexanone                                                                              | 102              |      | -                 |      | 70-130              | -   |      |               |
| Dibromochloromethane                                                                    | 103              |      | -                 |      | 70-130              | -   |      |               |
| 1,2-Dibromoethane                                                                       | 100              |      | -                 |      | 70-130              | -   |      |               |

## Lab Control Sample Analysis

### Batch Quality Control

**Project Name:** 131 SUNNYSIDE BLVD

**Project Number:** 30017762.00012

**Lab Number:** L2241805

**Report Date:** 08/17/22

| Parameter                                                                               | LCS<br>%Recovery | Qual | LCSD<br>%Recovery | Qual | %Recovery<br>Limits | RPD | Qual | RPD<br>Limits |
|-----------------------------------------------------------------------------------------|------------------|------|-------------------|------|---------------------|-----|------|---------------|
| Volatile Organics in Air - Mansfield Lab Associated sample(s): 01-02 Batch: WG1675923-3 |                  |      |                   |      |                     |     |      |               |
| Tetrachloroethene                                                                       | 100              |      | -                 |      | 70-130              | -   |      |               |
| Chlorobenzene                                                                           | 104              |      | -                 |      | 70-130              | -   |      |               |
| Ethylbenzene                                                                            | 107              |      | -                 |      | 70-130              | -   |      |               |
| p/m-Xylene                                                                              | 106              |      | -                 |      | 70-130              | -   |      |               |
| Bromoform                                                                               | 99               |      | -                 |      | 70-130              | -   |      |               |
| Styrene                                                                                 | 98               |      | -                 |      | 70-130              | -   |      |               |
| 1,1,2,2-Tetrachloroethane                                                               | 108              |      | -                 |      | 70-130              | -   |      |               |
| o-Xylene                                                                                | 104              |      | -                 |      | 70-130              | -   |      |               |
| 4-Ethyltoluene                                                                          | 95               |      | -                 |      | 70-130              | -   |      |               |
| 1,3,5-Trimethylbenzene                                                                  | 114              |      | -                 |      | 70-130              | -   |      |               |
| 1,2,4-Trimethylbenzene                                                                  | 105              |      | -                 |      | 70-130              | -   |      |               |
| Benzyl chloride                                                                         | 87               |      | -                 |      | 70-130              | -   |      |               |
| 1,3-Dichlorobenzene                                                                     | 99               |      | -                 |      | 70-130              | -   |      |               |
| 1,4-Dichlorobenzene                                                                     | 97               |      | -                 |      | 70-130              | -   |      |               |
| 1,2-Dichlorobenzene                                                                     | 97               |      | -                 |      | 70-130              | -   |      |               |
| 1,2,4-Trichlorobenzene                                                                  | 85               |      | -                 |      | 70-130              | -   |      |               |
| Hexachlorobutadiene                                                                     | 88               |      | -                 |      | 70-130              | -   |      |               |

**Project Name:** 131 SUNNYSIDE BLVD  
**Project Number:** 30017762.00012

Serial\_No:08172216:32  
**Lab Number:** L2241805  
**Report Date:** 08/17/22

**Sample Receipt and Container Information**

Were project specific reporting limits specified?

YES

**Cooler Information**

| <b>Cooler</b> | <b>Custody Seal</b> |
|---------------|---------------------|
| NA            | Absent              |

**Container Information**

| <b>Container ID</b> | <b>Container Type</b>                    | <b>Cooler</b> | <b>Initial<br/>pH</b> | <b>Final<br/>pH</b> | <b>Temp<br/>deg C</b> | <b>Pres</b> | <b>Seal</b> | <b>Frozen<br/>Date/Time</b> | <b>Analysis(*)</b> |
|---------------------|------------------------------------------|---------------|-----------------------|---------------------|-----------------------|-------------|-------------|-----------------------------|--------------------|
| L2241805-01A        | Tedlar Bag 5 liter-Polypropylene Fitting | NA            | NA                    |                     |                       | Y           | Absent      |                             | TO15-LL(30)        |
| L2241805-01B        | Tedlar Bag 5 liter-Polypropylene Fitting | NA            | NA                    |                     |                       | Y           | Absent      |                             | TO15-LL(30)        |
| L2241805-01X        | Tedlar Bag 5 liter-Polypropylene Fitting | NA            | NA                    |                     |                       | Y           | Absent      |                             | TO15-LL(30)        |
| L2241805-02A        | Tedlar Bag 5 liter-Polypropylene Fitting | NA            | NA                    |                     |                       | Y           | Absent      |                             | TO15-LL(30)        |
| L2241805-02B        | Tedlar Bag 5 liter-Polypropylene Fitting | NA            | NA                    |                     |                       | Y           | Absent      |                             | TO15-LL(30)        |
| L2241805-02X        | Tedlar Bag 5 liter-Polypropylene Fitting | NA            | NA                    |                     |                       | Y           | Absent      |                             | TO15-LL(30)        |

**Project Name:** 131 SUNNYSIDE BLVD**Lab Number:** L2241805**Project Number:** 30017762.00012**Report Date:** 08/17/22

## GLOSSARY

### Acronyms

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

*Report Format: Data Usability Report*

**Project Name:** 131 SUNNYSIDE BLVD  
**Project Number:** 30017762.00012

**Lab Number:** L2241805  
**Report Date:** 08/17/22

### Footnotes

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

### Terms

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

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

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

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

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

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

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

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

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

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

### Data Qualifiers

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

**Report Format:** Data Usability Report



**Project Name:** 131 SUNNYSIDE BLVD  
**Project Number:** 30017762.00012

**Lab Number:** L2241805  
**Report Date:** 08/17/22

#### **Data Qualifiers**

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

**Project Name:** 131 SUNNYSIDE BLVD  
**Project Number:** 30017762.00012

**Lab Number:** L2241805  
**Report Date:** 08/17/22

## REFERENCES

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

## LIMITATION OF LIABILITIES

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

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



**Alpha Analytical, Inc.**Facility: **Company-wide**Department: **Quality Assurance**Title: **Certificate/Approval Program Summary**ID No.: **17873**

Revision 19

Published Date: 4/2/2021 1:14:23 PM

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**Certification Information**

The following analytes are not included in our Primary NELAP Scope of Accreditation:

**Westborough Facility****EPA 624/624.1:** m/p-xylene, o-xylene, Naphthalene**EPA 625/625.1:** alpha-Terpineol**EPA 8260C/8260D:** NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene, Azobenzene; SCM: Iodomethane (methyl iodide), 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.**EPA 8270D/8270E:** NPW: Dimethylnaphthalene, 1,4-Diphenylhydrazine, alpha-Terpineol; SCM: Dimethylnaphthalene, 1,4-Diphenylhydrazine.**SM4500:** NPW: Amenable Cyanide; SCM: Total Phosphorus, TKN, NO<sub>2</sub>, NO<sub>3</sub>.**Mansfield Facility****SM 2540D:** TSS**EPA 8082A:** NPW: PCB: 1, 5, 31, 87, 101, 110, 141, 151, 153, 180, 183, 187.**EPA TO-15:** Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene,

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

**Biological Tissue Matrix:** EPA 3050B

The following analytes are included in our Massachusetts DEP Scope of Accreditation

**Westborough Facility:****Drinking Water****EPA 300.0:** Chloride, Nitrate-N, Fluoride, Sulfate; **EPA 353.2:** Nitrate-N, Nitrite-N; **SM4500NO3-F:** Nitrate-N, Nitrite-N; **SM4500F-C, SM4500CN-CE,****EPA 180.1, SM2130B, SM4500CI-D, SM2320B, SM2540C, SM4500H-B, SM4500NO2-B****EPA 332:** Perchlorate; **EPA 524.2:** THMs and VOCs; **EPA 504.1:** EDB, DBCP.**Microbiology:** **SM9215B; SM9223-P/A, SM9223B-Colilert-QT, SM9222D.****Non-Potable Water****SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2320B, SM4500CL-E, SM4500F-BC, SM4500NH3-BH:** Ammonia-N and Kjeldahl-N, **EPA 350.1:**Ammonia-N, **LACHAT 10-107-06-1-B:** Ammonia-N, **EPA 351.1, SM4500NO3-F, EPA 353.2:** Nitrate-N, **SM4500P-E, SM4500P-B, E, SM4500SO4-E,****SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, EPA 420.1, SM4500-CN-CE, SM2540D, EPA 300:** Chloride, Sulfate, Nitrate.**EPA 624.1:** Volatile Halocarbons & Aromatics,**EPA 608.3:** Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs**EPA 625.1:** SVOC (Acid/Base/Neutral Extractables), **EPA 600/4-81-045:** PCB-Oil.**Microbiology:** **SM9223B-Colilert-QT; Enterolert-QT, SM9221E, EPA 1600, EPA 1603, SM9222D.****Mansfield Facility:****Drinking Water****EPA 200.7:** Al, Ba, Cd, Cr, Cu, Fe, Mn, Ni, Na, Ag, Ca, Zn. **EPA 200.8:** Al, Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn. **EPA 245.1 Hg.****EPA 522, EPA 537.1.****Non-Potable Water****EPA 200.7:** Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, TL, Ti, V, Zn.**EPA 200.8:** Al, Sb, As, Be, Cd, Cr, Cu, Fe, Pb, Mn, Ni, K, Se, Ag, Na, TL, Zn.**EPA 245.1 Hg.****SM2340B**

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





## ANALYTICAL REPORT

|                 |                                                                                            |
|-----------------|--------------------------------------------------------------------------------------------|
| Lab Number:     | L2243287                                                                                   |
| Client:         | Arcadis of New York, Inc.<br>Two Huntington Quadrangle<br>Suite 1S10<br>Melville, NY 11747 |
| ATTN:           | Steven Feldman                                                                             |
| Phone:          | (631) 249-7600                                                                             |
| Project Name:   | 131 SUNNYSIDE BLVD                                                                         |
| Project Number: | 30017762.00012                                                                             |
| Report Date:    | 08/25/22                                                                                   |

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

Certifications & Approvals: MA (M-MA030), NH NELAP (2062), CT (PH-0141), DoD (L2474), FL (E87814), IL (200081), LA (85084), ME (MA00030), MD (350), NJ (MA015), NY (11627), NC (685), OH (CL106), PA (68-02089), RI (LAO00299), TX (T104704419), VT (VT-0015), VA (460194), WA (C954), US Army Corps of Engineers, USDA (Permit #P330-17-00150), USFWS (Permit #206964).

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320 Forbes Boulevard, Mansfield, MA 02048-1806  
508-822-9300 (Fax) 508-822-3288 800-624-9220 - [www.alphalab.com](http://www.alphalab.com)



**Project Name:** 131 SUNNYSIDE BLVD  
**Project Number:** 30017762.00012

**Lab Number:** L2243287  
**Report Date:** 08/25/22

| <b>Alpha<br/>Sample ID</b> | <b>Client ID</b> | <b>Matrix</b> | <b>Sample<br/>Location</b> | <b>Collection<br/>Date/Time</b> | <b>Receive Date</b> |
|----------------------------|------------------|---------------|----------------------------|---------------------------------|---------------------|
| L2243287-01                | SVE-1            | SOIL_VAPOR    | PLAINVIEW, NY              | 08/11/22 11:30                  | 08/11/22            |
| L2243287-02                | SVE-2            | SOIL_VAPOR    | PLAINVIEW, NY              | 08/11/22 11:00                  | 08/11/22            |

**Project Name:** 131 SUNNYSIDE BLVD  
**Project Number:** 30017762.00012

**Lab Number:** L2243287  
**Report Date:** 08/25/22

### Case Narrative

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

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

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

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

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

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

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**Project Name:** 131 SUNNYSIDE BLVD  
**Project Number:** 30017762.00012

**Lab Number:** L2243287  
**Report Date:** 08/25/22

**Case Narrative (continued)**

Volatile Organics in Air

L2243287-01D: The sample has elevated detection limits due to the dilution required by the elevated concentrations of target compounds in the sample.

L2243287-01,02: Samples were transferred from a Tedlar bag into a fused silica lined canister upon receipt in order to extend the holding time for analysis.

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

Authorized Signature:



Jennifer Jerome

Title: Technical Director/Representative

Date: 08/25/22

**AIR**

**Project Name:** 131 SUNNYSIDE BLVD  
**Project Number:** 30017762.00012

**Lab Number:** L2243287  
**Report Date:** 08/25/22

### SAMPLE RESULTS

Lab ID: L2243287-01 D  
 Client ID: SVE-1  
 Sample Location: PLAINVIEW, NY

Date Collected: 08/11/22 11:30  
 Date Received: 08/11/22  
 Field Prep: Not Specified

Sample Depth:  
 Matrix: Soil\_Vapor  
 Analytical Method: 48,TO-15  
 Analytical Date: 08/24/22 01:34  
 Analyst: TS

| Parameter                                | ppbV    |      |     | ug/m3   |      |     | Qualifier | Dilution Factor |
|------------------------------------------|---------|------|-----|---------|------|-----|-----------|-----------------|
|                                          | Results | RL   | MDL | Results | RL   | MDL |           |                 |
| Volatile Organics in Air - Mansfield Lab |         |      |     |         |      |     |           |                 |
| Dichlorodifluoromethane                  | ND      | 3.40 | --  | ND      | 16.8 | --  |           | 17.02           |
| Chloromethane                            | ND      | 3.40 | --  | ND      | 7.02 | --  |           | 17.02           |
| Freon-114                                | ND      | 3.40 | --  | ND      | 23.8 | --  |           | 17.02           |
| Vinyl chloride                           | ND      | 3.40 | --  | ND      | 8.69 | --  |           | 17.02           |
| 1,3-Butadiene                            | ND      | 3.40 | --  | ND      | 7.52 | --  |           | 17.02           |
| Bromomethane                             | ND      | 3.40 | --  | ND      | 13.2 | --  |           | 17.02           |
| Chloroethane                             | ND      | 3.40 | --  | ND      | 8.97 | --  |           | 17.02           |
| Ethanol                                  | ND      | 85.1 | --  | ND      | 160  | --  |           | 17.02           |
| Vinyl bromide                            | ND      | 3.40 | --  | ND      | 14.9 | --  |           | 17.02           |
| Acetone                                  | ND      | 17.0 | --  | ND      | 40.4 | --  |           | 17.02           |
| Trichlorofluoromethane                   | ND      | 3.40 | --  | ND      | 19.1 | --  |           | 17.02           |
| Isopropanol                              | 14.4    | 8.51 | --  | 35.4    | 20.9 | --  |           | 17.02           |
| 1,1-Dichloroethene                       | ND      | 3.40 | --  | ND      | 13.5 | --  |           | 17.02           |
| Tertiary butyl Alcohol                   | ND      | 8.51 | --  | ND      | 25.8 | --  |           | 17.02           |
| Methylene chloride                       | ND      | 8.51 | --  | ND      | 29.6 | --  |           | 17.02           |
| 3-Chloropropene                          | ND      | 3.40 | --  | ND      | 10.6 | --  |           | 17.02           |
| Carbon disulfide                         | ND      | 3.40 | --  | ND      | 10.6 | --  |           | 17.02           |
| Freon-113                                | ND      | 3.40 | --  | ND      | 26.1 | --  |           | 17.02           |
| trans-1,2-Dichloroethene                 | ND      | 3.40 | --  | ND      | 13.5 | --  |           | 17.02           |
| 1,1-Dichloroethane                       | ND      | 3.40 | --  | ND      | 13.8 | --  |           | 17.02           |
| Methyl tert butyl ether                  | ND      | 3.40 | --  | ND      | 12.3 | --  |           | 17.02           |
| 2-Butanone                               | ND      | 8.51 | --  | ND      | 25.1 | --  |           | 17.02           |
| cis-1,2-Dichloroethene                   | 12.0    | 3.40 | --  | 47.6    | 13.5 | --  |           | 17.02           |



**Project Name:** 131 SUNNYSIDE BLVD**Lab Number:** L2243287**Project Number:** 30017762.00012**Report Date:** 08/25/22**SAMPLE RESULTS**

Lab ID: L2243287-01 D

Client ID: SVE-1

Sample Location: PLAINVIEW, NY

Date Collected: 08/11/22 11:30

Date Received: 08/11/22

Field Prep: Not Specified

Sample Depth:

| Parameter                                | ppbV    |      |     | ug/m3   |      |     | Qualifier | Dilution Factor |
|------------------------------------------|---------|------|-----|---------|------|-----|-----------|-----------------|
|                                          | Results | RL   | MDL | Results | RL   | MDL |           |                 |
| Volatile Organics in Air - Mansfield Lab |         |      |     |         |      |     |           |                 |
| Ethyl Acetate                            | ND      | 8.51 | --  | ND      | 30.7 | --  |           | 17.02           |
| Chloroform                               | ND      | 3.40 | --  | ND      | 16.6 | --  |           | 17.02           |
| Tetrahydrofuran                          | 17.6    | 8.51 | --  | 51.9    | 25.1 | --  |           | 17.02           |
| 1,2-Dichloroethane                       | ND      | 3.40 | --  | ND      | 13.8 | --  |           | 17.02           |
| n-Hexane                                 | ND      | 3.40 | --  | ND      | 12.0 | --  |           | 17.02           |
| 1,1,1-Trichloroethane                    | ND      | 3.40 | --  | ND      | 18.6 | --  |           | 17.02           |
| Benzene                                  | ND      | 3.40 | --  | ND      | 10.9 | --  |           | 17.02           |
| Carbon tetrachloride                     | ND      | 3.40 | --  | ND      | 21.4 | --  |           | 17.02           |
| Cyclohexane                              | ND      | 3.40 | --  | ND      | 11.7 | --  |           | 17.02           |
| 1,2-Dichloropropane                      | ND      | 3.40 | --  | ND      | 15.7 | --  |           | 17.02           |
| Bromodichloromethane                     | ND      | 3.40 | --  | ND      | 22.8 | --  |           | 17.02           |
| 1,4-Dioxane                              | ND      | 3.40 | --  | ND      | 12.3 | --  |           | 17.02           |
| Trichloroethene                          | 1140    | 3.40 | --  | 6130    | 18.3 | --  |           | 17.02           |
| 2,2,4-Trimethylpentane                   | ND      | 3.40 | --  | ND      | 15.9 | --  |           | 17.02           |
| Heptane                                  | ND      | 3.40 | --  | ND      | 13.9 | --  |           | 17.02           |
| cis-1,3-Dichloropropene                  | ND      | 3.40 | --  | ND      | 15.4 | --  |           | 17.02           |
| 4-Methyl-2-pentanone                     | ND      | 8.51 | --  | ND      | 34.9 | --  |           | 17.02           |
| trans-1,3-Dichloropropene                | ND      | 3.40 | --  | ND      | 15.4 | --  |           | 17.02           |
| 1,1,2-Trichloroethane                    | ND      | 3.40 | --  | ND      | 18.6 | --  |           | 17.02           |
| Toluene                                  | 3.69    | 3.40 | --  | 13.9    | 12.8 | --  |           | 17.02           |
| 2-Hexanone                               | ND      | 3.40 | --  | ND      | 13.9 | --  |           | 17.02           |
| Dibromochloromethane                     | ND      | 3.40 | --  | ND      | 29.0 | --  |           | 17.02           |
| 1,2-Dibromoethane                        | ND      | 3.40 | --  | ND      | 26.1 | --  |           | 17.02           |
| Tetrachloroethene                        | 11.9    | 3.40 | --  | 80.7    | 23.1 | --  |           | 17.02           |
| Chlorobenzene                            | ND      | 3.40 | --  | ND      | 15.7 | --  |           | 17.02           |
| Ethylbenzene                             | ND      | 3.40 | --  | ND      | 14.8 | --  |           | 17.02           |



**Project Name:** 131 SUNNYSIDE BLVD  
**Project Number:** 30017762.00012

**Lab Number:** L2243287  
**Report Date:** 08/25/22

### SAMPLE RESULTS

**Lab ID:** L2243287-01 D  
**Client ID:** SVE-1  
**Sample Location:** PLAINVIEW, NY

**Date Collected:** 08/11/22 11:30  
**Date Received:** 08/11/22  
**Field Prep:** Not Specified

**Sample Depth:**

| Parameter                                | ppbV    |      |     | ug/m3   |      |     | Qualifier | Dilution Factor |
|------------------------------------------|---------|------|-----|---------|------|-----|-----------|-----------------|
|                                          | Results | RL   | MDL | Results | RL   | MDL |           |                 |
| Volatile Organics in Air - Mansfield Lab |         |      |     |         |      |     |           |                 |
| p/m-Xylene                               | ND      | 6.81 | --  | ND      | 29.6 | --  |           | 17.02           |
| Bromoform                                | ND      | 3.40 | --  | ND      | 35.2 | --  |           | 17.02           |
| Styrene                                  | ND      | 3.40 | --  | ND      | 14.5 | --  |           | 17.02           |
| 1,1,2,2-Tetrachloroethane                | ND      | 3.40 | --  | ND      | 23.3 | --  |           | 17.02           |
| o-Xylene                                 | ND      | 3.40 | --  | ND      | 14.8 | --  |           | 17.02           |
| 4-Ethyltoluene                           | ND      | 3.40 | --  | ND      | 16.7 | --  |           | 17.02           |
| 1,3,5-Trimethylbenzene                   | ND      | 3.40 | --  | ND      | 16.7 | --  |           | 17.02           |
| 1,2,4-Trimethylbenzene                   | ND      | 3.40 | --  | ND      | 16.7 | --  |           | 17.02           |
| Benzyl chloride                          | ND      | 3.40 | --  | ND      | 17.6 | --  |           | 17.02           |
| 1,3-Dichlorobenzene                      | ND      | 3.40 | --  | ND      | 20.4 | --  |           | 17.02           |
| 1,4-Dichlorobenzene                      | ND      | 3.40 | --  | ND      | 20.4 | --  |           | 17.02           |
| 1,2-Dichlorobenzene                      | ND      | 3.40 | --  | ND      | 20.4 | --  |           | 17.02           |
| 1,2,4-Trichlorobenzene                   | ND      | 3.40 | --  | ND      | 25.2 | --  |           | 17.02           |
| Hexachlorobutadiene                      | ND      | 3.40 | --  | ND      | 36.3 | --  |           | 17.02           |

| Internal Standard   | % Recovery | Qualifier | Acceptance Criteria |
|---------------------|------------|-----------|---------------------|
| 1,4-Difluorobenzene | 89         |           | 60-140              |
| Bromochloromethane  | 82         |           | 60-140              |
| chlorobenzene-d5    | 86         |           | 60-140              |



**Project Name:** 131 SUNNYSIDE BLVD**Lab Number:** L2243287**Project Number:** 30017762.00012**Report Date:** 08/25/22**SAMPLE RESULTS**

Lab ID: L2243287-02  
 Client ID: SVE-2  
 Sample Location: PLAINVIEW, NY

Date Collected: 08/11/22 11:00  
 Date Received: 08/11/22  
 Field Prep: Not Specified

Sample Depth:  
 Matrix: Soil\_Vapor  
 Analytical Method: 48,TO-15  
 Analytical Date: 08/24/22 02:13  
 Analyst: TS

| Parameter                                | ppbV    |       |     | ug/m3   |       |     | Qualifier | Dilution Factor |
|------------------------------------------|---------|-------|-----|---------|-------|-----|-----------|-----------------|
|                                          | Results | RL    | MDL | Results | RL    | MDL |           |                 |
| Volatile Organics in Air - Mansfield Lab |         |       |     |         |       |     |           |                 |
| Dichlorodifluoromethane                  | 0.464   | 0.200 | --  | 2.29    | 0.989 | --  |           | 1               |
| Chloromethane                            | 0.209   | 0.200 | --  | 0.432   | 0.413 | --  |           | 1               |
| Freon-114                                | ND      | 0.200 | --  | ND      | 1.40  | --  |           | 1               |
| Vinyl chloride                           | ND      | 0.200 | --  | ND      | 0.511 | --  |           | 1               |
| 1,3-Butadiene                            | ND      | 0.200 | --  | ND      | 0.442 | --  |           | 1               |
| Bromomethane                             | ND      | 0.200 | --  | ND      | 0.777 | --  |           | 1               |
| Chloroethane                             | ND      | 0.200 | --  | ND      | 0.528 | --  |           | 1               |
| Ethanol                                  | 26.7    | 5.00  | --  | 50.3    | 9.42  | --  |           | 1               |
| Vinyl bromide                            | ND      | 0.200 | --  | ND      | 0.874 | --  |           | 1               |
| Acetone                                  | 8.84    | 1.00  | --  | 21.0    | 2.38  | --  |           | 1               |
| Trichlorofluoromethane                   | 0.253   | 0.200 | --  | 1.42    | 1.12  | --  |           | 1               |
| Isopropanol                              | 14.4    | 0.500 | --  | 35.4    | 1.23  | --  |           | 1               |
| 1,1-Dichloroethene                       | ND      | 0.200 | --  | ND      | 0.793 | --  |           | 1               |
| Tertiary butyl Alcohol                   | 0.558   | 0.500 | --  | 1.69    | 1.52  | --  |           | 1               |
| Methylene chloride                       | ND      | 0.500 | --  | ND      | 1.74  | --  |           | 1               |
| 3-Chloropropene                          | ND      | 0.200 | --  | ND      | 0.626 | --  |           | 1               |
| Carbon disulfide                         | 0.474   | 0.200 | --  | 1.48    | 0.623 | --  |           | 1               |
| Freon-113                                | 0.541   | 0.200 | --  | 4.15    | 1.53  | --  |           | 1               |
| trans-1,2-Dichloroethene                 | ND      | 0.200 | --  | ND      | 0.793 | --  |           | 1               |
| 1,1-Dichloroethane                       | ND      | 0.200 | --  | ND      | 0.809 | --  |           | 1               |
| Methyl tert butyl ether                  | ND      | 0.200 | --  | ND      | 0.721 | --  |           | 1               |
| 2-Butanone                               | 2.20    | 0.500 | --  | 6.49    | 1.47  | --  |           | 1               |
| cis-1,2-Dichloroethene                   | 4.92    | 0.200 | --  | 19.5    | 0.793 | --  |           | 1               |



**Project Name:** 131 SUNNYSIDE BLVD**Lab Number:** L2243287**Project Number:** 30017762.00012**Report Date:** 08/25/22**SAMPLE RESULTS**

Lab ID: L2243287-02  
 Client ID: SVE-2  
 Sample Location: PLAINVIEW, NY

Date Collected: 08/11/22 11:00  
 Date Received: 08/11/22  
 Field Prep: Not Specified

Sample Depth:

| Parameter                                | ppbV    |       |     | ug/m3   |       |     | Qualifier | Dilution Factor |
|------------------------------------------|---------|-------|-----|---------|-------|-----|-----------|-----------------|
|                                          | Results | RL    | MDL | Results | RL    | MDL |           |                 |
| Volatile Organics in Air - Mansfield Lab |         |       |     |         |       |     |           |                 |
| Ethyl Acetate                            | 1.01    | 0.500 | --  | 3.64    | 1.80  | --  |           | 1               |
| Chloroform                               | 0.201   | 0.200 | --  | 0.982   | 0.977 | --  |           | 1               |
| Tetrahydrofuran                          | 3.41    | 0.500 | --  | 10.1    | 1.47  | --  |           | 1               |
| 1,2-Dichloroethane                       | ND      | 0.200 | --  | ND      | 0.809 | --  |           | 1               |
| n-Hexane                                 | 0.618   | 0.200 | --  | 2.18    | 0.705 | --  |           | 1               |
| 1,1,1-Trichloroethane                    | ND      | 0.200 | --  | ND      | 1.09  | --  |           | 1               |
| Benzene                                  | 0.955   | 0.200 | --  | 3.05    | 0.639 | --  |           | 1               |
| Carbon tetrachloride                     | ND      | 0.200 | --  | ND      | 1.26  | --  |           | 1               |
| Cyclohexane                              | 0.813   | 0.200 | --  | 2.80    | 0.688 | --  |           | 1               |
| 1,2-Dichloropropane                      | ND      | 0.200 | --  | ND      | 0.924 | --  |           | 1               |
| Bromodichloromethane                     | ND      | 0.200 | --  | ND      | 1.34  | --  |           | 1               |
| 1,4-Dioxane                              | ND      | 0.200 | --  | ND      | 0.721 | --  |           | 1               |
| Trichloroethene                          | 6.86    | 0.200 | --  | 36.9    | 1.07  | --  |           | 1               |
| 2,2,4-Trimethylpentane                   | 1.18    | 0.200 | --  | 5.51    | 0.934 | --  |           | 1               |
| Heptane                                  | 0.990   | 0.200 | --  | 4.06    | 0.820 | --  |           | 1               |
| cis-1,3-Dichloropropene                  | ND      | 0.200 | --  | ND      | 0.908 | --  |           | 1               |
| 4-Methyl-2-pentanone                     | 0.720   | 0.500 | --  | 2.95    | 2.05  | --  |           | 1               |
| trans-1,3-Dichloropropene                | ND      | 0.200 | --  | ND      | 0.908 | --  |           | 1               |
| 1,1,2-Trichloroethane                    | ND      | 0.200 | --  | ND      | 1.09  | --  |           | 1               |
| Toluene                                  | 3.21    | 0.200 | --  | 12.1    | 0.754 | --  |           | 1               |
| 2-Hexanone                               | ND      | 0.200 | --  | ND      | 0.820 | --  |           | 1               |
| Dibromochloromethane                     | ND      | 0.200 | --  | ND      | 1.70  | --  |           | 1               |
| 1,2-Dibromoethane                        | ND      | 0.200 | --  | ND      | 1.54  | --  |           | 1               |
| Tetrachloroethene                        | 2.80    | 0.200 | --  | 19.0    | 1.36  | --  |           | 1               |
| Chlorobenzene                            | ND      | 0.200 | --  | ND      | 0.921 | --  |           | 1               |
| Ethylbenzene                             | 0.658   | 0.200 | --  | 2.86    | 0.869 | --  |           | 1               |



**Project Name:** 131 SUNNYSIDE BLVD**Lab Number:** L2243287**Project Number:** 30017762.00012**Report Date:** 08/25/22**SAMPLE RESULTS**

Lab ID: L2243287-02  
 Client ID: SVE-2  
 Sample Location: PLAINVIEW, NY

Date Collected: 08/11/22 11:00  
 Date Received: 08/11/22  
 Field Prep: Not Specified

Sample Depth:

| Parameter                                | ppbV    |       |     | ug/m3   |       |     | Qualifier | Dilution Factor |
|------------------------------------------|---------|-------|-----|---------|-------|-----|-----------|-----------------|
|                                          | Results | RL    | MDL | Results | RL    | MDL |           |                 |
| Volatile Organics in Air - Mansfield Lab |         |       |     |         |       |     |           |                 |
| p/m-Xylene                               | 2.67    | 0.400 | --  | 11.6    | 1.74  | --  |           | 1               |
| Bromoform                                | ND      | 0.200 | --  | ND      | 2.07  | --  |           | 1               |
| Styrene                                  | 0.250   | 0.200 | --  | 1.06    | 0.852 | --  |           | 1               |
| 1,1,2,2-Tetrachloroethane                | ND      | 0.200 | --  | ND      | 1.37  | --  |           | 1               |
| o-Xylene                                 | 1.03    | 0.200 | --  | 4.47    | 0.869 | --  |           | 1               |
| 4-Ethyltoluene                           | ND      | 0.200 | --  | ND      | 0.983 | --  |           | 1               |
| 1,3,5-Trimethylbenzene                   | 0.252   | 0.200 | --  | 1.24    | 0.983 | --  |           | 1               |
| 1,2,4-Trimethylbenzene                   | 0.940   | 0.200 | --  | 4.62    | 0.983 | --  |           | 1               |
| Benzyl chloride                          | ND      | 0.200 | --  | ND      | 1.04  | --  |           | 1               |
| 1,3-Dichlorobenzene                      | ND      | 0.200 | --  | ND      | 1.20  | --  |           | 1               |
| 1,4-Dichlorobenzene                      | ND      | 0.200 | --  | ND      | 1.20  | --  |           | 1               |
| 1,2-Dichlorobenzene                      | ND      | 0.200 | --  | ND      | 1.20  | --  |           | 1               |
| 1,2,4-Trichlorobenzene                   | ND      | 0.200 | --  | ND      | 1.48  | --  |           | 1               |
| Hexachlorobutadiene                      | ND      | 0.200 | --  | ND      | 2.13  | --  |           | 1               |

| Internal Standard   | % Recovery | Qualifier | Acceptance Criteria |
|---------------------|------------|-----------|---------------------|
| 1,4-Difluorobenzene | 94         |           | 60-140              |
| Bromochloromethane  | 87         |           | 60-140              |
| chlorobenzene-d5    | 93         |           | 60-140              |



**Project Name:** 131 SUNNYSIDE BLVD**Lab Number:** L2243287**Project Number:** 30017762.00012**Report Date:** 08/25/22

### Method Blank Analysis Batch Quality Control

Analytical Method: 48,TO-15

Analytical Date: 08/23/22 15:03

| Parameter                                                                        | ppbV    |       |     | ug/m3   |       |     | Qualifier | Dilution Factor |
|----------------------------------------------------------------------------------|---------|-------|-----|---------|-------|-----|-----------|-----------------|
|                                                                                  | Results | RL    | MDL | Results | RL    | MDL |           |                 |
| Volatile Organics in Air - Mansfield Lab for sample(s): 01-02 Batch: WG1678705-4 |         |       |     |         |       |     |           |                 |
| Dichlorodifluoromethane                                                          | ND      | 0.200 | --  | ND      | 0.989 | --  |           | 1               |
| Chloromethane                                                                    | ND      | 0.200 | --  | ND      | 0.413 | --  |           | 1               |
| Freon-114                                                                        | ND      | 0.200 | --  | ND      | 1.40  | --  |           | 1               |
| Vinyl chloride                                                                   | ND      | 0.200 | --  | ND      | 0.511 | --  |           | 1               |
| 1,3-Butadiene                                                                    | ND      | 0.200 | --  | ND      | 0.442 | --  |           | 1               |
| Bromomethane                                                                     | ND      | 0.200 | --  | ND      | 0.777 | --  |           | 1               |
| Chloroethane                                                                     | ND      | 0.200 | --  | ND      | 0.528 | --  |           | 1               |
| Ethanol                                                                          | ND      | 5.00  | --  | ND      | 9.42  | --  |           | 1               |
| Vinyl bromide                                                                    | ND      | 0.200 | --  | ND      | 0.874 | --  |           | 1               |
| Acetone                                                                          | ND      | 1.00  | --  | ND      | 2.38  | --  |           | 1               |
| Trichlorofluoromethane                                                           | ND      | 0.200 | --  | ND      | 1.12  | --  |           | 1               |
| Isopropanol                                                                      | ND      | 0.500 | --  | ND      | 1.23  | --  |           | 1               |
| 1,1-Dichloroethene                                                               | ND      | 0.200 | --  | ND      | 0.793 | --  |           | 1               |
| Tertiary butyl Alcohol                                                           | ND      | 0.500 | --  | ND      | 1.52  | --  |           | 1               |
| Methylene chloride                                                               | ND      | 0.500 | --  | ND      | 1.74  | --  |           | 1               |
| 3-Chloropropene                                                                  | ND      | 0.200 | --  | ND      | 0.626 | --  |           | 1               |
| Carbon disulfide                                                                 | ND      | 0.200 | --  | ND      | 0.623 | --  |           | 1               |
| Freon-113                                                                        | ND      | 0.200 | --  | ND      | 1.53  | --  |           | 1               |
| trans-1,2-Dichloroethene                                                         | ND      | 0.200 | --  | ND      | 0.793 | --  |           | 1               |
| 1,1-Dichloroethane                                                               | ND      | 0.200 | --  | ND      | 0.809 | --  |           | 1               |
| Methyl tert butyl ether                                                          | ND      | 0.200 | --  | ND      | 0.721 | --  |           | 1               |
| 2-Butanone                                                                       | ND      | 0.500 | --  | ND      | 1.47  | --  |           | 1               |
| cis-1,2-Dichloroethene                                                           | ND      | 0.200 | --  | ND      | 0.793 | --  |           | 1               |
| Ethyl Acetate                                                                    | ND      | 0.500 | --  | ND      | 1.80  | --  |           | 1               |
| Chloroform                                                                       | ND      | 0.200 | --  | ND      | 0.977 | --  |           | 1               |



Project Name: 131 SUNNYSIDE BLVD

Lab Number: L2243287

Project Number: 30017762.00012

Report Date: 08/25/22

### Method Blank Analysis Batch Quality Control

Analytical Method: 48,TO-15

Analytical Date: 08/23/22 15:03

| Parameter                                                                        | ppbV    |       |     | ug/m3   |       |     | Qualifier | Dilution Factor |
|----------------------------------------------------------------------------------|---------|-------|-----|---------|-------|-----|-----------|-----------------|
|                                                                                  | Results | RL    | MDL | Results | RL    | MDL |           |                 |
| Volatile Organics in Air - Mansfield Lab for sample(s): 01-02 Batch: WG1678705-4 |         |       |     |         |       |     |           |                 |
| Tetrahydrofuran                                                                  | ND      | 0.500 | --  | ND      | 1.47  | --  |           | 1               |
| 1,2-Dichloroethane                                                               | ND      | 0.200 | --  | ND      | 0.809 | --  |           | 1               |
| n-Hexane                                                                         | ND      | 0.200 | --  | ND      | 0.705 | --  |           | 1               |
| 1,1,1-Trichloroethane                                                            | ND      | 0.200 | --  | ND      | 1.09  | --  |           | 1               |
| Benzene                                                                          | ND      | 0.200 | --  | ND      | 0.639 | --  |           | 1               |
| Carbon tetrachloride                                                             | ND      | 0.200 | --  | ND      | 1.26  | --  |           | 1               |
| Cyclohexane                                                                      | ND      | 0.200 | --  | ND      | 0.688 | --  |           | 1               |
| 1,2-Dichloropropane                                                              | ND      | 0.200 | --  | ND      | 0.924 | --  |           | 1               |
| Bromodichloromethane                                                             | ND      | 0.200 | --  | ND      | 1.34  | --  |           | 1               |
| 1,4-Dioxane                                                                      | ND      | 0.200 | --  | ND      | 0.721 | --  |           | 1               |
| Trichloroethene                                                                  | ND      | 0.200 | --  | ND      | 1.07  | --  |           | 1               |
| 2,2,4-Trimethylpentane                                                           | ND      | 0.200 | --  | ND      | 0.934 | --  |           | 1               |
| Heptane                                                                          | ND      | 0.200 | --  | ND      | 0.820 | --  |           | 1               |
| cis-1,3-Dichloropropene                                                          | ND      | 0.200 | --  | ND      | 0.908 | --  |           | 1               |
| 4-Methyl-2-pentanone                                                             | ND      | 0.500 | --  | ND      | 2.05  | --  |           | 1               |
| trans-1,3-Dichloropropene                                                        | ND      | 0.200 | --  | ND      | 0.908 | --  |           | 1               |
| 1,1,2-Trichloroethane                                                            | ND      | 0.200 | --  | ND      | 1.09  | --  |           | 1               |
| Toluene                                                                          | ND      | 0.200 | --  | ND      | 0.754 | --  |           | 1               |
| 2-Hexanone                                                                       | ND      | 0.200 | --  | ND      | 0.820 | --  |           | 1               |
| Dibromochloromethane                                                             | ND      | 0.200 | --  | ND      | 1.70  | --  |           | 1               |
| 1,2-Dibromoethane                                                                | ND      | 0.200 | --  | ND      | 1.54  | --  |           | 1               |
| Tetrachloroethene                                                                | ND      | 0.200 | --  | ND      | 1.36  | --  |           | 1               |
| Chlorobenzene                                                                    | ND      | 0.200 | --  | ND      | 0.921 | --  |           | 1               |
| Ethylbenzene                                                                     | ND      | 0.200 | --  | ND      | 0.869 | --  |           | 1               |
| p/m-Xylene                                                                       | ND      | 0.400 | --  | ND      | 1.74  | --  |           | 1               |



Project Name: 131 SUNNYSIDE BLVD

Lab Number: L2243287

Project Number: 30017762.00012

Report Date: 08/25/22

### Method Blank Analysis Batch Quality Control

Analytical Method: 48,TO-15

Analytical Date: 08/23/22 15:03

| Parameter                                                                        | ppbV    |       |     | ug/m3   |       |     | Qualifier | Dilution Factor |
|----------------------------------------------------------------------------------|---------|-------|-----|---------|-------|-----|-----------|-----------------|
|                                                                                  | Results | RL    | MDL | Results | RL    | MDL |           |                 |
| Volatile Organics in Air - Mansfield Lab for sample(s): 01-02 Batch: WG1678705-4 |         |       |     |         |       |     |           |                 |
| Bromoform                                                                        | ND      | 0.200 | --  | ND      | 2.07  | --  |           | 1               |
| Styrene                                                                          | ND      | 0.200 | --  | ND      | 0.852 | --  |           | 1               |
| 1,1,2,2-Tetrachloroethane                                                        | ND      | 0.200 | --  | ND      | 1.37  | --  |           | 1               |
| o-Xylene                                                                         | ND      | 0.200 | --  | ND      | 0.869 | --  |           | 1               |
| 4-Ethyltoluene                                                                   | ND      | 0.200 | --  | ND      | 0.983 | --  |           | 1               |
| 1,3,5-Trimethylbenzene                                                           | ND      | 0.200 | --  | ND      | 0.983 | --  |           | 1               |
| 1,2,4-Trimethylbenzene                                                           | ND      | 0.200 | --  | ND      | 0.983 | --  |           | 1               |
| Benzyl chloride                                                                  | ND      | 0.200 | --  | ND      | 1.04  | --  |           | 1               |
| 1,3-Dichlorobenzene                                                              | ND      | 0.200 | --  | ND      | 1.20  | --  |           | 1               |
| 1,4-Dichlorobenzene                                                              | ND      | 0.200 | --  | ND      | 1.20  | --  |           | 1               |
| 1,2-Dichlorobenzene                                                              | ND      | 0.200 | --  | ND      | 1.20  | --  |           | 1               |
| 1,2,4-Trichlorobenzene                                                           | ND      | 0.200 | --  | ND      | 1.48  | --  |           | 1               |
| Hexachlorobutadiene                                                              | ND      | 0.200 | --  | ND      | 2.13  | --  |           | 1               |

## Lab Control Sample Analysis

### Batch Quality Control

**Project Name:** 131 SUNNYSIDE BLVD

**Project Number:** 30017762.00012

**Lab Number:** L2243287

**Report Date:** 08/25/22

| Parameter                                                                               | LCS<br>%Recovery | Qual | LCSD<br>%Recovery | Qual | %Recovery<br>Limits | RPD | Qual | RPD<br>Limits |
|-----------------------------------------------------------------------------------------|------------------|------|-------------------|------|---------------------|-----|------|---------------|
| Volatile Organics in Air - Mansfield Lab Associated sample(s): 01-02 Batch: WG1678705-3 |                  |      |                   |      |                     |     |      |               |
| Dichlorodifluoromethane                                                                 | 86               |      | -                 |      | 70-130              | -   |      |               |
| Chloromethane                                                                           | 89               |      | -                 |      | 70-130              | -   |      |               |
| Freon-114                                                                               | 94               |      | -                 |      | 70-130              | -   |      |               |
| Vinyl chloride                                                                          | 90               |      | -                 |      | 70-130              | -   |      |               |
| 1,3-Butadiene                                                                           | 97               |      | -                 |      | 70-130              | -   |      |               |
| Bromomethane                                                                            | 94               |      | -                 |      | 70-130              | -   |      |               |
| Chloroethane                                                                            | 94               |      | -                 |      | 70-130              | -   |      |               |
| Ethanol                                                                                 | 96               |      | -                 |      | 40-160              | -   |      |               |
| Vinyl bromide                                                                           | 94               |      | -                 |      | 70-130              | -   |      |               |
| Acetone                                                                                 | 100              |      | -                 |      | 40-160              | -   |      |               |
| Trichlorofluoromethane                                                                  | 99               |      | -                 |      | 70-130              | -   |      |               |
| Isopropanol                                                                             | 94               |      | -                 |      | 40-160              | -   |      |               |
| 1,1-Dichloroethene                                                                      | 98               |      | -                 |      | 70-130              | -   |      |               |
| Tertiary butyl Alcohol                                                                  | 97               |      | -                 |      | 70-130              | -   |      |               |
| Methylene chloride                                                                      | 96               |      | -                 |      | 70-130              | -   |      |               |
| 3-Chloropropene                                                                         | 94               |      | -                 |      | 70-130              | -   |      |               |
| Carbon disulfide                                                                        | 74               |      | -                 |      | 70-130              | -   |      |               |
| Freon-113                                                                               | 81               |      | -                 |      | 70-130              | -   |      |               |
| trans-1,2-Dichloroethene                                                                | 94               |      | -                 |      | 70-130              | -   |      |               |
| 1,1-Dichloroethane                                                                      | 97               |      | -                 |      | 70-130              | -   |      |               |
| Methyl tert butyl ether                                                                 | 102              |      | -                 |      | 70-130              | -   |      |               |
| 2-Butanone                                                                              | 98               |      | -                 |      | 70-130              | -   |      |               |
| cis-1,2-Dichloroethene                                                                  | 98               |      | -                 |      | 70-130              | -   |      |               |

## Lab Control Sample Analysis

### Batch Quality Control

**Project Name:** 131 SUNNYSIDE BLVD

**Lab Number:** L2243287

**Project Number:** 30017762.00012

**Report Date:** 08/25/22

| Parameter                                                                               | LCS<br>%Recovery | Qual | LCSD<br>%Recovery | Qual | %Recovery<br>Limits | RPD | Qual | RPD<br>Limits |
|-----------------------------------------------------------------------------------------|------------------|------|-------------------|------|---------------------|-----|------|---------------|
| Volatile Organics in Air - Mansfield Lab Associated sample(s): 01-02 Batch: WG1678705-3 |                  |      |                   |      |                     |     |      |               |
| Ethyl Acetate                                                                           | 102              |      | -                 |      | 70-130              | -   |      |               |
| Chloroform                                                                              | 102              |      | -                 |      | 70-130              | -   |      |               |
| Tetrahydrofuran                                                                         | 96               |      | -                 |      | 70-130              | -   |      |               |
| 1,2-Dichloroethane                                                                      | 93               |      | -                 |      | 70-130              | -   |      |               |
| n-Hexane                                                                                | 101              |      | -                 |      | 70-130              | -   |      |               |
| 1,1,1-Trichloroethane                                                                   | 102              |      | -                 |      | 70-130              | -   |      |               |
| Benzene                                                                                 | 100              |      | -                 |      | 70-130              | -   |      |               |
| Carbon tetrachloride                                                                    | 106              |      | -                 |      | 70-130              | -   |      |               |
| Cyclohexane                                                                             | 102              |      | -                 |      | 70-130              | -   |      |               |
| 1,2-Dichloropropane                                                                     | 101              |      | -                 |      | 70-130              | -   |      |               |
| Bromodichloromethane                                                                    | 103              |      | -                 |      | 70-130              | -   |      |               |
| 1,4-Dioxane                                                                             | 96               |      | -                 |      | 70-130              | -   |      |               |
| Trichloroethene                                                                         | 101              |      | -                 |      | 70-130              | -   |      |               |
| 2,2,4-Trimethylpentane                                                                  | 103              |      | -                 |      | 70-130              | -   |      |               |
| Heptane                                                                                 | 104              |      | -                 |      | 70-130              | -   |      |               |
| cis-1,3-Dichloropropene                                                                 | 106              |      | -                 |      | 70-130              | -   |      |               |
| 4-Methyl-2-pentanone                                                                    | 107              |      | -                 |      | 70-130              | -   |      |               |
| trans-1,3-Dichloropropene                                                               | 91               |      | -                 |      | 70-130              | -   |      |               |
| 1,1,2-Trichloroethane                                                                   | 100              |      | -                 |      | 70-130              | -   |      |               |
| Toluene                                                                                 | 99               |      | -                 |      | 70-130              | -   |      |               |
| 2-Hexanone                                                                              | 102              |      | -                 |      | 70-130              | -   |      |               |
| Dibromochloromethane                                                                    | 103              |      | -                 |      | 70-130              | -   |      |               |
| 1,2-Dibromoethane                                                                       | 99               |      | -                 |      | 70-130              | -   |      |               |

## Lab Control Sample Analysis

### Batch Quality Control

**Project Name:** 131 SUNNYSIDE BLVD

**Project Number:** 30017762.00012

**Lab Number:** L2243287

**Report Date:** 08/25/22

| Parameter                                                                               | LCS<br>%Recovery | Qual | LCSD<br>%Recovery | Qual | %Recovery<br>Limits | RPD | Qual | RPD<br>Limits |
|-----------------------------------------------------------------------------------------|------------------|------|-------------------|------|---------------------|-----|------|---------------|
| Volatile Organics in Air - Mansfield Lab Associated sample(s): 01-02 Batch: WG1678705-3 |                  |      |                   |      |                     |     |      |               |
| Tetrachloroethene                                                                       | 103              |      | -                 |      | 70-130              | -   |      |               |
| Chlorobenzene                                                                           | 103              |      | -                 |      | 70-130              | -   |      |               |
| Ethylbenzene                                                                            | 102              |      | -                 |      | 70-130              | -   |      |               |
| p/m-Xylene                                                                              | 104              |      | -                 |      | 70-130              | -   |      |               |
| Bromoform                                                                               | 103              |      | -                 |      | 70-130              | -   |      |               |
| Styrene                                                                                 | 102              |      | -                 |      | 70-130              | -   |      |               |
| 1,1,2,2-Tetrachloroethane                                                               | 101              |      | -                 |      | 70-130              | -   |      |               |
| o-Xylene                                                                                | 106              |      | -                 |      | 70-130              | -   |      |               |
| 4-Ethyltoluene                                                                          | 100              |      | -                 |      | 70-130              | -   |      |               |
| 1,3,5-Trimethylbenzene                                                                  | 103              |      | -                 |      | 70-130              | -   |      |               |
| 1,2,4-Trimethylbenzene                                                                  | 103              |      | -                 |      | 70-130              | -   |      |               |
| Benzyl chloride                                                                         | 95               |      | -                 |      | 70-130              | -   |      |               |
| 1,3-Dichlorobenzene                                                                     | 102              |      | -                 |      | 70-130              | -   |      |               |
| 1,4-Dichlorobenzene                                                                     | 98               |      | -                 |      | 70-130              | -   |      |               |
| 1,2-Dichlorobenzene                                                                     | 94               |      | -                 |      | 70-130              | -   |      |               |
| 1,2,4-Trichlorobenzene                                                                  | 71               |      | -                 |      | 70-130              | -   |      |               |
| Hexachlorobutadiene                                                                     | 77               |      | -                 |      | 70-130              | -   |      |               |

**Project Name:** 131 SUNNYSIDE BLVD**Lab Number:** L2243287**Project Number:** 30017762.00012**Report Date:** 08/25/22**Sample Receipt and Container Information**

Were project specific reporting limits specified?

YES

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

NA                              Absent

**Container Information**

| <b>Container ID</b> | <b>Container Type</b>                    | <b>Cooler</b> | <b>Initial<br/>pH</b> | <b>Final<br/>pH</b> | <b>Temp<br/>deg C</b> | <b>Pres</b> | <b>Seal</b> | <b>Frozen<br/>Date/Time</b> | <b>Analysis(*)</b> |
|---------------------|------------------------------------------|---------------|-----------------------|---------------------|-----------------------|-------------|-------------|-----------------------------|--------------------|
| L2243287-01A        | Tedlar Bag 5 liter-Polypropylene Fitting | NA            | NA                    |                     |                       | Y           | Absent      |                             | TO15-LL(30)        |
| L2243287-01B        | Tedlar Bag 5 liter-Polypropylene Fitting | NA            | NA                    |                     |                       | Y           | Absent      |                             | TO15-LL(30)        |
| L2243287-01X        | Tedlar Bag 5 liter-Polypropylene Fitting | NA            | NA                    |                     |                       | Y           | Absent      |                             | TO15-LL(30)        |
| L2243287-02A        | Tedlar Bag 5 liter-Polypropylene Fitting | NA            | NA                    |                     |                       | Y           | Absent      |                             | TO15-LL(30)        |
| L2243287-02B        | Tedlar Bag 5 liter-Polypropylene Fitting | NA            | NA                    |                     |                       | Y           | Absent      |                             | TO15-LL(30)        |
| L2243287-02X        | Tedlar Bag 5 liter-Polypropylene Fitting | NA            | NA                    |                     |                       | Y           | Absent      |                             | TO15-LL(30)        |

**Project Name:** 131 SUNNYSIDE BLVD  
**Project Number:** 30017762.00012

**Lab Number:** L2243287  
**Report Date:** 08/25/22

## GLOSSARY

### Acronyms

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

Report Format: Data Usability Report



**Project Name:** 131 SUNNYSIDE BLVD  
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**Lab Number:** L2243287  
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## Footnotes

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

## Terms

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

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

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

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

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

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

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

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

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

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

## Data Qualifiers

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

**Report Format:** Data Usability Report



**Project Name:** 131 SUNNYSIDE BLVD**Lab Number:** L2243287**Project Number:** 30017762.00012**Report Date:** 08/25/22**Data Qualifiers**

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

**Project Name:** 131 SUNNYSIDE BLVD  
**Project Number:** 30017762.00012

**Lab Number:** L2243287  
**Report Date:** 08/25/22

## REFERENCES

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

## LIMITATION OF LIABILITIES

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

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



## Certification Information

The following analytes are not included in our Primary NELAP Scope of Accreditation:

### Westborough Facility

**EPA 624/624.1:** m/p-xylene, o-xylene, Naphthalene

**EPA 625/625.1:** alpha-Terpineol

**EPA 8260C/8260D:** NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene, Azobenzene; SCM: Iodomethane (methyl iodide), 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.

**EPA 8270D/8270E:** NPW: Dimethylnaphthalene, 1,4-Diphenylhydrazine, alpha-Terpineol; SCM: Dimethylnaphthalene, 1,4-Diphenylhydrazine.

**SM4500:** NPW: Amenable Cyanide; SCM: Total Phosphorus, TKN, NO<sub>2</sub>, NO<sub>3</sub>.

### Mansfield Facility

**SM 2540D:** TSS

**EPA 8082A:** NPW: PCB: 1, 5, 31, 87, 101, 110, 141, 151, 153, 180, 183, 187.

**EPA TO-15:** Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene,

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

**Biological Tissue Matrix:** EPA 3050B

The following analytes are included in our Massachusetts DEP Scope of Accreditation

### Westborough Facility:

#### Drinking Water

**EPA 300.0:** Chloride, Nitrate-N, Fluoride, Sulfate; **EPA 353.2:** Nitrate-N, Nitrite-N; **SM4500NO3-F:** Nitrate-N, Nitrite-N; **SM4500F-C, SM4500CN-CE,**

**EPA 180.1, SM2130B, SM4500CI-D, SM2320B, SM2540C, SM4500H-B, SM4500NO2-B**

**EPA 332:** Perchlorate; **EPA 524.2:** THMs and VOCs; **EPA 504.1:** EDB, DBCP.

**Microbiology:** **SM9215B; SM9223-P/A, SM9223B-Colilert-QT, SM9222D.**

#### Non-Potable Water

**SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2320B, SM4500CL-E, SM4500F-BC, SM4500NH3-BH:** Ammonia-N and Kjeldahl-N, **EPA 350.1:** Ammonia-N, **LACHAT 10-107-06-1-B:** Ammonia-N, **EPA 351.1, SM4500NO3-F, EPA 353.2:** Nitrate-N, **SM4500P-E, SM4500P-B, E, SM4500SO4-E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, EPA 420.1, SM4500-CN-CE, SM2540D, EPA 300:** Chloride, Sulfate, Nitrate.

**EPA 624.1:** Volatile Halocarbons & Aromatics,

**EPA 608.3:** Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs

**EPA 625.1:** SVOC (Acid/Base/Neutral Extractables), **EPA 600/4-81-045:** PCB-Oil.

**Microbiology:** **SM9223B-Colilert-QT; Enterolert-QT, SM9221E, EPA 1600, EPA 1603, SM9222D.**

### Mansfield Facility:

#### Drinking Water

**EPA 200.7:** Al, Ba, Cd, Cr, Cu, Fe, Mn, Ni, Na, Ag, Ca, Zn. **EPA 200.8:** Al, Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn. **EPA 245.1 Hg.**

**EPA 522, EPA 537.1.**

#### Non-Potable Water

**EPA 200.7:** Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, TL, Ti, V, Zn.

**EPA 200.8:** Al, Sb, As, Be, Cd, Cr, Cu, Fe, Pb, Mn, Ni, K, Se, Ag, Na, TL, Zn.

**EPA 245.1 Hg.**

**SM2340B**

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

ALPHA Job # L2243287

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## ANALYTICAL REPORT

|                 |                                                                                            |
|-----------------|--------------------------------------------------------------------------------------------|
| Lab Number:     | L2244639                                                                                   |
| Client:         | Arcadis of New York, Inc.<br>Two Huntington Quadrangle<br>Suite 1S10<br>Melville, NY 11747 |
| ATTN:           | Steven Feldman                                                                             |
| Phone:          | (631) 249-7600                                                                             |
| Project Name:   | 131 SUNNYSIDE BLVD                                                                         |
| Project Number: | 30017762.00012                                                                             |
| Report Date:    | 08/29/22                                                                                   |

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Certifications & Approvals: MA (M-MA030), NH NELAP (2062), CT (PH-0141), DoD (L2474), FL (E87814), IL (200081), LA (85084), ME (MA00030), MD (350), NJ (MA015), NY (11627), NC (685), OH (CL106), PA (68-02089), RI (LAO00299), TX (T104704419), VT (VT-0015), VA (460194), WA (C954), US Army Corps of Engineers, USDA (Permit #P330-17-00150), USFWS (Permit #206964).

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508-822-9300 (Fax) 508-822-3288 800-624-9220 - [www.alphalab.com](http://www.alphalab.com)



**Project Name:** 131 SUNNYSIDE BLVD  
**Project Number:** 30017762.00012

**Lab Number:** L2244639  
**Report Date:** 08/29/22

| <b>Alpha<br/>Sample ID</b> | <b>Client ID</b> | <b>Matrix</b> | <b>Sample<br/>Location</b> | <b>Collection<br/>Date/Time</b> | <b>Receive Date</b> |
|----------------------------|------------------|---------------|----------------------------|---------------------------------|---------------------|
| L2244639-01                | SVE-1            | SOIL_VAPOR    | PLAINVIEW, NY              | 08/18/22 11:10                  | 08/18/22            |
| L2244639-02                | SVE-2            | SOIL_VAPOR    | PLAINVIEW, NY              | 08/18/22 11:25                  | 08/18/22            |

**Project Name:** 131 SUNNYSIDE BLVD  
**Project Number:** 30017762.00012

**Lab Number:** L2244639  
**Report Date:** 08/29/22

### Case Narrative

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

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

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

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

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

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

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**Project Name:** 131 SUNNYSIDE BLVD  
**Project Number:** 30017762.00012

**Lab Number:** L2244639  
**Report Date:** 08/29/22

**Case Narrative (continued)**

Volatile Organics in Air

L2244639-01D: The sample has elevated detection limits due to the dilution required by the elevated concentrations of target compounds in the sample.

L2244639-01D,02: Samples were transferred from a Tedlar bag into a fused silica lined canister upon receipt in order to extend the holding time for analysis.

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

Authorized Signature:  Christopher J. Anderson

Title: Technical Director/Representative

Date: 08/29/22

**AIR**

**Project Name:** 131 SUNNYSIDE BLVD**Project Number:** 30017762.00012**Lab Number:** L2244639**Report Date:** 08/29/22**SAMPLE RESULTS**

Lab ID: L2244639-01 D

Client ID: SVE-1

Sample Location: PLAINVIEW, NY

Date Collected: 08/18/22 11:10

Date Received: 08/18/22

Field Prep: Not Specified

Sample Depth:

Matrix: Soil\_Vapor

Analytical Method: 48,TO-15

Analytical Date: 08/25/22 20:34

Analyst: TS

| Parameter                                | ppbV    |      |     | ug/m3   |      |     | Qualifier | Dilution Factor |
|------------------------------------------|---------|------|-----|---------|------|-----|-----------|-----------------|
|                                          | Results | RL   | MDL | Results | RL   | MDL |           |                 |
| Volatile Organics in Air - Mansfield Lab |         |      |     |         |      |     |           |                 |
| Dichlorodifluoromethane                  | ND      | 4.00 | --  | ND      | 19.8 | --  |           | 20              |
| Chloromethane                            | ND      | 4.00 | --  | ND      | 8.26 | --  |           | 20              |
| Freon-114                                | ND      | 4.00 | --  | ND      | 28.0 | --  |           | 20              |
| Vinyl chloride                           | ND      | 4.00 | --  | ND      | 10.2 | --  |           | 20              |
| 1,3-Butadiene                            | ND      | 4.00 | --  | ND      | 8.85 | --  |           | 20              |
| Bromomethane                             | ND      | 4.00 | --  | ND      | 15.5 | --  |           | 20              |
| Chloroethane                             | ND      | 4.00 | --  | ND      | 10.6 | --  |           | 20              |
| Ethanol                                  | ND      | 100  | --  | ND      | 188  | --  |           | 20              |
| Vinyl bromide                            | ND      | 4.00 | --  | ND      | 17.5 | --  |           | 20              |
| Acetone                                  | ND      | 20.0 | --  | ND      | 47.5 | --  |           | 20              |
| Trichlorofluoromethane                   | ND      | 4.00 | --  | ND      | 22.5 | --  |           | 20              |
| Isopropanol                              | 13.5    | 10.0 | --  | 33.2    | 24.6 | --  |           | 20              |
| 1,1-Dichloroethene                       | ND      | 4.00 | --  | ND      | 15.9 | --  |           | 20              |
| Tertiary butyl Alcohol                   | ND      | 10.0 | --  | ND      | 30.3 | --  |           | 20              |
| Methylene chloride                       | ND      | 10.0 | --  | ND      | 34.7 | --  |           | 20              |
| 3-Chloropropene                          | ND      | 4.00 | --  | ND      | 12.5 | --  |           | 20              |
| Carbon disulfide                         | ND      | 4.00 | --  | ND      | 12.5 | --  |           | 20              |
| Freon-113                                | ND      | 4.00 | --  | ND      | 30.7 | --  |           | 20              |
| trans-1,2-Dichloroethene                 | ND      | 4.00 | --  | ND      | 15.9 | --  |           | 20              |
| 1,1-Dichloroethane                       | ND      | 4.00 | --  | ND      | 16.2 | --  |           | 20              |
| Methyl tert butyl ether                  | ND      | 4.00 | --  | ND      | 14.4 | --  |           | 20              |
| 2-Butanone                               | ND      | 10.0 | --  | ND      | 29.5 | --  |           | 20              |
| cis-1,2-Dichloroethene                   | 12.6    | 4.00 | --  | 50.0    | 15.9 | --  |           | 20              |



**Project Name:** 131 SUNNYSIDE BLVD**Lab Number:** L2244639**Project Number:** 30017762.00012**Report Date:** 08/29/22**SAMPLE RESULTS**

Lab ID: L2244639-01 D

Client ID: SVE-1

Sample Location: PLAINVIEW, NY

Date Collected: 08/18/22 11:10

Date Received: 08/18/22

Field Prep: Not Specified

Sample Depth:

| Parameter                                | ppbV    |      |     | ug/m3   |      |     | Qualifier | Dilution Factor |
|------------------------------------------|---------|------|-----|---------|------|-----|-----------|-----------------|
|                                          | Results | RL   | MDL | Results | RL   | MDL |           |                 |
| Volatile Organics in Air - Mansfield Lab |         |      |     |         |      |     |           |                 |
| Ethyl Acetate                            | ND      | 10.0 | --  | ND      | 36.0 | --  |           | 20              |
| Chloroform                               | ND      | 4.00 | --  | ND      | 19.5 | --  |           | 20              |
| Tetrahydrofuran                          | 20.3    | 10.0 | --  | 59.9    | 29.5 | --  |           | 20              |
| 1,2-Dichloroethane                       | ND      | 4.00 | --  | ND      | 16.2 | --  |           | 20              |
| n-Hexane                                 | ND      | 4.00 | --  | ND      | 14.1 | --  |           | 20              |
| 1,1,1-Trichloroethane                    | 4.18    | 4.00 | --  | 22.8    | 21.8 | --  |           | 20              |
| Benzene                                  | ND      | 4.00 | --  | ND      | 12.8 | --  |           | 20              |
| Carbon tetrachloride                     | ND      | 4.00 | --  | ND      | 25.2 | --  |           | 20              |
| Cyclohexane                              | ND      | 4.00 | --  | ND      | 13.8 | --  |           | 20              |
| 1,2-Dichloropropane                      | ND      | 4.00 | --  | ND      | 18.5 | --  |           | 20              |
| Bromodichloromethane                     | ND      | 4.00 | --  | ND      | 26.8 | --  |           | 20              |
| 1,4-Dioxane                              | ND      | 4.00 | --  | ND      | 14.4 | --  |           | 20              |
| Trichloroethene                          | 1500    | 4.00 | --  | 8060    | 21.5 | --  |           | 20              |
| 2,2,4-Trimethylpentane                   | ND      | 4.00 | --  | ND      | 18.7 | --  |           | 20              |
| Heptane                                  | ND      | 4.00 | --  | ND      | 16.4 | --  |           | 20              |
| cis-1,3-Dichloropropene                  | ND      | 4.00 | --  | ND      | 18.2 | --  |           | 20              |
| 4-Methyl-2-pentanone                     | ND      | 10.0 | --  | ND      | 41.0 | --  |           | 20              |
| trans-1,3-Dichloropropene                | ND      | 4.00 | --  | ND      | 18.2 | --  |           | 20              |
| 1,1,2-Trichloroethane                    | ND      | 4.00 | --  | ND      | 21.8 | --  |           | 20              |
| Toluene                                  | ND      | 4.00 | --  | ND      | 15.1 | --  |           | 20              |
| 2-Hexanone                               | ND      | 4.00 | --  | ND      | 16.4 | --  |           | 20              |
| Dibromochloromethane                     | ND      | 4.00 | --  | ND      | 34.1 | --  |           | 20              |
| 1,2-Dibromoethane                        | ND      | 4.00 | --  | ND      | 30.7 | --  |           | 20              |
| Tetrachloroethene                        | 15.4    | 4.00 | --  | 104     | 27.1 | --  |           | 20              |
| Chlorobenzene                            | ND      | 4.00 | --  | ND      | 18.4 | --  |           | 20              |
| Ethylbenzene                             | ND      | 4.00 | --  | ND      | 17.4 | --  |           | 20              |



**Project Name:** 131 SUNNYSIDE BLVD**Lab Number:** L2244639**Project Number:** 30017762.00012**Report Date:** 08/29/22**SAMPLE RESULTS**

Lab ID: L2244639-01 D

Client ID: SVE-1

Sample Location: PLAINVIEW, NY

Date Collected: 08/18/22 11:10

Date Received: 08/18/22

Field Prep: Not Specified

Sample Depth:

| Parameter                                | ppbV    |      |     | ug/m3   |      |     | Qualifier | Dilution Factor |
|------------------------------------------|---------|------|-----|---------|------|-----|-----------|-----------------|
|                                          | Results | RL   | MDL | Results | RL   | MDL |           |                 |
| Volatile Organics in Air - Mansfield Lab |         |      |     |         |      |     |           |                 |
| p/m-Xylene                               | ND      | 8.00 | --  | ND      | 34.7 | --  |           | 20              |
| Bromoform                                | ND      | 4.00 | --  | ND      | 41.4 | --  |           | 20              |
| Styrene                                  | ND      | 4.00 | --  | ND      | 17.0 | --  |           | 20              |
| 1,1,2,2-Tetrachloroethane                | ND      | 4.00 | --  | ND      | 27.5 | --  |           | 20              |
| o-Xylene                                 | ND      | 4.00 | --  | ND      | 17.4 | --  |           | 20              |
| 4-Ethyltoluene                           | ND      | 4.00 | --  | ND      | 19.7 | --  |           | 20              |
| 1,3,5-Trimethylbenzene                   | ND      | 4.00 | --  | ND      | 19.7 | --  |           | 20              |
| 1,2,4-Trimethylbenzene                   | ND      | 4.00 | --  | ND      | 19.7 | --  |           | 20              |
| Benzyl chloride                          | ND      | 4.00 | --  | ND      | 20.7 | --  |           | 20              |
| 1,3-Dichlorobenzene                      | ND      | 4.00 | --  | ND      | 24.0 | --  |           | 20              |
| 1,4-Dichlorobenzene                      | ND      | 4.00 | --  | ND      | 24.0 | --  |           | 20              |
| 1,2-Dichlorobenzene                      | ND      | 4.00 | --  | ND      | 24.0 | --  |           | 20              |
| 1,2,4-Trichlorobenzene                   | ND      | 4.00 | --  | ND      | 29.7 | --  |           | 20              |
| Hexachlorobutadiene                      | ND      | 4.00 | --  | ND      | 42.7 | --  |           | 20              |

| Internal Standard   | % Recovery | Qualifier | Acceptance Criteria |
|---------------------|------------|-----------|---------------------|
| 1,4-Difluorobenzene | 95         |           | 60-140              |
| Bromochloromethane  | 94         |           | 60-140              |
| chlorobenzene-d5    | 94         |           | 60-140              |



**Project Name:** 131 SUNNYSIDE BLVD**Lab Number:** L2244639**Project Number:** 30017762.00012**Report Date:** 08/29/22**SAMPLE RESULTS**

Lab ID: L2244639-02  
 Client ID: SVE-2  
 Sample Location: PLAINVIEW, NY

Date Collected: 08/18/22 11:25  
 Date Received: 08/18/22  
 Field Prep: Not Specified

Sample Depth:  
 Matrix: Soil\_Vapor  
 Analytical Method: 48,TO-15  
 Analytical Date: 08/25/22 21:05  
 Analyst: TS

| Parameter                                | ppbV    |       |     | ug/m3   |       |     | Qualifier | Dilution Factor |
|------------------------------------------|---------|-------|-----|---------|-------|-----|-----------|-----------------|
|                                          | Results | RL    | MDL | Results | RL    | MDL |           |                 |
| Volatile Organics in Air - Mansfield Lab |         |       |     |         |       |     |           |                 |
| Dichlorodifluoromethane                  | 0.397   | 0.200 | --  | 1.96    | 0.989 | --  |           | 1               |
| Chloromethane                            | 0.206   | 0.200 | --  | 0.425   | 0.413 | --  |           | 1               |
| Freon-114                                | ND      | 0.200 | --  | ND      | 1.40  | --  |           | 1               |
| Vinyl chloride                           | ND      | 0.200 | --  | ND      | 0.511 | --  |           | 1               |
| 1,3-Butadiene                            | ND      | 0.200 | --  | ND      | 0.442 | --  |           | 1               |
| Bromomethane                             | ND      | 0.200 | --  | ND      | 0.777 | --  |           | 1               |
| Chloroethane                             | ND      | 0.200 | --  | ND      | 0.528 | --  |           | 1               |
| Ethanol                                  | 16.8    | 5.00  | --  | 31.7    | 9.42  | --  |           | 1               |
| Vinyl bromide                            | ND      | 0.200 | --  | ND      | 0.874 | --  |           | 1               |
| Acetone                                  | 6.20    | 1.00  | --  | 14.7    | 2.38  | --  |           | 1               |
| Trichlorofluoromethane                   | 0.218   | 0.200 | --  | 1.23    | 1.12  | --  |           | 1               |
| Isopropanol                              | 1.12    | 0.500 | --  | 2.75    | 1.23  | --  |           | 1               |
| 1,1-Dichloroethene                       | ND      | 0.200 | --  | ND      | 0.793 | --  |           | 1               |
| Tertiary butyl Alcohol                   | 13.1    | 0.500 | --  | 39.7    | 1.52  | --  |           | 1               |
| Methylene chloride                       | ND      | 0.500 | --  | ND      | 1.74  | --  |           | 1               |
| 3-Chloropropene                          | ND      | 0.200 | --  | ND      | 0.626 | --  |           | 1               |
| Carbon disulfide                         | 0.405   | 0.200 | --  | 1.26    | 0.623 | --  |           | 1               |
| Freon-113                                | 0.624   | 0.200 | --  | 4.78    | 1.53  | --  |           | 1               |
| trans-1,2-Dichloroethene                 | ND      | 0.200 | --  | ND      | 0.793 | --  |           | 1               |
| 1,1-Dichloroethane                       | ND      | 0.200 | --  | ND      | 0.809 | --  |           | 1               |
| Methyl tert butyl ether                  | ND      | 0.200 | --  | ND      | 0.721 | --  |           | 1               |
| 2-Butanone                               | 1.67    | 0.500 | --  | 4.93    | 1.47  | --  |           | 1               |
| cis-1,2-Dichloroethene                   | 3.35    | 0.200 | --  | 13.3    | 0.793 | --  |           | 1               |



**Project Name:** 131 SUNNYSIDE BLVD**Lab Number:** L2244639**Project Number:** 30017762.00012**Report Date:** 08/29/22**SAMPLE RESULTS**

Lab ID: L2244639-02  
 Client ID: SVE-2  
 Sample Location: PLAINVIEW, NY

Date Collected: 08/18/22 11:25  
 Date Received: 08/18/22  
 Field Prep: Not Specified

Sample Depth:

| Parameter                                | ppbV    |       |     | ug/m3   |       |     | Qualifier | Dilution Factor |
|------------------------------------------|---------|-------|-----|---------|-------|-----|-----------|-----------------|
|                                          | Results | RL    | MDL | Results | RL    | MDL |           |                 |
| Volatile Organics in Air - Mansfield Lab |         |       |     |         |       |     |           |                 |
| Ethyl Acetate                            | ND      | 0.500 | --  | ND      | 1.80  | --  |           | 1               |
| Chloroform                               | ND      | 0.200 | --  | ND      | 0.977 | --  |           | 1               |
| Tetrahydrofuran                          | 2.23    | 0.500 | --  | 6.58    | 1.47  | --  |           | 1               |
| 1,2-Dichloroethane                       | ND      | 0.200 | --  | ND      | 0.809 | --  |           | 1               |
| n-Hexane                                 | 1.45    | 0.200 | --  | 5.11    | 0.705 | --  |           | 1               |
| 1,1,1-Trichloroethane                    | ND      | 0.200 | --  | ND      | 1.09  | --  |           | 1               |
| Benzene                                  | 0.346   | 0.200 | --  | 1.11    | 0.639 | --  |           | 1               |
| Carbon tetrachloride                     | ND      | 0.200 | --  | ND      | 1.26  | --  |           | 1               |
| Cyclohexane                              | 0.249   | 0.200 | --  | 0.857   | 0.688 | --  |           | 1               |
| 1,2-Dichloropropane                      | ND      | 0.200 | --  | ND      | 0.924 | --  |           | 1               |
| Bromodichloromethane                     | ND      | 0.200 | --  | ND      | 1.34  | --  |           | 1               |
| 1,4-Dioxane                              | ND      | 0.200 | --  | ND      | 0.721 | --  |           | 1               |
| Trichloroethene                          | 24.6    | 0.200 | --  | 132     | 1.07  | --  |           | 1               |
| 2,2,4-Trimethylpentane                   | 0.309   | 0.200 | --  | 1.44    | 0.934 | --  |           | 1               |
| Heptane                                  | ND      | 0.200 | --  | ND      | 0.820 | --  |           | 1               |
| cis-1,3-Dichloropropene                  | ND      | 0.200 | --  | ND      | 0.908 | --  |           | 1               |
| 4-Methyl-2-pentanone                     | ND      | 0.500 | --  | ND      | 2.05  | --  |           | 1               |
| trans-1,3-Dichloropropene                | ND      | 0.200 | --  | ND      | 0.908 | --  |           | 1               |
| 1,1,2-Trichloroethane                    | ND      | 0.200 | --  | ND      | 1.09  | --  |           | 1               |
| Toluene                                  | 1.37    | 0.200 | --  | 5.16    | 0.754 | --  |           | 1               |
| 2-Hexanone                               | ND      | 0.200 | --  | ND      | 0.820 | --  |           | 1               |
| Dibromochloromethane                     | ND      | 0.200 | --  | ND      | 1.70  | --  |           | 1               |
| 1,2-Dibromoethane                        | ND      | 0.200 | --  | ND      | 1.54  | --  |           | 1               |
| Tetrachloroethene                        | 3.17    | 0.200 | --  | 21.5    | 1.36  | --  |           | 1               |
| Chlorobenzene                            | ND      | 0.200 | --  | ND      | 0.921 | --  |           | 1               |
| Ethylbenzene                             | 0.289   | 0.200 | --  | 1.26    | 0.869 | --  |           | 1               |



**Project Name:** 131 SUNNYSIDE BLVD**Lab Number:** L2244639**Project Number:** 30017762.00012**Report Date:** 08/29/22**SAMPLE RESULTS**

Lab ID: L2244639-02  
 Client ID: SVE-2  
 Sample Location: PLAINVIEW, NY

Date Collected: 08/18/22 11:25  
 Date Received: 08/18/22  
 Field Prep: Not Specified

Sample Depth:

| Parameter                                | ppbV    |       |     | ug/m3   |       |     | Qualifier | Dilution Factor |
|------------------------------------------|---------|-------|-----|---------|-------|-----|-----------|-----------------|
|                                          | Results | RL    | MDL | Results | RL    | MDL |           |                 |
| Volatile Organics in Air - Mansfield Lab |         |       |     |         |       |     |           |                 |
| p/m-Xylene                               | 1.29    | 0.400 | --  | 5.60    | 1.74  | --  |           | 1               |
| Bromoform                                | ND      | 0.200 | --  | ND      | 2.07  | --  |           | 1               |
| Styrene                                  | ND      | 0.200 | --  | ND      | 0.852 | --  |           | 1               |
| 1,1,2,2-Tetrachloroethane                | ND      | 0.200 | --  | ND      | 1.37  | --  |           | 1               |
| o-Xylene                                 | 0.524   | 0.200 | --  | 2.28    | 0.869 | --  |           | 1               |
| 4-Ethyltoluene                           | ND      | 0.200 | --  | ND      | 0.983 | --  |           | 1               |
| 1,3,5-Trimethylbenzene                   | ND      | 0.200 | --  | ND      | 0.983 | --  |           | 1               |
| 1,2,4-Trimethylbenzene                   | 0.432   | 0.200 | --  | 2.12    | 0.983 | --  |           | 1               |
| Benzyl chloride                          | ND      | 0.200 | --  | ND      | 1.04  | --  |           | 1               |
| 1,3-Dichlorobenzene                      | ND      | 0.200 | --  | ND      | 1.20  | --  |           | 1               |
| 1,4-Dichlorobenzene                      | ND      | 0.200 | --  | ND      | 1.20  | --  |           | 1               |
| 1,2-Dichlorobenzene                      | ND      | 0.200 | --  | ND      | 1.20  | --  |           | 1               |
| 1,2,4-Trichlorobenzene                   | ND      | 0.200 | --  | ND      | 1.48  | --  |           | 1               |
| Hexachlorobutadiene                      | ND      | 0.200 | --  | ND      | 2.13  | --  |           | 1               |

| Internal Standard   | % Recovery | Qualifier | Acceptance Criteria |
|---------------------|------------|-----------|---------------------|
| 1,4-Difluorobenzene | 91         |           | 60-140              |
| Bromochloromethane  | 90         |           | 60-140              |
| chlorobenzene-d5    | 90         |           | 60-140              |



Project Name: 131 SUNNYSIDE BLVD

Lab Number: L2244639

Project Number: 30017762.00012

Report Date: 08/29/22

### Method Blank Analysis Batch Quality Control

Analytical Method: 48,TO-15

Analytical Date: 08/25/22 14:49

| Parameter                                                                        | ppbV    |       |     | ug/m3   |       |     | Qualifier | Dilution Factor |
|----------------------------------------------------------------------------------|---------|-------|-----|---------|-------|-----|-----------|-----------------|
|                                                                                  | Results | RL    | MDL | Results | RL    | MDL |           |                 |
| Volatile Organics in Air - Mansfield Lab for sample(s): 01-02 Batch: WG1679779-4 |         |       |     |         |       |     |           |                 |
| Dichlorodifluoromethane                                                          | ND      | 0.200 | --  | ND      | 0.989 | --  |           | 1               |
| Chloromethane                                                                    | ND      | 0.200 | --  | ND      | 0.413 | --  |           | 1               |
| Freon-114                                                                        | ND      | 0.200 | --  | ND      | 1.40  | --  |           | 1               |
| Vinyl chloride                                                                   | ND      | 0.200 | --  | ND      | 0.511 | --  |           | 1               |
| 1,3-Butadiene                                                                    | ND      | 0.200 | --  | ND      | 0.442 | --  |           | 1               |
| Bromomethane                                                                     | ND      | 0.200 | --  | ND      | 0.777 | --  |           | 1               |
| Chloroethane                                                                     | ND      | 0.200 | --  | ND      | 0.528 | --  |           | 1               |
| Ethanol                                                                          | ND      | 5.00  | --  | ND      | 9.42  | --  |           | 1               |
| Vinyl bromide                                                                    | ND      | 0.200 | --  | ND      | 0.874 | --  |           | 1               |
| Acetone                                                                          | ND      | 1.00  | --  | ND      | 2.38  | --  |           | 1               |
| Trichlorofluoromethane                                                           | ND      | 0.200 | --  | ND      | 1.12  | --  |           | 1               |
| Isopropanol                                                                      | ND      | 0.500 | --  | ND      | 1.23  | --  |           | 1               |
| 1,1-Dichloroethene                                                               | ND      | 0.200 | --  | ND      | 0.793 | --  |           | 1               |
| Tertiary butyl Alcohol                                                           | ND      | 0.500 | --  | ND      | 1.52  | --  |           | 1               |
| Methylene chloride                                                               | ND      | 0.500 | --  | ND      | 1.74  | --  |           | 1               |
| 3-Chloropropene                                                                  | ND      | 0.200 | --  | ND      | 0.626 | --  |           | 1               |
| Carbon disulfide                                                                 | ND      | 0.200 | --  | ND      | 0.623 | --  |           | 1               |
| Freon-113                                                                        | ND      | 0.200 | --  | ND      | 1.53  | --  |           | 1               |
| trans-1,2-Dichloroethene                                                         | ND      | 0.200 | --  | ND      | 0.793 | --  |           | 1               |
| 1,1-Dichloroethane                                                               | ND      | 0.200 | --  | ND      | 0.809 | --  |           | 1               |
| Methyl tert butyl ether                                                          | ND      | 0.200 | --  | ND      | 0.721 | --  |           | 1               |
| 2-Butanone                                                                       | ND      | 0.500 | --  | ND      | 1.47  | --  |           | 1               |
| cis-1,2-Dichloroethene                                                           | ND      | 0.200 | --  | ND      | 0.793 | --  |           | 1               |
| Ethyl Acetate                                                                    | ND      | 0.500 | --  | ND      | 1.80  | --  |           | 1               |
| Chloroform                                                                       | ND      | 0.200 | --  | ND      | 0.977 | --  |           | 1               |



Project Name: 131 SUNNYSIDE BLVD

Lab Number: L2244639

Project Number: 30017762.00012

Report Date: 08/29/22

### Method Blank Analysis Batch Quality Control

Analytical Method: 48,TO-15

Analytical Date: 08/25/22 14:49

| Parameter                                                                        | ppbV    |       |     | ug/m3   |       |     | Qualifier | Dilution Factor |
|----------------------------------------------------------------------------------|---------|-------|-----|---------|-------|-----|-----------|-----------------|
|                                                                                  | Results | RL    | MDL | Results | RL    | MDL |           |                 |
| Volatile Organics in Air - Mansfield Lab for sample(s): 01-02 Batch: WG1679779-4 |         |       |     |         |       |     |           |                 |
| Tetrahydrofuran                                                                  | ND      | 0.500 | --  | ND      | 1.47  | --  |           | 1               |
| 1,2-Dichloroethane                                                               | ND      | 0.200 | --  | ND      | 0.809 | --  |           | 1               |
| n-Hexane                                                                         | ND      | 0.200 | --  | ND      | 0.705 | --  |           | 1               |
| 1,1,1-Trichloroethane                                                            | ND      | 0.200 | --  | ND      | 1.09  | --  |           | 1               |
| Benzene                                                                          | ND      | 0.200 | --  | ND      | 0.639 | --  |           | 1               |
| Carbon tetrachloride                                                             | ND      | 0.200 | --  | ND      | 1.26  | --  |           | 1               |
| Cyclohexane                                                                      | ND      | 0.200 | --  | ND      | 0.688 | --  |           | 1               |
| 1,2-Dichloropropane                                                              | ND      | 0.200 | --  | ND      | 0.924 | --  |           | 1               |
| Bromodichloromethane                                                             | ND      | 0.200 | --  | ND      | 1.34  | --  |           | 1               |
| 1,4-Dioxane                                                                      | ND      | 0.200 | --  | ND      | 0.721 | --  |           | 1               |
| Trichloroethene                                                                  | ND      | 0.200 | --  | ND      | 1.07  | --  |           | 1               |
| 2,2,4-Trimethylpentane                                                           | ND      | 0.200 | --  | ND      | 0.934 | --  |           | 1               |
| Heptane                                                                          | ND      | 0.200 | --  | ND      | 0.820 | --  |           | 1               |
| cis-1,3-Dichloropropene                                                          | ND      | 0.200 | --  | ND      | 0.908 | --  |           | 1               |
| 4-Methyl-2-pentanone                                                             | ND      | 0.500 | --  | ND      | 2.05  | --  |           | 1               |
| trans-1,3-Dichloropropene                                                        | ND      | 0.200 | --  | ND      | 0.908 | --  |           | 1               |
| 1,1,2-Trichloroethane                                                            | ND      | 0.200 | --  | ND      | 1.09  | --  |           | 1               |
| Toluene                                                                          | ND      | 0.200 | --  | ND      | 0.754 | --  |           | 1               |
| 2-Hexanone                                                                       | ND      | 0.200 | --  | ND      | 0.820 | --  |           | 1               |
| Dibromochloromethane                                                             | ND      | 0.200 | --  | ND      | 1.70  | --  |           | 1               |
| 1,2-Dibromoethane                                                                | ND      | 0.200 | --  | ND      | 1.54  | --  |           | 1               |
| Tetrachloroethene                                                                | ND      | 0.200 | --  | ND      | 1.36  | --  |           | 1               |
| Chlorobenzene                                                                    | ND      | 0.200 | --  | ND      | 0.921 | --  |           | 1               |
| Ethylbenzene                                                                     | ND      | 0.200 | --  | ND      | 0.869 | --  |           | 1               |
| p/m-Xylene                                                                       | ND      | 0.400 | --  | ND      | 1.74  | --  |           | 1               |



Project Name: 131 SUNNYSIDE BLVD

Lab Number: L2244639

Project Number: 30017762.00012

Report Date: 08/29/22

### Method Blank Analysis Batch Quality Control

Analytical Method: 48,TO-15

Analytical Date: 08/25/22 14:49

| Parameter                                                                        | ppbV    |       |     | ug/m3   |       |     | Qualifier | Dilution Factor |
|----------------------------------------------------------------------------------|---------|-------|-----|---------|-------|-----|-----------|-----------------|
|                                                                                  | Results | RL    | MDL | Results | RL    | MDL |           |                 |
| Volatile Organics in Air - Mansfield Lab for sample(s): 01-02 Batch: WG1679779-4 |         |       |     |         |       |     |           |                 |
| Bromoform                                                                        | ND      | 0.200 | --  | ND      | 2.07  | --  |           | 1               |
| Styrene                                                                          | ND      | 0.200 | --  | ND      | 0.852 | --  |           | 1               |
| 1,1,2,2-Tetrachloroethane                                                        | ND      | 0.200 | --  | ND      | 1.37  | --  |           | 1               |
| o-Xylene                                                                         | ND      | 0.200 | --  | ND      | 0.869 | --  |           | 1               |
| 4-Ethyltoluene                                                                   | ND      | 0.200 | --  | ND      | 0.983 | --  |           | 1               |
| 1,3,5-Trimethylbenzene                                                           | ND      | 0.200 | --  | ND      | 0.983 | --  |           | 1               |
| 1,2,4-Trimethylbenzene                                                           | ND      | 0.200 | --  | ND      | 0.983 | --  |           | 1               |
| Benzyl chloride                                                                  | ND      | 0.200 | --  | ND      | 1.04  | --  |           | 1               |
| 1,3-Dichlorobenzene                                                              | ND      | 0.200 | --  | ND      | 1.20  | --  |           | 1               |
| 1,4-Dichlorobenzene                                                              | ND      | 0.200 | --  | ND      | 1.20  | --  |           | 1               |
| 1,2-Dichlorobenzene                                                              | ND      | 0.200 | --  | ND      | 1.20  | --  |           | 1               |
| 1,2,4-Trichlorobenzene                                                           | ND      | 0.200 | --  | ND      | 1.48  | --  |           | 1               |
| Hexachlorobutadiene                                                              | ND      | 0.200 | --  | ND      | 2.13  | --  |           | 1               |

## Lab Control Sample Analysis

### Batch Quality Control

**Project Name:** 131 SUNNYSIDE BLVD

**Project Number:** 30017762.00012

**Lab Number:** L2244639

**Report Date:** 08/29/22

| Parameter                                                                               | LCS<br>%Recovery | Qual | LCSD<br>%Recovery | Qual | %Recovery<br>Limits | RPD | Qual | RPD<br>Limits |
|-----------------------------------------------------------------------------------------|------------------|------|-------------------|------|---------------------|-----|------|---------------|
| Volatile Organics in Air - Mansfield Lab Associated sample(s): 01-02 Batch: WG1679779-3 |                  |      |                   |      |                     |     |      |               |
| Dichlorodifluoromethane                                                                 | 85               |      | -                 |      | 70-130              | -   |      |               |
| Chloromethane                                                                           | 107              |      | -                 |      | 70-130              | -   |      |               |
| Freon-114                                                                               | 91               |      | -                 |      | 70-130              | -   |      |               |
| Vinyl chloride                                                                          | 95               |      | -                 |      | 70-130              | -   |      |               |
| 1,3-Butadiene                                                                           | 96               |      | -                 |      | 70-130              | -   |      |               |
| Bromomethane                                                                            | 92               |      | -                 |      | 70-130              | -   |      |               |
| Chloroethane                                                                            | 95               |      | -                 |      | 70-130              | -   |      |               |
| Ethanol                                                                                 | 86               |      | -                 |      | 40-160              | -   |      |               |
| Vinyl bromide                                                                           | 83               |      | -                 |      | 70-130              | -   |      |               |
| Acetone                                                                                 | 94               |      | -                 |      | 40-160              | -   |      |               |
| Trichlorofluoromethane                                                                  | 84               |      | -                 |      | 70-130              | -   |      |               |
| Isopropanol                                                                             | 89               |      | -                 |      | 40-160              | -   |      |               |
| 1,1-Dichloroethene                                                                      | 90               |      | -                 |      | 70-130              | -   |      |               |
| Tertiary butyl Alcohol                                                                  | 81               |      | -                 |      | 70-130              | -   |      |               |
| Methylene chloride                                                                      | 101              |      | -                 |      | 70-130              | -   |      |               |
| 3-Chloropropene                                                                         | 95               |      | -                 |      | 70-130              | -   |      |               |
| Carbon disulfide                                                                        | 91               |      | -                 |      | 70-130              | -   |      |               |
| Freon-113                                                                               | 99               |      | -                 |      | 70-130              | -   |      |               |
| trans-1,2-Dichloroethene                                                                | 85               |      | -                 |      | 70-130              | -   |      |               |
| 1,1-Dichloroethane                                                                      | 93               |      | -                 |      | 70-130              | -   |      |               |
| Methyl tert butyl ether                                                                 | 93               |      | -                 |      | 70-130              | -   |      |               |
| 2-Butanone                                                                              | 91               |      | -                 |      | 70-130              | -   |      |               |
| cis-1,2-Dichloroethene                                                                  | 93               |      | -                 |      | 70-130              | -   |      |               |

## Lab Control Sample Analysis

### Batch Quality Control

**Project Name:** 131 SUNNYSIDE BLVD

**Project Number:** 30017762.00012

**Lab Number:** L2244639

**Report Date:** 08/29/22

| Parameter                                                                               | LCS<br>%Recovery | Qual | LCSD<br>%Recovery | Qual | %Recovery<br>Limits | RPD | Qual | RPD<br>Limits |
|-----------------------------------------------------------------------------------------|------------------|------|-------------------|------|---------------------|-----|------|---------------|
| Volatile Organics in Air - Mansfield Lab Associated sample(s): 01-02 Batch: WG1679779-3 |                  |      |                   |      |                     |     |      |               |
| Ethyl Acetate                                                                           | 86               |      | -                 |      | 70-130              | -   |      |               |
| Chloroform                                                                              | 88               |      | -                 |      | 70-130              | -   |      |               |
| Tetrahydrofuran                                                                         | 89               |      | -                 |      | 70-130              | -   |      |               |
| 1,2-Dichloroethane                                                                      | 76               |      | -                 |      | 70-130              | -   |      |               |
| n-Hexane                                                                                | 94               |      | -                 |      | 70-130              | -   |      |               |
| 1,1,1-Trichloroethane                                                                   | 89               |      | -                 |      | 70-130              | -   |      |               |
| Benzene                                                                                 | 101              |      | -                 |      | 70-130              | -   |      |               |
| Carbon tetrachloride                                                                    | 90               |      | -                 |      | 70-130              | -   |      |               |
| Cyclohexane                                                                             | 94               |      | -                 |      | 70-130              | -   |      |               |
| 1,2-Dichloropropane                                                                     | 104              |      | -                 |      | 70-130              | -   |      |               |
| Bromodichloromethane                                                                    | 89               |      | -                 |      | 70-130              | -   |      |               |
| 1,4-Dioxane                                                                             | 89               |      | -                 |      | 70-130              | -   |      |               |
| Trichloroethene                                                                         | 104              |      | -                 |      | 70-130              | -   |      |               |
| 2,2,4-Trimethylpentane                                                                  | 95               |      | -                 |      | 70-130              | -   |      |               |
| Heptane                                                                                 | 103              |      | -                 |      | 70-130              | -   |      |               |
| cis-1,3-Dichloropropene                                                                 | 110              |      | -                 |      | 70-130              | -   |      |               |
| 4-Methyl-2-pentanone                                                                    | 102              |      | -                 |      | 70-130              | -   |      |               |
| trans-1,3-Dichloropropene                                                               | 91               |      | -                 |      | 70-130              | -   |      |               |
| 1,1,2-Trichloroethane                                                                   | 103              |      | -                 |      | 70-130              | -   |      |               |
| Toluene                                                                                 | 104              |      | -                 |      | 70-130              | -   |      |               |
| 2-Hexanone                                                                              | 106              |      | -                 |      | 70-130              | -   |      |               |
| Dibromochloromethane                                                                    | 107              |      | -                 |      | 70-130              | -   |      |               |
| 1,2-Dibromoethane                                                                       | 110              |      | -                 |      | 70-130              | -   |      |               |

## Lab Control Sample Analysis

### Batch Quality Control

**Project Name:** 131 SUNNYSIDE BLVD

**Project Number:** 30017762.00012

**Lab Number:** L2244639

**Report Date:** 08/29/22

| Parameter                                                                               | LCS<br>%Recovery | Qual | LCSD<br>%Recovery | Qual | %Recovery<br>Limits | RPD | Qual | RPD<br>Limits |
|-----------------------------------------------------------------------------------------|------------------|------|-------------------|------|---------------------|-----|------|---------------|
| Volatile Organics in Air - Mansfield Lab Associated sample(s): 01-02 Batch: WG1679779-3 |                  |      |                   |      |                     |     |      |               |
| Tetrachloroethene                                                                       | 104              |      | -                 |      | 70-130              | -   |      |               |
| Chlorobenzene                                                                           | 112              |      | -                 |      | 70-130              | -   |      |               |
| Ethylbenzene                                                                            | 105              |      | -                 |      | 70-130              | -   |      |               |
| p/m-Xylene                                                                              | 108              |      | -                 |      | 70-130              | -   |      |               |
| Bromoform                                                                               | 106              |      | -                 |      | 70-130              | -   |      |               |
| Styrene                                                                                 | 116              |      | -                 |      | 70-130              | -   |      |               |
| 1,1,2,2-Tetrachloroethane                                                               | 107              |      | -                 |      | 70-130              | -   |      |               |
| o-Xylene                                                                                | 106              |      | -                 |      | 70-130              | -   |      |               |
| 4-Ethyltoluene                                                                          | 106              |      | -                 |      | 70-130              | -   |      |               |
| 1,3,5-Trimethylbenzene                                                                  | 112              |      | -                 |      | 70-130              | -   |      |               |
| 1,2,4-Trimethylbenzene                                                                  | 116              |      | -                 |      | 70-130              | -   |      |               |
| Benzyl chloride                                                                         | 98               |      | -                 |      | 70-130              | -   |      |               |
| 1,3-Dichlorobenzene                                                                     | 114              |      | -                 |      | 70-130              | -   |      |               |
| 1,4-Dichlorobenzene                                                                     | 110              |      | -                 |      | 70-130              | -   |      |               |
| 1,2-Dichlorobenzene                                                                     | 111              |      | -                 |      | 70-130              | -   |      |               |
| 1,2,4-Trichlorobenzene                                                                  | 91               |      | -                 |      | 70-130              | -   |      |               |
| Hexachlorobutadiene                                                                     | 100              |      | -                 |      | 70-130              | -   |      |               |

**Project Name:** 131 SUNNYSIDE BLVD**Lab Number:** L2244639**Project Number:** 30017762.00012**Report Date:** 08/29/22**Sample Receipt and Container Information**

Were project specific reporting limits specified?

YES

**Cooler Information**

|               |                     |
|---------------|---------------------|
| <b>Cooler</b> | <b>Custody Seal</b> |
| NA            | Absent              |

**Container Information**

| <b>Container ID</b> | <b>Container Type</b>                    | <b>Cooler</b> | <b>Initial<br/>pH</b> | <b>Final<br/>pH</b> | <b>Temp<br/>deg C</b> | <b>Pres</b> | <b>Seal</b> | <b>Frozen<br/>Date/Time</b> | <b>Analysis(*)</b> |
|---------------------|------------------------------------------|---------------|-----------------------|---------------------|-----------------------|-------------|-------------|-----------------------------|--------------------|
| L2244639-01A        | Tedlar Bag 5 liter-Polypropylene Fitting | NA            | NA                    |                     |                       | Y           | Absent      |                             | TO15-LL(30)        |
| L2244639-01B        | Tedlar Bag 5 liter-Polypropylene Fitting | NA            | NA                    |                     |                       | Y           | Absent      |                             | TO15-LL(30)        |
| L2244639-01X        | Tedlar Bag 5 liter-Polypropylene Fitting | NA            | NA                    |                     |                       | Y           | Absent      |                             | TO15-LL(30)        |
| L2244639-02A        | Tedlar Bag 5 liter-Polypropylene Fitting | NA            | NA                    |                     |                       | Y           | Absent      |                             | TO15-LL(30)        |
| L2244639-02B        | Tedlar Bag 5 liter-Polypropylene Fitting | NA            | NA                    |                     |                       | Y           | Absent      |                             | TO15-LL(30)        |
| L2244639-02X        | Tedlar Bag 5 liter-Polypropylene Fitting | NA            | NA                    |                     |                       | Y           | Absent      |                             | TO15-LL(30)        |

**Project Name:** 131 SUNNYSIDE BLVD  
**Project Number:** 30017762.00012

**Lab Number:** L2244639  
**Report Date:** 08/29/22

## GLOSSARY

### Acronyms

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

Report Format: Data Usability Report



**Project Name:** 131 SUNNYSIDE BLVD  
**Project Number:** 30017762.00012

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#### Footnotes

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

#### Terms

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

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

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

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

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

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

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

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

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

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

#### Data Qualifiers

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

**Report Format:** Data Usability Report



**Project Name:** 131 SUNNYSIDE BLVD**Lab Number:** L2244639**Project Number:** 30017762.00012**Report Date:** 08/29/22**Data Qualifiers**

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

**Project Name:** 131 SUNNYSIDE BLVD  
**Project Number:** 30017762.00012

**Lab Number:** L2244639  
**Report Date:** 08/29/22

## REFERENCES

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

## LIMITATION OF LIABILITIES

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

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



**Alpha Analytical, Inc.**Facility: **Company-wide**Department: **Quality Assurance**Title: **Certificate/Approval Program Summary**ID No.: **17873**

Revision 19

Published Date: 4/2/2021 1:14:23 PM

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**Certification Information**

The following analytes are not included in our Primary NELAP Scope of Accreditation:

**Westborough Facility****EPA 624/624.1:** m/p-xylene, o-xylene, Naphthalene**EPA 625/625.1:** alpha-Terpineol**EPA 8260C/8260D:** NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene, Azobenzene; SCM: Iodomethane (methyl iodide), 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.**EPA 8270D/8270E:** NPW: Dimethylnaphthalene, 1,4-Diphenylhydrazine, alpha-Terpineol; SCM: Dimethylnaphthalene, 1,4-Diphenylhydrazine.**SM4500:** NPW: Amenable Cyanide; SCM: Total Phosphorus, TKN, NO<sub>2</sub>, NO<sub>3</sub>.**Mansfield Facility****SM 2540D:** TSS**EPA 8082A:** NPW: PCB: 1, 5, 31, 87, 101, 110, 141, 151, 153, 180, 183, 187.**EPA TO-15:** Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene,

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

**Biological Tissue Matrix:** EPA 3050B

The following analytes are included in our Massachusetts DEP Scope of Accreditation

**Westborough Facility:****Drinking Water****EPA 300.0:** Chloride, Nitrate-N, Fluoride, Sulfate; **EPA 353.2:** Nitrate-N, Nitrite-N; **SM4500NO3-F:** Nitrate-N, Nitrite-N; **SM4500F-C, SM4500CN-CE,****EPA 180.1, SM2130B, SM4500CI-D, SM2320B, SM2540C, SM4500H-B, SM4500NO2-B****EPA 332:** Perchlorate; **EPA 524.2:** THMs and VOCs; **EPA 504.1:** EDB, DBCP.**Microbiology:** **SM9215B; SM9223-P/A, SM9223B-Colilert-QT, SM9222D.****Non-Potable Water****SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2320B, SM4500CL-E, SM4500F-BC, SM4500NH3-BH:** Ammonia-N and Kjeldahl-N, **EPA 350.1:**Ammonia-N, **LACHAT 10-107-06-1-B:** Ammonia-N, **EPA 351.1, SM4500NO3-F, EPA 353.2:** Nitrate-N, **SM4500P-E, SM4500P-B, E, SM4500SO4-E,****SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, EPA 420.1, SM4500-CN-CE, SM2540D, EPA 300: Chloride, Sulfate, Nitrate.****EPA 624.1:** Volatile Halocarbons & Aromatics,**EPA 608.3:** Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II,

Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs

**EPA 625.1:** SVOC (Acid/Base/Neutral Extractables), **EPA 600/4-81-045:** PCB-Oil.**Microbiology:** **SM9223B-Colilert-QT; Enterolert-QT, SM9221E, EPA 1600, EPA 1603, SM9222D.****Mansfield Facility:****Drinking Water****EPA 200.7:** Al, Ba, Cd, Cr, Cu, Fe, Mn, Ni, Na, Ag, Ca, Zn. **EPA 200.8:** Al, Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn. **EPA 245.1 Hg.****EPA 522, EPA 537.1.****Non-Potable Water****EPA 200.7:** Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, TL, Ti, V, Zn.**EPA 200.8:** Al, Sb, As, Be, Cd, Cr, Cu, Fe, Pb, Mn, Ni, K, Se, Ag, Na, TL, Zn.**EPA 245.1 Hg.****SM2340B**

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

## AIR ANALYSIS

PAGE 1 OF 1



CHAIN OF CUSTODY

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

## Client Information

Client: Arcadis  
Address: 2 Huntington Quadrangle  
Suite 1510  
Phone: 631-356-8791

Fax:

Email: Sal.tedesco@arcadis.com☐ These samples have been previously analyzed by Alpha

Other Project Specific Requirements/Comments:

Project-Specific Target Compound List: ☐

## Project Information

Project Name: 131 Sunnyside Blvd  
Project Location: Plainville, NY  
Project #: 30017762-00012  
Project Manager: Steve Feldman  
ALPHA Quote #:

## Turn-Around Time

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

Date Due: Time:

Date Rec'd in Lab: 8/19/22

## Report Information - Data Deliverables

☐ FAX  
☐ ADEx  
Criteria Checker:  
(Default based on Regulatory Criteria Indicated)  
Other Formats:  
☒ EMAIL (standard pdf report)  
☐ Additional Deliverables:  
Report to: (if different than Project Manager)

ALPHA Job #: L2244639

## Billing Information

☐ Same as Client info PO #: 30017762-00012

Arcadis - Accounts Payable  
Highlands Ranch - CO

## Regulatory Requirements/Report Limits

| State/Fed | Program | Res / Comm |
|-----------|---------|------------|
|           |         |            |
|           |         |            |
|           |         |            |
|           |         |            |

## ANALYSIS

TO-15 - Soil Vapor  
TO-15 SIM  
APH  
Fixed Gases  
Sulfides & Mercaptans by TO-15

## All Columns Below Must Be Filled Out

| ALPHA Lab ID<br>(Lab Use Only) | Sample ID    | COLLECTION     |             |             |                |              |                |                    |           |          |                      | ID - Flow<br>Controller | TO-15 - Soil Vapor | TO-15 SIM | APH | Fixed Gases | Sulfides & Mercaptans by TO-15 | Sample Comments (i.e. PID) |
|--------------------------------|--------------|----------------|-------------|-------------|----------------|--------------|----------------|--------------------|-----------|----------|----------------------|-------------------------|--------------------|-----------|-----|-------------|--------------------------------|----------------------------|
|                                |              | End Date       | Start Time  | End Time    | Initial Vacuum | Final Vacuum | Sample Matrix* | Sampler's Initials | Can Size  | ID Can   | ID - Flow Controller |                         |                    |           |     |             |                                |                            |
| <u>44639-01</u>                | <u>SVE-1</u> | <u>8/18/22</u> | <u>1105</u> | <u>1110</u> | <u>—</u>       | <u>—</u>     | <u>SV</u>      | <u>KC</u>          | <u>5L</u> | <u>—</u> | <u>—</u>             | <u>X</u>                |                    |           |     |             |                                |                            |
| <u>02</u>                      | <u>SVE-2</u> | <u>↓</u>       | <u>1120</u> | <u>1125</u> | <u>—</u>       | <u>—</u>     | <u>SV</u>      | <u>KC</u>          | <u>5L</u> | <u>—</u> | <u>—</u>             | <u>X</u>                |                    |           |     |             |                                |                            |
|                                |              |                |             |             |                |              |                |                    |           |          |                      |                         |                    |           |     |             |                                |                            |
|                                |              |                |             |             |                |              |                |                    |           |          |                      |                         |                    |           |     |             |                                |                            |
|                                |              |                |             |             |                |              |                |                    |           |          |                      |                         |                    |           |     |             |                                |                            |
|                                |              |                |             |             |                |              |                |                    |           |          |                      |                         |                    |           |     |             |                                |                            |
|                                |              |                |             |             |                |              |                |                    |           |          |                      |                         |                    |           |     |             |                                |                            |
|                                |              |                |             |             |                |              |                |                    |           |          |                      |                         |                    |           |     |             |                                |                            |
|                                |              |                |             |             |                |              |                |                    |           |          |                      |                         |                    |           |     |             |                                |                            |
|                                |              |                |             |             |                |              |                |                    |           |          |                      |                         |                    |           |     |             |                                |                            |
|                                |              |                |             |             |                |              |                |                    |           |          |                      |                         |                    |           |     |             |                                |                            |
|                                |              |                |             |             |                |              |                |                    |           |          |                      |                         |                    |           |     |             |                                |                            |
|                                |              |                |             |             |                |              |                |                    |           |          |                      |                         |                    |           |     |             |                                |                            |
|                                |              |                |             |             |                |              |                |                    |           |          |                      |                         |                    |           |     |             |                                |                            |

## \*SAMPLE MATRIX CODES

AA = Ambient Air (Indoor/Outdoor)  
SV = Soil Vapor/Landfill Gas/SVE  
Other = Please Specify

Container Type

Tester

Relinquished By:

Date/Time

Received By:

Date/Time:

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



## ANALYTICAL REPORT

|                 |                                                                                            |
|-----------------|--------------------------------------------------------------------------------------------|
| Lab Number:     | L2246050                                                                                   |
| Client:         | Arcadis of New York, Inc.<br>Two Huntington Quadrangle<br>Suite 1S10<br>Melville, NY 11747 |
| ATTN:           | Steven Feldman                                                                             |
| Phone:          | (631) 249-7600                                                                             |
| Project Name:   | 131 SUNNYSIDE BLVD                                                                         |
| Project Number: | 30017762.00012                                                                             |
| Report Date:    | 08/31/22                                                                                   |

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

Certifications & Approvals: MA (M-MA030), NH NELAP (2062), CT (PH-0141), DoD (L2474), FL (E87814), IL (200081), LA (85084), ME (MA00030), MD (350), NJ (MA015), NY (11627), NC (685), OH (CL106), PA (68-02089), RI (LAO00299), TX (T104704419), VT (VT-0015), VA (460194), WA (C954), US Army Corps of Engineers, USDA (Permit #P330-17-00150), USFWS (Permit #206964).

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320 Forbes Boulevard, Mansfield, MA 02048-1806  
508-822-9300 (Fax) 508-822-3288 800-624-9220 - [www.alphalab.com](http://www.alphalab.com)



**Project Name:** 131 SUNNYSIDE BLVD  
**Project Number:** 30017762.00012

**Lab Number:** L2246050  
**Report Date:** 08/31/22

| <b>Alpha<br/>Sample ID</b> | <b>Client ID</b> | <b>Matrix</b> | <b>Sample<br/>Location</b> | <b>Collection<br/>Date/Time</b> | <b>Receive Date</b> |
|----------------------------|------------------|---------------|----------------------------|---------------------------------|---------------------|
| L2246050-01                | SVE-1            | SOIL_VAPOR    | PLAINVIEW, NY              | 08/25/22 10:05                  | 08/25/22            |
| L2246050-02                | SVE-2            | SOIL_VAPOR    | PLAINVIEW, NY              | 08/25/22 10:15                  | 08/25/22            |

**Project Name:** 131 SUNNYSIDE BLVD  
**Project Number:** 30017762.00012

**Lab Number:** L2246050  
**Report Date:** 08/31/22

### Case Narrative

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

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

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

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

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

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

---

**Project Name:** 131 SUNNYSIDE BLVD  
**Project Number:** 30017762.00012

**Lab Number:** L2246050  
**Report Date:** 08/31/22

### Case Narrative (continued)

#### Volatile Organics in Air

L2246050-01D and -02D: Samples were transferred from a Tedlar bag into a fused silica lined canister upon receipt in order to extend the holding time for analysis.

L2246050-01D and -02D: The samples have elevated detection limits due to the dilution required by the elevated concentrations of target compounds in the samples.

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

Authorized Signature:  Christopher J. Anderson

Title: Technical Director/Representative

Date: 08/31/22

**AIR**

**Project Name:** 131 SUNNYSIDE BLVD**Project Number:** 30017762.00012**Lab Number:** L2246050**Report Date:** 08/31/22**SAMPLE RESULTS**

Lab ID: L2246050-01 D

Client ID: SVE-1

Sample Location: PLAINVIEW, NY

Date Collected: 08/25/22 10:05

Date Received: 08/25/22

Field Prep: Not Specified

Sample Depth:

Matrix: Soil\_Vapor

Analytical Method: 48,TO-15

Analytical Date: 08/29/22 22:17

Analyst: TS

| Parameter                                | ppbV    |      |     | ug/m3   |      |     | Qualifier | Dilution Factor |
|------------------------------------------|---------|------|-----|---------|------|-----|-----------|-----------------|
|                                          | Results | RL   | MDL | Results | RL   | MDL |           |                 |
| Volatile Organics in Air - Mansfield Lab |         |      |     |         |      |     |           |                 |
| Dichlorodifluoromethane                  | ND      | 8.12 | --  | ND      | 40.2 | --  |           | 40.58           |
| Chloromethane                            | ND      | 8.12 | --  | ND      | 16.8 | --  |           | 40.58           |
| Freon-114                                | ND      | 8.12 | --  | ND      | 56.8 | --  |           | 40.58           |
| Vinyl chloride                           | ND      | 8.12 | --  | ND      | 20.8 | --  |           | 40.58           |
| 1,3-Butadiene                            | ND      | 8.12 | --  | ND      | 18.0 | --  |           | 40.58           |
| Bromomethane                             | ND      | 8.12 | --  | ND      | 31.5 | --  |           | 40.58           |
| Chloroethane                             | ND      | 8.12 | --  | ND      | 21.4 | --  |           | 40.58           |
| Ethanol                                  | ND      | 203  | --  | ND      | 383  | --  |           | 40.58           |
| Vinyl bromide                            | ND      | 8.12 | --  | ND      | 35.5 | --  |           | 40.58           |
| Acetone                                  | ND      | 40.6 | --  | ND      | 96.4 | --  |           | 40.58           |
| Trichlorofluoromethane                   | ND      | 8.12 | --  | ND      | 45.6 | --  |           | 40.58           |
| Isopropanol                              | ND      | 20.3 | --  | ND      | 49.9 | --  |           | 40.58           |
| 1,1-Dichloroethene                       | ND      | 8.12 | --  | ND      | 32.2 | --  |           | 40.58           |
| Tertiary butyl Alcohol                   | ND      | 20.3 | --  | ND      | 61.5 | --  |           | 40.58           |
| Methylene chloride                       | ND      | 20.3 | --  | ND      | 70.5 | --  |           | 40.58           |
| 3-Chloropropene                          | ND      | 8.12 | --  | ND      | 25.4 | --  |           | 40.58           |
| Carbon disulfide                         | ND      | 8.12 | --  | ND      | 25.3 | --  |           | 40.58           |
| Freon-113                                | ND      | 8.12 | --  | ND      | 62.2 | --  |           | 40.58           |
| trans-1,2-Dichloroethene                 | ND      | 8.12 | --  | ND      | 32.2 | --  |           | 40.58           |
| 1,1-Dichloroethane                       | ND      | 8.12 | --  | ND      | 32.9 | --  |           | 40.58           |
| Methyl tert butyl ether                  | ND      | 8.12 | --  | ND      | 29.3 | --  |           | 40.58           |
| 2-Butanone                               | ND      | 20.3 | --  | ND      | 59.9 | --  |           | 40.58           |
| cis-1,2-Dichloroethene                   | 30.7    | 8.12 | --  | 122     | 32.2 | --  |           | 40.58           |



**Project Name:** 131 SUNNYSIDE BLVD**Lab Number:** L2246050**Project Number:** 30017762.00012**Report Date:** 08/31/22**SAMPLE RESULTS**

Lab ID: L2246050-01 D

Client ID: SVE-1

Sample Location: PLAINVIEW, NY

Date Collected: 08/25/22 10:05

Date Received: 08/25/22

Field Prep: Not Specified

Sample Depth:

| Parameter                                | ppbV    |      |     | ug/m3   |      |     | Qualifier | Dilution Factor |
|------------------------------------------|---------|------|-----|---------|------|-----|-----------|-----------------|
|                                          | Results | RL   | MDL | Results | RL   | MDL |           |                 |
| Volatile Organics in Air - Mansfield Lab |         |      |     |         |      |     |           |                 |
| Ethyl Acetate                            | ND      | 20.3 | --  | ND      | 73.2 | --  |           | 40.58           |
| Chloroform                               | ND      | 8.12 | --  | ND      | 39.7 | --  |           | 40.58           |
| Tetrahydrofuran                          | 170     | 20.3 | --  | 501     | 59.9 | --  |           | 40.58           |
| 1,2-Dichloroethane                       | ND      | 8.12 | --  | ND      | 32.9 | --  |           | 40.58           |
| n-Hexane                                 | ND      | 8.12 | --  | ND      | 28.6 | --  |           | 40.58           |
| 1,1,1-Trichloroethane                    | 13.0    | 8.12 | --  | 70.9    | 44.3 | --  |           | 40.58           |
| Benzene                                  | ND      | 8.12 | --  | ND      | 25.9 | --  |           | 40.58           |
| Carbon tetrachloride                     | ND      | 8.12 | --  | ND      | 51.1 | --  |           | 40.58           |
| Cyclohexane                              | ND      | 8.12 | --  | ND      | 28.0 | --  |           | 40.58           |
| 1,2-Dichloropropane                      | ND      | 8.12 | --  | ND      | 37.5 | --  |           | 40.58           |
| Bromodichloromethane                     | ND      | 8.12 | --  | ND      | 54.4 | --  |           | 40.58           |
| 1,4-Dioxane                              | ND      | 8.12 | --  | ND      | 29.3 | --  |           | 40.58           |
| Trichloroethene                          | 3460    | 8.12 | --  | 18600   | 43.6 | --  |           | 40.58           |
| 2,2,4-Trimethylpentane                   | ND      | 8.12 | --  | ND      | 37.9 | --  |           | 40.58           |
| Heptane                                  | ND      | 8.12 | --  | ND      | 33.3 | --  |           | 40.58           |
| cis-1,3-Dichloropropene                  | ND      | 8.12 | --  | ND      | 36.9 | --  |           | 40.58           |
| 4-Methyl-2-pentanone                     | ND      | 20.3 | --  | ND      | 83.2 | --  |           | 40.58           |
| trans-1,3-Dichloropropene                | ND      | 8.12 | --  | ND      | 36.9 | --  |           | 40.58           |
| 1,1,2-Trichloroethane                    | ND      | 8.12 | --  | ND      | 44.3 | --  |           | 40.58           |
| Toluene                                  | ND      | 8.12 | --  | ND      | 30.6 | --  |           | 40.58           |
| 2-Hexanone                               | ND      | 8.12 | --  | ND      | 33.3 | --  |           | 40.58           |
| Dibromochloromethane                     | ND      | 8.12 | --  | ND      | 69.2 | --  |           | 40.58           |
| 1,2-Dibromoethane                        | ND      | 8.12 | --  | ND      | 62.4 | --  |           | 40.58           |
| Tetrachloroethene                        | 18.9    | 8.12 | --  | 128     | 55.1 | --  |           | 40.58           |
| Chlorobenzene                            | ND      | 8.12 | --  | ND      | 37.4 | --  |           | 40.58           |
| Ethylbenzene                             | ND      | 8.12 | --  | ND      | 35.3 | --  |           | 40.58           |



**Project Name:** 131 SUNNYSIDE BLVD  
**Project Number:** 30017762.00012

**Lab Number:** L2246050  
**Report Date:** 08/31/22

### SAMPLE RESULTS

**Lab ID:** L2246050-01 D  
**Client ID:** SVE-1  
**Sample Location:** PLAINVIEW, NY

**Date Collected:** 08/25/22 10:05  
**Date Received:** 08/25/22  
**Field Prep:** Not Specified

**Sample Depth:**

| Parameter                                | ppbV    |      |     | ug/m3   |      |     | Qualifier | Dilution Factor |
|------------------------------------------|---------|------|-----|---------|------|-----|-----------|-----------------|
|                                          | Results | RL   | MDL | Results | RL   | MDL |           |                 |
| Volatile Organics in Air - Mansfield Lab |         |      |     |         |      |     |           |                 |
| p/m-Xylene                               | ND      | 16.2 | --  | ND      | 70.4 | --  |           | 40.58           |
| Bromoform                                | ND      | 8.12 | --  | ND      | 84.0 | --  |           | 40.58           |
| Styrene                                  | ND      | 8.12 | --  | ND      | 34.6 | --  |           | 40.58           |
| 1,1,2,2-Tetrachloroethane                | ND      | 8.12 | --  | ND      | 55.8 | --  |           | 40.58           |
| o-Xylene                                 | ND      | 8.12 | --  | ND      | 35.3 | --  |           | 40.58           |
| 4-Ethyltoluene                           | ND      | 8.12 | --  | ND      | 39.9 | --  |           | 40.58           |
| 1,3,5-Trimethylbenzene                   | ND      | 8.12 | --  | ND      | 39.9 | --  |           | 40.58           |
| 1,2,4-Trimethylbenzene                   | ND      | 8.12 | --  | ND      | 39.9 | --  |           | 40.58           |
| Benzyl chloride                          | ND      | 8.12 | --  | ND      | 42.0 | --  |           | 40.58           |
| 1,3-Dichlorobenzene                      | ND      | 8.12 | --  | ND      | 48.8 | --  |           | 40.58           |
| 1,4-Dichlorobenzene                      | ND      | 8.12 | --  | ND      | 48.8 | --  |           | 40.58           |
| 1,2-Dichlorobenzene                      | ND      | 8.12 | --  | ND      | 48.8 | --  |           | 40.58           |
| 1,2,4-Trichlorobenzene                   | ND      | 8.12 | --  | ND      | 60.3 | --  |           | 40.58           |
| Hexachlorobutadiene                      | ND      | 8.12 | --  | ND      | 86.6 | --  |           | 40.58           |

| Internal Standard   | % Recovery | Qualifier | Acceptance Criteria |
|---------------------|------------|-----------|---------------------|
| 1,4-Difluorobenzene | 98         |           | 60-140              |
| Bromochloromethane  | 97         |           | 60-140              |
| chlorobenzene-d5    | 94         |           | 60-140              |



**Project Name:** 131 SUNNYSIDE BLVD**Project Number:** 30017762.00012**Lab Number:** L2246050**Report Date:** 08/31/22**SAMPLE RESULTS**

Lab ID: L2246050-02 D

Client ID: SVE-2

Sample Location: PLAINVIEW, NY

Date Collected: 08/25/22 10:15

Date Received: 08/25/22

Field Prep: Not Specified

Sample Depth:

Matrix: Soil\_Vapor

Analytical Method: 48,TO-15

Analytical Date: 08/29/22 22:53

Analyst: TS

| Parameter                                | ppbV    |       |     | ug/m3   |       |     | Qualifier | Dilution Factor |
|------------------------------------------|---------|-------|-----|---------|-------|-----|-----------|-----------------|
|                                          | Results | RL    | MDL | Results | RL    | MDL |           |                 |
| Volatile Organics in Air - Mansfield Lab |         |       |     |         |       |     |           |                 |
| Dichlorodifluoromethane                  | 0.534   | 0.400 | --  | 2.64    | 1.98  | --  |           | 2               |
| Chloromethane                            | ND      | 0.400 | --  | ND      | 0.826 | --  |           | 2               |
| Freon-114                                | ND      | 0.400 | --  | ND      | 2.80  | --  |           | 2               |
| Vinyl chloride                           | ND      | 0.400 | --  | ND      | 1.02  | --  |           | 2               |
| 1,3-Butadiene                            | ND      | 0.400 | --  | ND      | 0.885 | --  |           | 2               |
| Bromomethane                             | ND      | 0.400 | --  | ND      | 1.55  | --  |           | 2               |
| Chloroethane                             | ND      | 0.400 | --  | ND      | 1.06  | --  |           | 2               |
| Ethanol                                  | 12.5    | 10.0  | --  | 23.6    | 18.8  | --  |           | 2               |
| Vinyl bromide                            | ND      | 0.400 | --  | ND      | 1.75  | --  |           | 2               |
| Acetone                                  | 5.71    | 2.00  | --  | 13.6    | 4.75  | --  |           | 2               |
| Trichlorofluoromethane                   | ND      | 0.400 | --  | ND      | 2.25  | --  |           | 2               |
| Isopropanol                              | 9.72    | 1.00  | --  | 23.9    | 2.46  | --  |           | 2               |
| 1,1-Dichloroethene                       | ND      | 0.400 | --  | ND      | 1.59  | --  |           | 2               |
| Tertiary butyl Alcohol                   | ND      | 1.00  | --  | ND      | 3.03  | --  |           | 2               |
| Methylene chloride                       | ND      | 1.00  | --  | ND      | 3.47  | --  |           | 2               |
| 3-Chloropropene                          | ND      | 0.400 | --  | ND      | 1.25  | --  |           | 2               |
| Carbon disulfide                         | ND      | 0.400 | --  | ND      | 1.25  | --  |           | 2               |
| Freon-113                                | 0.530   | 0.400 | --  | 4.06    | 3.07  | --  |           | 2               |
| trans-1,2-Dichloroethene                 | ND      | 0.400 | --  | ND      | 1.59  | --  |           | 2               |
| 1,1-Dichloroethane                       | ND      | 0.400 | --  | ND      | 1.62  | --  |           | 2               |
| Methyl tert butyl ether                  | ND      | 0.400 | --  | ND      | 1.44  | --  |           | 2               |
| 2-Butanone                               | 1.24    | 1.00  | --  | 3.66    | 2.95  | --  |           | 2               |
| cis-1,2-Dichloroethene                   | 2.98    | 0.400 | --  | 11.8    | 1.59  | --  |           | 2               |



**Project Name:** 131 SUNNYSIDE BLVD**Lab Number:** L2246050**Project Number:** 30017762.00012**Report Date:** 08/31/22**SAMPLE RESULTS**

Lab ID: L2246050-02 D

Client ID: SVE-2

Sample Location: PLAINVIEW, NY

Date Collected: 08/25/22 10:15

Date Received: 08/25/22

Field Prep: Not Specified

Sample Depth:

| Parameter                                | ppbV    |       |     | ug/m3   |      |     | Qualifier | Dilution Factor |
|------------------------------------------|---------|-------|-----|---------|------|-----|-----------|-----------------|
|                                          | Results | RL    | MDL | Results | RL   | MDL |           |                 |
| Volatile Organics in Air - Mansfield Lab |         |       |     |         |      |     |           |                 |
| Ethyl Acetate                            | ND      | 1.00  | --  | ND      | 3.60 | --  |           | 2               |
| Chloroform                               | ND      | 0.400 | --  | ND      | 1.95 | --  |           | 2               |
| Tetrahydrofuran                          | 4.33    | 1.00  | --  | 12.8    | 2.95 | --  |           | 2               |
| 1,2-Dichloroethane                       | ND      | 0.400 | --  | ND      | 1.62 | --  |           | 2               |
| n-Hexane                                 | ND      | 0.400 | --  | ND      | 1.41 | --  |           | 2               |
| 1,1,1-Trichloroethane                    | ND      | 0.400 | --  | ND      | 2.18 | --  |           | 2               |
| Benzene                                  | ND      | 0.400 | --  | ND      | 1.28 | --  |           | 2               |
| Carbon tetrachloride                     | ND      | 0.400 | --  | ND      | 2.52 | --  |           | 2               |
| Cyclohexane                              | ND      | 0.400 | --  | ND      | 1.38 | --  |           | 2               |
| 1,2-Dichloropropane                      | ND      | 0.400 | --  | ND      | 1.85 | --  |           | 2               |
| Bromodichloromethane                     | ND      | 0.400 | --  | ND      | 2.68 | --  |           | 2               |
| 1,4-Dioxane                              | ND      | 0.400 | --  | ND      | 1.44 | --  |           | 2               |
| Trichloroethene                          | 102     | 0.400 | --  | 548     | 2.15 | --  |           | 2               |
| 2,2,4-Trimethylpentane                   | 0.774   | 0.400 | --  | 3.62    | 1.87 | --  |           | 2               |
| Heptane                                  | ND      | 0.400 | --  | ND      | 1.64 | --  |           | 2               |
| cis-1,3-Dichloropropene                  | ND      | 0.400 | --  | ND      | 1.82 | --  |           | 2               |
| 4-Methyl-2-pentanone                     | ND      | 1.00  | --  | ND      | 4.10 | --  |           | 2               |
| trans-1,3-Dichloropropene                | ND      | 0.400 | --  | ND      | 1.82 | --  |           | 2               |
| 1,1,2-Trichloroethane                    | ND      | 0.400 | --  | ND      | 2.18 | --  |           | 2               |
| Toluene                                  | 0.412   | 0.400 | --  | 1.55    | 1.51 | --  |           | 2               |
| 2-Hexanone                               | ND      | 0.400 | --  | ND      | 1.64 | --  |           | 2               |
| Dibromochloromethane                     | ND      | 0.400 | --  | ND      | 3.41 | --  |           | 2               |
| 1,2-Dibromoethane                        | ND      | 0.400 | --  | ND      | 3.07 | --  |           | 2               |
| Tetrachloroethene                        | 2.98    | 0.400 | --  | 20.2    | 2.71 | --  |           | 2               |
| Chlorobenzene                            | ND      | 0.400 | --  | ND      | 1.84 | --  |           | 2               |
| Ethylbenzene                             | ND      | 0.400 | --  | ND      | 1.74 | --  |           | 2               |



**Project Name:** 131 SUNNYSIDE BLVD**Lab Number:** L2246050**Project Number:** 30017762.00012**Report Date:** 08/31/22**SAMPLE RESULTS**

Lab ID: L2246050-02 D

Client ID: SVE-2

Sample Location: PLAINVIEW, NY

Date Collected: 08/25/22 10:15

Date Received: 08/25/22

Field Prep: Not Specified

Sample Depth:

| Parameter                                | ppbV    |       |     | ug/m3   |      |     | Qualifier | Dilution Factor |
|------------------------------------------|---------|-------|-----|---------|------|-----|-----------|-----------------|
|                                          | Results | RL    | MDL | Results | RL   | MDL |           |                 |
| Volatile Organics in Air - Mansfield Lab |         |       |     |         |      |     |           |                 |
| p/m-Xylene                               | 1.65    | 0.800 | --  | 7.17    | 3.47 | --  |           | 2               |
| Bromoform                                | ND      | 0.400 | --  | ND      | 4.14 | --  |           | 2               |
| Styrene                                  | ND      | 0.400 | --  | ND      | 1.70 | --  |           | 2               |
| 1,1,2,2-Tetrachloroethane                | ND      | 0.400 | --  | ND      | 2.75 | --  |           | 2               |
| o-Xylene                                 | 0.646   | 0.400 | --  | 2.81    | 1.74 | --  |           | 2               |
| 4-Ethyltoluene                           | ND      | 0.400 | --  | ND      | 1.97 | --  |           | 2               |
| 1,3,5-Trimethylbenzene                   | ND      | 0.400 | --  | ND      | 1.97 | --  |           | 2               |
| 1,2,4-Trimethylbenzene                   | ND      | 0.400 | --  | ND      | 1.97 | --  |           | 2               |
| Benzyl chloride                          | ND      | 0.400 | --  | ND      | 2.07 | --  |           | 2               |
| 1,3-Dichlorobenzene                      | ND      | 0.400 | --  | ND      | 2.40 | --  |           | 2               |
| 1,4-Dichlorobenzene                      | ND      | 0.400 | --  | ND      | 2.40 | --  |           | 2               |
| 1,2-Dichlorobenzene                      | ND      | 0.400 | --  | ND      | 2.40 | --  |           | 2               |
| 1,2,4-Trichlorobenzene                   | ND      | 0.400 | --  | ND      | 2.97 | --  |           | 2               |
| Hexachlorobutadiene                      | ND      | 0.400 | --  | ND      | 4.27 | --  |           | 2               |

| Internal Standard   | % Recovery | Qualifier | Acceptance Criteria |
|---------------------|------------|-----------|---------------------|
| 1,4-Difluorobenzene | 94         |           | 60-140              |
| Bromochloromethane  | 95         |           | 60-140              |
| chlorobenzene-d5    | 94         |           | 60-140              |



Project Name: 131 SUNNYSIDE BLVD

Lab Number: L2246050

Project Number: 30017762.00012

Report Date: 08/31/22

### Method Blank Analysis Batch Quality Control

Analytical Method: 48,TO-15

Analytical Date: 08/29/22 15:04

| Parameter                                                                        | ppbV    |       |     | ug/m3   |       |     | Qualifier | Dilution Factor |
|----------------------------------------------------------------------------------|---------|-------|-----|---------|-------|-----|-----------|-----------------|
|                                                                                  | Results | RL    | MDL | Results | RL    | MDL |           |                 |
| Volatile Organics in Air - Mansfield Lab for sample(s): 01-02 Batch: WG1681036-4 |         |       |     |         |       |     |           |                 |
| Dichlorodifluoromethane                                                          | ND      | 0.200 | --  | ND      | 0.989 | --  |           | 1               |
| Chloromethane                                                                    | ND      | 0.200 | --  | ND      | 0.413 | --  |           | 1               |
| Freon-114                                                                        | ND      | 0.200 | --  | ND      | 1.40  | --  |           | 1               |
| Vinyl chloride                                                                   | ND      | 0.200 | --  | ND      | 0.511 | --  |           | 1               |
| 1,3-Butadiene                                                                    | ND      | 0.200 | --  | ND      | 0.442 | --  |           | 1               |
| Bromomethane                                                                     | ND      | 0.200 | --  | ND      | 0.777 | --  |           | 1               |
| Chloroethane                                                                     | ND      | 0.200 | --  | ND      | 0.528 | --  |           | 1               |
| Ethanol                                                                          | ND      | 5.00  | --  | ND      | 9.42  | --  |           | 1               |
| Vinyl bromide                                                                    | ND      | 0.200 | --  | ND      | 0.874 | --  |           | 1               |
| Acetone                                                                          | ND      | 1.00  | --  | ND      | 2.38  | --  |           | 1               |
| Trichlorofluoromethane                                                           | ND      | 0.200 | --  | ND      | 1.12  | --  |           | 1               |
| Isopropanol                                                                      | ND      | 0.500 | --  | ND      | 1.23  | --  |           | 1               |
| 1,1-Dichloroethene                                                               | ND      | 0.200 | --  | ND      | 0.793 | --  |           | 1               |
| Tertiary butyl Alcohol                                                           | ND      | 0.500 | --  | ND      | 1.52  | --  |           | 1               |
| Methylene chloride                                                               | ND      | 0.500 | --  | ND      | 1.74  | --  |           | 1               |
| 3-Chloropropene                                                                  | ND      | 0.200 | --  | ND      | 0.626 | --  |           | 1               |
| Carbon disulfide                                                                 | ND      | 0.200 | --  | ND      | 0.623 | --  |           | 1               |
| Freon-113                                                                        | ND      | 0.200 | --  | ND      | 1.53  | --  |           | 1               |
| trans-1,2-Dichloroethene                                                         | ND      | 0.200 | --  | ND      | 0.793 | --  |           | 1               |
| 1,1-Dichloroethane                                                               | ND      | 0.200 | --  | ND      | 0.809 | --  |           | 1               |
| Methyl tert butyl ether                                                          | ND      | 0.200 | --  | ND      | 0.721 | --  |           | 1               |
| 2-Butanone                                                                       | ND      | 0.500 | --  | ND      | 1.47  | --  |           | 1               |
| cis-1,2-Dichloroethene                                                           | ND      | 0.200 | --  | ND      | 0.793 | --  |           | 1               |
| Ethyl Acetate                                                                    | ND      | 0.500 | --  | ND      | 1.80  | --  |           | 1               |
| Chloroform                                                                       | ND      | 0.200 | --  | ND      | 0.977 | --  |           | 1               |



Project Name: 131 SUNNYSIDE BLVD

Lab Number: L2246050

Project Number: 30017762.00012

Report Date: 08/31/22

### Method Blank Analysis Batch Quality Control

Analytical Method: 48,TO-15

Analytical Date: 08/29/22 15:04

| Parameter                                                                        | ppbV    |       |     | ug/m3   |       |     | Qualifier | Dilution Factor |
|----------------------------------------------------------------------------------|---------|-------|-----|---------|-------|-----|-----------|-----------------|
|                                                                                  | Results | RL    | MDL | Results | RL    | MDL |           |                 |
| Volatile Organics in Air - Mansfield Lab for sample(s): 01-02 Batch: WG1681036-4 |         |       |     |         |       |     |           |                 |
| Tetrahydrofuran                                                                  | ND      | 0.500 | --  | ND      | 1.47  | --  |           | 1               |
| 1,2-Dichloroethane                                                               | ND      | 0.200 | --  | ND      | 0.809 | --  |           | 1               |
| n-Hexane                                                                         | ND      | 0.200 | --  | ND      | 0.705 | --  |           | 1               |
| 1,1,1-Trichloroethane                                                            | ND      | 0.200 | --  | ND      | 1.09  | --  |           | 1               |
| Benzene                                                                          | ND      | 0.200 | --  | ND      | 0.639 | --  |           | 1               |
| Carbon tetrachloride                                                             | ND      | 0.200 | --  | ND      | 1.26  | --  |           | 1               |
| Cyclohexane                                                                      | ND      | 0.200 | --  | ND      | 0.688 | --  |           | 1               |
| 1,2-Dichloropropane                                                              | ND      | 0.200 | --  | ND      | 0.924 | --  |           | 1               |
| Bromodichloromethane                                                             | ND      | 0.200 | --  | ND      | 1.34  | --  |           | 1               |
| 1,4-Dioxane                                                                      | ND      | 0.200 | --  | ND      | 0.721 | --  |           | 1               |
| Trichloroethene                                                                  | ND      | 0.200 | --  | ND      | 1.07  | --  |           | 1               |
| 2,2,4-Trimethylpentane                                                           | ND      | 0.200 | --  | ND      | 0.934 | --  |           | 1               |
| Heptane                                                                          | ND      | 0.200 | --  | ND      | 0.820 | --  |           | 1               |
| cis-1,3-Dichloropropene                                                          | ND      | 0.200 | --  | ND      | 0.908 | --  |           | 1               |
| 4-Methyl-2-pentanone                                                             | ND      | 0.500 | --  | ND      | 2.05  | --  |           | 1               |
| trans-1,3-Dichloropropene                                                        | ND      | 0.200 | --  | ND      | 0.908 | --  |           | 1               |
| 1,1,2-Trichloroethane                                                            | ND      | 0.200 | --  | ND      | 1.09  | --  |           | 1               |
| Toluene                                                                          | ND      | 0.200 | --  | ND      | 0.754 | --  |           | 1               |
| 2-Hexanone                                                                       | ND      | 0.200 | --  | ND      | 0.820 | --  |           | 1               |
| Dibromochloromethane                                                             | ND      | 0.200 | --  | ND      | 1.70  | --  |           | 1               |
| 1,2-Dibromoethane                                                                | ND      | 0.200 | --  | ND      | 1.54  | --  |           | 1               |
| Tetrachloroethene                                                                | ND      | 0.200 | --  | ND      | 1.36  | --  |           | 1               |
| Chlorobenzene                                                                    | ND      | 0.200 | --  | ND      | 0.921 | --  |           | 1               |
| Ethylbenzene                                                                     | ND      | 0.200 | --  | ND      | 0.869 | --  |           | 1               |
| p/m-Xylene                                                                       | ND      | 0.400 | --  | ND      | 1.74  | --  |           | 1               |



Project Name: 131 SUNNYSIDE BLVD

Lab Number: L2246050

Project Number: 30017762.00012

Report Date: 08/31/22

### Method Blank Analysis Batch Quality Control

Analytical Method: 48,TO-15

Analytical Date: 08/29/22 15:04

| Parameter                                                                        | ppbV    |       |     | ug/m3   |       |     | Qualifier | Dilution Factor |
|----------------------------------------------------------------------------------|---------|-------|-----|---------|-------|-----|-----------|-----------------|
|                                                                                  | Results | RL    | MDL | Results | RL    | MDL |           |                 |
| Volatile Organics in Air - Mansfield Lab for sample(s): 01-02 Batch: WG1681036-4 |         |       |     |         |       |     |           |                 |
| Bromoform                                                                        | ND      | 0.200 | --  | ND      | 2.07  | --  |           | 1               |
| Styrene                                                                          | ND      | 0.200 | --  | ND      | 0.852 | --  |           | 1               |
| 1,1,2,2-Tetrachloroethane                                                        | ND      | 0.200 | --  | ND      | 1.37  | --  |           | 1               |
| o-Xylene                                                                         | ND      | 0.200 | --  | ND      | 0.869 | --  |           | 1               |
| 4-Ethyltoluene                                                                   | ND      | 0.200 | --  | ND      | 0.983 | --  |           | 1               |
| 1,3,5-Trimethylbenzene                                                           | ND      | 0.200 | --  | ND      | 0.983 | --  |           | 1               |
| 1,2,4-Trimethylbenzene                                                           | ND      | 0.200 | --  | ND      | 0.983 | --  |           | 1               |
| Benzyl chloride                                                                  | ND      | 0.200 | --  | ND      | 1.04  | --  |           | 1               |
| 1,3-Dichlorobenzene                                                              | ND      | 0.200 | --  | ND      | 1.20  | --  |           | 1               |
| 1,4-Dichlorobenzene                                                              | ND      | 0.200 | --  | ND      | 1.20  | --  |           | 1               |
| 1,2-Dichlorobenzene                                                              | ND      | 0.200 | --  | ND      | 1.20  | --  |           | 1               |
| 1,2,4-Trichlorobenzene                                                           | ND      | 0.200 | --  | ND      | 1.48  | --  |           | 1               |
| Hexachlorobutadiene                                                              | ND      | 0.200 | --  | ND      | 2.13  | --  |           | 1               |

# **Lab Control Sample Analysis** **Batch Quality Control**

**Project Name:** 131 SUNNYSIDE BLVD

**Project Number:** 30017762.00012

**Lab Number:** L2246050

**Report Date:** 08/31/22

| Parameter                                                                               | LCS<br>%Recovery | Qual | LCSD<br>%Recovery | Qual | %Recovery<br>Limits | RPD | Qual | RPD<br>Limits |
|-----------------------------------------------------------------------------------------|------------------|------|-------------------|------|---------------------|-----|------|---------------|
| Volatile Organics in Air - Mansfield Lab Associated sample(s): 01-02 Batch: WG1681036-3 |                  |      |                   |      |                     |     |      |               |
| Dichlorodifluoromethane                                                                 | 104              |      | -                 |      | 70-130              | -   |      |               |
| Chloromethane                                                                           | 106              |      | -                 |      | 70-130              | -   |      |               |
| Freon-114                                                                               | 108              |      | -                 |      | 70-130              | -   |      |               |
| Vinyl chloride                                                                          | 109              |      | -                 |      | 70-130              | -   |      |               |
| 1,3-Butadiene                                                                           | 106              |      | -                 |      | 70-130              | -   |      |               |
| Bromomethane                                                                            | 110              |      | -                 |      | 70-130              | -   |      |               |
| Chloroethane                                                                            | 114              |      | -                 |      | 70-130              | -   |      |               |
| Ethanol                                                                                 | 100              |      | -                 |      | 40-160              | -   |      |               |
| Vinyl bromide                                                                           | 95               |      | -                 |      | 70-130              | -   |      |               |
| Acetone                                                                                 | 115              |      | -                 |      | 40-160              | -   |      |               |
| Trichlorofluoromethane                                                                  | 113              |      | -                 |      | 70-130              | -   |      |               |
| Isopropanol                                                                             | 104              |      | -                 |      | 40-160              | -   |      |               |
| 1,1-Dichloroethene                                                                      | 105              |      | -                 |      | 70-130              | -   |      |               |
| Tertiary butyl Alcohol                                                                  | 97               |      | -                 |      | 70-130              | -   |      |               |
| Methylene chloride                                                                      | 94               |      | -                 |      | 70-130              | -   |      |               |
| 3-Chloropropene                                                                         | 102              |      | -                 |      | 70-130              | -   |      |               |
| Carbon disulfide                                                                        | 92               |      | -                 |      | 70-130              | -   |      |               |
| Freon-113                                                                               | 102              |      | -                 |      | 70-130              | -   |      |               |
| trans-1,2-Dichloroethene                                                                | 96               |      | -                 |      | 70-130              | -   |      |               |
| 1,1-Dichloroethane                                                                      | 102              |      | -                 |      | 70-130              | -   |      |               |
| Methyl tert butyl ether                                                                 | 99               |      | -                 |      | 70-130              | -   |      |               |
| 2-Butanone                                                                              | 95               |      | -                 |      | 70-130              | -   |      |               |
| cis-1,2-Dichloroethene                                                                  | 106              |      | -                 |      | 70-130              | -   |      |               |

## Lab Control Sample Analysis

### Batch Quality Control

**Project Name:** 131 SUNNYSIDE BLVD

**Project Number:** 30017762.00012

**Lab Number:** L2246050

**Report Date:** 08/31/22

| Parameter                                                                               | LCS<br>%Recovery | Qual | LCSD<br>%Recovery | Qual | %Recovery<br>Limits | RPD | Qual | RPD<br>Limits |
|-----------------------------------------------------------------------------------------|------------------|------|-------------------|------|---------------------|-----|------|---------------|
| Volatile Organics in Air - Mansfield Lab Associated sample(s): 01-02 Batch: WG1681036-3 |                  |      |                   |      |                     |     |      |               |
| Ethyl Acetate                                                                           | 101              |      | -                 |      | 70-130              | -   |      |               |
| Chloroform                                                                              | 110              |      | -                 |      | 70-130              | -   |      |               |
| Tetrahydrofuran                                                                         | 93               |      | -                 |      | 70-130              | -   |      |               |
| 1,2-Dichloroethane                                                                      | 104              |      | -                 |      | 70-130              | -   |      |               |
| n-Hexane                                                                                | 113              |      | -                 |      | 70-130              | -   |      |               |
| 1,1,1-Trichloroethane                                                                   | 116              |      | -                 |      | 70-130              | -   |      |               |
| Benzene                                                                                 | 110              |      | -                 |      | 70-130              | -   |      |               |
| Carbon tetrachloride                                                                    | 122              |      | -                 |      | 70-130              | -   |      |               |
| Cyclohexane                                                                             | 112              |      | -                 |      | 70-130              | -   |      |               |
| 1,2-Dichloropropane                                                                     | 111              |      | -                 |      | 70-130              | -   |      |               |
| Bromodichloromethane                                                                    | 117              |      | -                 |      | 70-130              | -   |      |               |
| 1,4-Dioxane                                                                             | 111              |      | -                 |      | 70-130              | -   |      |               |
| Trichloroethene                                                                         | 111              |      | -                 |      | 70-130              | -   |      |               |
| 2,2,4-Trimethylpentane                                                                  | 113              |      | -                 |      | 70-130              | -   |      |               |
| Heptane                                                                                 | 106              |      | -                 |      | 70-130              | -   |      |               |
| cis-1,3-Dichloropropene                                                                 | 121              |      | -                 |      | 70-130              | -   |      |               |
| 4-Methyl-2-pentanone                                                                    | 112              |      | -                 |      | 70-130              | -   |      |               |
| trans-1,3-Dichloropropene                                                               | 103              |      | -                 |      | 70-130              | -   |      |               |
| 1,1,2-Trichloroethane                                                                   | 112              |      | -                 |      | 70-130              | -   |      |               |
| Toluene                                                                                 | 96               |      | -                 |      | 70-130              | -   |      |               |
| 2-Hexanone                                                                              | 96               |      | -                 |      | 70-130              | -   |      |               |
| Dibromochloromethane                                                                    | 102              |      | -                 |      | 70-130              | -   |      |               |
| 1,2-Dibromoethane                                                                       | 99               |      | -                 |      | 70-130              | -   |      |               |

## Lab Control Sample Analysis

### Batch Quality Control

**Project Name:** 131 SUNNYSIDE BLVD

**Project Number:** 30017762.00012

**Lab Number:** L2246050

**Report Date:** 08/31/22

| Parameter                                                                               | LCS<br>%Recovery | Qual | LCSD<br>%Recovery | Qual | %Recovery<br>Limits | RPD | Qual | RPD<br>Limits |
|-----------------------------------------------------------------------------------------|------------------|------|-------------------|------|---------------------|-----|------|---------------|
| Volatile Organics in Air - Mansfield Lab Associated sample(s): 01-02 Batch: WG1681036-3 |                  |      |                   |      |                     |     |      |               |
| Tetrachloroethene                                                                       | 95               |      | -                 |      | 70-130              | -   |      |               |
| Chlorobenzene                                                                           | 98               |      | -                 |      | 70-130              | -   |      |               |
| Ethylbenzene                                                                            | 102              |      | -                 |      | 70-130              | -   |      |               |
| p/m-Xylene                                                                              | 103              |      | -                 |      | 70-130              | -   |      |               |
| Bromoform                                                                               | 107              |      | -                 |      | 70-130              | -   |      |               |
| Styrene                                                                                 | 102              |      | -                 |      | 70-130              | -   |      |               |
| 1,1,2,2-Tetrachloroethane                                                               | 104              |      | -                 |      | 70-130              | -   |      |               |
| o-Xylene                                                                                | 108              |      | -                 |      | 70-130              | -   |      |               |
| 4-Ethyltoluene                                                                          | 98               |      | -                 |      | 70-130              | -   |      |               |
| 1,3,5-Trimethylbenzene                                                                  | 106              |      | -                 |      | 70-130              | -   |      |               |
| 1,2,4-Trimethylbenzene                                                                  | 107              |      | -                 |      | 70-130              | -   |      |               |
| Benzyl chloride                                                                         | 92               |      | -                 |      | 70-130              | -   |      |               |
| 1,3-Dichlorobenzene                                                                     | 105              |      | -                 |      | 70-130              | -   |      |               |
| 1,4-Dichlorobenzene                                                                     | 107              |      | -                 |      | 70-130              | -   |      |               |
| 1,2-Dichlorobenzene                                                                     | 110              |      | -                 |      | 70-130              | -   |      |               |
| 1,2,4-Trichlorobenzene                                                                  | 117              |      | -                 |      | 70-130              | -   |      |               |
| Hexachlorobutadiene                                                                     | 116              |      | -                 |      | 70-130              | -   |      |               |

**Project Name:** 131 SUNNYSIDE BLVD**Lab Number:** L2246050**Project Number:** 30017762.00012**Report Date:** 08/31/22**Sample Receipt and Container Information**

Were project specific reporting limits specified?

YES

**Cooler Information**

|               |                     |
|---------------|---------------------|
| <b>Cooler</b> | <b>Custody Seal</b> |
| NA            | Present/Intact      |

**Container Information**

| <b>Container ID</b> | <b>Container Type</b>                    | <b>Cooler</b> | <b>Initial<br/>pH</b> | <b>Final<br/>pH</b> | <b>Temp<br/>deg C</b> | <b>Pres</b> | <b>Seal</b> | <b>Frozen<br/>Date/Time</b> | <b>Analysis(*)</b> |
|---------------------|------------------------------------------|---------------|-----------------------|---------------------|-----------------------|-------------|-------------|-----------------------------|--------------------|
| L2246050-01A        | Tedlar Bag 5 liter-Polypropylene Fitting | NA            | NA                    |                     |                       | Y           | Absent      |                             | TO15-LL(30)        |
| L2246050-01B        | Tedlar Bag 5 liter-Polypropylene Fitting | NA            | NA                    |                     |                       | Y           | Absent      |                             | TO15-LL(30)        |
| L2246050-01X        | Tedlar Bag 5 liter-Polypropylene Fitting | NA            | NA                    |                     |                       | Y           | Absent      |                             | TO15-LL(30)        |
| L2246050-02A        | Tedlar Bag 5 liter-Polypropylene Fitting | NA            | NA                    |                     |                       | Y           | Absent      |                             | TO15-LL(30)        |
| L2246050-02B        | Tedlar Bag 5 liter-Polypropylene Fitting | NA            | NA                    |                     |                       | Y           | Absent      |                             | TO15-LL(30)        |
| L2246050-02X        | Tedlar Bag 5 liter-Polypropylene Fitting | NA            | NA                    |                     |                       | Y           | Absent      |                             | TO15-LL(30)        |

**Project Name:** 131 SUNNYSIDE BLVD**Lab Number:** L2246050**Project Number:** 30017762.00012**Report Date:** 08/31/22

## GLOSSARY

### Acronyms

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

*Report Format: Data Usability Report*

**Project Name:** 131 SUNNYSIDE BLVD  
**Project Number:** 30017762.00012

**Lab Number:** L2246050  
**Report Date:** 08/31/22

## Footnotes

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

## Terms

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

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

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

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

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

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

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

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

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

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

## Data Qualifiers

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

**Report Format:** Data Usability Report



**Project Name:** 131 SUNNYSIDE BLVD**Lab Number:** L2246050**Project Number:** 30017762.00012**Report Date:** 08/31/22**Data Qualifiers**

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

**Project Name:** 131 SUNNYSIDE BLVD  
**Project Number:** 30017762.00012

**Lab Number:** L2246050  
**Report Date:** 08/31/22

## REFERENCES

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

## LIMITATION OF LIABILITIES

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

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



## Certification Information

The following analytes are not included in our Primary NELAP Scope of Accreditation:

### Westborough Facility

**EPA 624/624.1:** m/p-xylene, o-xylene, Naphthalene

**EPA 625/625.1:** alpha-Terpineol

**EPA 8260C/8260D:** NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene, Azobenzene; SCM: Iodomethane (methyl iodide), 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.

**EPA 8270D/8270E:** NPW: Dimethylnaphthalene, 1,4-Diphenylhydrazine, alpha-Terpineol; SCM: Dimethylnaphthalene, 1,4-Diphenylhydrazine.

**SM4500:** NPW: Amenable Cyanide; SCM: Total Phosphorus, TKN, NO<sub>2</sub>, NO<sub>3</sub>.

### Mansfield Facility

**SM 2540D:** TSS

**EPA 8082A:** NPW: PCB: 1, 5, 31, 87, 101, 110, 141, 151, 153, 180, 183, 187.

**EPA TO-15:** Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene,

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

**Biological Tissue Matrix:** EPA 3050B

The following analytes are included in our Massachusetts DEP Scope of Accreditation

### Westborough Facility:

#### Drinking Water

**EPA 300.0:** Chloride, Nitrate-N, Fluoride, Sulfate; **EPA 353.2:** Nitrate-N, Nitrite-N; **SM4500NO3-F:** Nitrate-N, Nitrite-N; **SM4500F-C, SM4500CN-CE,**

**EPA 180.1, SM2130B, SM4500CI-D, SM2320B, SM2540C, SM4500H-B, SM4500NO2-B**

**EPA 332:** Perchlorate; **EPA 524.2:** THMs and VOCs; **EPA 504.1:** EDB, DBCP.

**Microbiology:** **SM9215B; SM9223-P/A, SM9223B-Colilert-QT, SM9222D.**

#### Non-Potable Water

**SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2320B, SM4500CL-E, SM4500F-BC, SM4500NH3-BH:** Ammonia-N and Kjeldahl-N, **EPA 350.1:**

Ammonia-N, **LACHAT 10-107-06-1-B:** Ammonia-N, **EPA 351.1, SM4500NO3-F, EPA 353.2:** Nitrate-N, **SM4500P-E, SM4500P-B, E, SM4500SO4-E,**

**SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, EPA 420.1, SM4500-CN-CE, SM2540D, EPA 300:** Chloride, Sulfate, Nitrate.

**EPA 624.1:** Volatile Halocarbons & Aromatics,

**EPA 608.3:** Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs

**EPA 625.1:** SVOC (Acid/Base/Neutral Extractables), **EPA 600/4-81-045:** PCB-Oil.

**Microbiology:** **SM9223B-Colilert-QT; Enterolert-QT, SM9221E, EPA 1600, EPA 1603, SM9222D.**

### Mansfield Facility:

#### Drinking Water

**EPA 200.7:** Al, Ba, Cd, Cr, Cu, Fe, Mn, Ni, Na, Ag, Ca, Zn. **EPA 200.8:** Al, Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn. **EPA 245.1 Hg.**

**EPA 522, EPA 537.1.**

#### Non-Potable Water

**EPA 200.7:** Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, TL, Ti, V, Zn.

**EPA 200.8:** Al, Sb, As, Be, Cd, Cr, Cu, Fe, Pb, Mn, Ni, K, Se, Ag, Na, TL, Zn.

**EPA 245.1 Hg.**

**SM2340B**

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





## ANALYTICAL REPORT

|                 |                                                                                            |
|-----------------|--------------------------------------------------------------------------------------------|
| Lab Number:     | L2247457                                                                                   |
| Client:         | Arcadis of New York, Inc.<br>Two Huntington Quadrangle<br>Suite 1S10<br>Melville, NY 11747 |
| ATTN:           | Steven Feldman                                                                             |
| Phone:          | (631) 249-7600                                                                             |
| Project Name:   | 131 SUNNYSIDE BLVD.                                                                        |
| Project Number: | 30017762.00012                                                                             |
| Report Date:    | 09/09/22                                                                                   |

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Certifications & Approvals: MA (M-MA030), NH NELAP (2062), CT (PH-0141), DoD (L2474), FL (E87814), IL (200081), LA (85084), ME (MA00030), MD (350), NJ (MA015), NY (11627), NC (685), OH (CL106), PA (68-02089), RI (LAO00299), TX (T104704419), VT (VT-0015), VA (460194), WA (C954), US Army Corps of Engineers, USDA (Permit #P330-17-00150), USFWS (Permit #206964).

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508-822-9300 (Fax) 508-822-3288 800-624-9220 - [www.alphalab.com](http://www.alphalab.com)



**Project Name:** 131 SUNNYSIDE BLVD.  
**Project Number:** 30017762.00012

**Lab Number:** L2247457  
**Report Date:** 09/09/22

| <b>Alpha<br/>Sample ID</b> | <b>Client ID</b> | <b>Matrix</b> | <b>Sample<br/>Location</b> | <b>Collection<br/>Date/Time</b> | <b>Receive Date</b> |
|----------------------------|------------------|---------------|----------------------------|---------------------------------|---------------------|
| L2247457-01                | SVE-2            | SOIL_VAPOR    | PLAINVIEW, NY              | 09/01/22 11:45                  | 09/01/22            |

**Project Name:** 131 SUNNYSIDE BLVD.  
**Project Number:** 30017762.00012

**Lab Number:** L2247457  
**Report Date:** 09/09/22

### Case Narrative

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

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

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

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

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

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

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**Project Name:** 131 SUNNYSIDE BLVD.**Lab Number:** L2247457**Project Number:** 30017762.00012**Report Date:** 09/09/22**Case Narrative (continued)**

## Volatile Organics in Air

L2247457-01D: Samples were transferred from a Tedlar bag into a fused silica lined canister upon receipt in order to extend the holding time for analysis.

LL2247457-01D: The sample has elevated detection limits due to the dilution required by the elevated concentrations of target compounds in the sample.

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

Authorized Signature:  Christopher J. Anderson

Title: Technical Director/Representative

Date: 09/09/22

**AIR**

**Project Name:** 131 SUNNYSIDE BLVD.**Project Number:** 30017762.00012**Lab Number:** L2247457**Report Date:** 09/09/22**SAMPLE RESULTS**

Lab ID: L2247457-01 D

Client ID: SVE-2

Sample Location: PLAINVIEW, NY

Date Collected: 09/01/22 11:45

Date Received: 09/01/22

Field Prep: Not Specified

Sample Depth:

Matrix: Soil\_Vapor

Analytical Method: 48,TO-15

Analytical Date: 09/08/22 02:12

Analyst: TS

| Parameter                                | ppbV    |       |     | ug/m3   |      |     | Qualifier | Dilution Factor |
|------------------------------------------|---------|-------|-----|---------|------|-----|-----------|-----------------|
|                                          | Results | RL    | MDL | Results | RL   | MDL |           |                 |
| Volatile Organics in Air - Mansfield Lab |         |       |     |         |      |     |           |                 |
| Dichlorodifluoromethane                  | ND      | 0.526 | --  | ND      | 2.60 | --  |           | 2.632           |
| Chloromethane                            | ND      | 0.526 | --  | ND      | 1.09 | --  |           | 2.632           |
| Freon-114                                | ND      | 0.526 | --  | ND      | 3.68 | --  |           | 2.632           |
| Vinyl chloride                           | 3.31    | 0.526 | --  | 8.46    | 1.34 | --  |           | 2.632           |
| 1,3-Butadiene                            | ND      | 0.526 | --  | ND      | 1.16 | --  |           | 2.632           |
| Bromomethane                             | ND      | 0.526 | --  | ND      | 2.04 | --  |           | 2.632           |
| Chloroethane                             | ND      | 0.526 | --  | ND      | 1.39 | --  |           | 2.632           |
| Ethanol                                  | ND      | 13.2  | --  | ND      | 24.9 | --  |           | 2.632           |
| Vinyl bromide                            | ND      | 0.526 | --  | ND      | 2.30 | --  |           | 2.632           |
| Acetone                                  | 3.73    | 2.63  | --  | 8.86    | 6.25 | --  |           | 2.632           |
| Trichlorofluoromethane                   | 0.755   | 0.526 | --  | 4.24    | 2.96 | --  |           | 2.632           |
| Isopropanol                              | 8.26    | 1.32  | --  | 20.3    | 3.24 | --  |           | 2.632           |
| 1,1-Dichloroethene                       | ND      | 0.526 | --  | ND      | 2.09 | --  |           | 2.632           |
| Tertiary butyl Alcohol                   | ND      | 1.32  | --  | ND      | 4.00 | --  |           | 2.632           |
| Methylene chloride                       | ND      | 1.32  | --  | ND      | 4.59 | --  |           | 2.632           |
| 3-Chloropropene                          | ND      | 0.526 | --  | ND      | 1.65 | --  |           | 2.632           |
| Carbon disulfide                         | 1.75    | 0.526 | --  | 5.45    | 1.64 | --  |           | 2.632           |
| Freon-113                                | ND      | 0.526 | --  | ND      | 4.03 | --  |           | 2.632           |
| trans-1,2-Dichloroethene                 | 1.02    | 0.526 | --  | 4.04    | 2.09 | --  |           | 2.632           |
| 1,1-Dichloroethane                       | ND      | 0.526 | --  | ND      | 2.13 | --  |           | 2.632           |
| Methyl tert butyl ether                  | ND      | 0.526 | --  | ND      | 1.90 | --  |           | 2.632           |
| 2-Butanone                               | 5.10    | 1.32  | --  | 15.0    | 3.89 | --  |           | 2.632           |
| cis-1,2-Dichloroethene                   | 10.1    | 0.526 | --  | 40.0    | 2.09 | --  |           | 2.632           |



**Project Name:** 131 SUNNYSIDE BLVD.**Lab Number:** L2247457**Project Number:** 30017762.00012**Report Date:** 09/09/22**SAMPLE RESULTS**

Lab ID: L2247457-01 D

Client ID: SVE-2

Sample Location: PLAINVIEW, NY

Date Collected: 09/01/22 11:45

Date Received: 09/01/22

Field Prep: Not Specified

Sample Depth:

| Parameter                                | ppbV    |       |     | ug/m3   |      |     | Qualifier | Dilution Factor |
|------------------------------------------|---------|-------|-----|---------|------|-----|-----------|-----------------|
|                                          | Results | RL    | MDL | Results | RL   | MDL |           |                 |
| Volatile Organics in Air - Mansfield Lab |         |       |     |         |      |     |           |                 |
| Ethyl Acetate                            | ND      | 1.32  | --  | ND      | 4.76 | --  |           | 2.632           |
| Chloroform                               | ND      | 0.526 | --  | ND      | 2.57 | --  |           | 2.632           |
| Tetrahydrofuran                          | 198     | 1.32  | --  | 584     | 3.89 | --  |           | 2.632           |
| 1,2-Dichloroethane                       | ND      | 0.526 | --  | ND      | 2.13 | --  |           | 2.632           |
| n-Hexane                                 | ND      | 0.526 | --  | ND      | 1.85 | --  |           | 2.632           |
| 1,1,1-Trichloroethane                    | ND      | 0.526 | --  | ND      | 2.87 | --  |           | 2.632           |
| Benzene                                  | ND      | 0.526 | --  | ND      | 1.68 | --  |           | 2.632           |
| Carbon tetrachloride                     | ND      | 0.526 | --  | ND      | 3.31 | --  |           | 2.632           |
| Cyclohexane                              | ND      | 0.526 | --  | ND      | 1.81 | --  |           | 2.632           |
| 1,2-Dichloropropane                      | ND      | 0.526 | --  | ND      | 2.43 | --  |           | 2.632           |
| Bromodichloromethane                     | ND      | 0.526 | --  | ND      | 3.52 | --  |           | 2.632           |
| 1,4-Dioxane                              | ND      | 0.526 | --  | ND      | 1.90 | --  |           | 2.632           |
| Trichloroethene                          | 18.3    | 0.526 | --  | 98.3    | 2.83 | --  |           | 2.632           |
| 2,2,4-Trimethylpentane                   | ND      | 0.526 | --  | ND      | 2.46 | --  |           | 2.632           |
| Heptane                                  | ND      | 0.526 | --  | ND      | 2.16 | --  |           | 2.632           |
| cis-1,3-Dichloropropene                  | ND      | 0.526 | --  | ND      | 2.39 | --  |           | 2.632           |
| 4-Methyl-2-pentanone                     | ND      | 1.32  | --  | ND      | 5.41 | --  |           | 2.632           |
| trans-1,3-Dichloropropene                | ND      | 0.526 | --  | ND      | 2.39 | --  |           | 2.632           |
| 1,1,2-Trichloroethane                    | ND      | 0.526 | --  | ND      | 2.87 | --  |           | 2.632           |
| Toluene                                  | 0.642   | 0.526 | --  | 2.42    | 1.98 | --  |           | 2.632           |
| 2-Hexanone                               | ND      | 0.526 | --  | ND      | 2.16 | --  |           | 2.632           |
| Dibromochloromethane                     | ND      | 0.526 | --  | ND      | 4.48 | --  |           | 2.632           |
| 1,2-Dibromoethane                        | ND      | 0.526 | --  | ND      | 4.04 | --  |           | 2.632           |
| Tetrachloroethene                        | 1.00    | 0.526 | --  | 6.78    | 3.57 | --  |           | 2.632           |
| Chlorobenzene                            | ND      | 0.526 | --  | ND      | 2.42 | --  |           | 2.632           |
| Ethylbenzene                             | ND      | 0.526 | --  | ND      | 2.28 | --  |           | 2.632           |



**Project Name:** 131 SUNNYSIDE BLVD.**Lab Number:** L2247457**Project Number:** 30017762.00012**Report Date:** 09/09/22**SAMPLE RESULTS**

Lab ID: L2247457-01 D

Client ID: SVE-2

Sample Location: PLAINVIEW, NY

Date Collected: 09/01/22 11:45

Date Received: 09/01/22

Field Prep: Not Specified

Sample Depth:

| Parameter                                | ppbV    |       |     | ug/m3   |      |     | Qualifier | Dilution Factor |
|------------------------------------------|---------|-------|-----|---------|------|-----|-----------|-----------------|
|                                          | Results | RL    | MDL | Results | RL   | MDL |           |                 |
| Volatile Organics in Air - Mansfield Lab |         |       |     |         |      |     |           |                 |
| p/m-Xylene                               | 1.62    | 1.05  | --  | 7.04    | 4.56 | --  |           | 2.632           |
| Bromoform                                | ND      | 0.526 | --  | ND      | 5.44 | --  |           | 2.632           |
| Styrene                                  | ND      | 0.526 | --  | ND      | 2.24 | --  |           | 2.632           |
| 1,1,2,2-Tetrachloroethane                | ND      | 0.526 | --  | ND      | 3.61 | --  |           | 2.632           |
| o-Xylene                                 | 0.576   | 0.526 | --  | 2.50    | 2.28 | --  |           | 2.632           |
| 4-Ethyltoluene                           | ND      | 0.526 | --  | ND      | 2.59 | --  |           | 2.632           |
| 1,3,5-Trimethylbenzene                   | ND      | 0.526 | --  | ND      | 2.59 | --  |           | 2.632           |
| 1,2,4-Trimethylbenzene                   | ND      | 0.526 | --  | ND      | 2.59 | --  |           | 2.632           |
| Benzyl chloride                          | ND      | 0.526 | --  | ND      | 2.72 | --  |           | 2.632           |
| 1,3-Dichlorobenzene                      | ND      | 0.526 | --  | ND      | 3.16 | --  |           | 2.632           |
| 1,4-Dichlorobenzene                      | ND      | 0.526 | --  | ND      | 3.16 | --  |           | 2.632           |
| 1,2-Dichlorobenzene                      | ND      | 0.526 | --  | ND      | 3.16 | --  |           | 2.632           |
| 1,2,4-Trichlorobenzene                   | ND      | 0.526 | --  | ND      | 3.90 | --  |           | 2.632           |
| Hexachlorobutadiene                      | ND      | 0.526 | --  | ND      | 5.61 | --  |           | 2.632           |

| Internal Standard   | % Recovery | Qualifier | Acceptance Criteria |
|---------------------|------------|-----------|---------------------|
| 1,4-Difluorobenzene | 94         |           | 60-140              |
| Bromochloromethane  | 95         |           | 60-140              |
| chlorobenzene-d5    | 105        |           | 60-140              |



Project Name: 131 SUNNYSIDE BLVD.

Lab Number: L2247457

Project Number: 30017762.00012

Report Date: 09/09/22

### Method Blank Analysis Batch Quality Control

Analytical Method: 48,TO-15

Analytical Date: 09/07/22 15:26

| Parameter                                                                     | ppbV    |       |     | ug/m3   |       |     | Qualifier | Dilution Factor |
|-------------------------------------------------------------------------------|---------|-------|-----|---------|-------|-----|-----------|-----------------|
|                                                                               | Results | RL    | MDL | Results | RL    | MDL |           |                 |
| Volatile Organics in Air - Mansfield Lab for sample(s): 01 Batch: WG1684577-4 |         |       |     |         |       |     |           |                 |
| Dichlorodifluoromethane                                                       | ND      | 0.200 | --  | ND      | 0.989 | --  |           | 1               |
| Chloromethane                                                                 | ND      | 0.200 | --  | ND      | 0.413 | --  |           | 1               |
| Freon-114                                                                     | ND      | 0.200 | --  | ND      | 1.40  | --  |           | 1               |
| Vinyl chloride                                                                | ND      | 0.200 | --  | ND      | 0.511 | --  |           | 1               |
| 1,3-Butadiene                                                                 | ND      | 0.200 | --  | ND      | 0.442 | --  |           | 1               |
| Bromomethane                                                                  | ND      | 0.200 | --  | ND      | 0.777 | --  |           | 1               |
| Chloroethane                                                                  | ND      | 0.200 | --  | ND      | 0.528 | --  |           | 1               |
| Ethanol                                                                       | ND      | 5.00  | --  | ND      | 9.42  | --  |           | 1               |
| Vinyl bromide                                                                 | ND      | 0.200 | --  | ND      | 0.874 | --  |           | 1               |
| Acetone                                                                       | ND      | 1.00  | --  | ND      | 2.38  | --  |           | 1               |
| Trichlorofluoromethane                                                        | ND      | 0.200 | --  | ND      | 1.12  | --  |           | 1               |
| Isopropanol                                                                   | ND      | 0.500 | --  | ND      | 1.23  | --  |           | 1               |
| 1,1-Dichloroethene                                                            | ND      | 0.200 | --  | ND      | 0.793 | --  |           | 1               |
| Tertiary butyl Alcohol                                                        | ND      | 0.500 | --  | ND      | 1.52  | --  |           | 1               |
| Methylene chloride                                                            | ND      | 0.500 | --  | ND      | 1.74  | --  |           | 1               |
| 3-Chloropropene                                                               | ND      | 0.200 | --  | ND      | 0.626 | --  |           | 1               |
| Carbon disulfide                                                              | ND      | 0.200 | --  | ND      | 0.623 | --  |           | 1               |
| Freon-113                                                                     | ND      | 0.200 | --  | ND      | 1.53  | --  |           | 1               |
| trans-1,2-Dichloroethene                                                      | ND      | 0.200 | --  | ND      | 0.793 | --  |           | 1               |
| 1,1-Dichloroethane                                                            | ND      | 0.200 | --  | ND      | 0.809 | --  |           | 1               |
| Methyl tert butyl ether                                                       | ND      | 0.200 | --  | ND      | 0.721 | --  |           | 1               |
| 2-Butanone                                                                    | ND      | 0.500 | --  | ND      | 1.47  | --  |           | 1               |
| cis-1,2-Dichloroethene                                                        | ND      | 0.200 | --  | ND      | 0.793 | --  |           | 1               |
| Ethyl Acetate                                                                 | ND      | 0.500 | --  | ND      | 1.80  | --  |           | 1               |
| Chloroform                                                                    | ND      | 0.200 | --  | ND      | 0.977 | --  |           | 1               |



Project Name: 131 SUNNYSIDE BLVD.

Lab Number: L2247457

Project Number: 30017762.00012

Report Date: 09/09/22

### Method Blank Analysis Batch Quality Control

Analytical Method: 48,TO-15

Analytical Date: 09/07/22 15:26

| Parameter                                                                     | ppbV    |       |     | ug/m3   |       |     | Qualifier | Dilution Factor |
|-------------------------------------------------------------------------------|---------|-------|-----|---------|-------|-----|-----------|-----------------|
|                                                                               | Results | RL    | MDL | Results | RL    | MDL |           |                 |
| Volatile Organics in Air - Mansfield Lab for sample(s): 01 Batch: WG1684577-4 |         |       |     |         |       |     |           |                 |
| Tetrahydrofuran                                                               | ND      | 0.500 | --  | ND      | 1.47  | --  |           | 1               |
| 1,2-Dichloroethane                                                            | ND      | 0.200 | --  | ND      | 0.809 | --  |           | 1               |
| n-Hexane                                                                      | ND      | 0.200 | --  | ND      | 0.705 | --  |           | 1               |
| 1,1,1-Trichloroethane                                                         | ND      | 0.200 | --  | ND      | 1.09  | --  |           | 1               |
| Benzene                                                                       | ND      | 0.200 | --  | ND      | 0.639 | --  |           | 1               |
| Carbon tetrachloride                                                          | ND      | 0.200 | --  | ND      | 1.26  | --  |           | 1               |
| Cyclohexane                                                                   | ND      | 0.200 | --  | ND      | 0.688 | --  |           | 1               |
| 1,2-Dichloropropane                                                           | ND      | 0.200 | --  | ND      | 0.924 | --  |           | 1               |
| Bromodichloromethane                                                          | ND      | 0.200 | --  | ND      | 1.34  | --  |           | 1               |
| 1,4-Dioxane                                                                   | ND      | 0.200 | --  | ND      | 0.721 | --  |           | 1               |
| Trichloroethene                                                               | ND      | 0.200 | --  | ND      | 1.07  | --  |           | 1               |
| 2,2,4-Trimethylpentane                                                        | ND      | 0.200 | --  | ND      | 0.934 | --  |           | 1               |
| Heptane                                                                       | ND      | 0.200 | --  | ND      | 0.820 | --  |           | 1               |
| cis-1,3-Dichloropropene                                                       | ND      | 0.200 | --  | ND      | 0.908 | --  |           | 1               |
| 4-Methyl-2-pentanone                                                          | ND      | 0.500 | --  | ND      | 2.05  | --  |           | 1               |
| trans-1,3-Dichloropropene                                                     | ND      | 0.200 | --  | ND      | 0.908 | --  |           | 1               |
| 1,1,2-Trichloroethane                                                         | ND      | 0.200 | --  | ND      | 1.09  | --  |           | 1               |
| Toluene                                                                       | ND      | 0.200 | --  | ND      | 0.754 | --  |           | 1               |
| 2-Hexanone                                                                    | ND      | 0.200 | --  | ND      | 0.820 | --  |           | 1               |
| Dibromochloromethane                                                          | ND      | 0.200 | --  | ND      | 1.70  | --  |           | 1               |
| 1,2-Dibromoethane                                                             | ND      | 0.200 | --  | ND      | 1.54  | --  |           | 1               |
| Tetrachloroethene                                                             | ND      | 0.200 | --  | ND      | 1.36  | --  |           | 1               |
| Chlorobenzene                                                                 | ND      | 0.200 | --  | ND      | 0.921 | --  |           | 1               |
| Ethylbenzene                                                                  | ND      | 0.200 | --  | ND      | 0.869 | --  |           | 1               |
| p/m-Xylene                                                                    | ND      | 0.400 | --  | ND      | 1.74  | --  |           | 1               |



Project Name: 131 SUNNYSIDE BLVD.

Lab Number: L2247457

Project Number: 30017762.00012

Report Date: 09/09/22

### Method Blank Analysis Batch Quality Control

Analytical Method: 48,TO-15

Analytical Date: 09/07/22 15:26

| Parameter                                                                     | ppbV    |       |     | ug/m3   |       |     | Qualifier | Dilution Factor |
|-------------------------------------------------------------------------------|---------|-------|-----|---------|-------|-----|-----------|-----------------|
|                                                                               | Results | RL    | MDL | Results | RL    | MDL |           |                 |
| Volatile Organics in Air - Mansfield Lab for sample(s): 01 Batch: WG1684577-4 |         |       |     |         |       |     |           |                 |
| Bromoform                                                                     | ND      | 0.200 | --  | ND      | 2.07  | --  |           | 1               |
| Styrene                                                                       | ND      | 0.200 | --  | ND      | 0.852 | --  |           | 1               |
| 1,1,2,2-Tetrachloroethane                                                     | ND      | 0.200 | --  | ND      | 1.37  | --  |           | 1               |
| o-Xylene                                                                      | ND      | 0.200 | --  | ND      | 0.869 | --  |           | 1               |
| 4-Ethyltoluene                                                                | ND      | 0.200 | --  | ND      | 0.983 | --  |           | 1               |
| 1,3,5-Trimethylbenzene                                                        | ND      | 0.200 | --  | ND      | 0.983 | --  |           | 1               |
| 1,2,4-Trimethylbenzene                                                        | ND      | 0.200 | --  | ND      | 0.983 | --  |           | 1               |
| Benzyl chloride                                                               | ND      | 0.200 | --  | ND      | 1.04  | --  |           | 1               |
| 1,3-Dichlorobenzene                                                           | ND      | 0.200 | --  | ND      | 1.20  | --  |           | 1               |
| 1,4-Dichlorobenzene                                                           | ND      | 0.200 | --  | ND      | 1.20  | --  |           | 1               |
| 1,2-Dichlorobenzene                                                           | ND      | 0.200 | --  | ND      | 1.20  | --  |           | 1               |
| 1,2,4-Trichlorobenzene                                                        | ND      | 0.200 | --  | ND      | 1.48  | --  |           | 1               |
| Hexachlorobutadiene                                                           | ND      | 0.200 | --  | ND      | 2.13  | --  |           | 1               |

## Lab Control Sample Analysis

### Batch Quality Control

**Project Name:** 131 SUNNYSIDE BLVD.

**Project Number:** 30017762.00012

**Lab Number:** L2247457

**Report Date:** 09/09/22

| Parameter                                                                            | LCS<br>%Recovery | Qual | LCSD<br>%Recovery | Qual | %Recovery<br>Limits | RPD | Qual | RPD<br>Limits |
|--------------------------------------------------------------------------------------|------------------|------|-------------------|------|---------------------|-----|------|---------------|
| Volatile Organics in Air - Mansfield Lab Associated sample(s): 01 Batch: WG1684577-3 |                  |      |                   |      |                     |     |      |               |
| Dichlorodifluoromethane                                                              | 82               |      | -                 |      | 70-130              | -   |      |               |
| Chloromethane                                                                        | 102              |      | -                 |      | 70-130              | -   |      |               |
| Freon-114                                                                            | 97               |      | -                 |      | 70-130              | -   |      |               |
| Vinyl chloride                                                                       | 98               |      | -                 |      | 70-130              | -   |      |               |
| 1,3-Butadiene                                                                        | 94               |      | -                 |      | 70-130              | -   |      |               |
| Bromomethane                                                                         | 88               |      | -                 |      | 70-130              | -   |      |               |
| Chloroethane                                                                         | 94               |      | -                 |      | 70-130              | -   |      |               |
| Ethanol                                                                              | 79               |      | -                 |      | 40-160              | -   |      |               |
| Vinyl bromide                                                                        | 83               |      | -                 |      | 70-130              | -   |      |               |
| Acetone                                                                              | 97               |      | -                 |      | 40-160              | -   |      |               |
| Trichlorofluoromethane                                                               | 90               |      | -                 |      | 70-130              | -   |      |               |
| Isopropanol                                                                          | 88               |      | -                 |      | 40-160              | -   |      |               |
| 1,1-Dichloroethene                                                                   | 103              |      | -                 |      | 70-130              | -   |      |               |
| Tertiary butyl Alcohol                                                               | 94               |      | -                 |      | 70-130              | -   |      |               |
| Methylene chloride                                                                   | 102              |      | -                 |      | 70-130              | -   |      |               |
| 3-Chloropropene                                                                      | 104              |      | -                 |      | 70-130              | -   |      |               |
| Carbon disulfide                                                                     | 92               |      | -                 |      | 70-130              | -   |      |               |
| Freon-113                                                                            | 102              |      | -                 |      | 70-130              | -   |      |               |
| trans-1,2-Dichloroethene                                                             | 95               |      | -                 |      | 70-130              | -   |      |               |
| 1,1-Dichloroethane                                                                   | 101              |      | -                 |      | 70-130              | -   |      |               |
| Methyl tert butyl ether                                                              | 98               |      | -                 |      | 70-130              | -   |      |               |
| 2-Butanone                                                                           | 94               |      | -                 |      | 70-130              | -   |      |               |
| cis-1,2-Dichloroethene                                                               | 103              |      | -                 |      | 70-130              | -   |      |               |

## Lab Control Sample Analysis

### Batch Quality Control

**Project Name:** 131 SUNNYSIDE BLVD.

**Project Number:** 30017762.00012

**Lab Number:** L2247457

**Report Date:** 09/09/22

| Parameter                                                                            | LCS<br>%Recovery | Qual | LCSD<br>%Recovery | Qual | %Recovery<br>Limits | RPD | Qual | RPD<br>Limits |
|--------------------------------------------------------------------------------------|------------------|------|-------------------|------|---------------------|-----|------|---------------|
| Volatile Organics in Air - Mansfield Lab Associated sample(s): 01 Batch: WG1684577-3 |                  |      |                   |      |                     |     |      |               |
| Ethyl Acetate                                                                        | 93               |      | -                 |      | 70-130              | -   |      |               |
| Chloroform                                                                           | 101              |      | -                 |      | 70-130              | -   |      |               |
| Tetrahydrofuran                                                                      | 93               |      | -                 |      | 70-130              | -   |      |               |
| 1,2-Dichloroethane                                                                   | 95               |      | -                 |      | 70-130              | -   |      |               |
| n-Hexane                                                                             | 99               |      | -                 |      | 70-130              | -   |      |               |
| 1,1,1-Trichloroethane                                                                | 102              |      | -                 |      | 70-130              | -   |      |               |
| Benzene                                                                              | 100              |      | -                 |      | 70-130              | -   |      |               |
| Carbon tetrachloride                                                                 | 102              |      | -                 |      | 70-130              | -   |      |               |
| Cyclohexane                                                                          | 100              |      | -                 |      | 70-130              | -   |      |               |
| 1,2-Dichloropropane                                                                  | 105              |      | -                 |      | 70-130              | -   |      |               |
| Bromodichloromethane                                                                 | 98               |      | -                 |      | 70-130              | -   |      |               |
| 1,4-Dioxane                                                                          | 92               |      | -                 |      | 70-130              | -   |      |               |
| Trichloroethene                                                                      | 105              |      | -                 |      | 70-130              | -   |      |               |
| 2,2,4-Trimethylpentane                                                               | 101              |      | -                 |      | 70-130              | -   |      |               |
| Heptane                                                                              | 103              |      | -                 |      | 70-130              | -   |      |               |
| cis-1,3-Dichloropropene                                                              | 109              |      | -                 |      | 70-130              | -   |      |               |
| 4-Methyl-2-pentanone                                                                 | 102              |      | -                 |      | 70-130              | -   |      |               |
| trans-1,3-Dichloropropene                                                            | 93               |      | -                 |      | 70-130              | -   |      |               |
| 1,1,2-Trichloroethane                                                                | 105              |      | -                 |      | 70-130              | -   |      |               |
| Toluene                                                                              | 102              |      | -                 |      | 70-130              | -   |      |               |
| 2-Hexanone                                                                           | 96               |      | -                 |      | 70-130              | -   |      |               |
| Dibromochloromethane                                                                 | 103              |      | -                 |      | 70-130              | -   |      |               |
| 1,2-Dibromoethane                                                                    | 101              |      | -                 |      | 70-130              | -   |      |               |

## Lab Control Sample Analysis

### Batch Quality Control

**Project Name:** 131 SUNNYSIDE BLVD.

**Project Number:** 30017762.00012

**Lab Number:** L2247457

**Report Date:** 09/09/22

| Parameter                                                                            | LCS<br>%Recovery | Qual | LCSD<br>%Recovery | Qual | %Recovery<br>Limits | RPD | Qual | RPD<br>Limits |
|--------------------------------------------------------------------------------------|------------------|------|-------------------|------|---------------------|-----|------|---------------|
| Volatile Organics in Air - Mansfield Lab Associated sample(s): 01 Batch: WG1684577-3 |                  |      |                   |      |                     |     |      |               |
| Tetrachloroethene                                                                    | 102              |      | -                 |      | 70-130              | -   |      |               |
| Chlorobenzene                                                                        | 105              |      | -                 |      | 70-130              | -   |      |               |
| Ethylbenzene                                                                         | 103              |      | -                 |      | 70-130              | -   |      |               |
| p/m-Xylene                                                                           | 106              |      | -                 |      | 70-130              | -   |      |               |
| Bromoform                                                                            | 104              |      | -                 |      | 70-130              | -   |      |               |
| Styrene                                                                              | 104              |      | -                 |      | 70-130              | -   |      |               |
| 1,1,2,2-Tetrachloroethane                                                            | 102              |      | -                 |      | 70-130              | -   |      |               |
| o-Xylene                                                                             | 105              |      | -                 |      | 70-130              | -   |      |               |
| 4-Ethyltoluene                                                                       | 97               |      | -                 |      | 70-130              | -   |      |               |
| 1,3,5-Trimethylbenzene                                                               | 103              |      | -                 |      | 70-130              | -   |      |               |
| 1,2,4-Trimethylbenzene                                                               | 106              |      | -                 |      | 70-130              | -   |      |               |
| Benzyl chloride                                                                      | 90               |      | -                 |      | 70-130              | -   |      |               |
| 1,3-Dichlorobenzene                                                                  | 102              |      | -                 |      | 70-130              | -   |      |               |
| 1,4-Dichlorobenzene                                                                  | 98               |      | -                 |      | 70-130              | -   |      |               |
| 1,2-Dichlorobenzene                                                                  | 99               |      | -                 |      | 70-130              | -   |      |               |
| 1,2,4-Trichlorobenzene                                                               | 83               |      | -                 |      | 70-130              | -   |      |               |
| Hexachlorobutadiene                                                                  | 90               |      | -                 |      | 70-130              | -   |      |               |

**Project Name:** 131 SUNNYSIDE BLVD.**Lab Number:** L2247457**Project Number:** 30017762.00012**Report Date:** 09/09/22**Sample Receipt and Container Information**

Were project specific reporting limits specified?

YES

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

NA                              Absent

**Container Information**

| <b>Container ID</b> | <b>Container Type</b>                    | <b>Cooler</b> | <b>Initial<br/>pH</b> | <b>Final<br/>pH</b> | <b>Temp<br/>deg C</b> | <b>Pres</b> | <b>Seal</b> | <b>Frozen<br/>Date/Time</b> | <b>Analysis(*)</b> |
|---------------------|------------------------------------------|---------------|-----------------------|---------------------|-----------------------|-------------|-------------|-----------------------------|--------------------|
| L2247457-01A        | Tedlar Bag 5 liter-Polypropylene Fitting | NA            | NA                    |                     |                       | Y           | Absent      |                             | TO15-LL(30)        |
| L2247457-01B        | Tedlar Bag 5 liter-Polypropylene Fitting | NA            | NA                    |                     |                       | Y           | Absent      |                             | TO15-LL(30)        |
| L2247457-01X        | Canister - 2.7 Liter (Split out in lab)  | NA            | NA                    |                     |                       | Y           | Absent      |                             | TO15-LL(30)        |

**Project Name:** 131 SUNNYSIDE BLVD.**Lab Number:** L2247457**Project Number:** 30017762.00012**Report Date:** 09/09/22

## GLOSSARY

### Acronyms

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

*Report Format: Data Usability Report*

**Project Name:** 131 SUNNYSIDE BLVD.  
**Project Number:** 30017762.00012

**Lab Number:** L2247457  
**Report Date:** 09/09/22

## Footnotes

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

## Terms

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

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

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

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

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

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

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

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

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

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

## Data Qualifiers

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

**Report Format:** Data Usability Report



**Project Name:** 131 SUNNYSIDE BLVD.**Lab Number:** L2247457**Project Number:** 30017762.00012**Report Date:** 09/09/22**Data Qualifiers**

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

**Project Name:** 131 SUNNYSIDE BLVD.  
**Project Number:** 30017762.00012

**Lab Number:** L2247457  
**Report Date:** 09/09/22

## REFERENCES

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

## LIMITATION OF LIABILITIES

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

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



**Alpha Analytical, Inc.**Facility: **Company-wide**Department: **Quality Assurance**Title: **Certificate/Approval Program Summary**ID No.: **17873**

Revision 19

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**Certification Information****The following analytes are not included in our Primary NELAP Scope of Accreditation:****Westborough Facility****EPA 624/624.1:** m/p-xylene, o-xylene, Naphthalene**EPA 625/625.1:** alpha-Terpineol**EPA 8260C/8260D:** NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene, Azobenzene; SCM: Iodomethane (methyl iodide), 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.**EPA 8270D/8270E:** NPW: Dimethylnaphthalene, 1,4-Diphenylhydrazine, alpha-Terpineol; SCM: Dimethylnaphthalene, 1,4-Diphenylhydrazine.**SM4500:** NPW: Amenable Cyanide; SCM: Total Phosphorus, TKN, NO<sub>2</sub>, NO<sub>3</sub>.**Mansfield Facility****SM 2540D:** TSS**EPA 8082A:** NPW: PCB: 1, 5, 31, 87, 101, 110, 141, 151, 153, 180, 183, 187.**EPA TO-15:** Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene,

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

**Biological Tissue Matrix:** EPA 3050B**The following analytes are included in our Massachusetts DEP Scope of Accreditation****Westborough Facility:****Drinking Water****EPA 300.0:** Chloride, Nitrate-N, Fluoride, Sulfate; **EPA 353.2:** Nitrate-N, Nitrite-N; **SM4500NO3-F:** Nitrate-N, Nitrite-N; **SM4500F-C, SM4500CN-CE,****EPA 180.1, SM2130B, SM4500CI-D, SM2320B, SM2540C, SM4500H-B, SM4500NO2-B****EPA 332:** Perchlorate; **EPA 524.2:** THMs and VOCs; **EPA 504.1:** EDB, DBCP.**Microbiology:** **SM9215B; SM9223-P/A, SM9223B-Colilert-QT, SM9222D.****Non-Potable Water****SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2320B, SM4500CL-E, SM4500F-BC, SM4500NH3-BH:** Ammonia-N and Kjeldahl-N, **EPA 350.1:**Ammonia-N, **LACHAT 10-107-06-1-B:** Ammonia-N, **EPA 351.1, SM4500NO3-F, EPA 353.2:** Nitrate-N, **SM4500P-E, SM4500P-B, E, SM4500SO4-E,****SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, EPA 420.1, SM4500-CN-CE, SM2540D, EPA 300:** Chloride, Sulfate, Nitrate.**EPA 624.1:** Volatile Halocarbons & Aromatics,**EPA 608.3:** Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II,

Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs

**EPA 625.1:** SVOC (Acid/Base/Neutral Extractables), **EPA 600/4-81-045:** PCB-Oil.**Microbiology:** **SM9223B-Colilert-QT; Enterolert-QT, SM9221E, EPA 1600, EPA 1603, SM9222D.****Mansfield Facility:****Drinking Water****EPA 200.7:** Al, Ba, Cd, Cr, Cu, Fe, Mn, Ni, Na, Ag, Ca, Zn. **EPA 200.8:** Al, Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn. **EPA 245.1 Hg.****EPA 522, EPA 537.1.****Non-Potable Water****EPA 200.7:** Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, TL, Ti, V, Zn.**EPA 200.8:** Al, Sb, As, Be, Cd, Cr, Cu, Fe, Pb, Mn, Ni, K, Se, Ag, Na, TL, Zn.**EPA 245.1 Hg.****SM2340B**

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

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ALPHA Job # L2247457

### Billing Information

☐ Same as Client Info

PO# 30017762.00012

Arcadis - Accounts Payable  
Highlands Ranch CO

Regulatory Requirements/Report Limits

| <i>State/Fed</i> | <i>Program</i> | <i>Criteria</i> |
|------------------|----------------|-----------------|
|------------------|----------------|-----------------|

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

## Analysis

[illegible]

|      |     |  |  |  |  |                                                                                                              |
|------|-----|--|--|--|--|--------------------------------------------------------------------------------------------------------------|
| S-11 |     |  |  |  |  | Interest and media type:                                                                                     |
| -5   | Vap |  |  |  |  | <input type="checkbox"/> PM-10 Filter<br><input type="checkbox"/> TSP Filter<br><input type="checkbox"/> MCE |

[illegible]

5-L  
Duct Tape  
TEDLAR

Relinquished By: [Signature]  
yes Gd anal

| Date/Time    |
|--------------|
| 9/1/22 1200  |
| 9/1/22 1800  |
| 9/1/22       |
| 9/12/22 0333 |

Received By: *2008 9/1 12m*  
*for*  
*50 AAL*  
*Sam Aldeid*

| Date/Time   |
|-------------|
| 8.1.22 OKC  |
| 9/2/22 0040 |
| 9/2/22 0335 |

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. BY EXECUTING THIS COC, THE CLIENT HAS READ AND AGREES TO BE BOUND BY ALPHA'S TERMS & CONDITIONS.  
(See reverse side.)



## ANALYTICAL REPORT

|                 |                                                                                            |
|-----------------|--------------------------------------------------------------------------------------------|
| Lab Number:     | L2252074                                                                                   |
| Client:         | Arcadis of New York, Inc.<br>Two Huntington Quadrangle<br>Suite 1S10<br>Melville, NY 11747 |
| ATTN:           | Steven Feldman                                                                             |
| Phone:          | (631) 249-7600                                                                             |
| Project Name:   | 131 SUNNYSIDE BLVD                                                                         |
| Project Number: | 30017762.00012                                                                             |
| Report Date:    | 09/30/22                                                                                   |

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Certifications & Approvals: MA (M-MA030), NH NELAP (2062), CT (PH-0141), DoD (L2474), FL (E87814), IL (200081), LA (85084), ME (MA00030), MD (350), NJ (MA015), NY (11627), NC (685), OH (CL106), PA (68-02089), RI (LAO00299), TX (T104704419), VT (VT-0015), VA (460194), WA (C954), US Army Corps of Engineers, USDA (Permit #P330-17-00150), USFWS (Permit #206964).

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320 Forbes Boulevard, Mansfield, MA 02048-1806  
508-822-9300 (Fax) 508-822-3288 800-624-9220 - [www.alphalab.com](http://www.alphalab.com)



**Project Name:** 131 SUNNYSIDE BLVD  
**Project Number:** 30017762.00012

**Lab Number:** L2252074  
**Report Date:** 09/30/22

| <b>Alpha<br/>Sample ID</b> | <b>Client ID</b> | <b>Matrix</b> | <b>Sample<br/>Location</b> | <b>Collection<br/>Date/Time</b> | <b>Receive Date</b> |
|----------------------------|------------------|---------------|----------------------------|---------------------------------|---------------------|
| L2252074-01                | SVE-1            | SOIL_VAPOR    | PLAINVIEW, NY              | 09/22/22 11:00                  | 09/22/22            |
| L2252074-02                | SVE-2            | SOIL_VAPOR    | PLAINVIEW, NY              | 09/22/22 11:20                  | 09/22/22            |

**Project Name:** 131 SUNNYSIDE BLVD  
**Project Number:** 30017762.00012

**Lab Number:** L2252074  
**Report Date:** 09/30/22

### Case Narrative

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

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

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

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

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

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

---

**Project Name:** 131 SUNNYSIDE BLVD  
**Project Number:** 30017762.00012

**Lab Number:** L2252074  
**Report Date:** 09/30/22

**Case Narrative (continued)**

Volatile Organics in Air

L2252074-01D, -02D: Samples were transferred from a Tedlar bag into a fused silica lined canister upon receipt in order to extend the holding time for analysis.

L2252074-01D,02D: The sample has elevated detection limits due to the dilution required by the elevated concentrations of target compounds in the sample.

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

Authorized Signature:  Christopher J. Anderson

Title: Technical Director/Representative

Date: 09/30/22

**AIR**

**Project Name:** 131 SUNNYSIDE BLVD**Project Number:** 30017762.00012**Lab Number:** L2252074**Report Date:** 09/30/22**SAMPLE RESULTS**

Lab ID: L2252074-01 D

Client ID: SVE-1

Sample Location: PLAINVIEW, NY

Date Collected: 09/22/22 11:00

Date Received: 09/22/22

Field Prep: Not Specified

Sample Depth:

Matrix: Soil\_Vapor

Analytical Method: 48,TO-15

Analytical Date: 09/30/22 09:21

Analyst: TS

| Parameter                                | ppbV    |      |     | ug/m3   |      |     | Qualifier | Dilution Factor |
|------------------------------------------|---------|------|-----|---------|------|-----|-----------|-----------------|
|                                          | Results | RL   | MDL | Results | RL   | MDL |           |                 |
| Volatile Organics in Air - Mansfield Lab |         |      |     |         |      |     |           |                 |
| Dichlorodifluoromethane                  | ND      | 21.7 | --  | ND      | 107  | --  |           | 108.7           |
| Chloromethane                            | ND      | 21.7 | --  | ND      | 44.8 | --  |           | 108.7           |
| Freon-114                                | ND      | 21.7 | --  | ND      | 152  | --  |           | 108.7           |
| Vinyl chloride                           | ND      | 21.7 | --  | ND      | 55.5 | --  |           | 108.7           |
| 1,3-Butadiene                            | ND      | 21.7 | --  | ND      | 48.0 | --  |           | 108.7           |
| Bromomethane                             | ND      | 21.7 | --  | ND      | 84.3 | --  |           | 108.7           |
| Chloroethane                             | ND      | 21.7 | --  | ND      | 57.3 | --  |           | 108.7           |
| Ethanol                                  | ND      | 544  | --  | ND      | 1030 | --  |           | 108.7           |
| Vinyl bromide                            | ND      | 21.7 | --  | ND      | 94.9 | --  |           | 108.7           |
| Acetone                                  | 140     | 109  | --  | 333     | 259  | --  |           | 108.7           |
| Trichlorofluoromethane                   | ND      | 21.7 | --  | ND      | 122  | --  |           | 108.7           |
| Isopropanol                              | ND      | 54.4 | --  | ND      | 134  | --  |           | 108.7           |
| 1,1-Dichloroethene                       | ND      | 21.7 | --  | ND      | 86.0 | --  |           | 108.7           |
| Tertiary butyl Alcohol                   | ND      | 54.4 | --  | ND      | 165  | --  |           | 108.7           |
| Methylene chloride                       | ND      | 54.4 | --  | ND      | 189  | --  |           | 108.7           |
| 3-Chloropropene                          | ND      | 21.7 | --  | ND      | 67.9 | --  |           | 108.7           |
| Carbon disulfide                         | ND      | 21.7 | --  | ND      | 67.6 | --  |           | 108.7           |
| Freon-113                                | ND      | 21.7 | --  | ND      | 166  | --  |           | 108.7           |
| trans-1,2-Dichloroethene                 | ND      | 21.7 | --  | ND      | 86.0 | --  |           | 108.7           |
| 1,1-Dichloroethane                       | ND      | 21.7 | --  | ND      | 87.8 | --  |           | 108.7           |
| Methyl tert butyl ether                  | ND      | 21.7 | --  | ND      | 78.2 | --  |           | 108.7           |
| 2-Butanone                               | ND      | 54.4 | --  | ND      | 160  | --  |           | 108.7           |
| cis-1,2-Dichloroethene                   | 80.2    | 21.7 | --  | 318     | 86.0 | --  |           | 108.7           |



**Project Name:** 131 SUNNYSIDE BLVD**Lab Number:** L2252074**Project Number:** 30017762.00012**Report Date:** 09/30/22**SAMPLE RESULTS**

Lab ID: L2252074-01 D

Client ID: SVE-1

Sample Location: PLAINVIEW, NY

Date Collected: 09/22/22 11:00

Date Received: 09/22/22

Field Prep: Not Specified

Sample Depth:

| Parameter                                | ppbV    |      |     | ug/m3   |      |     | Qualifier | Dilution Factor |
|------------------------------------------|---------|------|-----|---------|------|-----|-----------|-----------------|
|                                          | Results | RL   | MDL | Results | RL   | MDL |           |                 |
| Volatile Organics in Air - Mansfield Lab |         |      |     |         |      |     |           |                 |
| Ethyl Acetate                            | ND      | 54.4 | --  | ND      | 196  | --  |           | 108.7           |
| Chloroform                               | ND      | 21.7 | --  | ND      | 106  | --  |           | 108.7           |
| Tetrahydrofuran                          | ND      | 54.4 | --  | ND      | 160  | --  |           | 108.7           |
| 1,2-Dichloroethane                       | ND      | 21.7 | --  | ND      | 87.8 | --  |           | 108.7           |
| n-Hexane                                 | ND      | 21.7 | --  | ND      | 76.5 | --  |           | 108.7           |
| 1,1,1-Trichloroethane                    | 41.6    | 21.7 | --  | 227     | 118  | --  |           | 108.7           |
| Benzene                                  | ND      | 21.7 | --  | ND      | 69.3 | --  |           | 108.7           |
| Carbon tetrachloride                     | ND      | 21.7 | --  | ND      | 137  | --  |           | 108.7           |
| Cyclohexane                              | ND      | 21.7 | --  | ND      | 74.7 | --  |           | 108.7           |
| 1,2-Dichloropropane                      | ND      | 21.7 | --  | ND      | 100  | --  |           | 108.7           |
| Bromodichloromethane                     | ND      | 21.7 | --  | ND      | 145  | --  |           | 108.7           |
| 1,4-Dioxane                              | ND      | 21.7 | --  | ND      | 78.2 | --  |           | 108.7           |
| Trichloroethene                          | 8140    | 21.7 | --  | 43700   | 117  | --  |           | 108.7           |
| 2,2,4-Trimethylpentane                   | ND      | 21.7 | --  | ND      | 101  | --  |           | 108.7           |
| Heptane                                  | ND      | 21.7 | --  | ND      | 88.9 | --  |           | 108.7           |
| cis-1,3-Dichloropropene                  | ND      | 21.7 | --  | ND      | 98.5 | --  |           | 108.7           |
| 4-Methyl-2-pentanone                     | ND      | 54.4 | --  | ND      | 223  | --  |           | 108.7           |
| trans-1,3-Dichloropropene                | ND      | 21.7 | --  | ND      | 98.5 | --  |           | 108.7           |
| 1,1,2-Trichloroethane                    | ND      | 21.7 | --  | ND      | 118  | --  |           | 108.7           |
| Toluene                                  | ND      | 21.7 | --  | ND      | 81.8 | --  |           | 108.7           |
| 2-Hexanone                               | ND      | 21.7 | --  | ND      | 88.9 | --  |           | 108.7           |
| Dibromochloromethane                     | ND      | 21.7 | --  | ND      | 185  | --  |           | 108.7           |
| 1,2-Dibromoethane                        | ND      | 21.7 | --  | ND      | 167  | --  |           | 108.7           |
| Tetrachloroethene                        | 31.0    | 21.7 | --  | 210     | 147  | --  |           | 108.7           |
| Chlorobenzene                            | ND      | 21.7 | --  | ND      | 99.9 | --  |           | 108.7           |
| Ethylbenzene                             | ND      | 21.7 | --  | ND      | 94.3 | --  |           | 108.7           |



**Project Name:** 131 SUNNYSIDE BLVD**Lab Number:** L2252074**Project Number:** 30017762.00012**Report Date:** 09/30/22**SAMPLE RESULTS**

Lab ID: L2252074-01 D

Date Collected: 09/22/22 11:00

Client ID: SVE-1

Date Received: 09/22/22

Sample Location: PLAINVIEW, NY

Field Prep: Not Specified

Sample Depth:

| Parameter                                | ppbV    |      |     | ug/m3   |      |     | Qualifier | Dilution Factor |
|------------------------------------------|---------|------|-----|---------|------|-----|-----------|-----------------|
|                                          | Results | RL   | MDL | Results | RL   | MDL |           |                 |
| Volatile Organics in Air - Mansfield Lab |         |      |     |         |      |     |           |                 |
| p/m-Xylene                               | ND      | 43.5 | --  | ND      | 189  | --  |           | 108.7           |
| Bromoform                                | ND      | 21.7 | --  | ND      | 224  | --  |           | 108.7           |
| Styrene                                  | ND      | 21.7 | --  | ND      | 92.4 | --  |           | 108.7           |
| 1,1,2,2-Tetrachloroethane                | ND      | 21.7 | --  | ND      | 149  | --  |           | 108.7           |
| o-Xylene                                 | ND      | 21.7 | --  | ND      | 94.3 | --  |           | 108.7           |
| 4-Ethyltoluene                           | ND      | 21.7 | --  | ND      | 107  | --  |           | 108.7           |
| 1,3,5-Trimethylbenzene                   | ND      | 21.7 | --  | ND      | 107  | --  |           | 108.7           |
| 1,2,4-Trimethylbenzene                   | ND      | 21.7 | --  | ND      | 107  | --  |           | 108.7           |
| Benzyl chloride                          | ND      | 21.7 | --  | ND      | 112  | --  |           | 108.7           |
| 1,3-Dichlorobenzene                      | ND      | 21.7 | --  | ND      | 130  | --  |           | 108.7           |
| 1,4-Dichlorobenzene                      | ND      | 21.7 | --  | ND      | 130  | --  |           | 108.7           |
| 1,2-Dichlorobenzene                      | ND      | 21.7 | --  | ND      | 130  | --  |           | 108.7           |
| 1,2,4-Trichlorobenzene                   | ND      | 21.7 | --  | ND      | 161  | --  |           | 108.7           |
| Hexachlorobutadiene                      | ND      | 21.7 | --  | ND      | 231  | --  |           | 108.7           |

| Internal Standard   | % Recovery | Qualifier | Acceptance Criteria |
|---------------------|------------|-----------|---------------------|
| 1,4-Difluorobenzene | 91         |           | 60-140              |
| Bromochloromethane  | 92         |           | 60-140              |
| chlorobenzene-d5    | 95         |           | 60-140              |



**Project Name:** 131 SUNNYSIDE BLVD  
**Project Number:** 30017762.00012

**Lab Number:** L2252074  
**Report Date:** 09/30/22

### SAMPLE RESULTS

**Lab ID:** L2252074-02 D  
**Client ID:** SVE-2  
**Sample Location:** PLAINVIEW, NY

**Date Collected:** 09/22/22 11:20  
**Date Received:** 09/22/22  
**Field Prep:** Not Specified

**Sample Depth:**  
**Matrix:** Soil\_Vapor  
**Analytical Method:** 48,TO-15  
**Analytical Date:** 09/30/22 08:45  
**Analyst:** TS

| Parameter                                | ppbV    |       |     | ug/m3   |      |     | Qualifier | Dilution Factor |
|------------------------------------------|---------|-------|-----|---------|------|-----|-----------|-----------------|
|                                          | Results | RL    | MDL | Results | RL   | MDL |           |                 |
| Volatile Organics in Air - Mansfield Lab |         |       |     |         |      |     |           |                 |
| Dichlorodifluoromethane                  | ND      | 0.500 | --  | ND      | 2.47 | --  |           | 2.5             |
| Chloromethane                            | ND      | 0.500 | --  | ND      | 1.03 | --  |           | 2.5             |
| Freon-114                                | ND      | 0.500 | --  | ND      | 3.49 | --  |           | 2.5             |
| Vinyl chloride                           | 3.27    | 0.500 | --  | 8.36    | 1.28 | --  |           | 2.5             |
| 1,3-Butadiene                            | ND      | 0.500 | --  | ND      | 1.11 | --  |           | 2.5             |
| Bromomethane                             | ND      | 0.500 | --  | ND      | 1.94 | --  |           | 2.5             |
| Chloroethane                             | ND      | 0.500 | --  | ND      | 1.32 | --  |           | 2.5             |
| Ethanol                                  | ND      | 12.5  | --  | ND      | 23.6 | --  |           | 2.5             |
| Vinyl bromide                            | ND      | 0.500 | --  | ND      | 2.19 | --  |           | 2.5             |
| Acetone                                  | 3.26    | 2.50  | --  | 7.74    | 5.94 | --  |           | 2.5             |
| Trichlorofluoromethane                   | 1.07    | 0.500 | --  | 6.01    | 2.81 | --  |           | 2.5             |
| Isopropanol                              | 5.10    | 1.25  | --  | 12.5    | 3.07 | --  |           | 2.5             |
| 1,1-Dichloroethene                       | 0.548   | 0.500 | --  | 2.17    | 1.98 | --  |           | 2.5             |
| Tertiary butyl Alcohol                   | ND      | 1.25  | --  | ND      | 3.79 | --  |           | 2.5             |
| Methylene chloride                       | ND      | 1.25  | --  | ND      | 4.34 | --  |           | 2.5             |
| 3-Chloropropene                          | ND      | 0.500 | --  | ND      | 1.57 | --  |           | 2.5             |
| Carbon disulfide                         | 1.44    | 0.500 | --  | 4.48    | 1.56 | --  |           | 2.5             |
| Freon-113                                | ND      | 0.500 | --  | ND      | 3.83 | --  |           | 2.5             |
| trans-1,2-Dichloroethene                 | 2.28    | 0.500 | --  | 9.04    | 1.98 | --  |           | 2.5             |
| 1,1-Dichloroethane                       | 1.00    | 0.500 | --  | 4.05    | 2.02 | --  |           | 2.5             |
| Methyl tert butyl ether                  | ND      | 0.500 | --  | ND      | 1.80 | --  |           | 2.5             |
| 2-Butanone                               | 1.76    | 1.25  | --  | 5.19    | 3.69 | --  |           | 2.5             |
| cis-1,2-Dichloroethene                   | 16.1    | 0.500 | --  | 63.8    | 1.98 | --  |           | 2.5             |



**Project Name:** 131 SUNNYSIDE BLVD**Lab Number:** L2252074**Project Number:** 30017762.00012**Report Date:** 09/30/22**SAMPLE RESULTS**

Lab ID: L2252074-02 D

Client ID: SVE-2

Sample Location: PLAINVIEW, NY

Date Collected: 09/22/22 11:20

Date Received: 09/22/22

Field Prep: Not Specified

Sample Depth:

| Parameter                                | ppbV    |       |     | ug/m3   |      |     | Qualifier | Dilution Factor |
|------------------------------------------|---------|-------|-----|---------|------|-----|-----------|-----------------|
|                                          | Results | RL    | MDL | Results | RL   | MDL |           |                 |
| Volatile Organics in Air - Mansfield Lab |         |       |     |         |      |     |           |                 |
| Ethyl Acetate                            | ND      | 1.25  | --  | ND      | 4.50 | --  |           | 2.5             |
| Chloroform                               | 0.592   | 0.500 | --  | 2.89    | 2.44 | --  |           | 2.5             |
| Tetrahydrofuran                          | 96.3    | 1.25  | --  | 284     | 3.69 | --  |           | 2.5             |
| 1,2-Dichloroethane                       | ND      | 0.500 | --  | ND      | 2.02 | --  |           | 2.5             |
| n-Hexane                                 | ND      | 0.500 | --  | ND      | 1.76 | --  |           | 2.5             |
| 1,1,1-Trichloroethane                    | 0.668   | 0.500 | --  | 3.64    | 2.73 | --  |           | 2.5             |
| Benzene                                  | ND      | 0.500 | --  | ND      | 1.60 | --  |           | 2.5             |
| Carbon tetrachloride                     | ND      | 0.500 | --  | ND      | 3.15 | --  |           | 2.5             |
| Cyclohexane                              | ND      | 0.500 | --  | ND      | 1.72 | --  |           | 2.5             |
| 1,2-Dichloropropane                      | ND      | 0.500 | --  | ND      | 2.31 | --  |           | 2.5             |
| Bromodichloromethane                     | ND      | 0.500 | --  | ND      | 3.35 | --  |           | 2.5             |
| 1,4-Dioxane                              | ND      | 0.500 | --  | ND      | 1.80 | --  |           | 2.5             |
| Trichloroethene                          | 185     | 0.500 | --  | 994     | 2.69 | --  |           | 2.5             |
| 2,2,4-Trimethylpentane                   | ND      | 0.500 | --  | ND      | 2.34 | --  |           | 2.5             |
| Heptane                                  | ND      | 0.500 | --  | ND      | 2.05 | --  |           | 2.5             |
| cis-1,3-Dichloropropene                  | ND      | 0.500 | --  | ND      | 2.27 | --  |           | 2.5             |
| 4-Methyl-2-pentanone                     | ND      | 1.25  | --  | ND      | 5.12 | --  |           | 2.5             |
| trans-1,3-Dichloropropene                | ND      | 0.500 | --  | ND      | 2.27 | --  |           | 2.5             |
| 1,1,2-Trichloroethane                    | ND      | 0.500 | --  | ND      | 2.73 | --  |           | 2.5             |
| Toluene                                  | ND      | 0.500 | --  | ND      | 1.88 | --  |           | 2.5             |
| 2-Hexanone                               | ND      | 0.500 | --  | ND      | 2.05 | --  |           | 2.5             |
| Dibromochloromethane                     | ND      | 0.500 | --  | ND      | 4.26 | --  |           | 2.5             |
| 1,2-Dibromoethane                        | ND      | 0.500 | --  | ND      | 3.84 | --  |           | 2.5             |
| Tetrachloroethene                        | 2.03    | 0.500 | --  | 13.8    | 3.39 | --  |           | 2.5             |
| Chlorobenzene                            | ND      | 0.500 | --  | ND      | 2.30 | --  |           | 2.5             |
| Ethylbenzene                             | ND      | 0.500 | --  | ND      | 2.17 | --  |           | 2.5             |



**Project Name:** 131 SUNNYSIDE BLVD**Lab Number:** L2252074**Project Number:** 30017762.00012**Report Date:** 09/30/22**SAMPLE RESULTS**

Lab ID: L2252074-02 D

Client ID: SVE-2

Sample Location: PLAINVIEW, NY

Date Collected: 09/22/22 11:20

Date Received: 09/22/22

Field Prep: Not Specified

Sample Depth:

| Parameter                                | ppbV    |       |     | ug/m3   |      |     | Qualifier | Dilution Factor |
|------------------------------------------|---------|-------|-----|---------|------|-----|-----------|-----------------|
|                                          | Results | RL    | MDL | Results | RL   | MDL |           |                 |
| Volatile Organics in Air - Mansfield Lab |         |       |     |         |      |     |           |                 |
| p/m-Xylene                               | ND      | 1.00  | --  | ND      | 4.34 | --  |           | 2.5             |
| Bromoform                                | ND      | 0.500 | --  | ND      | 5.17 | --  |           | 2.5             |
| Styrene                                  | ND      | 0.500 | --  | ND      | 2.13 | --  |           | 2.5             |
| 1,1,2,2-Tetrachloroethane                | ND      | 0.500 | --  | ND      | 3.43 | --  |           | 2.5             |
| o-Xylene                                 | ND      | 0.500 | --  | ND      | 2.17 | --  |           | 2.5             |
| 4-Ethyltoluene                           | ND      | 0.500 | --  | ND      | 2.46 | --  |           | 2.5             |
| 1,3,5-Trimethylbenzene                   | ND      | 0.500 | --  | ND      | 2.46 | --  |           | 2.5             |
| 1,2,4-Trimethylbenzene                   | ND      | 0.500 | --  | ND      | 2.46 | --  |           | 2.5             |
| Benzyl chloride                          | ND      | 0.500 | --  | ND      | 2.59 | --  |           | 2.5             |
| 1,3-Dichlorobenzene                      | ND      | 0.500 | --  | ND      | 3.01 | --  |           | 2.5             |
| 1,4-Dichlorobenzene                      | ND      | 0.500 | --  | ND      | 3.01 | --  |           | 2.5             |
| 1,2-Dichlorobenzene                      | ND      | 0.500 | --  | ND      | 3.01 | --  |           | 2.5             |
| 1,2,4-Trichlorobenzene                   | ND      | 0.500 | --  | ND      | 3.71 | --  |           | 2.5             |
| Hexachlorobutadiene                      | ND      | 0.500 | --  | ND      | 5.33 | --  |           | 2.5             |

| Internal Standard   | % Recovery | Qualifier | Acceptance Criteria |
|---------------------|------------|-----------|---------------------|
| 1,4-Difluorobenzene | 89         |           | 60-140              |
| Bromochloromethane  | 88         |           | 60-140              |
| chlorobenzene-d5    | 92         |           | 60-140              |



Project Name: 131 SUNNYSIDE BLVD

Lab Number: L2252074

Project Number: 30017762.00012

Report Date: 09/30/22

### Method Blank Analysis Batch Quality Control

Analytical Method: 48,TO-15

Analytical Date: 09/29/22 14:22

| Parameter                                                                        | ppbV    |       |     | ug/m3   |       |     | Qualifier | Dilution Factor |
|----------------------------------------------------------------------------------|---------|-------|-----|---------|-------|-----|-----------|-----------------|
|                                                                                  | Results | RL    | MDL | Results | RL    | MDL |           |                 |
| Volatile Organics in Air - Mansfield Lab for sample(s): 01-02 Batch: WG1693693-4 |         |       |     |         |       |     |           |                 |
| Dichlorodifluoromethane                                                          | ND      | 0.200 | --  | ND      | 0.989 | --  |           | 1               |
| Chloromethane                                                                    | ND      | 0.200 | --  | ND      | 0.413 | --  |           | 1               |
| Freon-114                                                                        | ND      | 0.200 | --  | ND      | 1.40  | --  |           | 1               |
| Vinyl chloride                                                                   | ND      | 0.200 | --  | ND      | 0.511 | --  |           | 1               |
| 1,3-Butadiene                                                                    | ND      | 0.200 | --  | ND      | 0.442 | --  |           | 1               |
| Bromomethane                                                                     | ND      | 0.200 | --  | ND      | 0.777 | --  |           | 1               |
| Chloroethane                                                                     | ND      | 0.200 | --  | ND      | 0.528 | --  |           | 1               |
| Ethanol                                                                          | ND      | 5.00  | --  | ND      | 9.42  | --  |           | 1               |
| Vinyl bromide                                                                    | ND      | 0.200 | --  | ND      | 0.874 | --  |           | 1               |
| Acetone                                                                          | ND      | 1.00  | --  | ND      | 2.38  | --  |           | 1               |
| Trichlorofluoromethane                                                           | ND      | 0.200 | --  | ND      | 1.12  | --  |           | 1               |
| Isopropanol                                                                      | ND      | 0.500 | --  | ND      | 1.23  | --  |           | 1               |
| 1,1-Dichloroethene                                                               | ND      | 0.200 | --  | ND      | 0.793 | --  |           | 1               |
| Tertiary butyl Alcohol                                                           | ND      | 0.500 | --  | ND      | 1.52  | --  |           | 1               |
| Methylene chloride                                                               | ND      | 0.500 | --  | ND      | 1.74  | --  |           | 1               |
| 3-Chloropropene                                                                  | ND      | 0.200 | --  | ND      | 0.626 | --  |           | 1               |
| Carbon disulfide                                                                 | ND      | 0.200 | --  | ND      | 0.623 | --  |           | 1               |
| Freon-113                                                                        | ND      | 0.200 | --  | ND      | 1.53  | --  |           | 1               |
| trans-1,2-Dichloroethene                                                         | ND      | 0.200 | --  | ND      | 0.793 | --  |           | 1               |
| 1,1-Dichloroethane                                                               | ND      | 0.200 | --  | ND      | 0.809 | --  |           | 1               |
| Methyl tert butyl ether                                                          | ND      | 0.200 | --  | ND      | 0.721 | --  |           | 1               |
| 2-Butanone                                                                       | ND      | 0.500 | --  | ND      | 1.47  | --  |           | 1               |
| cis-1,2-Dichloroethene                                                           | ND      | 0.200 | --  | ND      | 0.793 | --  |           | 1               |
| Ethyl Acetate                                                                    | ND      | 0.500 | --  | ND      | 1.80  | --  |           | 1               |
| Chloroform                                                                       | ND      | 0.200 | --  | ND      | 0.977 | --  |           | 1               |



Project Name: 131 SUNNYSIDE BLVD

Lab Number: L2252074

Project Number: 30017762.00012

Report Date: 09/30/22

### Method Blank Analysis Batch Quality Control

Analytical Method: 48,TO-15

Analytical Date: 09/29/22 14:22

| Parameter                                                                        | ppbV    |       |     | ug/m3   |       |     | Qualifier | Dilution Factor |
|----------------------------------------------------------------------------------|---------|-------|-----|---------|-------|-----|-----------|-----------------|
|                                                                                  | Results | RL    | MDL | Results | RL    | MDL |           |                 |
| Volatile Organics in Air - Mansfield Lab for sample(s): 01-02 Batch: WG1693693-4 |         |       |     |         |       |     |           |                 |
| Tetrahydrofuran                                                                  | ND      | 0.500 | --  | ND      | 1.47  | --  |           | 1               |
| 1,2-Dichloroethane                                                               | ND      | 0.200 | --  | ND      | 0.809 | --  |           | 1               |
| n-Hexane                                                                         | ND      | 0.200 | --  | ND      | 0.705 | --  |           | 1               |
| 1,1,1-Trichloroethane                                                            | ND      | 0.200 | --  | ND      | 1.09  | --  |           | 1               |
| Benzene                                                                          | ND      | 0.200 | --  | ND      | 0.639 | --  |           | 1               |
| Carbon tetrachloride                                                             | ND      | 0.200 | --  | ND      | 1.26  | --  |           | 1               |
| Cyclohexane                                                                      | ND      | 0.200 | --  | ND      | 0.688 | --  |           | 1               |
| 1,2-Dichloropropane                                                              | ND      | 0.200 | --  | ND      | 0.924 | --  |           | 1               |
| Bromodichloromethane                                                             | ND      | 0.200 | --  | ND      | 1.34  | --  |           | 1               |
| 1,4-Dioxane                                                                      | ND      | 0.200 | --  | ND      | 0.721 | --  |           | 1               |
| Trichloroethene                                                                  | ND      | 0.200 | --  | ND      | 1.07  | --  |           | 1               |
| 2,2,4-Trimethylpentane                                                           | ND      | 0.200 | --  | ND      | 0.934 | --  |           | 1               |
| Heptane                                                                          | ND      | 0.200 | --  | ND      | 0.820 | --  |           | 1               |
| cis-1,3-Dichloropropene                                                          | ND      | 0.200 | --  | ND      | 0.908 | --  |           | 1               |
| 4-Methyl-2-pentanone                                                             | ND      | 0.500 | --  | ND      | 2.05  | --  |           | 1               |
| trans-1,3-Dichloropropene                                                        | ND      | 0.200 | --  | ND      | 0.908 | --  |           | 1               |
| 1,1,2-Trichloroethane                                                            | ND      | 0.200 | --  | ND      | 1.09  | --  |           | 1               |
| Toluene                                                                          | ND      | 0.200 | --  | ND      | 0.754 | --  |           | 1               |
| 2-Hexanone                                                                       | ND      | 0.200 | --  | ND      | 0.820 | --  |           | 1               |
| Dibromochloromethane                                                             | ND      | 0.200 | --  | ND      | 1.70  | --  |           | 1               |
| 1,2-Dibromoethane                                                                | ND      | 0.200 | --  | ND      | 1.54  | --  |           | 1               |
| Tetrachloroethene                                                                | ND      | 0.200 | --  | ND      | 1.36  | --  |           | 1               |
| Chlorobenzene                                                                    | ND      | 0.200 | --  | ND      | 0.921 | --  |           | 1               |
| Ethylbenzene                                                                     | ND      | 0.200 | --  | ND      | 0.869 | --  |           | 1               |
| p/m-Xylene                                                                       | ND      | 0.400 | --  | ND      | 1.74  | --  |           | 1               |



Project Name: 131 SUNNYSIDE BLVD

Lab Number: L2252074

Project Number: 30017762.00012

Report Date: 09/30/22

### Method Blank Analysis Batch Quality Control

Analytical Method: 48,TO-15

Analytical Date: 09/29/22 14:22

| Parameter                                                                        | ppbV    |       |     | ug/m3   |       |     | Qualifier | Dilution Factor |
|----------------------------------------------------------------------------------|---------|-------|-----|---------|-------|-----|-----------|-----------------|
|                                                                                  | Results | RL    | MDL | Results | RL    | MDL |           |                 |
| Volatile Organics in Air - Mansfield Lab for sample(s): 01-02 Batch: WG1693693-4 |         |       |     |         |       |     |           |                 |
| Bromoform                                                                        | ND      | 0.200 | --  | ND      | 2.07  | --  |           | 1               |
| Styrene                                                                          | ND      | 0.200 | --  | ND      | 0.852 | --  |           | 1               |
| 1,1,2,2-Tetrachloroethane                                                        | ND      | 0.200 | --  | ND      | 1.37  | --  |           | 1               |
| o-Xylene                                                                         | ND      | 0.200 | --  | ND      | 0.869 | --  |           | 1               |
| 4-Ethyltoluene                                                                   | ND      | 0.200 | --  | ND      | 0.983 | --  |           | 1               |
| 1,3,5-Trimethylbenzene                                                           | ND      | 0.200 | --  | ND      | 0.983 | --  |           | 1               |
| 1,2,4-Trimethylbenzene                                                           | ND      | 0.200 | --  | ND      | 0.983 | --  |           | 1               |
| Benzyl chloride                                                                  | ND      | 0.200 | --  | ND      | 1.04  | --  |           | 1               |
| 1,3-Dichlorobenzene                                                              | ND      | 0.200 | --  | ND      | 1.20  | --  |           | 1               |
| 1,4-Dichlorobenzene                                                              | ND      | 0.200 | --  | ND      | 1.20  | --  |           | 1               |
| 1,2-Dichlorobenzene                                                              | ND      | 0.200 | --  | ND      | 1.20  | --  |           | 1               |
| 1,2,4-Trichlorobenzene                                                           | ND      | 0.200 | --  | ND      | 1.48  | --  |           | 1               |
| Hexachlorobutadiene                                                              | ND      | 0.200 | --  | ND      | 2.13  | --  |           | 1               |

## Lab Control Sample Analysis

### Batch Quality Control

**Project Name:** 131 SUNNYSIDE BLVD

**Project Number:** 30017762.00012

**Lab Number:** L2252074

**Report Date:** 09/30/22

| Parameter                                                                               | LCS<br>%Recovery | Qual | LCSD<br>%Recovery | Qual | %Recovery<br>Limits | RPD | Qual | RPD<br>Limits |
|-----------------------------------------------------------------------------------------|------------------|------|-------------------|------|---------------------|-----|------|---------------|
| Volatile Organics in Air - Mansfield Lab Associated sample(s): 01-02 Batch: WG1693693-3 |                  |      |                   |      |                     |     |      |               |
| Dichlorodifluoromethane                                                                 | 90               |      | -                 |      | 70-130              | -   |      |               |
| Chloromethane                                                                           | 95               |      | -                 |      | 70-130              | -   |      |               |
| Freon-114                                                                               | 91               |      | -                 |      | 70-130              | -   |      |               |
| Vinyl chloride                                                                          | 92               |      | -                 |      | 70-130              | -   |      |               |
| 1,3-Butadiene                                                                           | 98               |      | -                 |      | 70-130              | -   |      |               |
| Bromomethane                                                                            | 92               |      | -                 |      | 70-130              | -   |      |               |
| Chloroethane                                                                            | 89               |      | -                 |      | 70-130              | -   |      |               |
| Ethanol                                                                                 | 102              |      | -                 |      | 40-160              | -   |      |               |
| Vinyl bromide                                                                           | 94               |      | -                 |      | 70-130              | -   |      |               |
| Acetone                                                                                 | 86               |      | -                 |      | 40-160              | -   |      |               |
| Trichlorofluoromethane                                                                  | 95               |      | -                 |      | 70-130              | -   |      |               |
| Isopropanol                                                                             | 106              |      | -                 |      | 40-160              | -   |      |               |
| 1,1-Dichloroethene                                                                      | 99               |      | -                 |      | 70-130              | -   |      |               |
| Tertiary butyl Alcohol                                                                  | 104              |      | -                 |      | 70-130              | -   |      |               |
| Methylene chloride                                                                      | 97               |      | -                 |      | 70-130              | -   |      |               |
| 3-Chloropropene                                                                         | 106              |      | -                 |      | 70-130              | -   |      |               |
| Carbon disulfide                                                                        | 91               |      | -                 |      | 70-130              | -   |      |               |
| Freon-113                                                                               | 97               |      | -                 |      | 70-130              | -   |      |               |
| trans-1,2-Dichloroethene                                                                | 96               |      | -                 |      | 70-130              | -   |      |               |
| 1,1-Dichloroethane                                                                      | 98               |      | -                 |      | 70-130              | -   |      |               |
| Methyl tert butyl ether                                                                 | 102              |      | -                 |      | 70-130              | -   |      |               |
| 2-Butanone                                                                              | 101              |      | -                 |      | 70-130              | -   |      |               |
| cis-1,2-Dichloroethene                                                                  | 102              |      | -                 |      | 70-130              | -   |      |               |

## Lab Control Sample Analysis

### Batch Quality Control

**Project Name:** 131 SUNNYSIDE BLVD

**Project Number:** 30017762.00012

**Lab Number:** L2252074

**Report Date:** 09/30/22

| Parameter                                                                               | LCS<br>%Recovery | Qual | LCSD<br>%Recovery | Qual | %Recovery<br>Limits | RPD | Qual | RPD<br>Limits |
|-----------------------------------------------------------------------------------------|------------------|------|-------------------|------|---------------------|-----|------|---------------|
| Volatile Organics in Air - Mansfield Lab Associated sample(s): 01-02 Batch: WG1693693-3 |                  |      |                   |      |                     |     |      |               |
| Ethyl Acetate                                                                           | 109              |      | -                 |      | 70-130              | -   |      |               |
| Chloroform                                                                              | 101              |      | -                 |      | 70-130              | -   |      |               |
| Tetrahydrofuran                                                                         | 97               |      | -                 |      | 70-130              | -   |      |               |
| 1,2-Dichloroethane                                                                      | 101              |      | -                 |      | 70-130              | -   |      |               |
| n-Hexane                                                                                | 99               |      | -                 |      | 70-130              | -   |      |               |
| 1,1,1-Trichloroethane                                                                   | 106              |      | -                 |      | 70-130              | -   |      |               |
| Benzene                                                                                 | 90               |      | -                 |      | 70-130              | -   |      |               |
| Carbon tetrachloride                                                                    | 112              |      | -                 |      | 70-130              | -   |      |               |
| Cyclohexane                                                                             | 99               |      | -                 |      | 70-130              | -   |      |               |
| 1,2-Dichloropropane                                                                     | 99               |      | -                 |      | 70-130              | -   |      |               |
| Bromodichloromethane                                                                    | 104              |      | -                 |      | 70-130              | -   |      |               |
| 1,4-Dioxane                                                                             | 106              |      | -                 |      | 70-130              | -   |      |               |
| Trichloroethene                                                                         | 100              |      | -                 |      | 70-130              | -   |      |               |
| 2,2,4-Trimethylpentane                                                                  | 101              |      | -                 |      | 70-130              | -   |      |               |
| Heptane                                                                                 | 104              |      | -                 |      | 70-130              | -   |      |               |
| cis-1,3-Dichloropropene                                                                 | 108              |      | -                 |      | 70-130              | -   |      |               |
| 4-Methyl-2-pentanone                                                                    | 110              |      | -                 |      | 70-130              | -   |      |               |
| trans-1,3-Dichloropropene                                                               | 98               |      | -                 |      | 70-130              | -   |      |               |
| 1,1,2-Trichloroethane                                                                   | 99               |      | -                 |      | 70-130              | -   |      |               |
| Toluene                                                                                 | 90               |      | -                 |      | 70-130              | -   |      |               |
| 2-Hexanone                                                                              | 108              |      | -                 |      | 70-130              | -   |      |               |
| Dibromochloromethane                                                                    | 107              |      | -                 |      | 70-130              | -   |      |               |
| 1,2-Dibromoethane                                                                       | 95               |      | -                 |      | 70-130              | -   |      |               |

## Lab Control Sample Analysis

### Batch Quality Control

**Project Name:** 131 SUNNYSIDE BLVD

**Project Number:** 30017762.00012

**Lab Number:** L2252074

**Report Date:** 09/30/22

| Parameter                                                                               | LCS<br>%Recovery | Qual | LCSD<br>%Recovery | Qual | %Recovery<br>Limits | RPD | Qual | RPD<br>Limits |
|-----------------------------------------------------------------------------------------|------------------|------|-------------------|------|---------------------|-----|------|---------------|
| Volatile Organics in Air - Mansfield Lab Associated sample(s): 01-02 Batch: WG1693693-3 |                  |      |                   |      |                     |     |      |               |
| Tetrachloroethene                                                                       | 94               |      | -                 |      | 70-130              | -   |      |               |
| Chlorobenzene                                                                           | 92               |      | -                 |      | 70-130              | -   |      |               |
| Ethylbenzene                                                                            | 97               |      | -                 |      | 70-130              | -   |      |               |
| p/m-Xylene                                                                              | 100              |      | -                 |      | 70-130              | -   |      |               |
| Bromoform                                                                               | 110              |      | -                 |      | 70-130              | -   |      |               |
| Styrene                                                                                 | 97               |      | -                 |      | 70-130              | -   |      |               |
| 1,1,2,2-Tetrachloroethane                                                               | 100              |      | -                 |      | 70-130              | -   |      |               |
| o-Xylene                                                                                | 105              |      | -                 |      | 70-130              | -   |      |               |
| 4-Ethyltoluene                                                                          | 98               |      | -                 |      | 70-130              | -   |      |               |
| 1,3,5-Trimethylbenzene                                                                  | 101              |      | -                 |      | 70-130              | -   |      |               |
| 1,2,4-Trimethylbenzene                                                                  | 106              |      | -                 |      | 70-130              | -   |      |               |
| Benzyl chloride                                                                         | 121              |      | -                 |      | 70-130              | -   |      |               |
| 1,3-Dichlorobenzene                                                                     | 107              |      | -                 |      | 70-130              | -   |      |               |
| 1,4-Dichlorobenzene                                                                     | 103              |      | -                 |      | 70-130              | -   |      |               |
| 1,2-Dichlorobenzene                                                                     | 104              |      | -                 |      | 70-130              | -   |      |               |
| 1,2,4-Trichlorobenzene                                                                  | 109              |      | -                 |      | 70-130              | -   |      |               |
| Hexachlorobutadiene                                                                     | 111              |      | -                 |      | 70-130              | -   |      |               |

**Project Name:** 131 SUNNYSIDE BLVD**Lab Number:** L2252074**Project Number:** 30017762.00012**Report Date:** 09/30/22**Sample Receipt and Container Information**

Were project specific reporting limits specified?

YES

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

NA                              Absent

**Container Information**

| <b>Container ID</b> | <b>Container Type</b>                    | <b>Cooler</b> | <b>Initial<br/>pH</b> | <b>Final<br/>pH</b> | <b>Temp<br/>deg C</b> | <b>Pres</b> | <b>Seal</b> | <b>Frozen<br/>Date/Time</b> | <b>Analysis(*)</b> |
|---------------------|------------------------------------------|---------------|-----------------------|---------------------|-----------------------|-------------|-------------|-----------------------------|--------------------|
| L2252074-01A        | Tedlar Bag 5 liter-Polypropylene Fitting | NA            | NA                    |                     |                       | Y           | Absent      |                             | TO15-LL(30)        |
| L2252074-01B        | Tedlar Bag 5 liter-Polypropylene Fitting | NA            | NA                    |                     |                       | Y           | Absent      |                             | TO15-LL(30)        |
| L2252074-01X        | Tedlar Bag 5 liter-Polypropylene Fitting | NA            | NA                    |                     |                       | Y           | Absent      |                             | TO15-LL(30)        |
| L2252074-02A        | Tedlar Bag 5 liter-Polypropylene Fitting | NA            | NA                    |                     |                       | Y           | Absent      |                             | TO15-LL(30)        |
| L2252074-02B        | Tedlar Bag 5 liter-Polypropylene Fitting | NA            | NA                    |                     |                       | Y           | Absent      |                             | TO15-LL(30)        |
| L2252074-02X        | Tedlar Bag 5 liter-Polypropylene Fitting | NA            | NA                    |                     |                       | Y           | Absent      |                             | TO15-LL(30)        |

**Project Name:** 131 SUNNYSIDE BLVD  
**Project Number:** 30017762.00012

**Lab Number:** L2252074  
**Report Date:** 09/30/22

## GLOSSARY

### Acronyms

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

Report Format: Data Usability Report



**Project Name:** 131 SUNNYSIDE BLVD  
**Project Number:** 30017762.00012

**Lab Number:** L2252074  
**Report Date:** 09/30/22

### Footnotes

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

### Terms

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

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

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

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

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

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

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

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

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

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

### Data Qualifiers

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

**Report Format:** Data Usability Report



**Project Name:** 131 SUNNYSIDE BLVD**Lab Number:** L2252074**Project Number:** 30017762.00012**Report Date:** 09/30/22**Data Qualifiers**

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

**Project Name:** 131 SUNNYSIDE BLVD  
**Project Number:** 30017762.00012

**Lab Number:** L2252074  
**Report Date:** 09/30/22

## REFERENCES

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

## LIMITATION OF LIABILITIES

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

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



## Certification Information

The following analytes are not included in our Primary NELAP Scope of Accreditation:

### Westborough Facility

**EPA 624/624.1:** m/p-xylene, o-xylene, Naphthalene

**EPA 625/625.1:** alpha-Terpineol

**EPA 8260C/8260D:** NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene, Azobenzene; SCM: Iodomethane (methyl iodide), 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.

**EPA 8270D/8270E:** NPW: Dimethylnaphthalene, 1,4-Diphenylhydrazine, alpha-Terpineol; SCM: Dimethylnaphthalene, 1,4-Diphenylhydrazine.

**SM4500:** NPW: Amenable Cyanide; SCM: Total Phosphorus, TKN, NO<sub>2</sub>, NO<sub>3</sub>.

### Mansfield Facility

**SM 2540D:** TSS

**EPA 8082A:** NPW: PCB: 1, 5, 31, 87, 101, 110, 141, 151, 153, 180, 183, 187.

**EPA TO-15:** Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene,

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

**Biological Tissue Matrix:** EPA 3050B

The following analytes are included in our Massachusetts DEP Scope of Accreditation

### Westborough Facility:

#### Drinking Water

**EPA 300.0:** Chloride, Nitrate-N, Fluoride, Sulfate; **EPA 353.2:** Nitrate-N, Nitrite-N; **SM4500NO3-F:** Nitrate-N, Nitrite-N; **SM4500F-C, SM4500CN-CE,**

**EPA 180.1, SM2130B, SM4500CI-D, SM2320B, SM2540C, SM4500H-B, SM4500NO2-B**

**EPA 332:** Perchlorate; **EPA 524.2:** THMs and VOCs; **EPA 504.1:** EDB, DBCP.

**Microbiology:** **SM9215B; SM9223-P/A, SM9223B-Colilert-QT, SM9222D.**

#### Non-Potable Water

**SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2320B, SM4500CL-E, SM4500F-BC, SM4500NH3-BH:** Ammonia-N and Kjeldahl-N, **EPA 350.1:**

Ammonia-N, **LACHAT 10-107-06-1-B:** Ammonia-N, **EPA 351.1, SM4500NO3-F, EPA 353.2:** Nitrate-N, **SM4500P-E, SM4500P-B, E, SM4500SO4-E,**

**SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, EPA 420.1, SM4500-CN-CE, SM2540D, EPA 300:** Chloride, Sulfate, Nitrate.

**EPA 624.1:** Volatile Halocarbons & Aromatics,

**EPA 608.3:** Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II,

Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs

**EPA 625.1:** SVOC (Acid/Base/Neutral Extractables), **EPA 600/4-81-045:** PCB-Oil.

**Microbiology:** **SM9223B-Colilert-QT; Enterolert-QT, SM9221E, EPA 1600, EPA 1603, SM9222D.**

### Mansfield Facility:

#### Drinking Water

**EPA 200.7:** Al, Ba, Cd, Cr, Cu, Fe, Mn, Ni, Na, Ag, Ca, Zn. **EPA 200.8:** Al, Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn. **EPA 245.1 Hg.**

**EPA 522, EPA 537.1.**

#### Non-Potable Water

**EPA 200.7:** Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, TL, Ti, V, Zn.

**EPA 200.8:** Al, Sb, As, Be, Cd, Cr, Cu, Fe, Pb, Mn, Ni, K, Se, Ag, Na, TL, Zn.

**EPA 245.1 Hg.**

**SM2340B**

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



# AIR ANALYSIS

PAGE 1 OF 1

## CHAIN OF CUSTODY

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

### Client Information

Client: Arcadis  
Address: 2 Huntington Quad  
Suite 1510  
Phone: 631-356-8791

Fax:

Email: Sal.Tedesco@arcadis.com☐ These samples have been previously analyzed by Alpha

Other Project Specific Requirements/Comments:

Project-Specific Target Compound List: ☐

### Project Information

Project Name: 131 Sunnyside Blvd  
Project Location: Plainview, NY  
Project #: 30017762.00012  
Project Manager: Steve Feldman  
ALPHA Quote #:

### Turn-Around Time

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

Date Due:

Time:

Date Rec'd in Lab: 9/23/22

### Report Information - Data Deliverables

☐ FAX  
☐ ADEx  
Criteria Checker: \_\_\_\_\_  
(Default based on Regulatory Criteria Indicated)  
Other Formats: \_\_\_\_\_  
☒ EMAIL (standard pdf report)  
☐ Additional Deliverables: \_\_\_\_\_

Report to: (if different than Project Manager)

ALPHA Job #: L2252074

### Billing Information

☐ Same as Client info PO #: 30017762.00012

Arcadis - Accounts Payable  
Highlands Ranch Co

### Regulatory Requirements/Report Limits

| State/Fed | Program | Res / Comm |
|-----------|---------|------------|
|           |         |            |
|           |         |            |
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### ANALYSIS

### All Columns Below Must Be Filled Out

| ALPHA Lab ID<br>(Lab Use Only) | Sample ID | COLLECTION |            |          |                |              |    | Sample Matrix* | Sampler's Initials | Can Size | I D Can | I D - Flow Controller | TO-15 | TO-15 Soil | APH | Fixed Gases | Sulfides & Mercaptans |  | Sample Comments (i.e. PID) |
|--------------------------------|-----------|------------|------------|----------|----------------|--------------|----|----------------|--------------------|----------|---------|-----------------------|-------|------------|-----|-------------|-----------------------|--|----------------------------|
|                                |           | End Date   | Start Time | End Time | Initial Vacuum | Final Vacuum |    |                |                    |          |         |                       |       |            |     |             |                       |  |                            |
| S2074-01                       | SVE-1     | 9/22/22    | 1055       | 1100     | —              | —            | SV | KC             |                    |          |         | X                     |       |            |     |             |                       |  |                            |
| 02                             | SVE-2     | 9/22/22    | 1115       | 1120     | —              | —            | SV | KC             |                    |          |         | X                     |       |            |     |             |                       |  |                            |
|                                |           |            |            |          |                |              |    |                |                    |          |         |                       |       |            |     |             |                       |  |                            |
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|                                |           |            |            |          |                | </           |    |                |                    |          |         |                       |       |            |     |             |                       |  |                            |

### \*SAMPLE MATRIX CODES

AA = Ambient Air (Indoor/Outdoor)  
SV = Soil Vapor/Landfill Gas/SVE  
Other = Please Specify

Container Type

Tedlar

Relinquished By:

Date/Time

Received By:

Date/Time:

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

## Appendix C

### Air Emission Calculations for SVE IRM

| Toxic Air Contaminant  | CAS#     | SVE-1 Vapor Effluent ( $\mu\text{g}/\text{m}^3$ ) | Max Air Flow Velocity (ft/min) | Max Air Flow Rate ( $\text{ft}^3/\text{min}$ ) | Emission Rates |       | Rule 212 Limit (lbs/yr) | Pass? <sup>4</sup> |
|------------------------|----------|---------------------------------------------------|--------------------------------|------------------------------------------------|----------------|-------|-------------------------|--------------------|
|                        |          | 7/21/2022, 9/22/2022                              | 7/26/2022                      | 7/26/2022                                      | lb/hr          | lb/yr |                         |                    |
| Trichloroethylene      | 79-01-6  | 33,984                                            | 6,699                          | 329                                            | 0.042          | 367   | 500                     | Yes                |
| cis 1,2 Dichloroethene | 156-59-2 | 380                                               | 6,699                          | 329                                            | 0.000          | 4.10  | 100                     | Yes                |

| Toxic Air Contaminant  | CAS#     | SVE-2 Vapor Effluent ( $\mu\text{g}/\text{m}^3$ ) | Max Air Flow Velocity (ft/min) | Max Air Flow Rate ( $\text{ft}^3/\text{min}$ ) | Emission Rates |       | Rule 212 Limit (lbs/yr) | Pass? <sup>4</sup> |
|------------------------|----------|---------------------------------------------------|--------------------------------|------------------------------------------------|----------------|-------|-------------------------|--------------------|
|                        |          | 7/21/2022, 9/22/2022                              | 8/18/2022                      | 8/18/2022                                      | lb/hr          | lb/yr |                         |                    |
| Trichloroethylene      | 79-01-6  | 1,820                                             | 7,411                          | 364                                            | 0.002          | 22    | 500                     | Yes                |
| cis 1,2 Dichloroethene | 156-59-2 | 88                                                | 7,411                          | 364                                            | 0.000          | 1.05  | 100                     | Yes                |

**Notes:**

1. Emission Rate for 1,1,1-Trichloroethane (lb/hr) = TCE [ $\mu\text{g}/\text{m}^3$ ] x Air Flow Rate [ $\text{ft}^3/\text{min}$ ] x (1 m<sup>3</sup>/35.3147 ft<sup>3</sup>) x (60 min/hr) x (0.000001 g/1  $\mu\text{g}$ ) x (0.0022 lb/g)
2. Vapor effluent concentrations are the average of sample event concentration values above laboratory reporting limits (RLs) for TCE and cis 1,2 DCE.
3. Maximum air flow rate is the maximum measured air flow velocity measured at an SVE IRM system calculated to a maximum air flow rate through a 3-inch diameter discharge stack (velocity ft/min x discharge area ft<sup>2</sup> = ft<sup>3</sup>/min).
4. Pass. The calculated annual mass air emission (lb/yr) is less than the Rule 212 permissible mass emission (lb/yr) therefore air treatment is not required for air emission.

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