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April 20, 2026
File No. 41.0163450.00

Jennifer Gonzalez
Project Manager
New York State Department of Environmental Conservation
Division of Environmental Remediation, Region 2
47-40 21st Street,
Long Island City, NY 11101

RE: Soil Vapor Extraction Pilot Test Results and Design Report
NYSDEC BCP Site No. C224390
19-29 Clay Street, & 60-62 Commercial Street
Brooklyn, New York 11222
Block 2482 Lots 9, 10, and 53

Dear Ms. Gonzalez:

On behalf of Clay Properties, LLC (Volunteer/Owner), Goldberg Zoino & Associates, P.C. d/b/a GZA GeoEnvironmental of New York (GZA) is pleased to provide this Soil Vapor Extraction (SVE) Pilot Test Results and Design Report (SVE Design Report) for the property located at 19-29 Clay Street and 60-62 Commercial Street, Brooklyn, New (the Site). The Site is managed under the New York State Department of Environmental Conservation (NYSDEC) Brownfield Cleanup Program (BCP) as site number C224390. A Site Location Map is included as **Figure 1**.

OBJECTIVE

The objective of this SVE Design Report is to describe the SVE pilot test work performed in accordance with the SVE Pilot Test Work Plan, dated October 22, 2024 (SVE Work Plan). The SVE Work Plan was part of the Interim Remedial Measure Workplan (IRMWP), dated January 10, 2025, and approved by the NYSDEC on January 17, 2025. A copy of the SVE Work Plan and NYSDEC Letter approval is provided in **Attachment A**. This SVE Design Report also describes the proposed design for the full-scale SVE system. The conceptual SVE system was described in the NYSDEC-approved Remedial Action Workplan (RAWP), dated June 18, 2025, and approved on July 18, 2025.

BACKGROUND

The Site is located at 19-29 Clay Street, and 60-62 Commercial Street in Brooklyn, New York and is bound to the north (across Commercial Street) by an asphalt-paved storage yard for equipment and vehicles by the New York City Transit Authority (NYCTA); to the east by a 1-story warehouse and a new 7-story residential building (NYSDEC BCP Site No. C224153); to the south (across Clay Street) by the Former NuHart Plastics Site (NYSDEC BCP Site No. C224287); and to the west by a mixed-use development currently under construction (NYSDEC BCP Site No. C244278).



The Site is comprised of three lots, totaling approximately 0.46 acres. 19-27 Clay Street (Lot 9), 60-62 Commercial (Lot 10), and 29 Clay Street (Lot 53) are currently undergoing construction for the project. The Site will be redeveloped with a 14-story building. The project will have three floors for commercial use, from the ground to third floor. The ground floor will also contain a residential lobby and an interior loading dock area. The ground floor commercial use will have entrances on both Clay Street and Commercial Street. The residential lobby and loading dock entrance will be on Clay Street only. The development will include residential units from the 4th to 13th floors. Several residential units will contain private terraces. In total, the project will have 48 residential units. The 14th floor will be used for residential amenities. The development plan does not include a cellar or a basement. The utility rooms will be located on the ground floor facing Clay Street. The proposed SVE system will be located in the north and east extents of Lot 53 and the eastern boundary of Lot 10 (as shown on **Figure 2**).

The Site was utilized for various industrial and manufacturing operations including iron works, tin can storage facility, cotton batting company, paper storage warehouse, and “non-specific manufacturing use.” Records from 1887 through the mid-1900s, show the Site as being a part of a larger iron works facility, which included a boiler shop, machine shop, and blacksmith. By the early 1940s, the Site has been redeveloped with commercial/industrial buildings fronting Clay Street, which include a 2-story structure (at the western portion of the parcel) occupied by a cotton batting manufacturer and a 1- and partial 2- story structure (at the eastern portion of the parcel) identified as a paper storage warehouse and a candy manufacturing company. Northern portions of the property were undeveloped. By the mid-1960s, the Site structures were identified for non-specific manufacturing uses while the northern portion of the property was identified as a lumber storage yard.

From at least July 1994 to January 1997, historical environmental records obtained by GZA identified the property as being occupied by Interflo Technologies, a Resource Conservation and Recovery Act (RCRA) small quantity hazardous waste generator. Interflo Technologies generated ignitable, halogenated, non-halogenated solvents and mercury waste under USEPA ID No. NY0000374314. Multiple RCRA violations were identified for the Site which were reportedly addressed to the satisfaction of USEPA, and the company was sold in 1997. By early 2000s until mid-2010s, historical city directory records showed that the Site was occupied by metal manufacturers (Jerome Aluminum Products Corp. and Liberty Custom Contractors, Inc.) and medical props warehouse company (Alpha Medical Resources, Inc.). On July 6, 2022, Clay Properties LLC purchased the property.

After acquisition of the property in July 2022, the Owner proceeded to undertake reasonable and practical actions to further evaluate the Site contamination. On August 17, 2023, the Owner submitted a BCP application for the 19-27 Clay Street and 60-62 Commercial Street properties, which was revised on February 16, 2024. The Brownfield Cleanup Agreement (BCA) was executed between the Volunteer and NYSDEC on July 16, 2024, under BCP Site No. C224390. On March 13, 2024, the Owner submitted a BCP application for the 29 Clay Street property. The BCA was executed between the Volunteer and NYSDEC on July 16, 2024, under BCP Site No. C224408. The Volunteer submitted a BCA amendment application on September 16, 2024, to combine both Sites into one BCP Site case number for ease of management.

GZA performed a remedial Investigation (RI) in accordance with a Remedial Investigation Work Plan (RIWP) for BCP Site No. C224390 dated June 24, 2024, and revised July 2, 2024; and the RIWP for BCP Site No. C224408 dated July 29, 2024, both of which were approved by NYSDEC on August 2, 2024. On October 4, 2024, a Remedial Investigation Report (RIR) was submitted to the NYSDEC. The results of the investigations identified constituents of potential concern (COPCs) in soil vapor such as VOCs, including Trichloroethene (TCE), Tetrachloroethene (PCE), 1,2,4-trimethylbenzene, benzene, carbon tetrachloride, cyclohexane, naphthalene, n-Heptane, o-xylene, and toluene.



On October 22, 2024, the SVE Work Plan was submitted in concurrence with the proposed IRMWP for the project. NYSDEC requested that a SVE Work Plan be submitted to allow for the design of a SVE system as a remedial measure for the chlorinated volatile organic compounds (CVOCs) in soil vapor. The SVE Work Plan describes the pilot test data required to design and construct a full permanent SVE system.

DEVIATIONS FROM APPROVED WORK PLAN

We note the following deviations from the approved SVE Work Plan.

- The SVE system was initially proposed to be a temporary system, which would later to be converted to permanent system during redevelopment. Per the approved RAWP and coordination with NYSDEC and the New York State Department of Health (NYSDOH), the SVE system will now be designed as a permanent system to be installed after a signification portion of the source material on the 29 Clay Street lot will be removed during excavation conducted under the RAWP.
- Influent and effluent air analytical samples were collected via 6-Liter Tedlar bags via grab sampling, in lieu of Summa Canisters. The SVE Work Plan called for the collection of four analytical samples, however, three samples were collected due to a damaged Tedlar bag. One Pre-granular activated carbon (GAC) and two Post-GAC samples were collected and reported in this SVE Design Report.

SOIL VAPOR EXTRACTION PILOT TEST SET UP

On January 23 and 24, 2025, GZA mobilized the Site with drilling sub-contractor, AARCO Environmental Services (AARCO), to install the SVE test extraction well and monitoring points as described in the SVE Work Plan.

As shown on **Figure 2**, the vapor extraction wells (VE-01 and VE-02) were installed on the northern portion of Lot 53. The pilot test vapor extraction wells were constructed with a 4-inch diameter, 0.020-inch slot, schedule 40 PVC screen at 2 to 6 feet below ground surface (ft bgs), which is approximately 2 feet above the groundwater table, and finished with a 4-inch diameter schedule 40 PVC riser pipe from 2.5 ft bgs to above surface grade. Three (3) soil vapor monitoring points (MP-01 through MP-03) were installed at respective intervals to provide radius of influence readings between the two extraction wells and three monitoring points of 5, 10, 20, 30, 35 and 50 feet. The vapor extraction wells were also used for monitoring during the test. The monitoring points were installed using 2-inch diameter schedule 40 PVC riser pipe, and a 2-inch diameter, 0.020- inch slot, schedule 40 PVC screen. The screens were installed from approximately 2 to 6 ft bgs or approximately 2 feet above the groundwater table. The monitoring points were installed using direct push techniques (DPT), the annular space of the monitoring well was backfilled with No. 2 filter sand. The soil vapor extraction wells and monitoring points were installed in accordance with the details shown in **Attachment A**.

COMMUNITY AIR MONITORING

The extraction well and monitoring point drilling and SVE pilot test were performed during implementation of the NYSDEC-approved IRM. Community Air Monitoring Plan (CAMP) was conducted during all work associated with this SVE Design Report. The CAMP stations did not document vapor or particulate concentrations exceeding the threshold as shown in



the Daily Field Reports (DFRs), dated January 23, 24 and 28, 2025. The DFRs, which include photos of the site work, are included as **Attachment B**.

GZA collected work area photoionization detector (PID) readings during the SVE pilot test using a handheld Ion Science Tiger PID capable of reading in parts per million (ppm) in air concentrations calibrated to a 100-ppm isobutylene standard. The work area PID readings did not exceed 0.0 ppm. There were no detections above 0.0 ppm at the effluent location following the GAC filter.

SOIL VAPOR EXTRACTION PILOT TEST

On January 28, 2025, GZA sub-contracted EnviroTrac Ltd, Inc. (EnviroTrac) to perform the SVE pilot test. EnviroTrac mobilized to the Site equipped with the Atlantic Blowers’ AB-1100 blower motor and a GAC system.

The pilot test consisted of operating the blower at various applied air flow rates (controlled by adjusting the air intake valve), measuring the air flow rate from the pilot test well, documenting the applied vacuum at VE-01 and VE-02 and measuring the resulting induced vacuum field at the vacuum monitoring points.

The SVE pilot test was run in multiple series at VE-01 and VE-02 corresponding to various air flow rate/vacuum levels. The extraction flow rates at VE-01 ranged between 12.5 and 129 cubic feet per minute (CFM) and between 8 and 106 CFM at VE-02. GZA and EnviroTrac observed communication at the vacuum monitoring points located along the east-west alignment, and documented pressure differentials at the vacuum monitoring ports once readings stabilized. EnviroTrac prepared an SVE Pilot Test Summary Report, which is included as **Attachment C**.

SOIL VAPOR SAMPLE COLLECTION AND LABORATORY ANALYSIS

Prior to the collection of samples, GZA collected field readings with a PID at each monitoring point in the system and from the influent (Pre-GAC) and effluent (Post-GAC) sample ports. The highest PID reading, 2.4 ppm, was from the influent pre-GAC reading during the highest flow rate (129 CFM) at VE-01. No detections above 0.0 ppm were observed at the effluent location following the GAC filter during either test.

During the SVE pilot test, GZA collected three grab samples using 6-Liter Tedlar bags. The samples collected are described as follows:

Sample Name	Representative of Vapor Concentrations	Laboratory Analysis
PT-01	Pre-GAC during testing at VE-01 at 31.7 CFM	Target Analyte List (TCL) volatile organic compounds (VOCs) by EPA Method TO-15
PT-02	Post-GAC during testing at VE-01 at 31.7 CFM	TCL VOCs by EPA Method TO-15
PT-03	Post-GAC during testing at VE-01 at 129 cfm	TCL VOCs by EPA Method TO-15



Air samples were submitted to York Analytical Laboratories (York), a New York State certified laboratory for VOC analysis using the United States Environmental Protection Agency (EPA) TO-15 method. The soil vapor sampling results are included on **Table 1**, and the laboratory report is included as **Attachment D**.

The concentrations of the primary constituents of concern on Site, TCE and PCE, had concentrations of 913 micrograms per cubic meter ($\mu\text{g}/\text{m}^3$) and $32.5 \mu\text{g}/\text{m}^3$ in the pre-GAC sample, respectively. The concentrations of TCE and PCE dropped significantly in the post-GAC samples. Concentrations of TCE in the post-GAC samples were $2.2 \mu\text{g}/\text{m}^3$ and $0.2 \mu\text{g}/\text{m}^3$. Results of PCE in the post-GAC samples were $1.1 \mu\text{g}/\text{m}^3$ and non-detect. Pilot test sampling results are summarized in **Table 1**.

SOIL VAPOR EXTRACTION PILOT TEST RESULTS – RADIUS OF INFLUENCE

As described in **Attachment C**, a radius of influence (ROI) of 20 feet was measured with a maximum wellhead vacuum of 15 inches of water column (in. WC) and extraction flow rate of 76 CFM. The 20-foot ROI was also achieved in one test at a lower vacuum of 9 in. WC and extraction flow rate of 36 CFM in the second test. Based on these results, the recommended applied vacuum is 15 in. WC for a target ROI of 20 feet.

The 20-foot ROI is designed to capture the conceptual SVE design area as proposed in the approved RAWP and as shown on **Figure 3**. This ROI and treatment area were chosen to mitigate soil vapors from migrating off-Site to neighboring properties to the east, north, and northeast.

SOIL VAPOR EXTRACTION SYSTEM DESIGN

The Pilot Test vapor extraction wells and monitoring points were attempted to be protected during excavation activities for the new building; however, they were damaged during work in Quarter 4 2025 and will not be used in the permanent SVE system.

The proposed SVE system has been designed to address off-Site migration of CVOCs in soil vapor identified during the RI. As part of the remediation for the property, source material has been excavated and disposed across the Site, including a uniform 4-foot excavation across the Site and a 1,600 square-foot and 27-foot deep excavation on the 29 Clay Street lot. The excavation goals were to remove the highest concentration of CVOCs and dense non-aqueous phase liquids (DNAPL) identified during the RI.

The SVE process uses the volatility of the contaminants to allow mass transfer from adsorbed and dissolved phases in soil and groundwater to the vapor phase, where it is removed under vacuum, and discharged to the atmosphere. Airflow is induced in the subsurface by a pressure gradient applied through horizontally installed extraction piping. The negative pressure inside the soil vapor extraction system will be generated by a vacuum blower, which causes soil vapors to migrate toward the piping. The SVE pilot test was used to determine the final design parameters for the full-scale system.

The proposed SVE system contains a horizontal 4-inch slotted schedule 40 PVC pipe with 0.02 inch slot screen. The horizontal pipe will be wrapped in filter fabric to prevent subgrade material from entering the SVE system. The horizontal SVE pipe will enter the building in one common location for access to the SVE equipment room on the ground floor. The horizontal SVE pipe will be set inside an excavated trench, approximately 2-feet in width and 1-foot beneath the Sub-Slab Depressurization System (SSDS) gas permeable aggregate (GPA) layer. The SVE trench will also contain GPA. The SVE trench will be backfilled with its bottom depth at least 1-foot above the highest groundwater elevation of approximately



6.85 ft (NAVD88). The SVE system will contain three cleanouts and three monitoring points for maintenance long term monitoring. The cleanouts and monitoring points will have access manholes at grade in the new building. Cleanout-01 (CO-01) will contain a ball valve to utilize the SVE piping to function as part of the SSDS once the SVE system is able to be taken off-line through testing and NYSDEC approval. The SVE system design is included on **Figure 3**, a cross-section of the system is included on **Figure 4**, and details for the cleanouts and monitoring points are included on **Figure 5**. **Figure 6** shows the SSDS and SVE system layouts across the Site.

The SVE system equipment will be housed within an equipment closet on the ground floor. The SVE system equipment will include moisture separator, transfer pump, condensate storage drum, vacuum alarms, fresh air intake filters, a regenerative blower, noise dampener, and GAC treatment drums. The GAC drums will contain sampling ports for long-term influent and effluent sampling. The regenerative blower will be an Atlantic Blowers AB-1100 (or approved equivalent) capable providing a flow rate of at least 450 CFM. The increase flow rate in the system is chosen to address system losses. The effluent exhaust will lead to a single vertical 6-inch galvanized steel discharge stack that discharges at the mechanical bulkhead roof level, above the 14th floor. The vertical stack will be manifolded with SSDS Riser VR-04. The discharge stack will emanate a minimum of 10-feet from any fresh air intakes, windows, or doorways. A process and instrumentation (P&I) diagram for the SVE equipment closet is included as **Figure 7**.

Long-term maintenance of the system will be addressed in the Final Engineering Report (FER) and Site Management Plan (SMP) for the Site.

If you have any questions regarding the SVE pilot test results or proposed SVE System design, please contact Ms. Whelan at (631) 793-8821.

Sincerely,

GZA GEOENVIRONMENTAL OF NEW YORK

Jackson Bogach, P.E.

Project Manager

Victoria D. Whelan, P.G.

Associate Principal

Stephen M. Kline, P.E.

Consultant Reviewer

Cc: S. Lawrence, S. McLaughlin - NYSDOH
Jane O'Connell, Andre Obligado - NYSDEC



ATTACHMENTS

Certification Statement

Table 1 – Volatile Organic Compounds – SVE Pilot Test

Figure 1 – Site Location Map

Figure 2 – SVE Pilot Test Layout Map

Figure 3 – SVE Design Layout

Figure 4 – SVE Cross-Section A-A'

Figure 5 – SVE Design Details

Figure 6 – SSDS and SVE Combined System Layout Map

Figure 7 – SVE Process and Instrumentation Diagram

Attachment A – SVE Pilot Test Workplan and Approval

Attachment B – Daily Field Reports

Attachment C – EnviroTrac SVE Pilot Test Report

Attachment D – SVE Pilot Test Laboratory Analytical Results



CERTIFICATION STATEMENT

I, Stephen M. Kline, P.E., certify that I am currently a NYS registered professional engineer and that this Soil Vapor Extraction System Design was prepared in accordance with all applicable statutes and regulations and in substantial conformance with the DER Technical Guidance for Site Investigation and Remediation (DER-10) and Green Remediation (DER-31).

Stephen M. Kline, P.E.

April 20, 2025

NYS Professional Engineer # 080431

Date

Signature





TABLES

**Table 1 - Volatile Organic Compounds
SVE Pilot Test
BCP Site No. C224390
19-29 Clay Street and 60-62 Commercial Street
Brooklyn, New York**

SAMPLE LOCATION	PT-01		PT-02		PT-03	
SAMPLING DATE	1/28/2025		1/28/2025		1/28/2025	
LABORATORY SAMPLE ID	25A1579-01		25A1579-02		25A1579-03	
SAMPLE DESCRIPTION	Pre-GAC: 31.7 CFM		Post-GAC: 31.7 CFM		Post-GAC: 129 CFM	
	Results	Qual	Results	Qual	Results	Qual
Volatile Organics in Air by TO-15 (µg/m³)						
1,1,1,2-Tetrachloroethane	2.7	U	0.7	U	0.7	U
1,1,1-Trichloroethane	2.2	U	0.5	U	0.5	U
1,1,2,2-Tetrachloroethane	2.7	U	0.7	U	0.7	U
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	3.1	U	0.8	U	0.8	U
1,1,2-Trichloroethane	2.2	U	0.5	U	0.5	U
1,1-Dichloroethane	1.6	U	0.4	U	0.4	U
1,1-Dichloroethylene	0.4	U	0.1		0.1	
1,2,4-Trichlorobenzene	3.0	U	0.7	U	0.7	U
1,2,4-Trimethylbenzene	3.7	D	0.5	U	0.5	U
1,2-Dibromoethane	3.1	U	0.8	U	0.8	U
1,2-Dichlorobenzene	2.4	U	0.6	U	0.6	U
1,2-Dichloroethane	1.6	U	0.4	U	0.4	U
1,2-Dichloropropane	1.8	U	0.5	U	0.5	U
1,2-Dichlorotetrafluoroethane	2.8	U	0.7	U	0.7	U
1,3,5-Trimethylbenzene	2.0	U	0.5	U	0.5	U
1,3-Butadiene	2.7	U	0.7	U	0.7	U
1,3-Dichlorobenzene	2.4	U	0.6	U	0.6	U
1,3-Dichloropropane	1.8	U	0.5	U	0.5	U
1,4-Dichlorobenzene	2.4	U	0.6	U	0.6	U
1,4-Dioxane	2.9	U	0.7	U	0.7	U
2,2,4-Trimethylpentane	1.5	D	0.2	J	0.3	
2-Butanone	1.2	D	0.5		0.6	
2-Hexanone	3.3	U	0.8	U	0.8	U
3-Chloropropene	6.3	U	1.6	U	1.6	U
4-Methyl-2-pentanone	2.0	D	1.1		1.7	
Acetone	7.6	J	3.6		5.5	
Acrylonitrile	11.3	U	2.8	U	2.8	U
Benzene	2.3	D	0.3	U	0.3	U
Benzyl chloride	2.1	U	0.5	U	0.5	U
Bromodichloromethane	2.7	U	0.7	U	0.7	U
Bromoform	4.1	U	1.0	U	1.0	U
Bromomethane	1.6	U	0.4	U	0.4	U
Carbon disulfide	1.2	U	0.3	U	0.3	U
Carbon tetrachloride	0.8	D	0.2	U	0.2	
Chlorobenzene	1.8	U	0.5	U	0.5	U
Chloroethane	1.1	U	0.3	U	0.3	U
Chloroform	2.0	U	0.5	U	0.5	U
Chloromethane	1.6	D	0.5		1.1	
cis-1,2-Dichloroethylene	0.6	D	0.1	U	1.0	
cis-1,3-Dichloropropylene	1.8	U	0.5	U	0.5	U
Cyclohexane	1.4	U	0.3	U	0.3	U
Dibromochloromethane	3.4	U	0.9	U	0.9	U
Dichlorodifluoromethane	2.0	D	0.5	U	0.7	
Ethyl acetate	3.0	D	2.6		4.0	
Ethyl Benzene	1.7	D	0.4	U	0.4	U
Hexachlorobutadiene	4.3	U	1.1	U	1.1	U
Isopropanol	5.9	J	1.5	J	3.7	
Methyl Methacrylate	2.5	D	1.7		2.0	
Methyl tert-butyl ether (MTBE)	1.4	U	0.4	U	0.4	U
Methylene chloride	8.3	U	2.1	J	2.1	J
Naphthalene	4.2	U	1.0	U	1.0	U
n-Heptane	1.6	U	0.4	U	0.4	U
n-Hexane	2.1	D	0.4	U	0.4	U
o-Xylene	1.7	D	0.4	U	0.4	U
p- & m- Xylenes	3.5	U	0.9	U	0.9	U
p-Ethyltoluene	2.4	D	0.5	U	0.5	U
Propylene	1.6	D	0.5		1.1	
Styrene	1.7	U	0.4	U	0.4	U
Tetrachloroethylene	32.5	D	0.7	U	1.1	
Tetrahydrofuran	2.4	U	0.6	U	0.6	U
Toluene	7.5	D	1.8		1.9	
trans-1,2-Dichloroethylene	1.6	U	0.4	U	0.4	U
trans-1,3-Dichloropropylene	1.8	U	0.5	U	0.5	U
Trichloroethylene	913.2	D	2.2		0.2	
Trichlorofluoromethane (Freon 11)	2.2	U	0.6	U	0.6	U
Vinyl acetate	1.4	U	0.4	U	0.4	U
Vinyl bromide	1.7	U	0.4	U	0.4	U
Vinyl Chloride	0.5	U	0.1	U	0.2	

TABLE NOTES:

NYSDOH : New York State Department of Health.

GAC : granular activated carbon.

CFM: cubic feet per minute

ug/m³ : micrograms per cubic meter.

Qual : Qualifiers.

U : Not detected at the reported detection limit for the sample.

D: Result is from an analysis that required a dilution

J: Analyte detected at or above the method detection limit but below the reporting limit - data is estimated

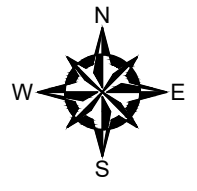


FIGURES



SOURCE:
 USGS TOPOGRAPHIC MAPS: BROOKLYN, NY (2023).
 CONTOUR INTERVAL 10FT., NAVD-1988, ORIGINAL SCALE
 1:24,000 (1IN.=2,000FT.).

UNLESS SPECIFICALLY STATED BY WRITTEN AGREEMENT, THIS DRAWING IS THE SOLE PROPERTY OF GZA GEOENVIRONMENTAL, INC. (GZA). THE INFORMATION SHOWN ON THE DRAWING IS SOLELY FOR USE BY GZA'S CLIENT OR THE CLIENT'S DESIGNATED REPRESENTATIVE FOR THE SPECIFIC PROJECT AND LOCATION IDENTIFIED ON THE DRAWING. THE DRAWING SHALL NOT BE TRANSFERRED, REUSED, COPIED, OR ALTERED IN ANY MANNER FOR USE AT ANY OTHER LOCATION OR FOR ANY OTHER PURPOSE WITHOUT THE PRIOR WRITTEN CONSENT OF GZA. ANY TRANSFER, REUSE, OR MODIFICATION TO THE DRAWING BY THE CLIENT OR OTHERS, WITHOUT THE PRIOR WRITTEN EXPRESS CONSENT OF GZA, WILL BE AT THE USER'S SOLE RISK AND WITHOUT ANY RISK OR LIABILITY TO GZA.



19-29 CLAY ST AND 60-62 COMMERCIAL ST
 BROOKLYN, NY 11222
 BCP SITE NO.: C224390

SITE LOCATION MAP

PREPARED BY:
GZA GeoEnvironmental of NY
 Engineers and Scientists
 www.gza.com

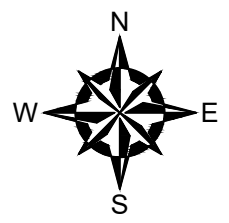
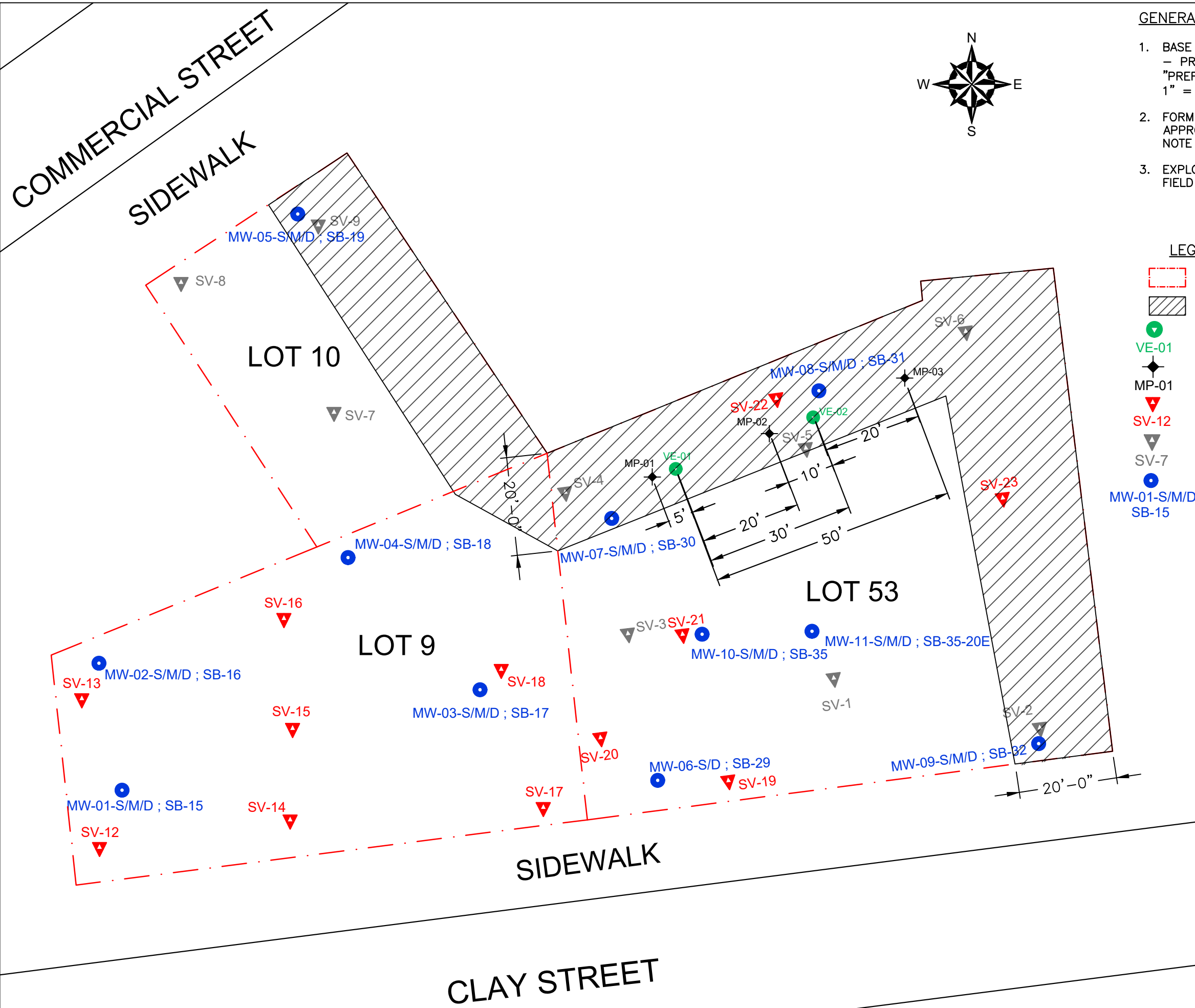
PROJ MGR: JB
 DESIGNED BY: JB
 DATE: MARCH 2026

REVIEWED BY: VW
 DRAWN BY: JB
 PROJECT NO.
 41.0163450.00

PREPARED FOR:
 CLAY PROPERTIES, LLC

CHECKED BY: SK
 SCALE: 1"=2000'
 REVISION NO. -

FIGURE
1
 SHEET NO.



GENERAL NOTES

1. BASE MAP DEVELOPED FROM DRAWING TITLED "FIGURE 6 - PROPOSED SAMPLING LOCATIONS", PREPARED BY "PREFERRED ENVIRONMENTAL SERVICES", ORIGINAL SCALE 1" = 25', DATED FEBRUARY 2024.
2. FORMER EXPLORATION LOCATIONS SHOWN ARE APPROXIMATED BASED ON THE SITE PLAN REFERENCED IN NOTE 1.
3. EXPLORATION LOCATIONS ARE APPROXIMATED BASED ON FIELD MEASUREMENTS FROM EXISTING SITE FEATURES.

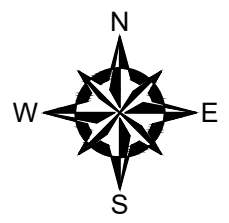
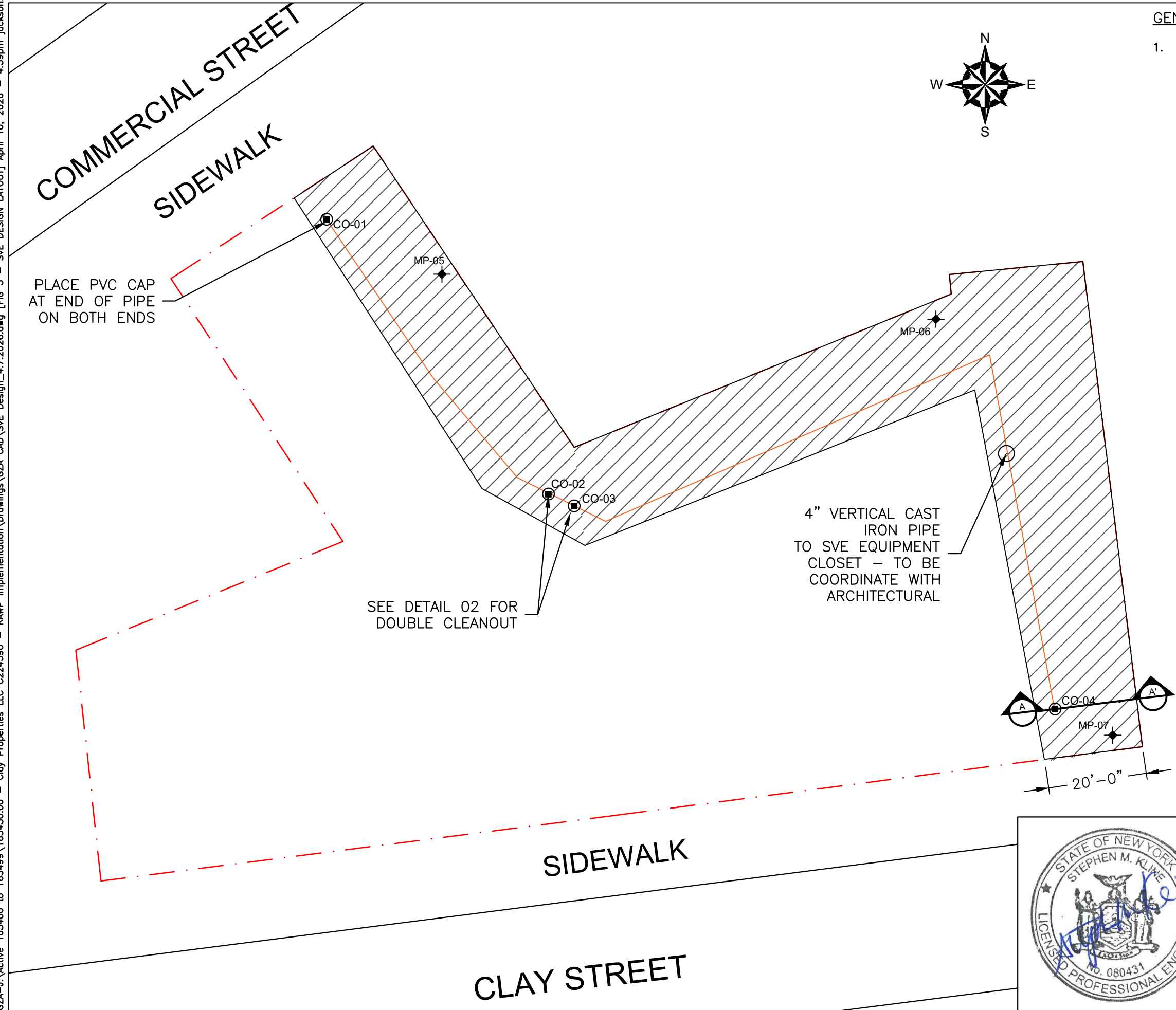
LEGEND

- APPROXIMATE SITE BOUNDARY
- APPROXIMATE PROPOSED SVE TREATMENT AREA
- APPROXIMATE SVE PILOT TEST EXTRACTION WELL LOCATION
- VE-01
- ◆ APPROXIMATE SVE PILOT TEST MONITORING POINT LOCATION
- MP-01
- ▼ APPROXIMATE SOIL VAPOR SAMPLING LOCATION - 2024 NYSDEC RI
- SV-12
- ▽ APPROXIMATE REMEDIAL INVESTIGATION SOIL VAPOR SAMPLING LOCATION - 2023 NYCOER RI
- SV-7
- APPROXIMATE MONITORING WELL CLUSTER AND SOIL BORING LOCATION - 2024 NYSDEC RI
- MW-01-S/M/D ; SB-15



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19-29 CLAY ST AND 60-62 COMMERCIAL STREET BROOKLYN, NY 11222 BCP SITE NO. C224390			
SVE PILOT TEST STUDY LAYOUT			
PREPARED BY: GZA GeoEnvironmental of NY Engineers and Scientists www.gza.com		PREPARED FOR: CLAY PROPERTIES, LLC	
PROJ MGR: JHB	REVIEWED BY: VW	CHECKED BY: SMK	FIGURE 2 SHEET NO.
DESIGNED BY: JHB	DRAWN BY: JHB	SCALE: 1" = 20'	
DATE: APRIL 2026	PROJECT NO. 41.0163450.00	REVISION NO. -	

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 GZA-J:\Active 163400 to 163499\163450.00 - Clay Properties LLC C224390 - RAWP Implementation\Drawings\GZA CAD\SVE Design_4.7.2026.dwg [FIG 3 - SVE DESIGN LAYOUT] April 10, 2026 - 4:59pm jackson.bogack



GENERAL NOTES

1. BASE MAP DEVELOPED FROM DRAWING TITLED "FIGURE 6 - PROPOSED SAMPLING LOCATIONS", PREPARED BY "PREFERRED ENVIRONMENTAL SERVICES", ORIGINAL SCALE 1" = 25', DATED FEBRUARY 2024.

LEGEND

- APPROXIMATE SITE BOUNDARY
- PROPOSED SVE TREATMENT AREA
- APPROXIMATE PROPOSED SVE CLEANOUT LOCATION WELL - SEE FIGURE 5, DETAILS 1, 2. AND 3
- CO-01
- APPROXIMATE PROPOSED SOIL VAPOR MONITORING POINT - SEE FIGURE 5, DETAIL 4
- MP-05
- HORIZONTAL SVE SUBGRADE PIPING - SLOTTED SCHEDULE 40 PVC WRAPPED IN FILTER FABRIC



NO.	ISSUE/DESCRIPTION	BY	DATE

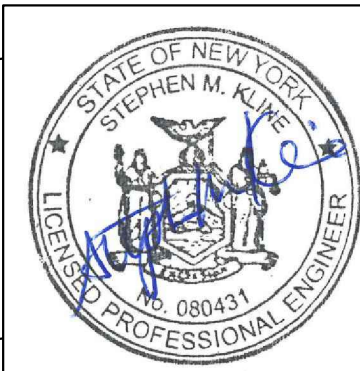
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19-29 CLAY ST AND 60-62 COMMERCIAL STREET
 BROOKLYN, NY 11222
 BCP SITE NO. C224390

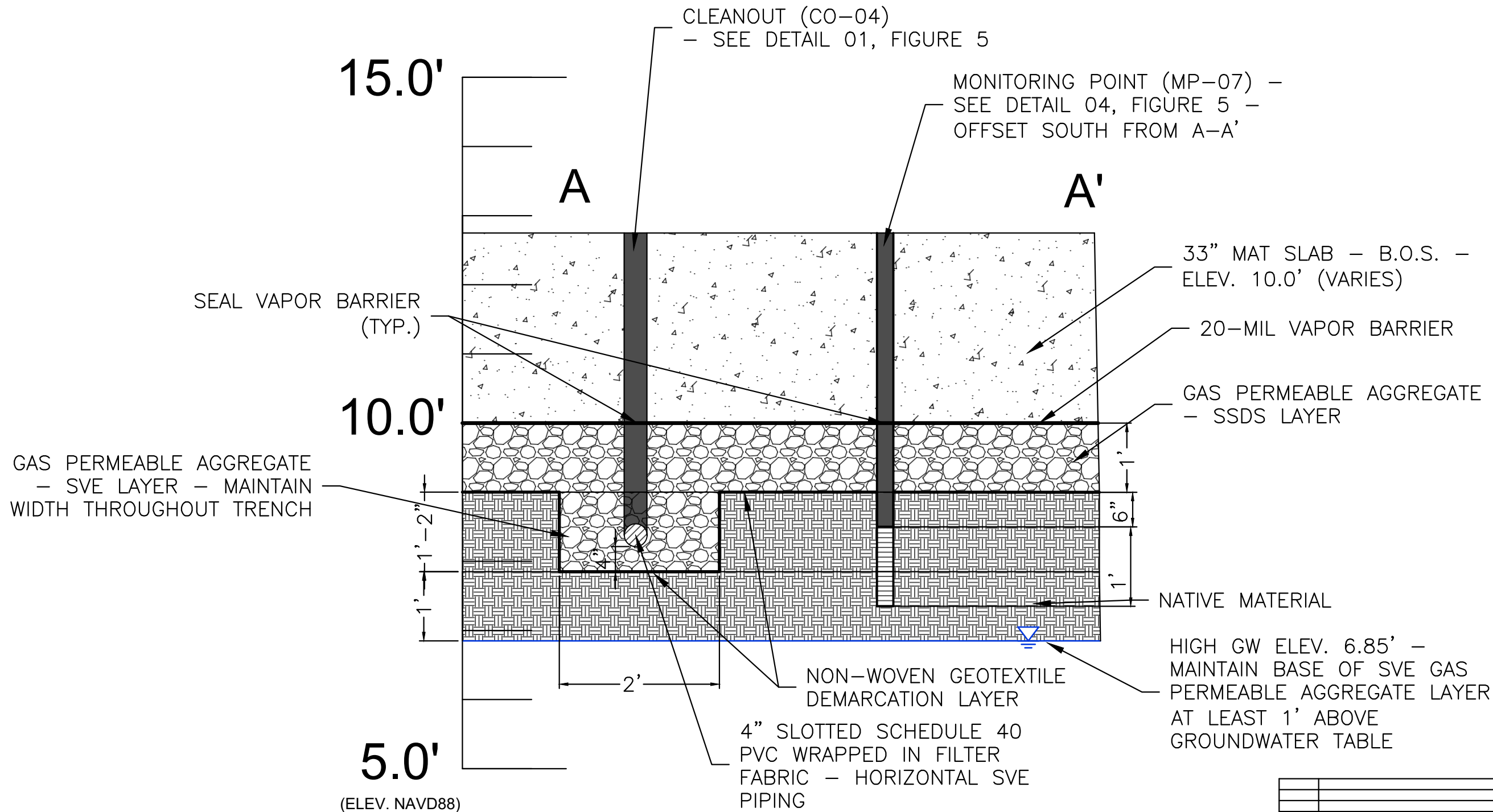
PROPOSED SVE LAYOUT

PREPARED BY: GZA GeoEnvironmental of NY Engineers and Scientists www.gza.com	PREPARED FOR: CLAY PROPERTIES, LLC
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PROJ MGR: JHB	REVIEWED BY: VW	CHECKED BY: SMK	FIGURE
DESIGNED BY: JHB	DRAWN BY: JHB	SCALE: 1" = 20'	3
DATE: APRIL 2026	PROJECT NO. 41.0163450.00	REVISION NO. -	



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 GZA-J:\Active 163400 to 163499\163450.00 - Clay Properties LLC C224390 - RAWP Implementation\Drawings\GZA CAD\SVE Design_4.7.2026.dwg [FIG 4 - A-A' CROSS SECTION (2)] April 10, 2026 - 4:29pm jackson.b

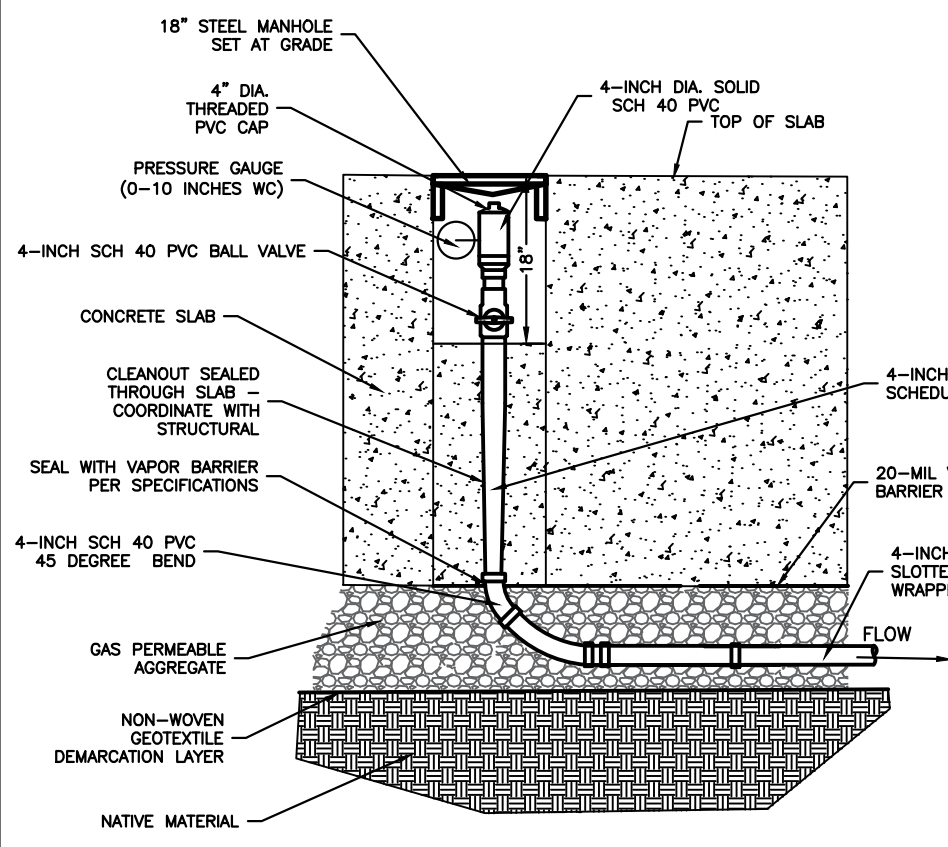


A-A' SVE TRENCH DETAIL
 N.T.S.

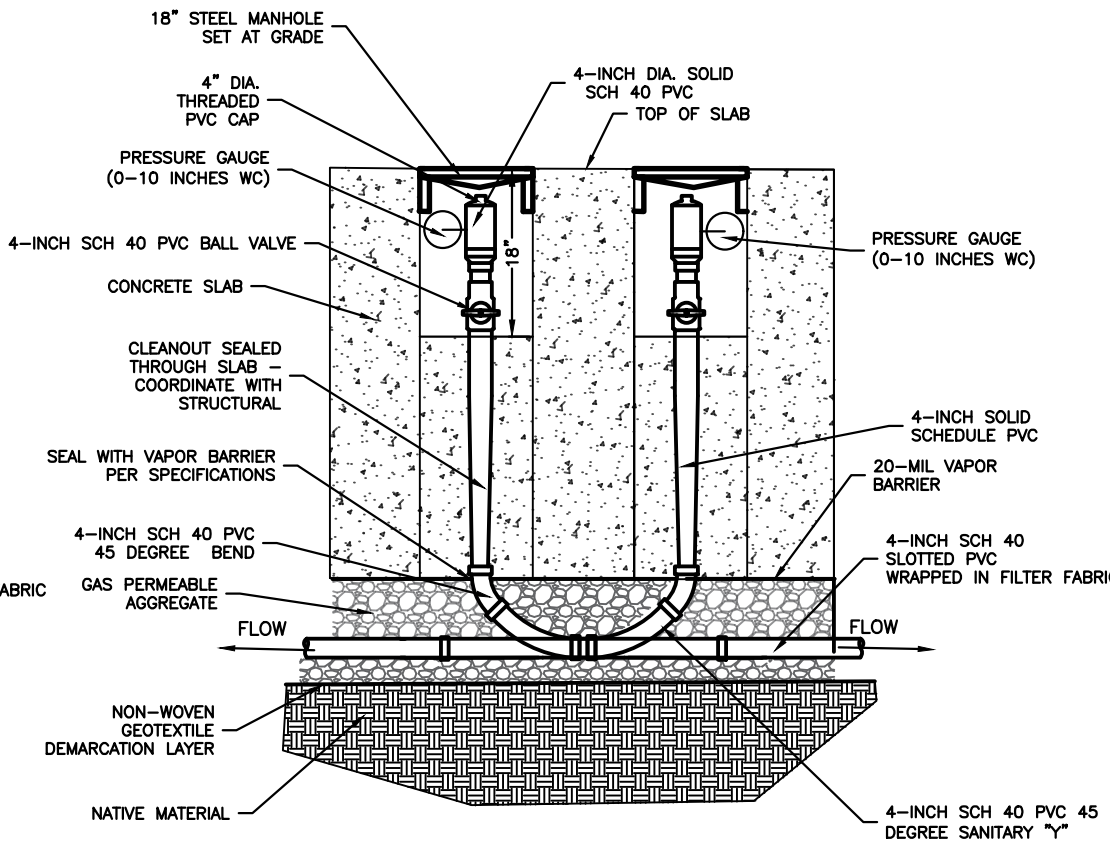


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<small>UNLESS SPECIFICALLY STATED BY WRITTEN AGREEMENT, THIS DRAWING IS THE SOLE PROPERTY OF GZA GEOENVIRONMENTAL, INC. (GZA). THE INFORMATION SHOWN ON THE DRAWING IS SOLELY FOR USE BY GZA'S CLIENT OR THE CLIENT'S DESIGNATED REPRESENTATIVE FOR THE SPECIFIC PROJECT AND LOCATION IDENTIFIED ON THE DRAWING. THE DRAWING SHALL NOT BE TRANSFERRED, REUSED, COPIED, OR ALTERED IN ANY MANNER FOR USE AT ANY OTHER LOCATION OR FOR ANY OTHER PURPOSE WITHOUT THE PRIOR WRITTEN CONSENT OF GZA. ANY TRANSFER, REUSE, OR MODIFICATION TO THE DRAWING BY THE CLIENT OR OTHERS, WITHOUT THE PRIOR WRITTEN EXPRESS CONSENT OF GZA, WILL BE AT THE USER'S SOLE RISK AND WITHOUT ANY RISK OR LIABILITY TO GZA.</small>			
19-29 CLAY ST AND 60-62 COMMERCIAL STREET BROOKLYN, NY 11222 BCP SITE NO. C224390			
SVE TRENCH DETAIL A-A'			
PREPARED BY: GZA GeoEnvironmental of NY Engineers and Scientists www.gza.com		PREPARED FOR: CLAY PROPERTIES, LLC	
PROJ MGR: JHB DESIGNED BY: JHB DATE: APRIL 2026	REVIEWED BY: VW DRAWN BY: JHB PROJECT NO. 41.0163450.00	CHECKED BY: SMK SCALE: NTS REVISION NO. -	FIGURE 4 SHEET NO.

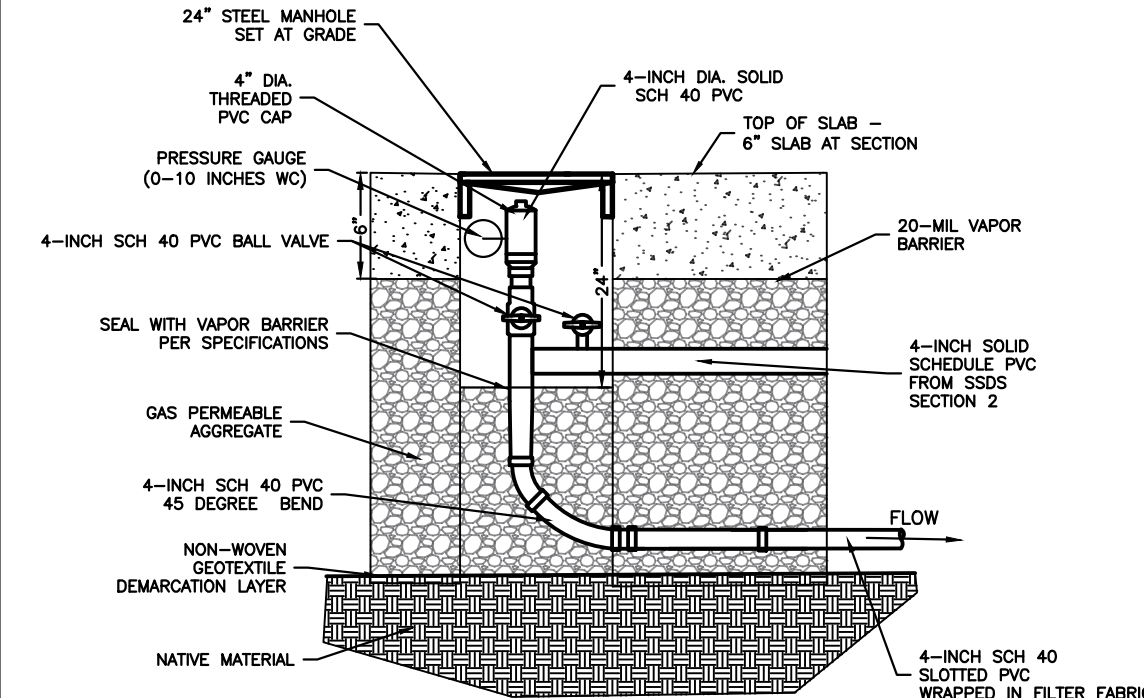
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 GZA-J:\Active 163400 to 163499\163450.00 - Clay Properties LLC C224390 - RAMP Implementation\Drawings\GZA CAD\SVE Design_4.7.2026.dwg [FIG 5 - SVE CONCEPTUAL DETAILS] April 10, 2026 - 5:01pm jackson.b



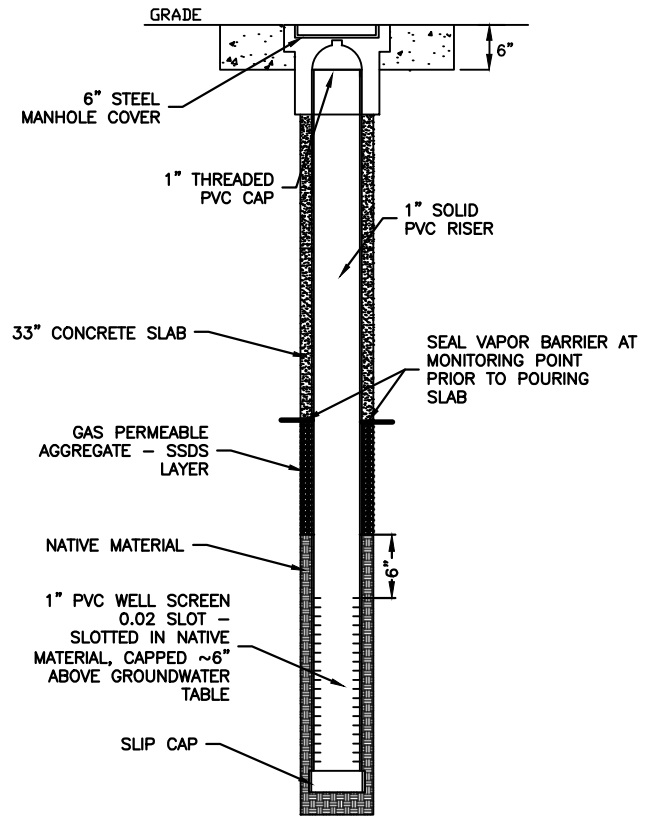
SOIL VAPOR EXTRACTION CLEANOUT (C0-04) N.T.S. 01



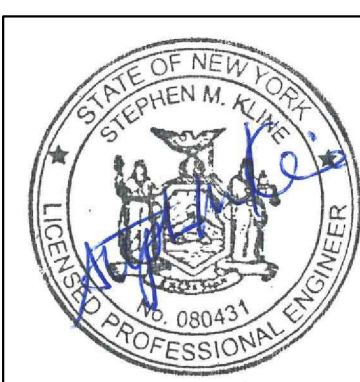
SOIL VAPOR EXTRACTION DOUBLE CLEANOUT (CO-02 AND C0-03) N.T.S. 02



SOIL VAPOR EXTRACTION CLEANOUT (C0-01) N.T.S. 03



SOIL VAPOR MONITORING POINT (MP) N.T.S. 04



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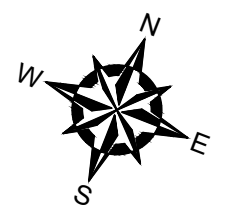
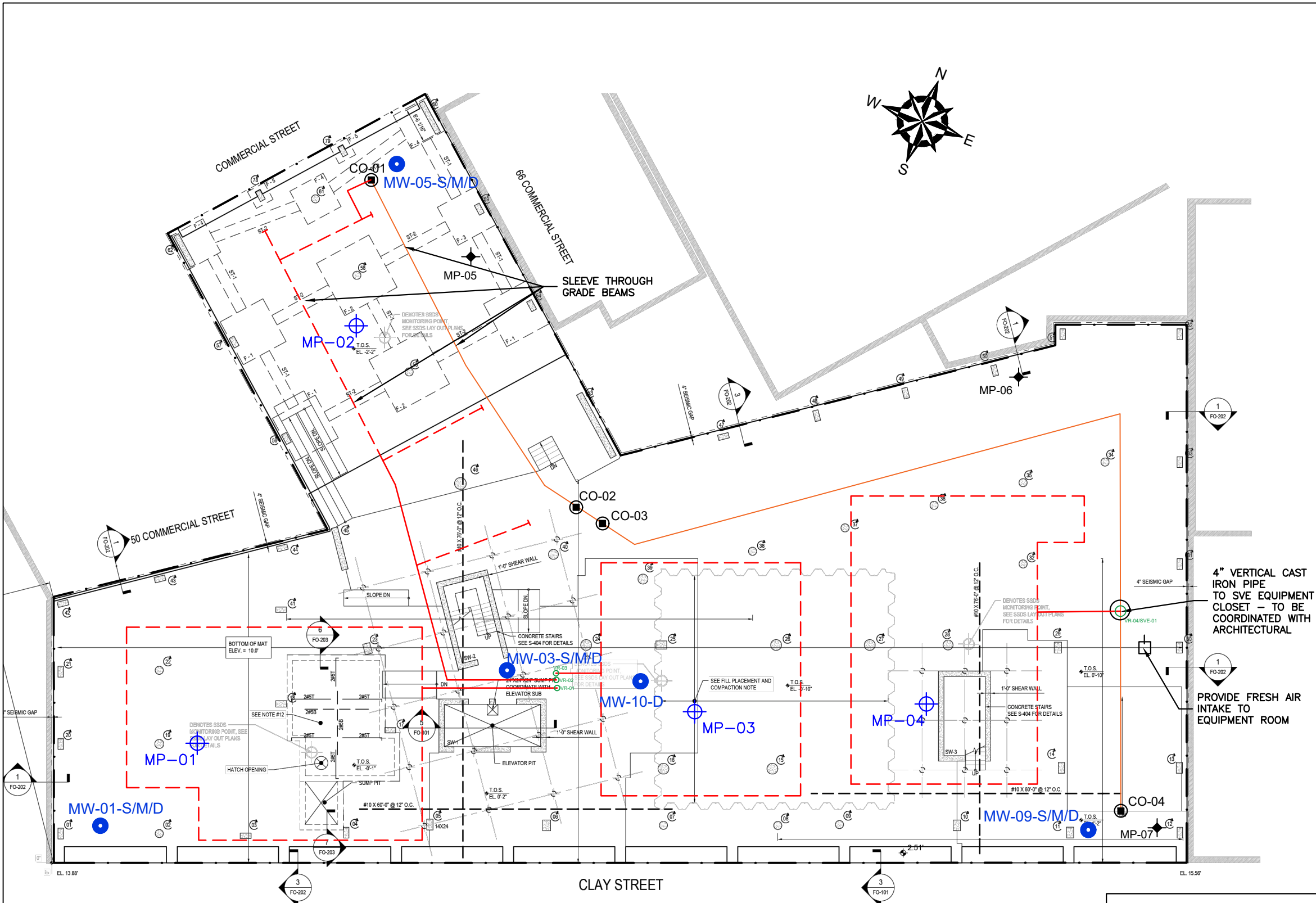
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 BROOKLYN, NY 11222
 BCP SITE NO. C224390

SVE DETAILS

PREPARED BY: GZA GeoEnvironmental of NY Engineers and Scientists www.gza.com	PREPARED FOR: CLAY PROPERTIES, LLC		
PROJ MGR: JHB	REVIEWED BY: VW	CHECKED BY: SMK	FIGURE
DESIGNED BY: JHB	DRAWN BY: JHB	SCALE: NTS	5
DATE: APRIL 2026	PROJECT NO. 41.0163450.00	REVISION NO. -	

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 GZA-J:\Active 163400 to 163499\163450.00 - Clay Properties LLC C224390 - RAWP Implementation\Drawings\GZA CAD\SVE Design_4.7.2026.dwg [FIG 7 - SVE_SSDS Layout Map] April 10, 2026 - 4:25pm jackson.bog



GENERAL NOTES

1. BASE MAP DEVELOPED FROM DRAWING TITLED "FOUNDATION/1ST FLOOR FRAMING PLAN", PREPARED BY "STRUCTURAL ENGINEERING TECHNOLOGIES, P.C.", DATED NOVEMBER 3, 2025.

LEGEND

- APPROXIMATE SITE BOUNDARY
- 4-INCH DIAMETER SLOTTED SCHEDULE 40 PVC SSDS PIPE BENEATH BUILDING SLAB
- 4-INCH DIAMETER SOLID SCHEDULE 40 PVC SSDS PIPE BENEATH BUILDING SLAB
- PVC CAP
- 4-INCH DIAMETER VERTICAL CAST IRON RISER PIPE EXTENDS THROUGH CELLAR SLAB
- PROPOSED SSDS MONITORING POINT LOCATION
- PROPOSED SVE CLEANOUT LOCATION
- PROPOSED SOIL VAPOR MONITORING POINT LOCATION
- HORIZONTAL SVE SUBGRADE PIPING - SLOTTED SCHEDULE 40 PVC WRAPPED IN FILTER FABRIC
- POST-CONSTRUCTION GROUNDWATER MONITORING WELL LOCATION



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 BCP SITE NO. C224390

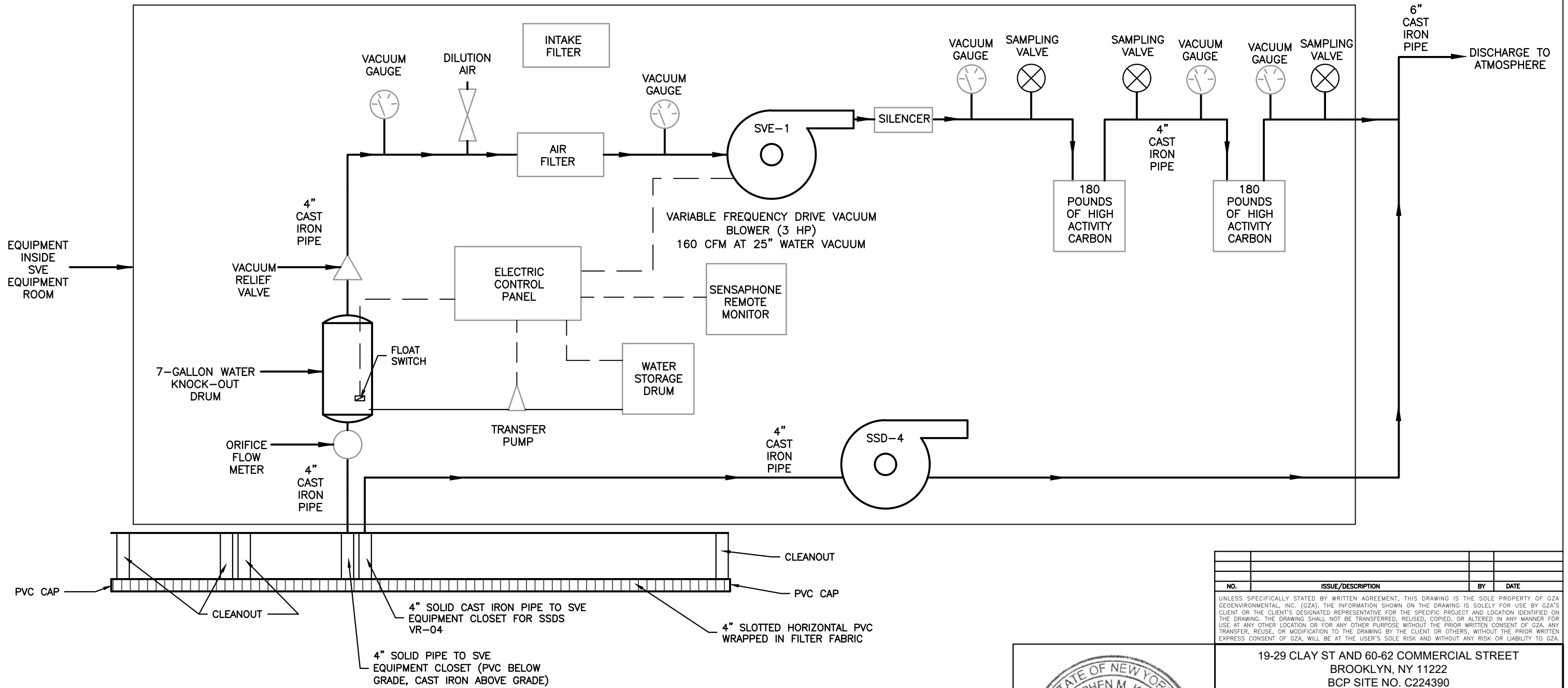
SUB-SLAB DEPRESSURIZATION SYSTEM AND SOIL VAPOR EXTRACTION SYSTEM LAYOUT MAP

PREPARED BY: **GZA** GeoEnvironmental of NY
 Engineers and Scientists
 www.gza.com

PREPARED FOR:
 CLAY PROPERTIES, LLC

PROJ MGR: JHB	REVIEWED BY: VW	CHECKED BY: SMK	FIGURE 6
DESIGNED BY: JHB	DRAWN BY: JHB	SCALE: 1" = 20'	
DATE: APRIL 2026	PROJECT NO. 41.0163450.00	REVISION NO. -	SHEET NO.





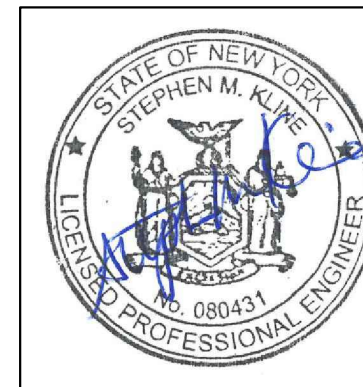
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19-29 CLAY ST AND 60-62 COMMERCIAL STREET
 BROOKLYN, NY 11222
 BCP SITE NO. C224390

SVE PROCESS & INSTRUMENTATION DIAGRAM

PREPARED BY: GZA GeoEnvironmental of NY Engineers and Scientists www.gza.com	PREPARED FOR: CLAY PROPERTIES, LLC		
PROJ MGR: JHB	REVIEWED BY: VW	CHECKED BY: SMK	FIGURE
DESIGNED BY: JHB	DRAWN BY: JHB	SCALE: NTS	7
DATE: APRIL 2026	PROJECT NO. 41.0163450.00	REVISION NO. -	SHEET NO.





SVE Pilot Test Results and Design Letter Report
BCP No. C224390
19-29 Clay Street, & 60-62 Commercial Street, Brooklyn, NY

ATTACHMENT A

SVE PILOT TEST WORKPLAN AND APPROVAL



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WATER
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MANAGEMENT

GZA GeoEnvironmental of
New York
55 Lane Road
Suite 407
Fairfield, NJ 07004
T: 973-774-3300
F: 973-774-3350
www.gza.com

October 22, 2024
File No. 41.0163305.00

Jennifer Gonzalez
Project Manager
New York State Department of Environmental Conservation
Division of Environmental Remediation, Region 2
47-40 21st Street,
Long Island City, NY 11101

RE: Soil Vapor Extraction Pilot Test Work Plan
NYSDEC BCP Site Nos. C224390
19-29 Clay Street, & 60-62 Commercial Street
Brooklyn, New York 11222
Block 2482 Lots 9, 10, and 53

Dear Ms. Gonzalez:

On behalf of Clay Properties, LLC (Participant/Owner), Goldberg Zoino & Associates, P.C. d/b/a GZA GeoEnvironmental of New York (GZA) is pleased to provide this Soil Vapor Extraction (SVE) Pilot Test Work Plan for the property located at 19-29 Clay Street, and 60-62 Commercial Street (the Site) in Brooklyn, New York. The Site is enrolled in the New York State Department of Environmental Conservation (NYSDEC) Brownfield Cleanup Program (BCP) as site number C224390. The Remedial Investigation for this project was completed in February 2023 and August-September 2024. A Remedial Investigation Report (RIR) was submitted to the NYSDEC on October 4, 2024. This SVE Pilot Test Work Plan is submitted in concurrence with the proposed Interim Remedial Measure Workplan (IRMWP) for the project.

BACKGROUND

The Site is located at 19-29 Clay Street, and 60-62 Commercial Street in Brooklyn, New York and is bound to the north (across Commercial Street) by an asphalt-paved storage yard for equipment and vehicles by the New York City Transit Authority (NYCTA); to the east by a 1-story warehouse and a new 7-story residential building (NYSDEC BCP Site No. C224153); to the south (across Clay Street) by the Former NuHart Plastics Site (NYSDEC BCP Site No. C224287); and to the west by a mixed-use development currently under construction (NYSDEC BCP Site No. C244278).

The Site is comprised of three lots, totaling approximately 0.46 acres. 19-27 Clay Street (Lot 9) contains a 2-story warehouse building that will be demolished as part of the IRM. The ground floor of the warehouse is currently unoccupied and the second floor is used as a temporary office by the Owner. 60-62 Commercial (Lot 10) is currently used as a parking area and storage yard, and 29 Clay Street (Lot 53) is currently a vacant lot. The proposed temporary SVE system is proposed to be located in the eastern and northern parcel extents of the 29 Clay Street lot.



Past uses of the Site include various industrial and manufacturing operations including iron works, a tin can storage facility, a cotton batting company, paper storage warehouse, and non-specific manufacturing uses.

SOIL VAPOR EXTRACTION SYSTEM

This workplan's objective is to describe a SVE pilot test whose data will be used to design and construct a full temporary SVE system that will be implemented during the construction phase of this project. The temporary SVE system will be designed to be converted to a permanent SVE system post-construction if post-remediation air sampling constitutes continuation of the system. The SVE system will be installed in the Northern and Eastern portions of the 29 Clay Street Lot and the Eastern portion of 60-62 Commercial Street to address off-site migration of chlorinated volatile organic compounds (cVOC) contamination identified during the Remedial Investigation (RI). See **Figure 1** for the proposed SVE treatment area.

The SVE system is expected to target the northern and eastern property line of the 29 Clay Street lot and eastern property line of the 60-62 Commercial Street, adjacent to the residential structures along these site boundaries. The SVE system will encompass an area of approximately 3,900 square feet (SF). However, final design will depend on the results of the pilot test.

The SVE remedial technology involves airflow within the subsurface with an applied vacuum, enhancing the in-situ volatilization of contaminants and capture of soil vapors. The SVE process uses the volatility of the contaminants to allow mass transfer from adsorbed and dissolved phases in soil and groundwater to the vapor phase, where it is removed under vacuum, and discharged to the atmosphere after treating with granular activated carbon (GAC). Airflow is induced in the subsurface by a pressure gradient applied through horizontally installed extraction piping. The negative pressure inside the soil vapor extraction system will be generated by a vacuum blower, which causes soil vapors to migrate toward the piping.

To design a SVE system, subsurface airflow pathways and extraction flow rates must be properly understood. The airflow field developed is dependent on many factors: the level of applied vacuum, available screen interval in the vadose zone, porosity, soil air permeability and its spatial variation, and depth to groundwater. Prior to designing or installation of a full-scale SVE system, GZA will conduct a pilot study at the Site to evaluate the applicability of this technology; obtain design parameters including radius of influence (ROI), applied vacuum, sustainable flowrates, vapor contaminant loadings; and promote remedial efficiency associated with the full-scale system.

SVE PILOT TEST STUDY

The SVE pilot test will be broken into multiple steps including extraction and monitoring well installation, mobilization, system shakedown, and SVE pilot testing.

Soil Vapor Extraction and Monitoring Well Installation

GZA will perform the SVE pilot test using the proposed extraction and monitoring wells shown on **Figure 1**. Prior to the pilot test, GZA will install two 4-inch SVE extraction wells and two 2-inch SVE monitoring wells, utilizing a drilling sub-contractor and direct-push technology (DPT) drilling. The shallow groundwater monitoring wells, MW-07S and MW-08S will also be utilized as monitoring wells during the pilot test. MW-07S and MW-08S are screened approximately 3 feet above and 7 feet beneath the groundwater table. The screen above the groundwater table



will provide monitoring information of subsurface air flow. If the groundwater table is found to be above the top of the screen through field measurements on the day of the test, then these wells will not be used to collect data.

The SVE extraction wells (VE-01 and VE-02) will be constructed using 4-inch diameter schedule 40 PVC riser pipe, and a 4-inch diameter, 0.020-inch slot, schedule 40 PVC screen. The screen will be installed from approximately 2 to 6 ft bgs, based on an estimated groundwater depth of 8 feet bgs. A solid PVC riser will extend up from the slotted screen to approximately 6-inches below ground surface. The annular space will be backfilled with #2 filter sand and an 8-inch manhole will be installed at the ground surface for well access. Before installing the extraction well, GZA will confirm groundwater depth and adjust well depths accordingly. The SVE well will be screened approximately 2-feet above the groundwater table. A typical detail for the extraction well is included as **Figure 2**.

Three (3) soil vapor monitoring points (MP-01 through MP-03) will be installed at respective intervals to provide radius of influence readings between the two extraction wells and three monitoring wells of 5, 10, 20, 30, 35 and 50 feet. This assumed that the vapor extraction wells will also be used for monitoring during the test. The monitoring points will be installed using 2-inch diameter schedule 40 PVC riser pipe, and a 2-inch diameter, 0.020-inch slot, schedule 40 PVC screen. The screens will be installed from approximately 2 to 6 ft bgs or approximately 2-feet above the groundwater table. The monitoring points will be installed using DPT, the annular space of the monitoring well will be backfilled with No. 2 filter sand and contain 8-inch manhole at the surface. The soil vapor monitoring well installation details are included on **Figure 2. a**

SVE Pilot Test Mobilization

A 3-horsepower (hp) regenerative blower unit with a variable frequency drive vacuum will be temporarily mobilized to the Site. The blower will be capable of developing 75-inches of water column and an air flow rate of 200 cubic feet per minute (cfm). The specifications for the blower are included in **Attachment A**. The skid-mounted unit will be equipped with a 170-lb vapor phase granular activated carbon (GAC) drum. A portable generator will be used to power the system during the pilot test. Appropriately sized vacuum and pressure hoses will connect the system.

It is anticipated that mobilization, system shakedown, and the SVE pilot test will occur in one, 8-hour field day.

System Shakedown

An initial shakedown test will be conducted prior to starting with the pilot test to get familiar with the system capacity and controls. It will be conducted at low and maximum sustainable applied vacuum. The procedures for each individual phase of the pilot test are provided below.

- Calibrate/check magnehelic gauges prior to test start.
- Run SVE blower with the dilution valve closed to determine the maximum achievable flow rate and vacuum. If water is sucked from the well, gradually open the dilution valve to determine the maximum flow rate without extracting water. The specifications for the SVE blower to be used during the pilot test is included as **Attachment A**.
- Take induced vacuum readings at each vapor point to get an idea of the magnitude/level of response.
- Confirm proposed flow rates fall into a range of approximately 50%, 75% and 100% of the maximum sustainable applied vacuum.



SVE Pilot Test

The SVE Pilot Test will include applying vacuum/flow to each of the installed extraction wells utilizing the provided blower, hose, and fittings. During each test, vacuum and flow monitoring will be performed on the extraction point and vacuum influence monitoring will be performed on the monitoring wells. The blower effluent will be treated through a 170-lb vapor phase carbon drum. At least three different magnitudes of vacuum/flow will be applied during the testing. For planning purposes, the proposed vacuum settings will be 10 cfm, 40 cfm, and 70 cfm. Dependent on field readings while testing, the vacuum settings may be adjusted to reach an optimal flow rate. The system and ground will be allowed to stabilize for at least 20-minutes between each test. An example form for collecting field measurements is included as **Table 1**.

During each test, field personnel will collect air readings from the pre-GAC influent and post-GAC effluent using a photoionization detector (PID) with parts per million (ppm) capabilities. GZA will collect four air samples, one from the pre-GAC influent and one from the post-GAC effluent, during the test with the low and intermediate vacuum setting (assuming 10 cfm and 40 cfm, unless adjusted in the field). The samples will be collected from the influent and effluent sampling ports using 2.7-Liter summa canisters with a 30-minute flow regulator. Air samples will be submitted to a New York ELAP-certified laboratory for VOC analysis by EPA TO-15 method.

In accordance with DAR-1 Guidance and Flowchart 1 within the guidance, pilot test activities qualify as a “trivial activity” under New York Codes, Rules and Regulations (6 CRR 201 – 3.3 - Item #30), and therefore do not require air modeling or permitting under Part 212. The Community Air Monitoring Plan (CAMP) and Construction Health and Safety Plan (CHASP) as shown in the IRMWP will be followed during SVE Pilot Test and associated well installation activities.

EVALUATION OF PILOT TEST RESULTS

Analytical laboratory data from SUMMA canisters, vacuum monitoring point measurements, and airflow measurements at the discharge will be used to design the temporary and full-scale system. The following factors will be used to evaluate the viability:

- Induced/applied vacuum
- Air flow
- Contaminant concentrations in the effluent
- Operating vacuum condition
- Radius of influence
- Treatment unit size

SVE DESIGN AND CONSTRUCTION

Data collected from the pilot test will be used to evaluate and calculate the design parameters for the temporary and full-scale SVE system, including; required flow rate, applied vacuum, and ROI for the SVE well. The remedial equipment will be sized to match the designed flow rate from each well and vacuum required during SVE system operation. A target vacuum of at least -0.10 IW at each vapor monitoring point will be required for the full-scale design. The proposed full-scale system will be installed as a temporary system to be used throughout construction, with the ability to be converted to a permanent SVE system, if necessary. The full-scale system will also include a series of vacuum monitoring wells in a network. A mobile SVE system trailer will house the blower,



air-water separator, controls, GAC drums and other system components. The temporary and full-scale system will include an exhaust stack that is at least 10-feet high and will be discharged at least 10-feet from any operable window or public space. Signage will be posted to prevent workers and the public from being in close proximity to the exhaust stack. Long-term maintenance of the SVE system will be addressed in the project’s Remedial Action Work Plan and Site Management Plan.

If you have any questions, please contact Victoria Whelan at (631) 793-8821 or Mark Hutson at (646) 929-8955.

Sincerely,
GZA GEOENVIRONMENTAL OF NEW YORK


Mark Hutson, P.G.
Senior Project Manager


Stephen M. Kline, P.E.
Consultant Reviewer




Victoria Whelan, P.G.
Senior Vice President

ATTACHMENTS

Table 1 – Induced Vacuum Log Sheet

Figure 1 – Pilot Test Study Layout

Figure 2 – Pilot Test Study Details

Attachment A – SVE Pilot Test Blower Specifications



October 22, 2024
SVE System Pilot Test Work Plan
BCP No. C224390
19-29 Clay Street, and 60-62 Commercial Street, Brooklyn, NY

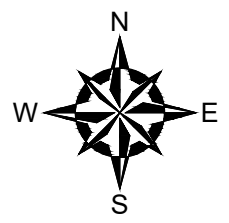
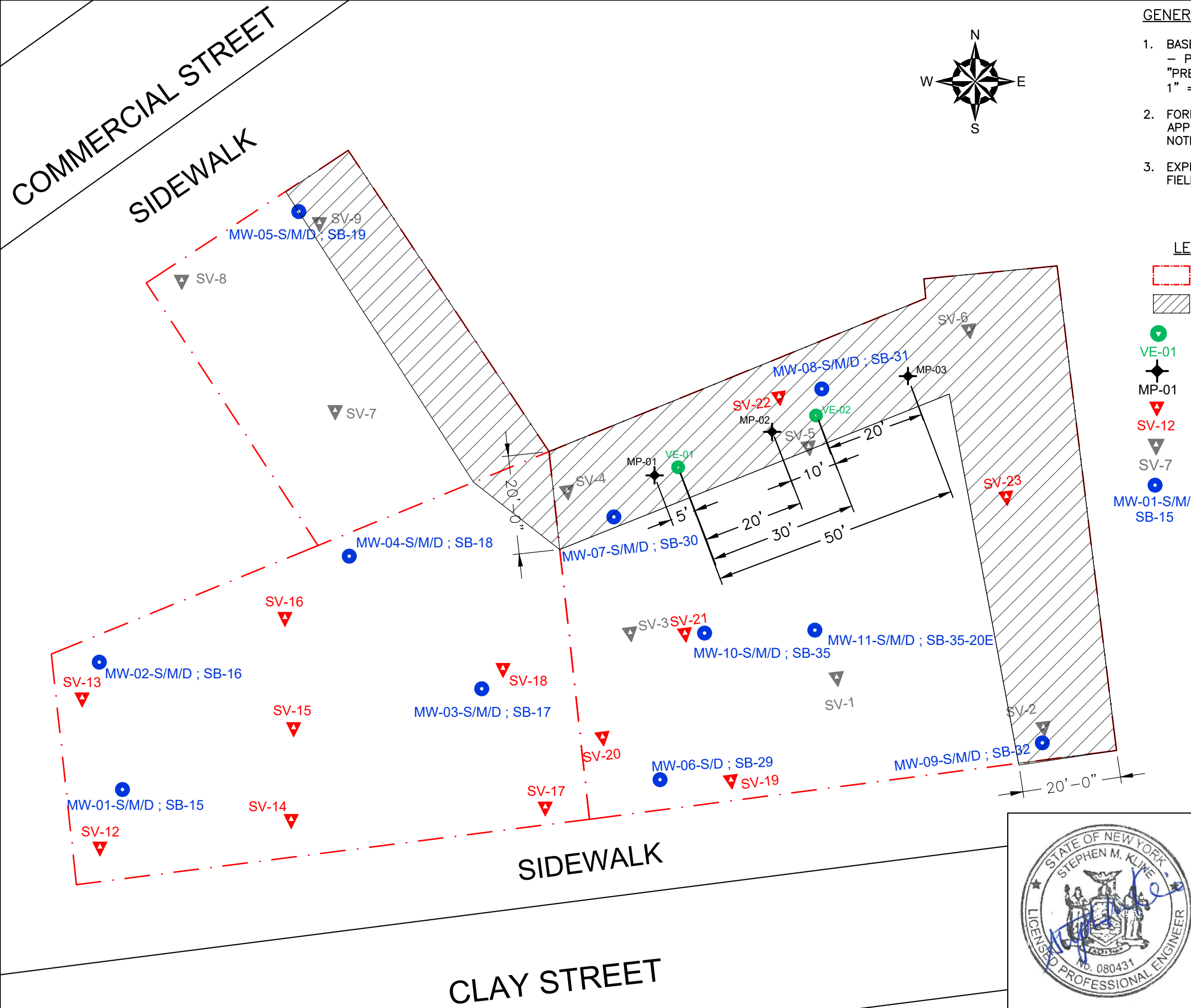
TABLE



October 22, 2024
SVE System Pilot Test Work Plan
BCP No. C224390
19-29 Clay Street, and 60-62 Commercial Street, Brooklyn, NY

FIGURES

©2024 - GZA GeoEnvironmental of NY.
 GZA-J:\Active 163299\163299.00 - 19 Clay Street and 60-62 Commercial St\Drawings\GZA\CAD\41.0163279.00_SVE\PilotTest.dwg [FIG 1 - SVE LAYOUT] January 15, 2025 - 12:59pm jackson.bogach

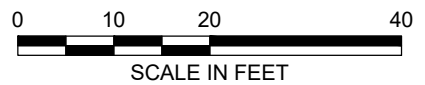


GENERAL NOTES

1. BASE MAP DEVELOPED FROM DRAWING TITLED "FIGURE 6 - PROPOSED SAMPLING LOCATIONS", PREPARED BY "PREFERRED ENVIRONMENTAL SERVICES", ORIGINAL SCALE 1" = 25', DATED FEBRUARY 2024.
2. FORMER EXPLORATION LOCATIONS SHOWN ARE APPROXIMATED BASED ON THE SITE PLAN REFERENCED IN NOTE 1.
3. EXPLORATION LOCATIONS ARE APPROXIMATED BASED ON FIELD MEASUREMENTS FROM EXISTING SITE FEATURES.

LEGEND

- APPROXIMATE SITE BOUNDARY
- APPROXIMATE PROPOSED SVE TREATMENT AREA
- APPROXIMATE PROPOSED SOIL VAPOR EXTRACTION MONITORING POINT - SEE DETAIL 1 ON FIGURE 2
- VE-01
- ✦ APPROXIMATE PROPOSED SOIL VAPOR MONITORING POINT - SEE DETAIL 2 ON FIGURE 2
- MP-01
- ▼ APPROXIMATE SOIL VAPOR SAMPLING LOCATION - 2024 NYSDEC RI
- SV-12
- ▼ APPROXIMATE REMEDIAL INVESTIGATION SOIL VAPOR SAMPLING LOCATION - 2023 NYCOER RI
- SV-7
- APPROXIMATE MONITORING WELL CLUSTER AND SOIL BORING LOCATION - 2024 NYSDEC RI
- MW-01-S/M/D ; SB-15



NO.	ISSUE/DESCRIPTION	BY	DATE

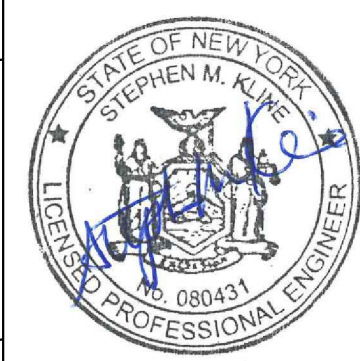
UNLESS SPECIFICALLY STATED BY WRITTEN AGREEMENT, THIS DRAWING IS THE SOLE PROPERTY OF GZA GEOENVIRONMENTAL, INC. (GZA). THE INFORMATION SHOWN ON THE DRAWING IS SOLELY FOR USE BY GZA'S CLIENT OR THE CLIENT'S DESIGNATED REPRESENTATIVE FOR THE SPECIFIC PROJECT AND LOCATION IDENTIFIED ON THE DRAWING. THE DRAWING SHALL NOT BE TRANSFERRED, REUSED, COPIED, OR ALTERED IN ANY MANNER FOR USE AT ANY OTHER LOCATION OR FOR ANY OTHER PURPOSE WITHOUT THE PRIOR WRITTEN CONSENT OF GZA. ANY TRANSFER, REUSE, OR MODIFICATION TO THE DRAWING BY THE CLIENT OR OTHERS, WITHOUT THE PRIOR WRITTEN EXPRESS CONSENT OF GZA, WILL BE AT THE USER'S SOLE RISK AND WITHOUT ANY RISK OR LIABILITY TO GZA.

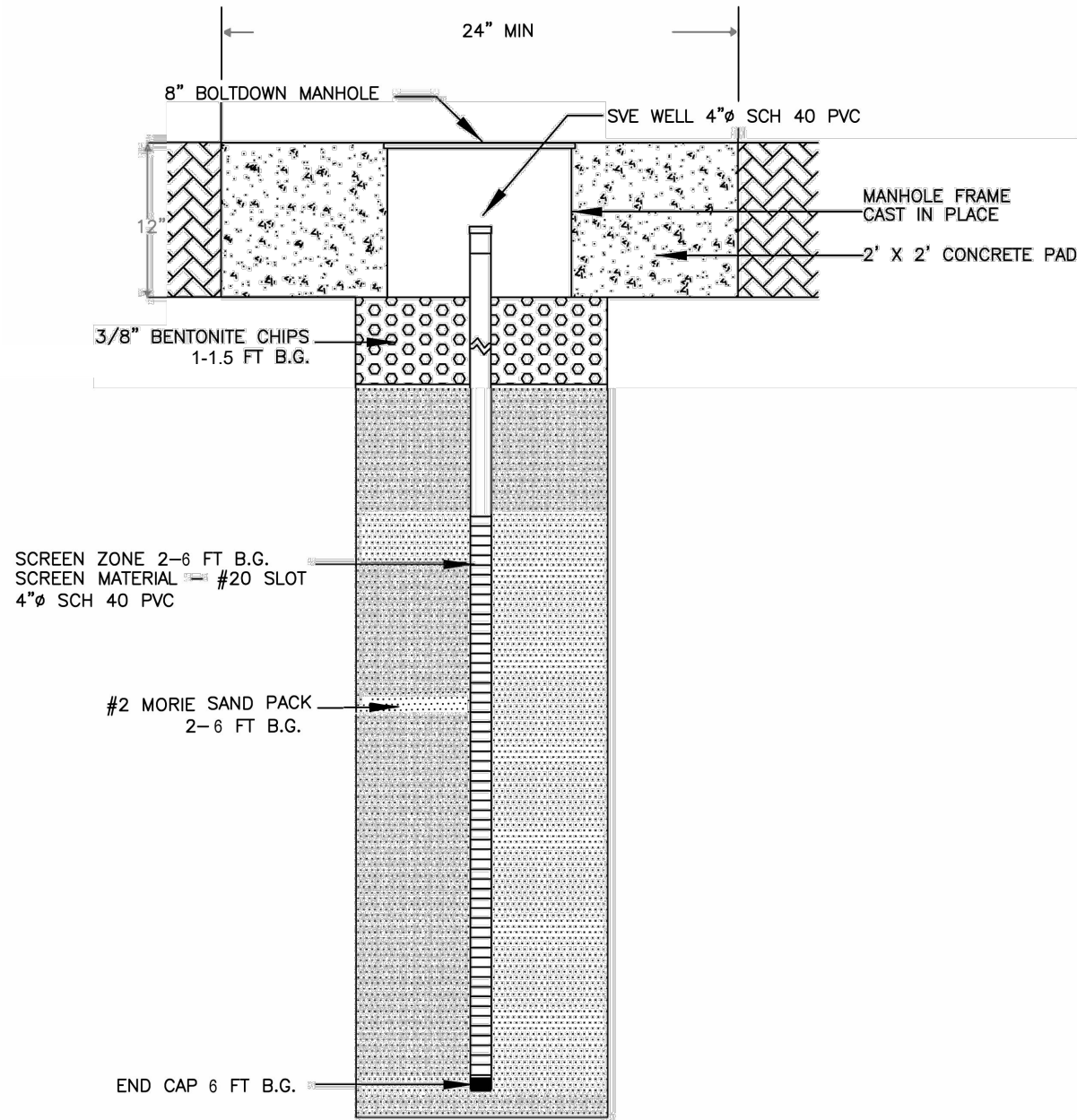
19-27 CLAY ST, 29 CLAY ST, AND 60-62 COMMERCIAL STREET
 BROOKLYN, NY 11222

PILOT TEST STUDY LAYOUT

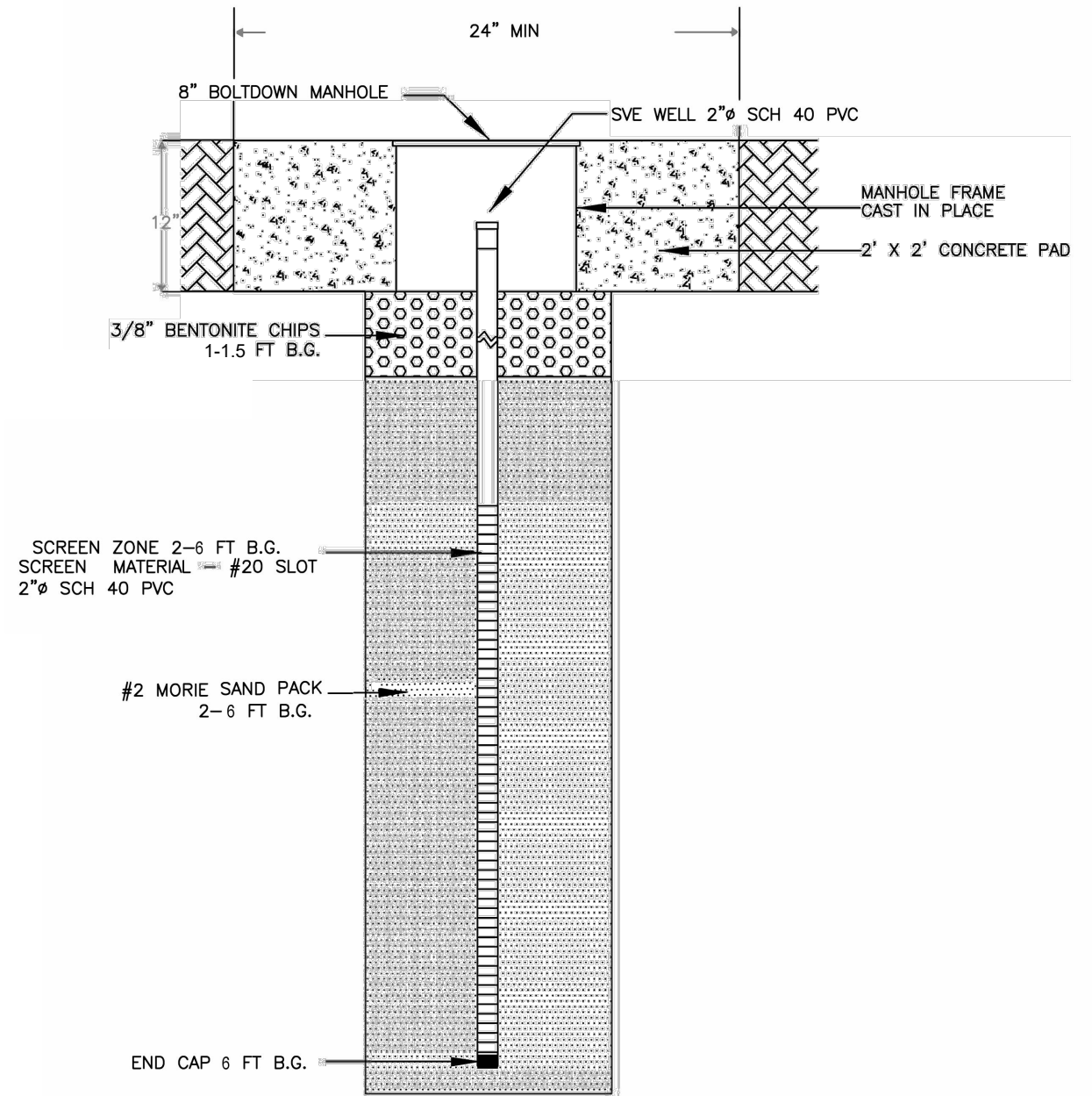
PREPARED BY: GZA GeoEnvironmental of NY Engineers and Scientists www.gza.com	PREPARED FOR: CLAY PROPERTIES, LLC
--	---------------------------------------

PROJ MGR: MH	REVIEWED BY: VW	CHECKED BY: SMK	FIGURE
DESIGNED BY: JHB	DRAWN BY: JHB	SCALE: 1" = 20'	D-1
DATE: JANUARY 2025	PROJECT NO.: 41.0163279.00	REVISION NO.: -	





DETAIL 1 - SOIL VAPOR EXTRACTION POINT (VE)
NOT TO SCALE



DETAIL 2 - SOIL VAPOR MONITORING POINT (MP)
NOT TO SCALE

GENERAL NOTES

1. DETAILS ADAPTED FROM DRAWING TITLED "PROPOSED SOIL VAPOR EXTRACTION WELL CONSTRUCTION DETAIL", BY "ENVIROTRAC ENVIRONMENTAL SERVICES".

NO.	ISSUE/DESCRIPTION	BY	DATE

UNLESS SPECIFICALLY STATED BY WRITTEN AGREEMENT, THIS DRAWING IS THE SOLE PROPERTY OF GZA GEOENVIRONMENTAL, INC. (GZA). THE INFORMATION SHOWN ON THE DRAWING IS SOLELY FOR USE BY GZA'S CLIENT OR THE CLIENT'S DESIGNATED REPRESENTATIVE FOR THE SPECIFIC PROJECT AND LOCATION IDENTIFIED ON THE DRAWING. THE DRAWING SHALL NOT BE TRANSFERRED, REUSED, COPIED, OR ALTERED IN ANY MANNER FOR USE AT ANY OTHER LOCATION OR FOR ANY OTHER PURPOSE WITHOUT THE PRIOR WRITTEN CONSENT OF GZA. ANY TRANSFER, REUSE, OR MODIFICATION TO THE DRAWING BY THE CLIENT OR OTHERS, WITHOUT THE PRIOR WRITTEN EXPRESS CONSENT OF GZA, WILL BE AT THE USER'S SOLE RISK AND WITHOUT ANY RISK OR LIABILITY TO GZA.

19-27 CLAY ST, 29 CLAY ST, AND 60-62 COMMERCIAL STREET
BROOKLYN, NY 11222

PILOT TEST STUDY DETAILS

PREPARED BY: GZA GeoEnvironmental of NY Engineers and Scientists www.gza.com	PREPARED FOR: CLAY PROPERTIES, LLC
PROJ MGR: MH DESIGNED BY: JHB DATE: JANUARY 2025	REVIEWED BY: VW DRAWN BY: JHB PROJECT NO. 41.0163279.00
CHECKED BY: SMK SCALE: 1" = 20'	REVISION NO. -
FIGURE D-2 SHEET NO.	





October 22, 2024
SVE System Pilot Test Work Plan
BCP No. C224390
19-29 Clay Street, and 60-62 Commercial Street, Brooklyn, NY

ATTACHMENT A – SVE PILOT TEST BLOWER SPECIFICATIONS

EN/CP 606 Explosion-Proof Regenerative Blower

FEATURES

- Manufactured in the USA
- Maximum flow: 200 SCFM
- Maximum pressure: 75 IWG
- Maximum vacuum: 75 IWG
- Standard motor: 3.0 HP, explosion-proof
- Cast aluminum blower housing, cover, impeller & manifold; cast iron flanges (threaded); teflon lip seal
- UL & CSA approved motor with permanently sealed ball bearings for explosive gas atmospheres Class I Group D minimum
- Sealed blower assembly
- Quiet operation within OSHA standards

MOTOR OPTIONS

- International voltage & frequency (Hz)
- Chemical duty, high efficiency, inverter duty or industry-specific designs
- Various horsepower for application-specific needs

BLOWER OPTIONS

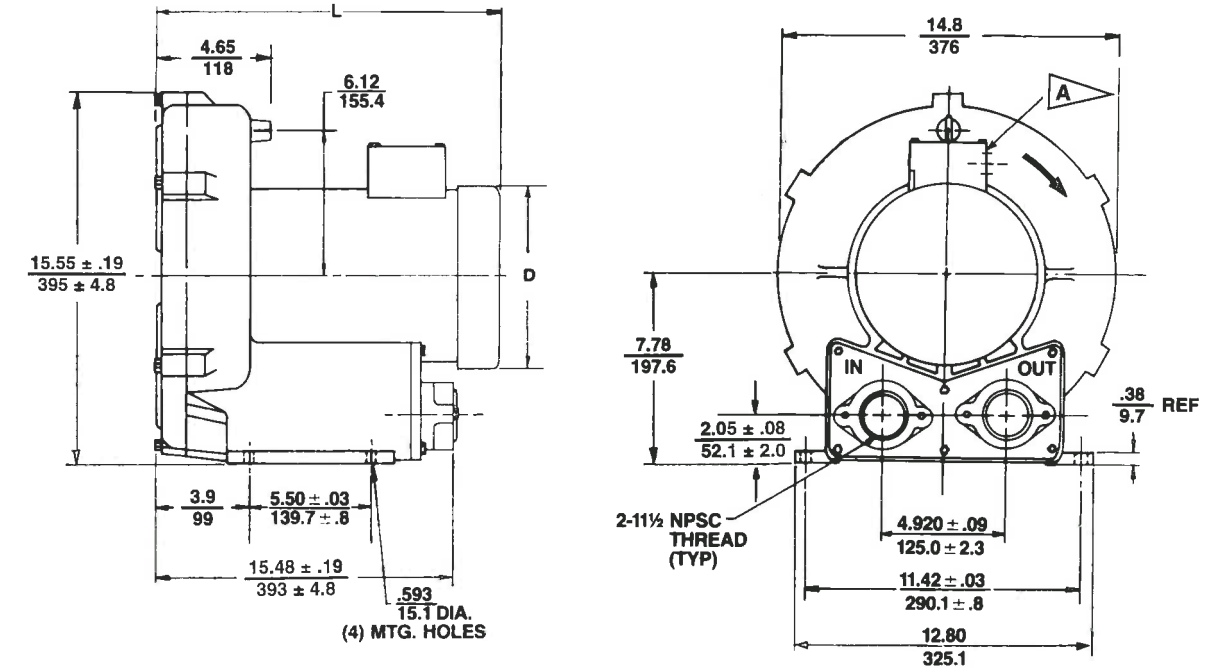
- Corrosion resistant surface treatments & sealing options
- Remote drive (motorless) models
- Slip-on or face flanges for application-specific needs

ACCESSORIES (See Catalog Accessory Section)

- Flowmeters reading in SCFM
- Filters & moisture separators
- Pressure gauges, vacuum gauges & relief valves
- Switches – air flow, pressure, vacuum or temperature
- External mufflers for additional silencing
- Air knives (used on blow-off applications)



EN/CP 606 Explosion-Proof Regenerative Blower

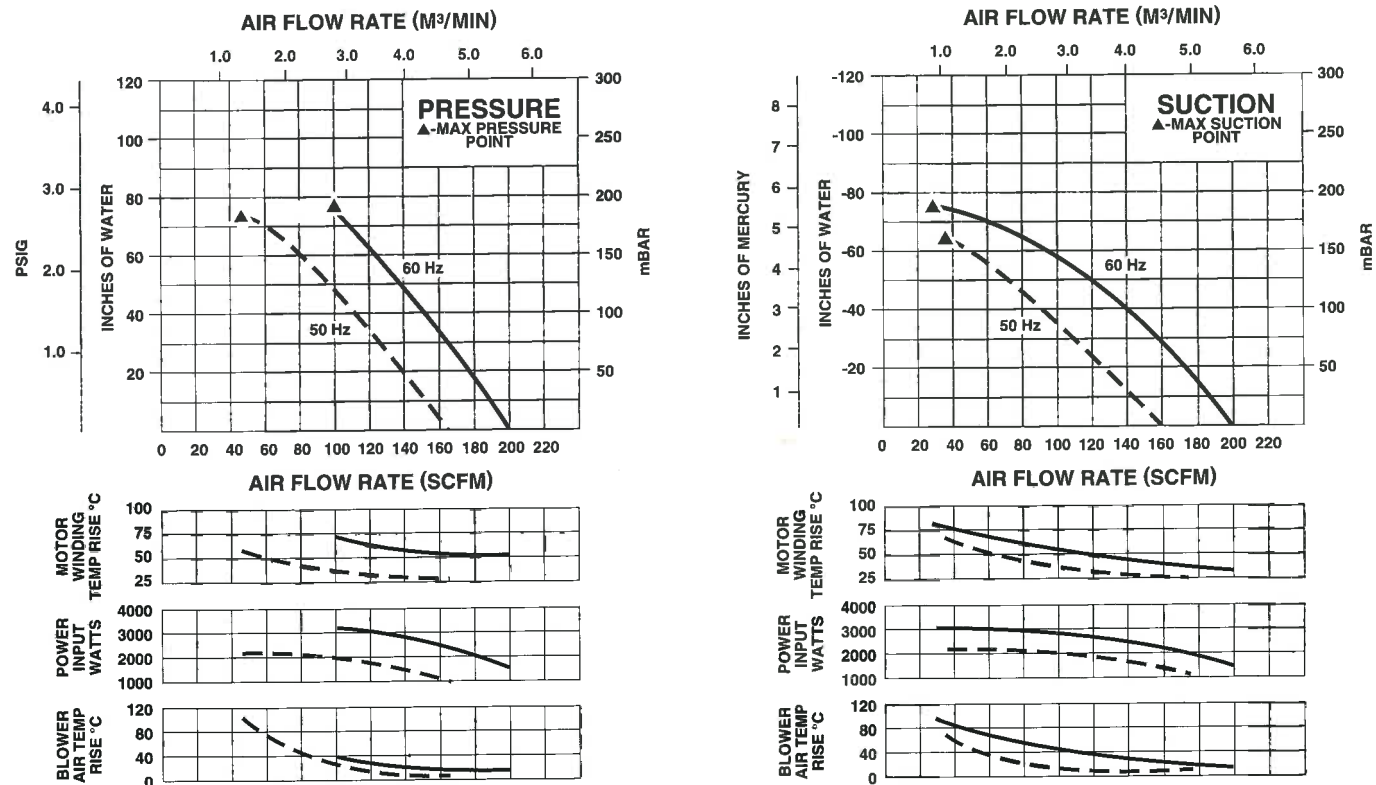


DIMENSIONS: IN
MM
TOLERANCES: .XX ± .1
(UNLESS OTHERWISE NOTED)

MODEL	L (IN) ± .3	L (MM) ± 8	D (IN) ± .1	D (MM) ± 3
EN/CP606M72ML	17.89	454	7.2	182
EN/CP606M5ML	19.9	505	8.5	216

A 0.75" NPT CONDUIT CONNECTION

BLOWER PERFORMANCE AT STANDARD CONDITIONS



SPECIFICATIONS

MODEL	EN606M5ML	EN606M72ML	EN606M86ML	CP606FU5MLR	CP606FU72MLR
Part No.	038538	038536	038437	-	038972
Motor Enclosure – Shaft Material	Explosion-proof – CS	Explosion-proof – CS	Explosion-proof – CS	Chem XP – SS	Chem XP – SS
Horsepower	3.0	3.0	3.0	Same as EN606M5ML – 038538	Same as EN606M72ML – 038536
Phase – Frequency ¹	Single - 60 Hz	Three - 60 Hz	Three - 60 Hz	Same as EN606M5ML – 038538	Same as EN606M72ML – 038536
Voltage ¹	208-230	208-230 460	575	except add Chemical Processing (CP) features from catalog inside front cover	except add Chemical Processing (CP) features from catalog inside front cover
Motor Nameplate Amps	15.5-14.5	7.8-7.4	3.7		
Max. Blower Amps ³	19	7.6	3.8		
Inrush Amps	94-88	60-54	27		
Starter Size	1	0	0		
Service Factor	1.0	1.0	1.0		
Thermal Protection ²	Class B - Pilot Duty	Class B - Pilot Duty	Class B - Pilot Duty		
XP Motor Class – Group	I-D, II-F&G	I-D, II-F&G	I-D, II-F&G		
Shipping Weight	130 lb (59 kg)	106 lb (48 kg)	106 lb (48 kg)		

¹ Rotron motors are designed to handle a broad range of world voltages and power supply variations. Our dual voltage 3 phase motors are factory tested and certified to operate on both: 208-230/415-460 VAC-3 ph-60 Hz and 200-220/400-440 VAC-3 ph-50 Hz. Our dual voltage 1 phase motors are factory tested and certified to operate on both: 104-115/208-230 VAC-1 ph-60 Hz and 100-110/200-220 VAC-1 ph-50 Hz. All voltages above can handle a ±10% voltage fluctuation. Special wound motors can be ordered for voltages outside our certified range.

² Maximum operating temperature: Motor winding temperature (winding rise plus ambient) should not exceed 140°C for Class F rated motors or 120°C for Class B rated motors. Blower outlet air temperature should not exceed 140°C (air temperature rise plus inlet temperature). Performance curve maximum pressure and suction points are based on a 40°C inlet and ambient temperature. Consult factory for inlet or ambient temperatures above 40°C.

³ Maximum blower amps corresponds to the performance point at which the motor or blower temperature rise with a 40°C inlet and/or ambient temperature reaches the maximum operating temperature.

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



January 17, 2025

Idan Shitrit
Clay Properties LLC
134 North 4th Street
Brooklyn, NY 11249

**Re: Interim Remedial Measure Work Plan
Clay Properties LLC Site
19-27 Clay Street, 29 Clay Street & 60-62 Commercial Street
BCP Site ID No.: C224390
Brooklyn, Kings County**

Dear Mr. Shitrit:

The New York State Department of Environmental Conservation (NYSDEC), in consultation with the New York State Department of Health (NYSDOH), has completed its review of the Interim Remedial Measure Work Plan (IRMWP) dated January 2025, which was prepared by Goldberg-Zoino-Associates of New York P.C d/b/a GZA Geoenvironmental of New York (GZA) on behalf of Clay Properties LLC (the Volunteer). The IRMWP was submitted to the NYSDEC under the Brownfield Cleanup Program. The IRMWP is deemed adequate and is hereby approved for implementation.

The Volunteer and its contractors are solely responsible for safe execution of all invasive and other field work performed under this IRMWP. The Volunteer and its contractors must obtain all local, state, and/or federal permits or approvals that may be required to perform work under this IRMWP. Further, the Volunteer and its contractors are solely responsible for the identification of utilities that might be affected by work under this IRMWP and, implementation of all required, appropriate, or necessary health and safety measures during performance of work under this IRMWP.

In accordance with the requirements of the Brownfield Cleanup Agreement and the Citizen Participation Plan, the approved IRMWP must be placed in the project document repositories within 5 business days. Any draft copies of this work plan should be removed. A certification that this document has been placed in the project repositories, and that the repositories are complete with all project documents, must be submitted to the NYSDEC project manager.

Please notify the NYSDEC at least 7 days prior to commencing any field work related to the approved IRMWP. Should you have any questions regarding this letter or any other aspect of the project, please contact me at 718-482-4508 or jennifer.gonzalez@dec.ny.gov

Regards,

Jennifer Gonzalez
Project Manager

cc: J. O'Connell, A. Obligado, A. Pereira – NYSDEC
S. McLaughlin, S. Lawrence – NYSDOH
V. Whelan, M. Hutson, J. Bogach – GZA
D. Yudelson, J. Coghlan – Sive, Paget & Riesel



ATTACHMENT B

DAILY FIELD REPORTS



GZA DAILY FIELD SUMMARY 003

DATE: 01/23/2025
FILE NO: 41.0163385.00

WORK PERFORMED AND DOCUMENTED

Thursday – 1/23/2025

Work Location (Attachment A):

1. AARCO installed two DNAPL recovery wells (RW-03 and RW-05) The terminal depths for the wells are 25 feet below ground surface (ft bgs). The recovery well locations are shown on **Attachment A**.
2. GZA observed drilling of the recovery wells, logged the well construction, and monitored the air with a handheld PID during drilling.
3. AARCO installed monitoring point MP-01 and vapor extraction point VE-01 to 6 feet bgs. Monitoring point and vapor extraction point locations are shown on **Attachment A**.
4. GZA gauged and collected groundwater quality parameters from monitoring wells at 19-27 Clay & 60-62 Commercial Street (MW-01S/M/D through MW-05S/M/D). GZA gauged MW-10S/M/D, MW-11S/M/D, and the newly installed recovery wells (RW-01 through RW-05) at 29 Clay Street.

Photos of the Site activities are provided in **Attachment B**.

EQUIPMENT AND MATERIALS USED ON SITE

- Handheld Rae Systems MiniRae 3000 PID
- Pine Environmental CAMP Stations with remote telemetry system (048060 – Downwind 1, 050003 – Downwind 2, 217214– Upwind)
- Geoprobe 8150LS

VOC DELINEATION SOIL SAMPLES COLLECTED (SINCE LAST REPORT)

- None collected

GROUNDWATER, SOIL VAPOR, AND AMBIENT AIR SAMPLES COLLECTED (SINCE LAST REPORT)

- No samples collected during this monitoring period.

AIR MONITORING RESULTS:

Background Prestart Conditions – PID: 0.00 ppm, Particulates: 19.87 ug/m³

High Conditions – PID: 0.07 ppm, Particulates: 64.00 ug/m³

µg/mg³ = micrograms per cubic meter

ppm – parts per million

A replacement for CAMP station (Downwind 2) was set up at 10:15 and began recording data at 10:45. Downwind CAMP readings from site activities until then were recorded using CAMP Station – Downwind 1.

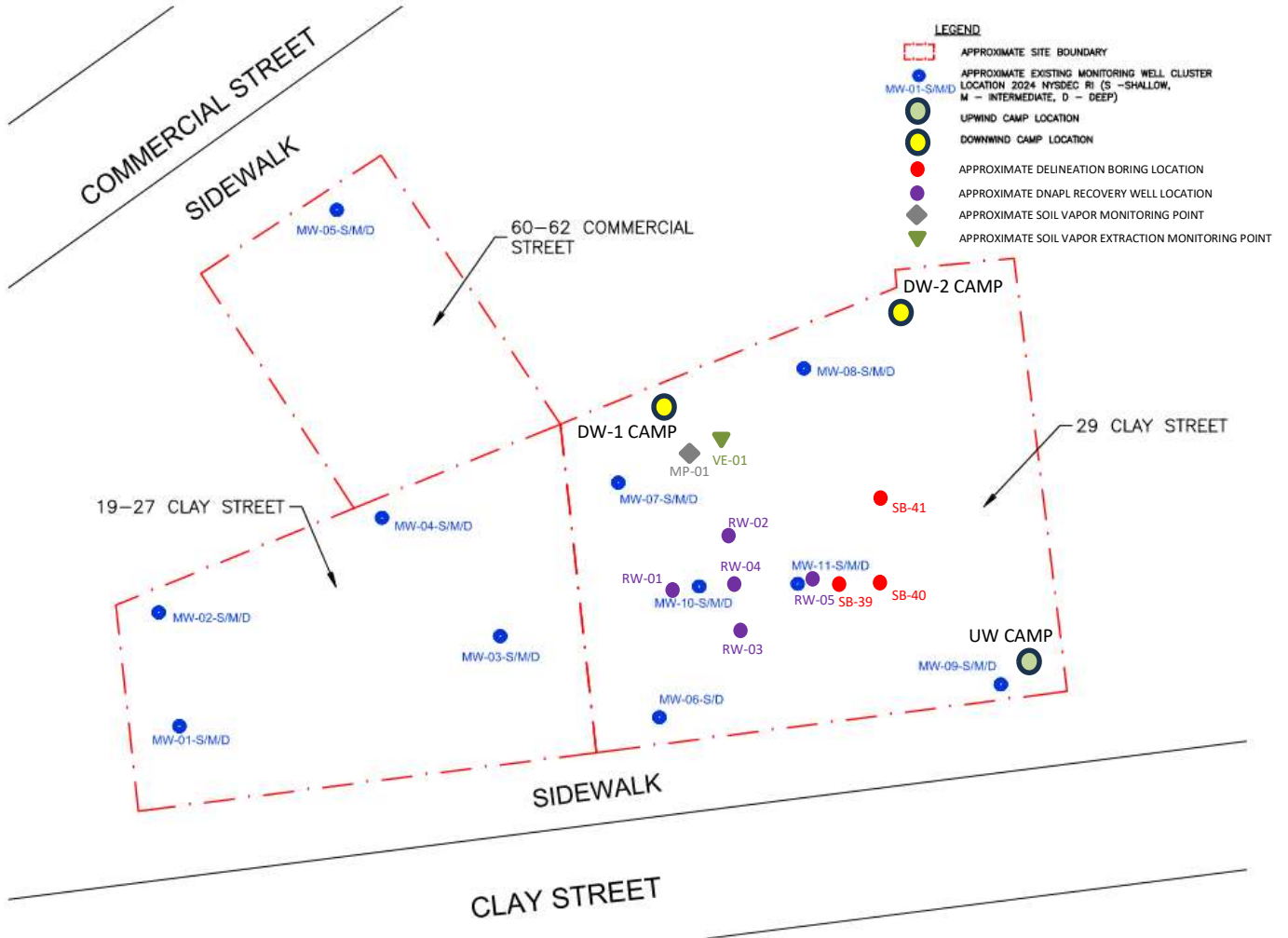
Daily instrumentation calibration log and results are included in **Attachment C**. There were no particulate or VOC exceedances noted during this monitoring period. Results are provided in **Attachment C**.



GZA DAILY FIELD SUMMARY 003

DATE: 01/23/2025
FILE NO: 41.0163385.00

ATTACHMENT A – SITE PLAN








GZA DAILY FIELD SUMMARY 003

DATE: 01/23/2025
 FILE NO: 41.0163385.00

ATTACHMENT B – PHOTO LOG

Photo No. 1	Direction Photo Taken: East	Photo No. 2	Direction Photo Taken Northeast
			
<p>Description: AARCO drilling RW-05. Downwind CAMP stations are shown adjacent to the property boundary.</p>		<p>Description: AARCO installing 4-inch well casing for RW-05.</p>	
Photo No. 3	Direction Photo Taken: Northwest	Photo No. 4	Direction Photo Taken East
			
<p>Description: GZA collecting groundwater quality readings from MW-02.</p>		<p>Description: AARCO drilling VE-01. Also shown MP-01 installed.</p>	



GZA DAILY FIELD SUMMARY 003

DATE: 01/23/2025
 FILE NO: 41.0163385.00

ATTACHMENT C – AIR MONITORING

Daily Instrument Calibration Log

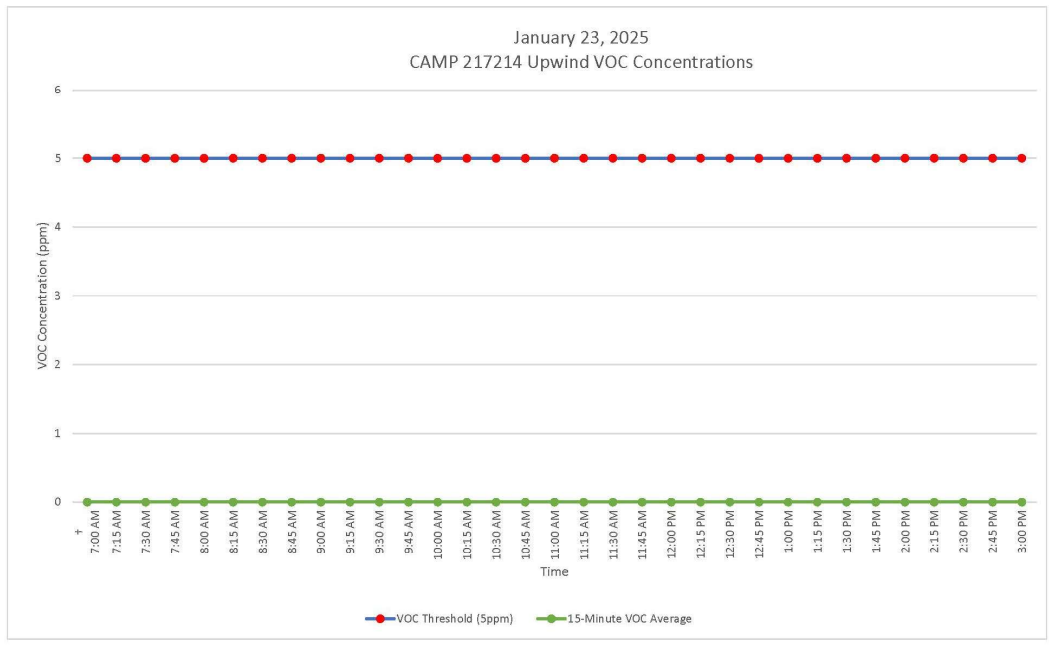
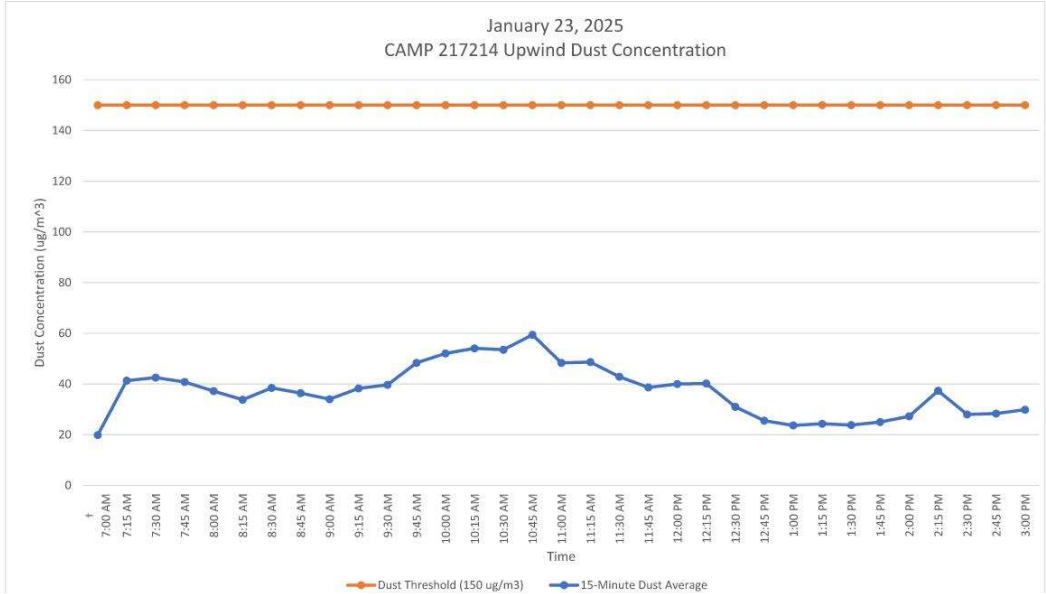
Date: January 23, 2025		Sampling Technician: Jazlyn Natalie	
Project #: 41.0163385.00		Project Name: Clay Properties LLC - IRM	
Instruments Used:		Inspection Notes:	
Station 1	PID 1 SN: 592-920850	_____	
	Data Ram 1 SN: 8530110310	_____	
Station 2	PID 2 SN: 592-927198	_____	
	Data Ram 2 SN: 853018805	_____	
Station 3	PID 3 SN: 592-906687	_____	
	Data Ram 3 SN: 8530141213	_____	
Hand Held	PID Model 580 SN: 592-927659	_____	
Pre-Calibration/Standardization:		Repair Needed:	
PIDs: Zero		Gas - 100 ppm	
1	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	1	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO
2	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	2	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO
3	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	3	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO
Hand Held	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	Hand Held	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO
Data	Zero		
Rams: 1	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO		
2	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO		
3	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO		
Hand Held	<input type="checkbox"/> YES <input type="checkbox"/> NO		
Post-Shift Download:			
PIDs:	Instrument:	Results/Comments:	
1	<input checked="" type="checkbox"/> Data <input checked="" type="checkbox"/> Avg <input checked="" type="checkbox"/> Summary	_____	
2	<input checked="" type="checkbox"/> Data <input checked="" type="checkbox"/> Avg <input checked="" type="checkbox"/> Summary	_____	
3	<input type="checkbox"/> Data <input type="checkbox"/> Avg <input type="checkbox"/> Summary	_____	
Data Rams:			
1	<input checked="" type="checkbox"/> Data	_____	
2	<input checked="" type="checkbox"/> Data	_____	
3	<input checked="" type="checkbox"/> Data	_____	
Weather Station: <input type="checkbox"/> YES			
Background Readings:			
PID 1:	0.0	Data Ram 1:	19.87
PID 2:	0.0	Data Ram 2:	39.0
PID 3:	0.0	Data Ram 3:	54.87

Note: "NA" indicates when an item or section is "Not Applicable".



GZA DAILY FIELD SUMMARY 003

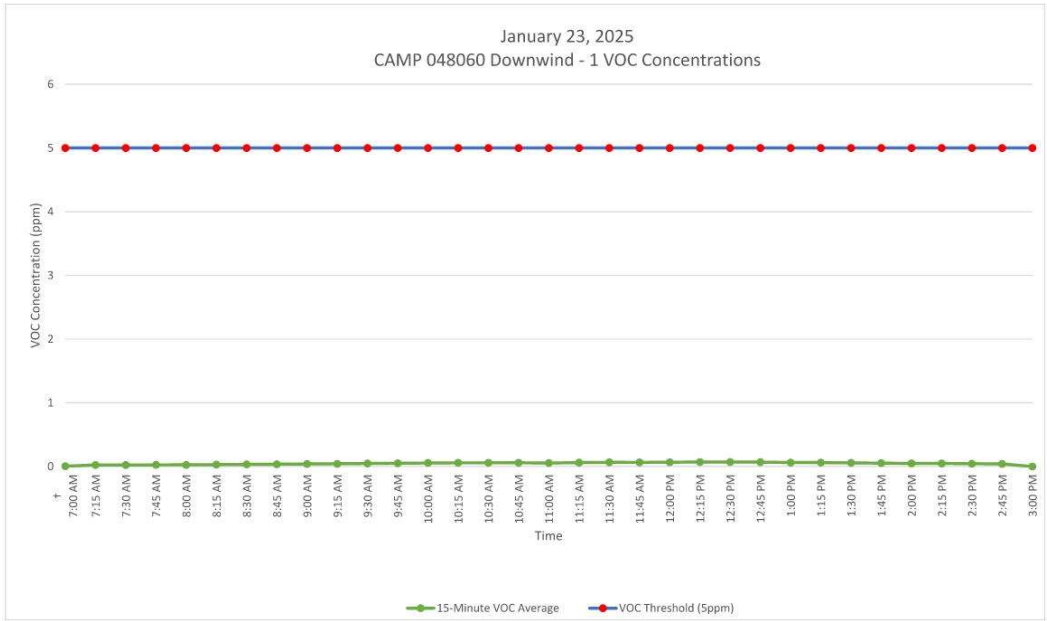
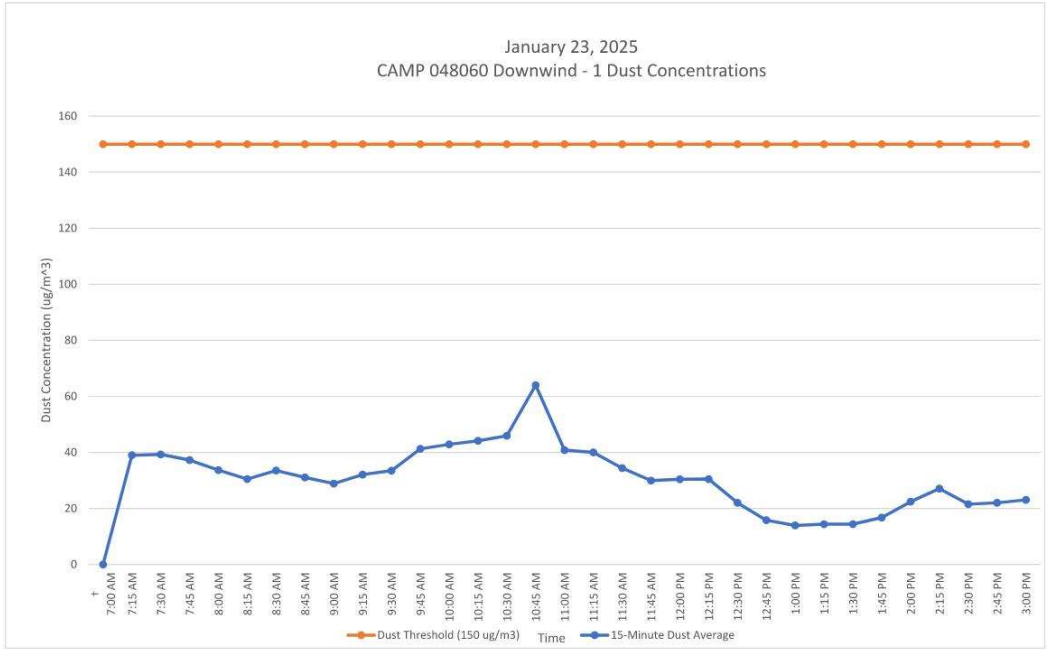
DATE: 01/23/2025
FILE NO: 41.0163385.00





GZA DAILY FIELD SUMMARY 003

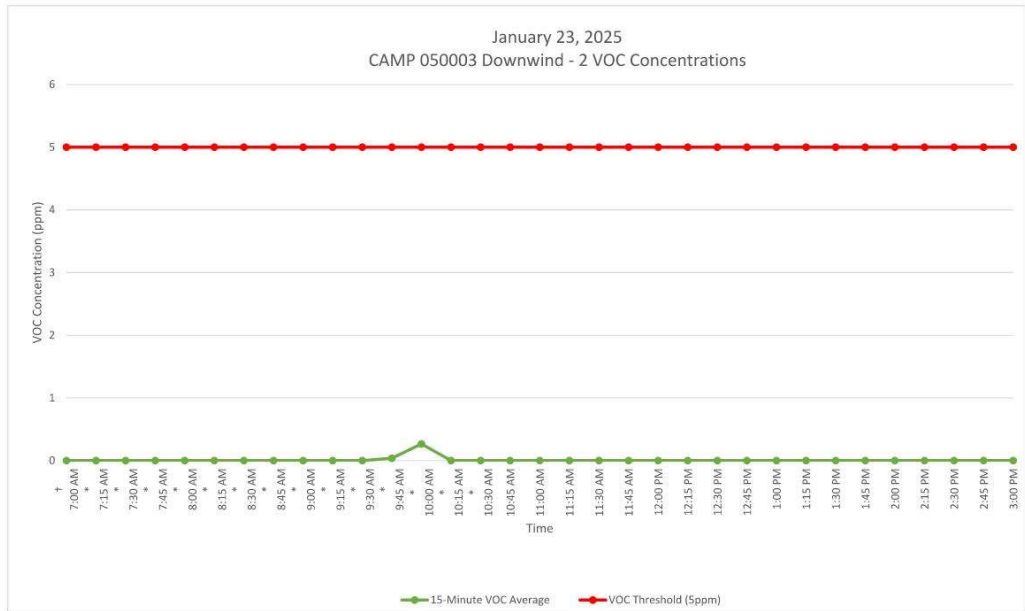
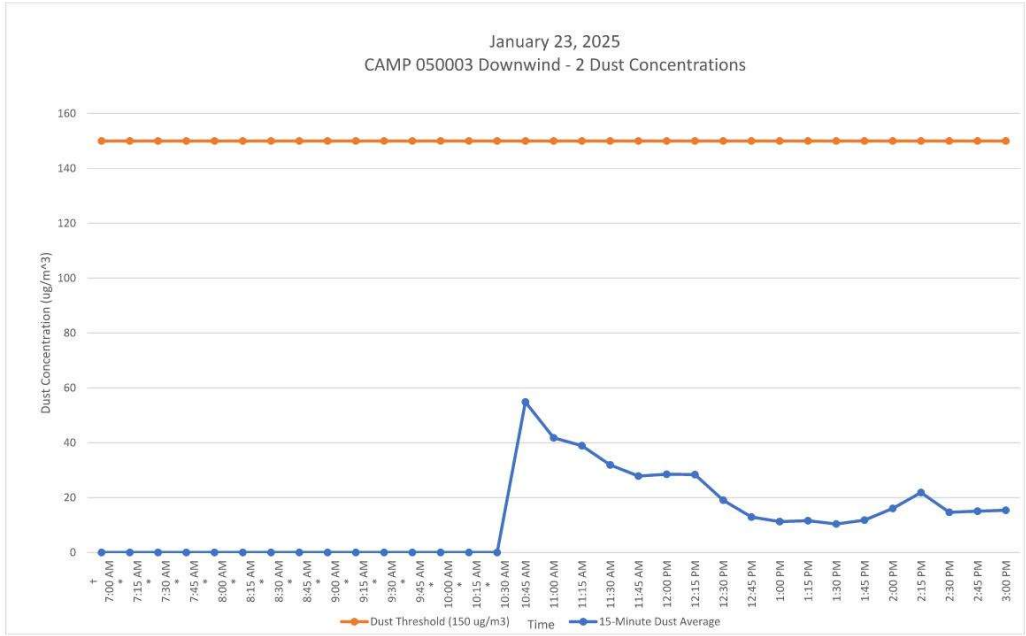
DATE: 01/23/2025
FILE NO: 41.0163385.00





GZA DAILY FIELD SUMMARY 003

DATE: 01/23/2025
 FILE NO: 41.0163385.00



NOTES

- †: Not a 15-minute time weighted average.
- *: No data recorded due to CAMP station being out of service.



GZA DAILY FIELD SUMMARY 004

DATE: 01/24/2025
FILE NO: 41.0163385.00

WORK PERFORMED AND DOCUMENTED

Friday – 1/24/2025

Work Location (Attachment A):

1. AARCO installed one DNAPL recovery well (RW-06) to a terminal depth of 29 feet below ground surface (ft bgs). The recovery well locations are shown on **Attachment A**.
2. AARCO installed two monitoring points (MP-02 and MP-03) and one vapor extraction point (VE-02) to 6 ft bgs. Monitoring point and vapor extraction point locations are shown on **Attachment A**.
3. GZA observed drilling of the recovery well and SVE points, logged the well construction, and monitored the air with a handheld PID during drilling.
4. GZA gauged the newly installed recovery well (RW-06).

Photos of the Site activities are provided in **Attachment B**.

EQUIPMENT AND MATERIALS USED ON SITE

- Handheld Rae Systems MiniRae 3000 PID
- Pine Environmental CAMP Stations with remote telemetry system (048060 – Downwind 1, 050003 – Downwind 2, 217214– Upwind)
- Geoprobe 8150LS

VOC DELINEATION SOIL SAMPLES COLLECTED (SINCE LAST REPORT)

- None collected

GROUNDWATER, SOIL VAPOR, AND AMBIENT AIR SAMPLES COLLECTED (SINCE LAST REPORT)

- No samples collected during this monitoring period.

AIR MONITORING RESULTS:

Background Prestart Conditions – PID: 0.00 ppm, Particulates: 61.00 ug/m³

High Conditions – PID: 0.08 ppm, Particulates: 59.93 ug/m³

µg/mg³ = micrograms per cubic meter

ppm – parts per million

The battery for CAMP station - Upwind ran low at 11:00 am and was replaced at 12:00 pm. No data was collected for this time interval.

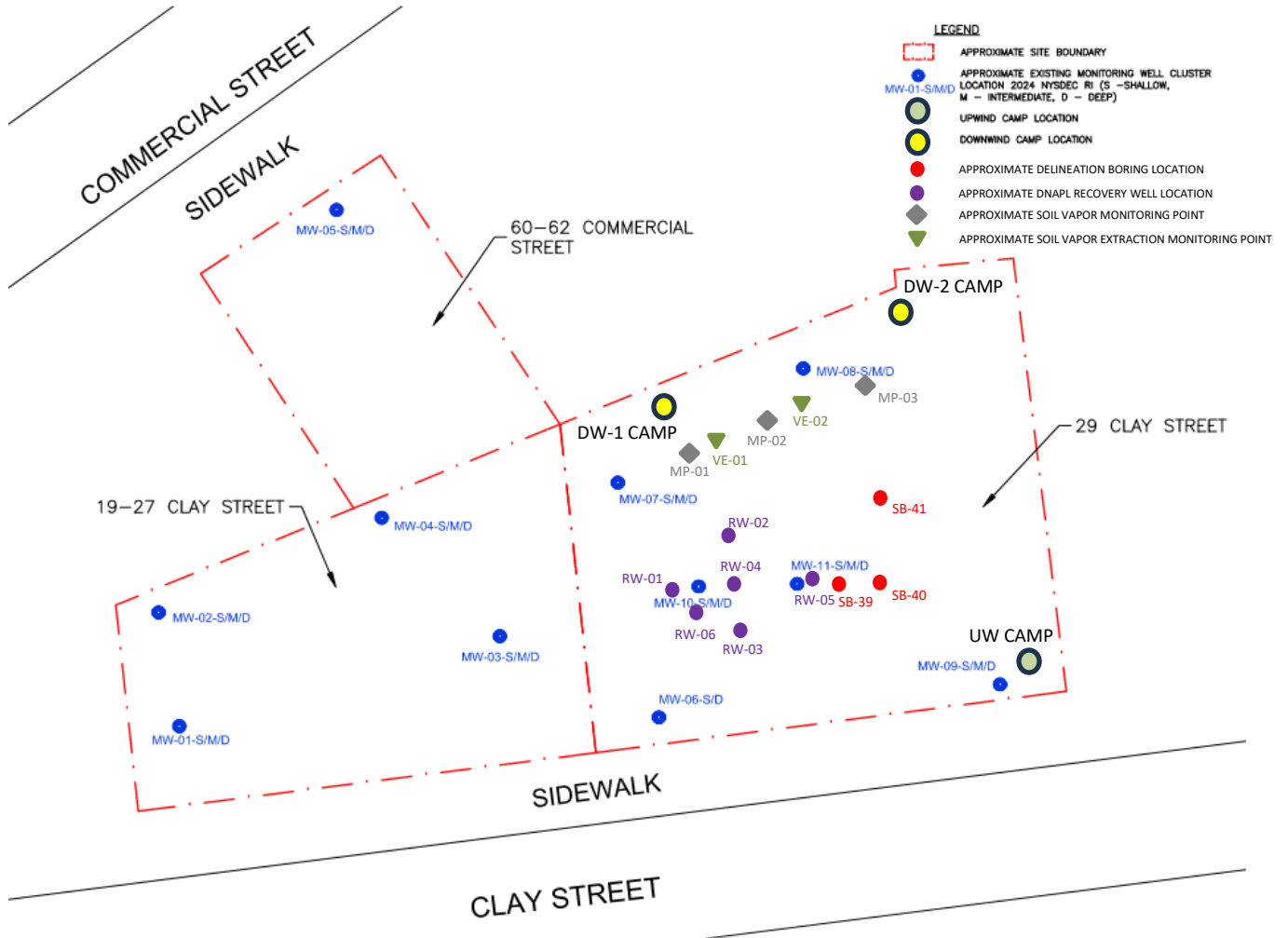
Daily instrumentation calibration log and results are included in **Attachment C**. There were no particulate or VOC exceedances noted during this monitoring period. Results are provided in **Attachment C**.



GZA DAILY FIELD SUMMARY 004

DATE: 01/24/2025
FILE NO: 41.0163385.00

ATTACHMENT A – SITE PLAN





GZA DAILY FIELD SUMMARY 004

DATE: 01/24/2025
 FILE NO: 41.0163385.00

ATTACHMENT B – PHOTO LOG

Photo No. 1	Direction Photo Taken: Northeast	Photo No. 2	Direction Photo Taken Southwest
Description: AARCO drilling MP-03. Also shown completed MP-01, VE-01, MP-2, and VE-02 from west to east. Downwind CAMP station is shown adjacent to the property boundary.		Description: AARCO measuring depth of MP-03 while setting the point.	
Photo No. 3	Direction Photo Taken: Northeast	Photo No. 4	Direction Photo Taken South
Description: AARCO drilling RW-06. Downwind CAMP stations are shown adjacent to the property boundary.		Description: AARCO installing 4-inch well casing for RW-06.	



GZA DAILY FIELD SUMMARY 004

DATE: 01/24/2025
 FILE NO: 41.0163385.00

ATTACHMENT C – AIR MONITORING

Daily Instrument Calibration Log

Date: January 24, 2025		Sampling Technician: Jazlyn Natalie	
Project #: 41.0163385.00		Project Name: Clay Properties LLC - IRM	
Instruments Used:		Inspection Notes:	
Station 1	PID 1 SN: 592-920850	_____	
	Data Ram 1 SN: 8530110310	_____	
Station 2	PID 2 SN: 592-927198	_____	
	Data Ram 2 SN: 853018805	_____	
Station 3	PID 3 SN: 592-906687	_____	
	Data Ram 3 SN: 8530141213	_____	
Hand Held	PID Model 580 SN: 592-927659	_____	
Pre-Calibration/Standardization:		Repair Needed:	
PIDs: Zero		Gas - 100 ppm	
1	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	1	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO
2	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	2	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO
3	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	3	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO
Hand Held	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	Hand Held	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO
Data Zero			
Rams: 1	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO		
2	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO		
3	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO		
Hand Held	<input type="checkbox"/> YES <input type="checkbox"/> NO		
Post-Shift Download:			
PIDs:	Instrument:	<input checked="" type="checkbox"/> Avg <input checked="" type="checkbox"/> Summary	Results/Comments:
1	<input checked="" type="checkbox"/> Data	<input checked="" type="checkbox"/> Avg <input checked="" type="checkbox"/> Summary	_____
2	<input checked="" type="checkbox"/> Data	<input checked="" type="checkbox"/> Avg <input checked="" type="checkbox"/> Summary	_____
3	<input type="checkbox"/> Data	<input type="checkbox"/> Avg <input type="checkbox"/> Summary	_____
Data Rams:			
1	<input checked="" type="checkbox"/> Data	_____	
2	<input checked="" type="checkbox"/> Data	_____	
3	<input checked="" type="checkbox"/> Data	_____	
Weather Station: <input type="checkbox"/> YES			
Background Readings:			
PID 1:	0.0	Data Ram 1:	58.20
PID 2:	0.0	Data Ram 2:	60.86
PID 3:	0.0	Data Ram 3:	61.00

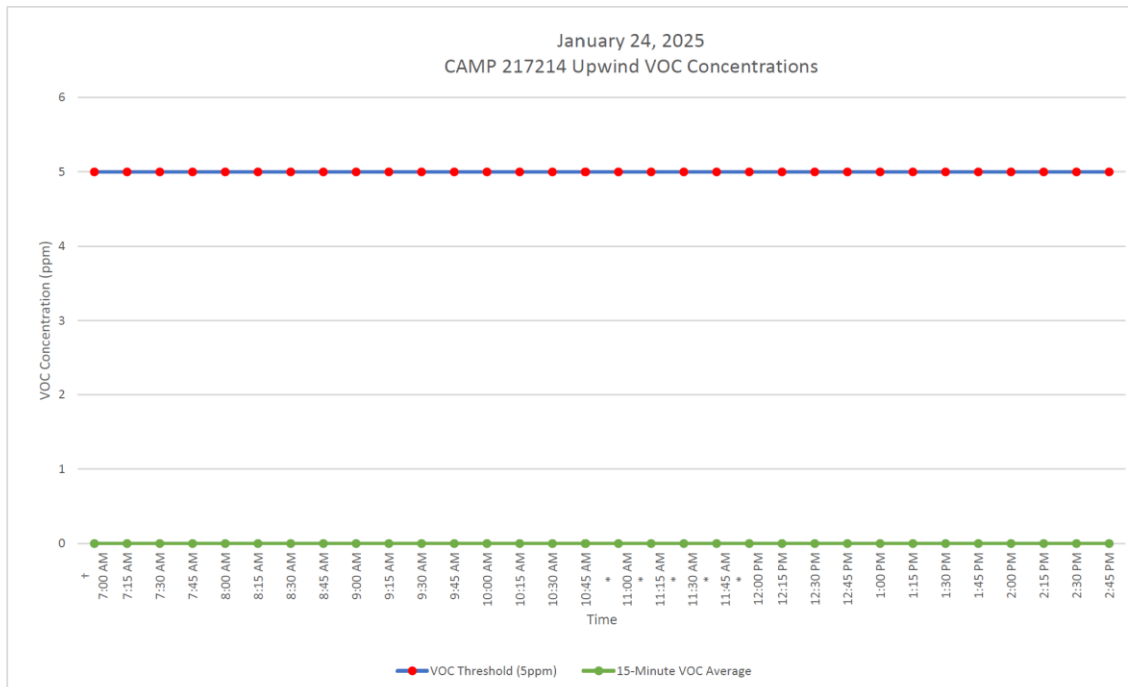
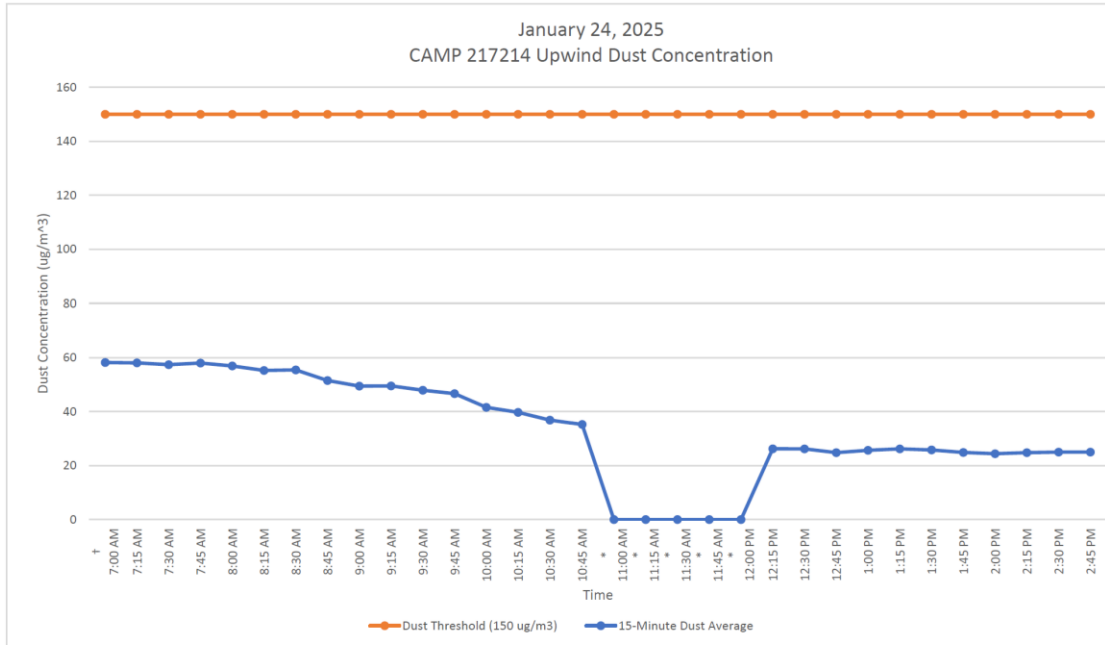
Note: "NA" indicates when an item or section is "Not Applicable".



GZA DAILY FIELD SUMMARY 004

DATE: 01/24/2025

FILE NO: 41.0163385.00

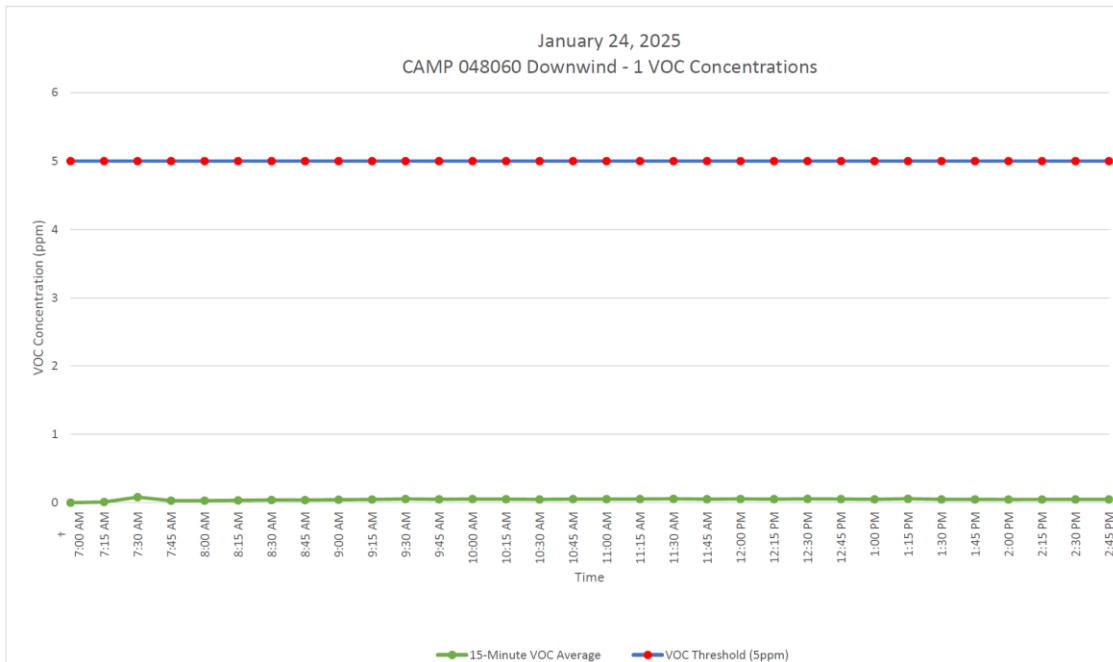
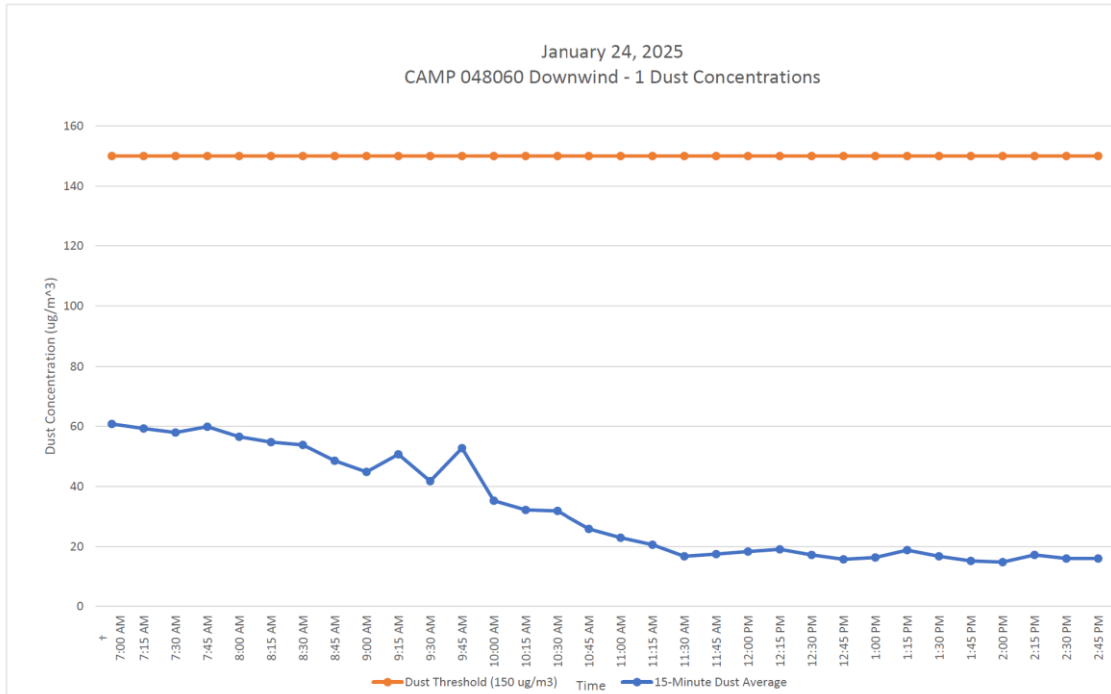




GZA DAILY FIELD SUMMARY 004

DATE: 01/24/2025

FILE NO: 41.0163385.00

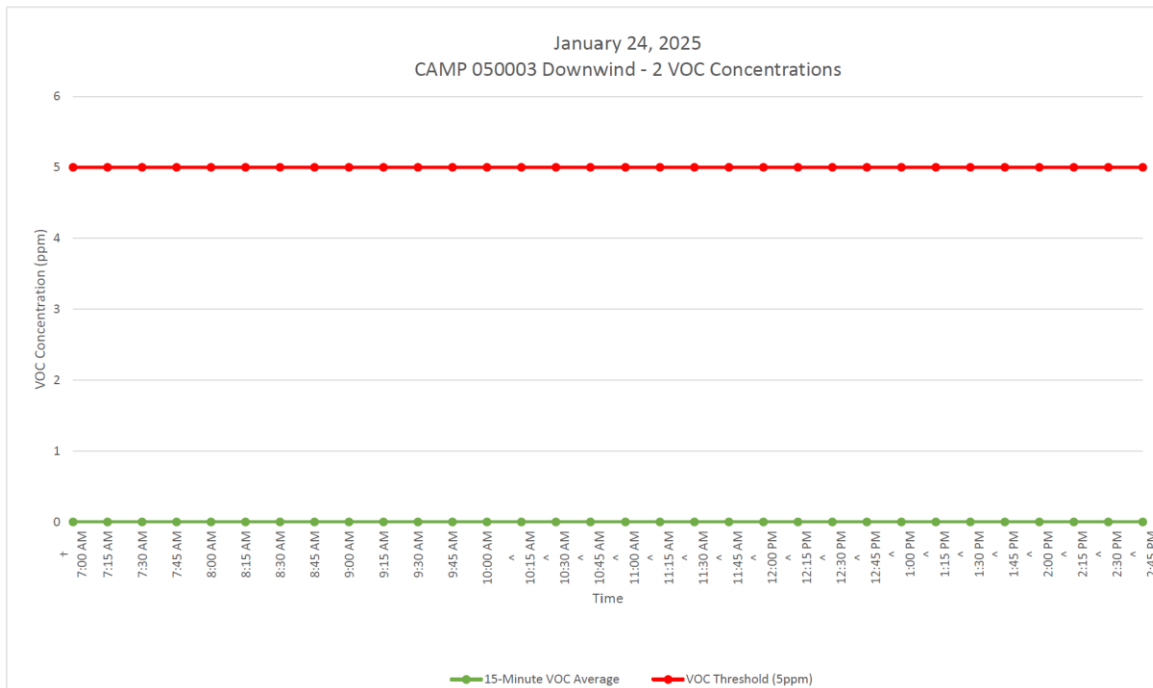
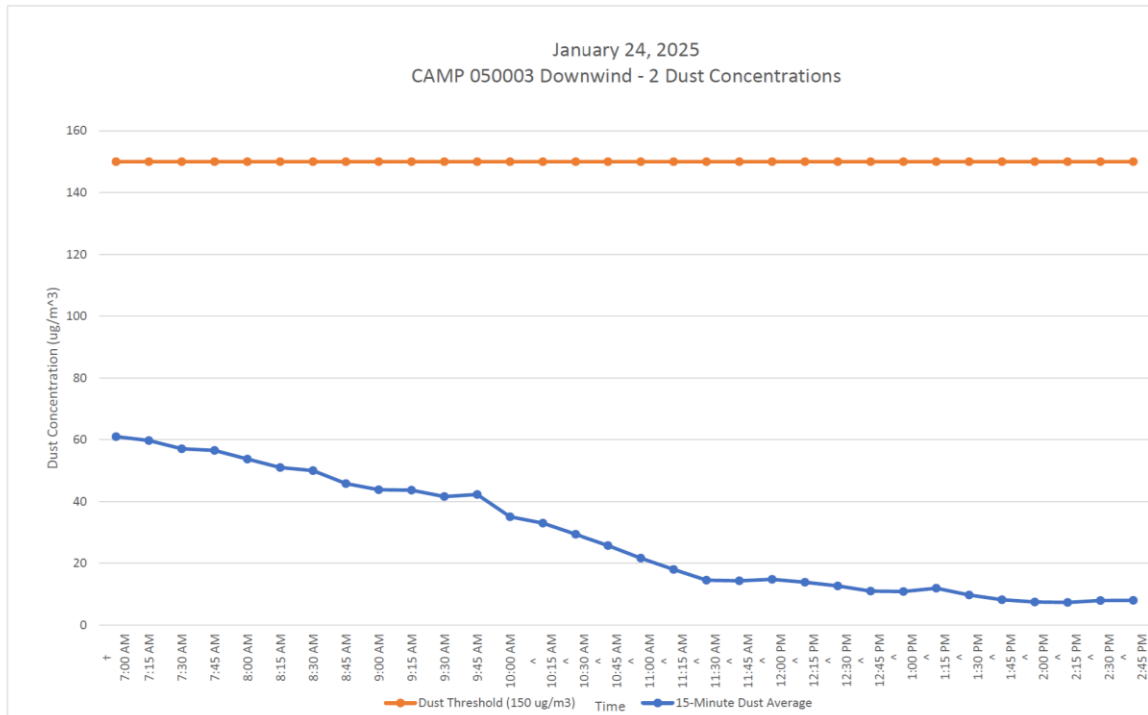




GZA DAILY FIELD SUMMARY 004

DATE: 01/24/2025

FILE NO: 41.0163385.00





GZA DAILY FIELD SUMMARY 006

DATE: 01/28/2025
FILE NO: 41.0163385.00

WORK PERFORMED AND DOCUMENTED

Tuesday – 1/28/2025

Work Location (Attachment A):

1. EnviroTrac performed Soil Vapor Extraction (SVE) pilot test. As part of the test, GZA collected PID readings and Pre-Granular Activated Carbon (GAC) and Post-GAC samples.
2. AARCO advanced 1 soil boring to a maximum depth of 40 feet below ground surface (ft bgs) for groundwater injection: I-1. ISCR injection location is shown on **Attachment A**.
3. Innovative Environmental Technologies (IET) administrated the Phase I injection of Provect-IR® In-situ Chemical Reduction (ISCR) reagents at I-1 (10-13 ft, 15-18 ft, 20-23 ft, 25-28 ft, 30-33 ft, and 35-38 ft).
4. IET core drilled the location of I-2 for injection preparation.

Photos of the Site activities are provided in **Attachment B**.

EQUIPMENT AND MATERIALS USED ON SITE

- Handheld Rae Systems MiniRae 3000 PID
- Pine Environmental CAMP Stations with remote telemetry system (048060 – Downwind 1, 050003 – Downwind 2, 217214– Upwind)
- Geoprobe 7822DT
- ChemGrout Grout Pump
- 55-Gallon Carbon Drum
- Solinst oil-water interface probe
- Generac GP17500E Generator
- Regenerative blower

VOC DELINEATION SOIL SAMPLES COLLECTED (SINCE LAST REPORT)

- None collected

GROUNDWATER, SOIL VAPOR, AND AMBIENT AIR SAMPLES COLLECTED (SINCE LAST REPORT)

- As part of the SVE pilot test, GZA collected influent and effluent air samples (PT-01, PT-02, and PT-03) for VOCs.

AIR MONITORING RESULTS:

Background Prestart Conditions – PID: 0.02 ppm, Particulates: 17.79 ug/m³

High Conditions – PID: 0.10 ppm, Particulates: 23.20 ug/m³

µg/mg³ = micrograms per cubic meter

ppm – parts per million

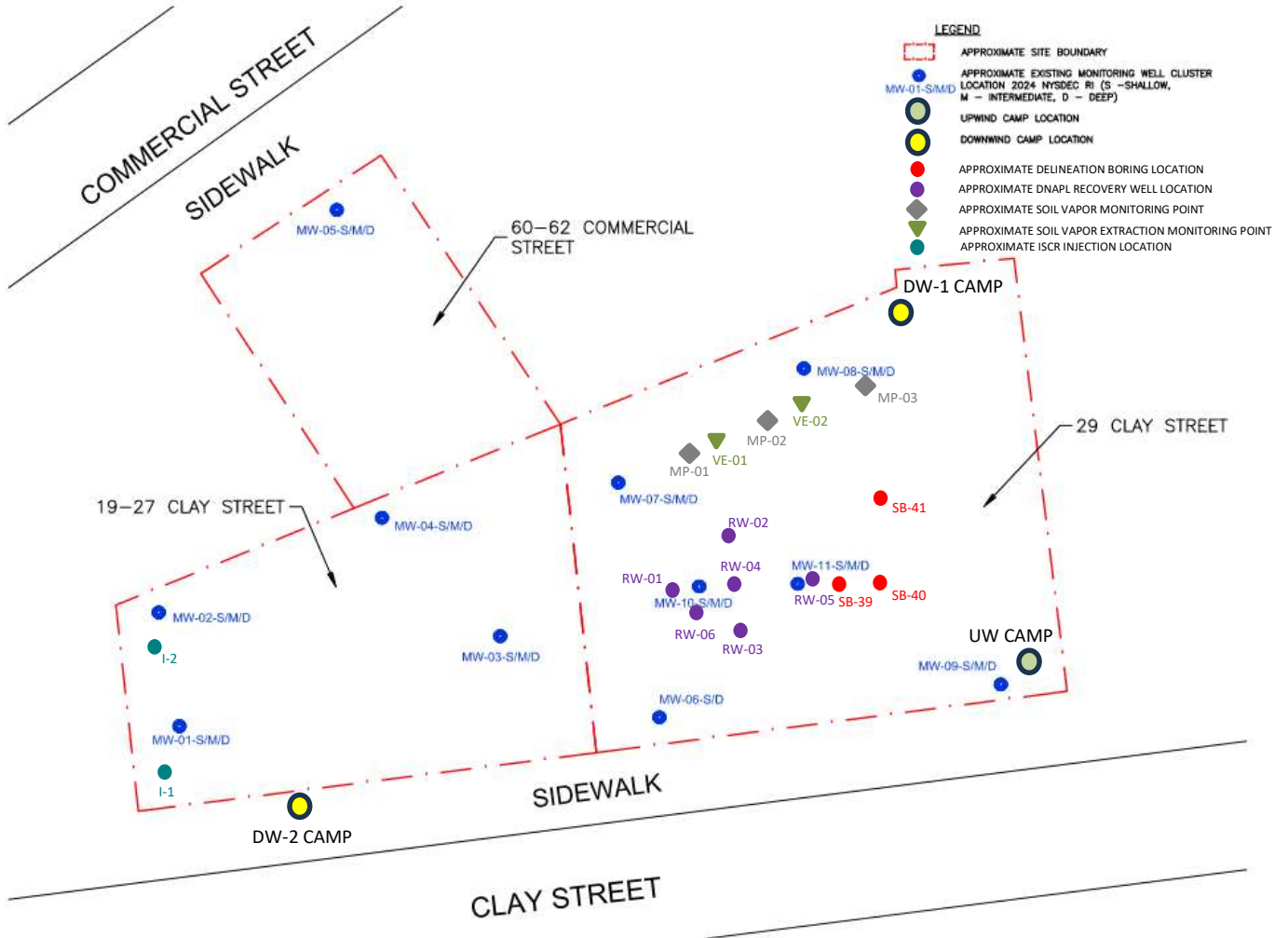
Daily instrumentation calibration log and results are included in **Attachment C**. There were no particulate or VOC exceedances noted during this monitoring period. Results are provided in **Attachment C**.



GZA DAILY FIELD SUMMARY 006

DATE: 01/28/2025
FILE NO: 41.0163385.00

ATTACHMENT A – SITE PLAN









GZA DAILY FIELD SUMMARY 006

DATE: 01/28/2025
 FILE NO: 41.0163385.00



ATTACHMENT B – PHOTO LOG

Photo No. 1	Direction Photo Taken: Northeast	Photo No. 2	Direction Photo Taken N/A
		<p>Description: EnviroTrac performing SVE pilot test.</p>	<p>Description: GZA collecting PID reading taken during SVE pilot test.</p>
Photo No. 3	Direction Photo Taken: East	Photo No. 4	Direction Photo Taken Northeast
		<p>Description: Carbon filter used during SVE pilot test.</p>	<p>Description: IET adding Provect-IR® ISCR reagents to water mixture for groundwater injection. Downwind-1 CAMP station is shown adjacent to the property boundary.</p>



GZA DAILY FIELD SUMMARY 006

DATE: 01/28/2025
FILE NO: 41.0163385.00

Photo No. 5	Direction Photo Taken: North	Photo No. 6	Direction Photo Taken Northwest
			
Description: ISCR injection at I-1.		Description: Downwind-2 CAMP station along property line.	



GZA DAILY FIELD SUMMARY 006

DATE: 01/28/2025
 FILE NO: 41.0163385.00

ATTACHMENT C – AIR MONITORING

Daily Instrument Calibration Log

Date: January 28, 2025		Sampling Technician: Jazlyn Natalie	
Project #: 41.0163385.00		Project Name: Clay Properties LLC - IRM	
Instruments Used:			Inspection Notes:
Station 1	PID 1	SN: 592-920850	_____
	Data Ram 1	SN: 8530110310	_____
Station 2	PID 2	SN: 592-927198	_____
	Data Ram 2	SN: 853018805	_____
Station 3	PID 3	SN: 592-906687	_____
	Data Ram 3	SN: 8530141213	_____
Hand Held	PID Model 580	SN: 592-927659	_____
Pre-Calibration/Standardization:			Repair Needed:
PIDs: Zero			Gas - 100 ppm
1	<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO	1 <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO
2	<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO	2 <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO
3	<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO	3 <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO
Hand Held	<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO	Hand Held <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO
Data	Zero		
Rams:	1 <input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO	
	2 <input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO	
	3 <input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO	
Hand Held	<input type="checkbox"/> YES	<input type="checkbox"/> NO	
Post-Shift Download:			
PIDs:	Instrument:		Results/Comments:
1	<input checked="" type="checkbox"/> Data	<input checked="" type="checkbox"/> Avg <input checked="" type="checkbox"/> Summary	_____
2	<input checked="" type="checkbox"/> Data	<input checked="" type="checkbox"/> Avg <input checked="" type="checkbox"/> Summary	_____
3	<input type="checkbox"/> Data	<input type="checkbox"/> Avg <input type="checkbox"/> Summary	_____
Data Rams:			
1	<input checked="" type="checkbox"/> Data		_____
2	<input checked="" type="checkbox"/> Data		_____
3	<input checked="" type="checkbox"/> Data		_____
Weather Station:		<input type="checkbox"/> YES	
Background Readings:			
PID 1:	0.0	Data Ram 1:	16.80
PID 2:	0.02	Data Ram 2:	15.73
PID 3:	0.0	Data Ram 3:	17.79

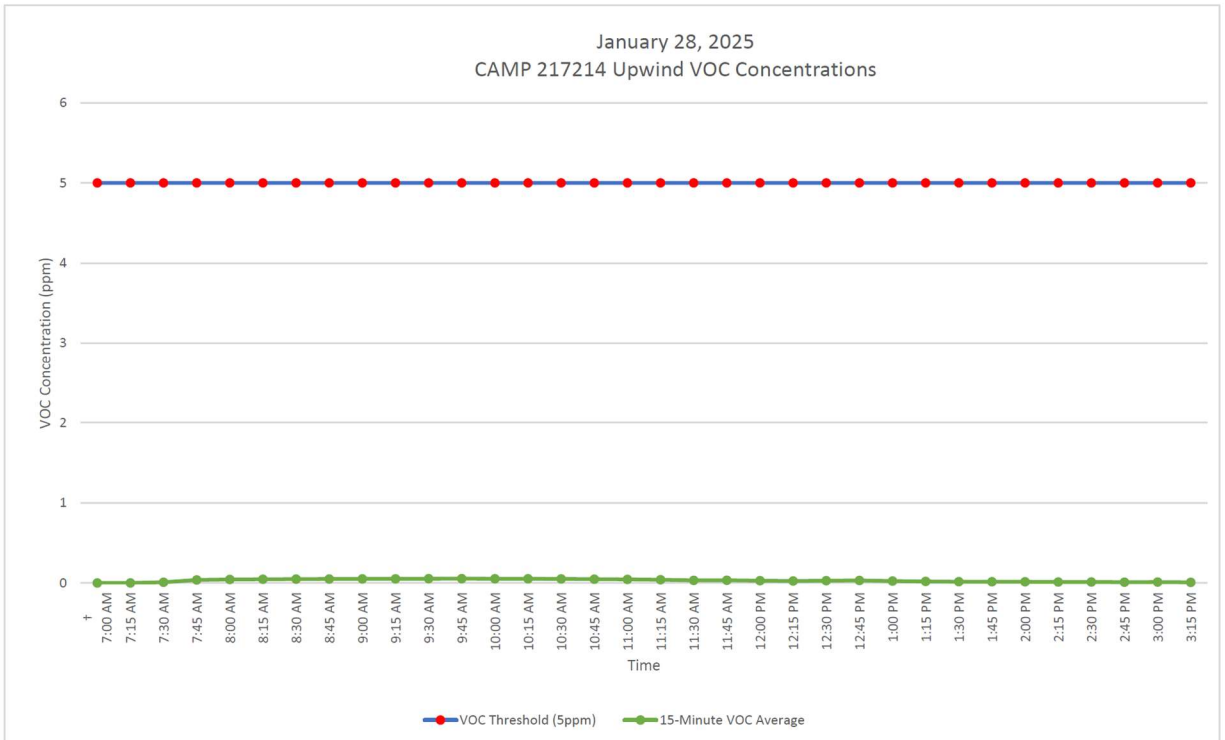
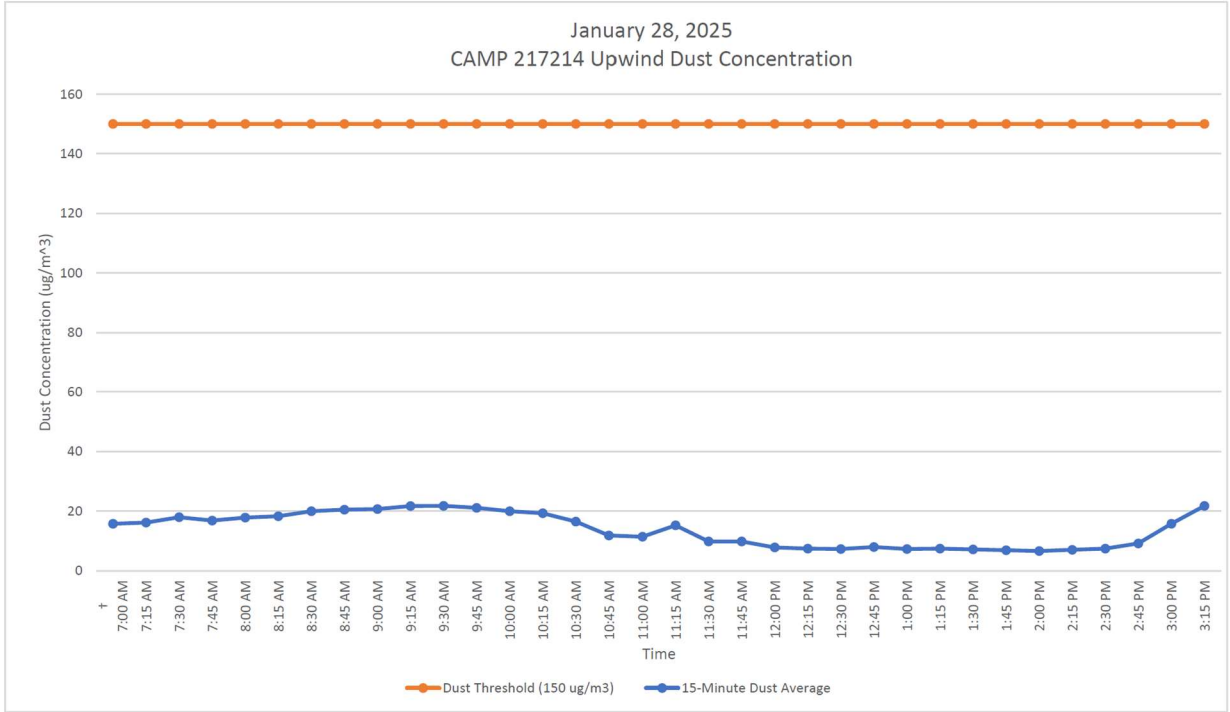
Note: "NA" indicates when an item or section is "Not Applicable".



GZA DAILY FIELD SUMMARY 006

DATE: 01/28/2025

FILE NO: 41.0163385.00



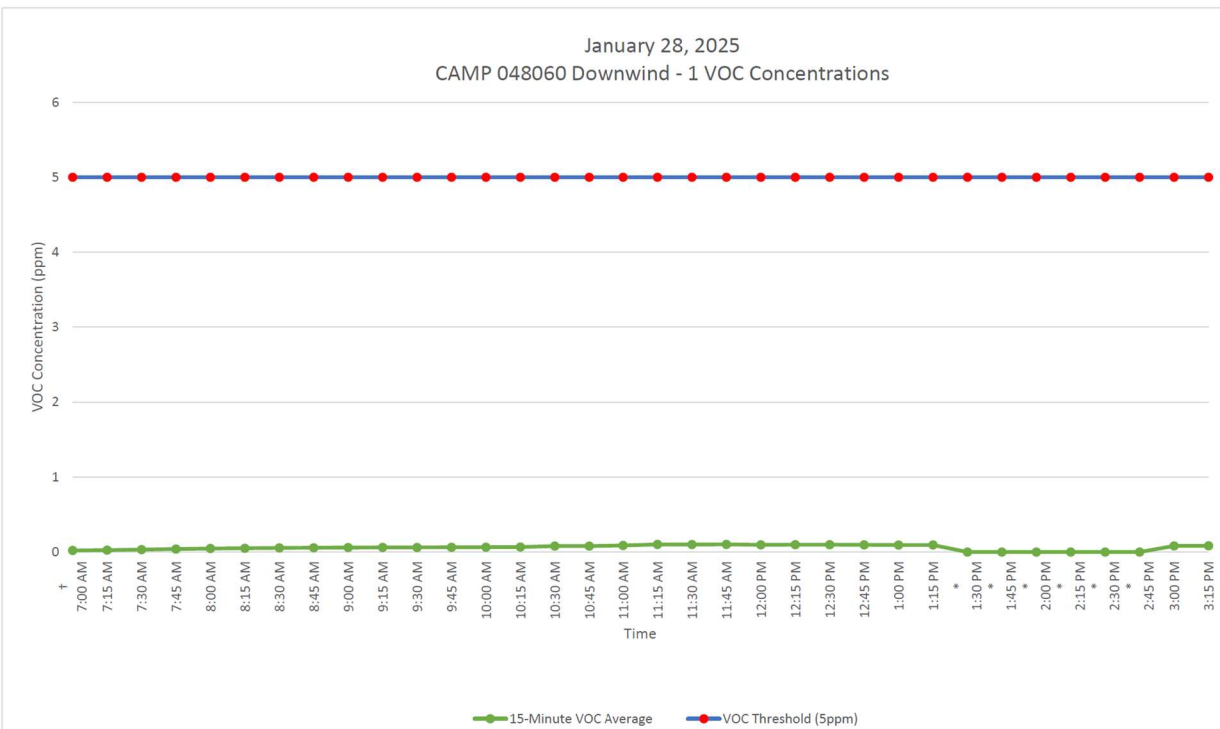
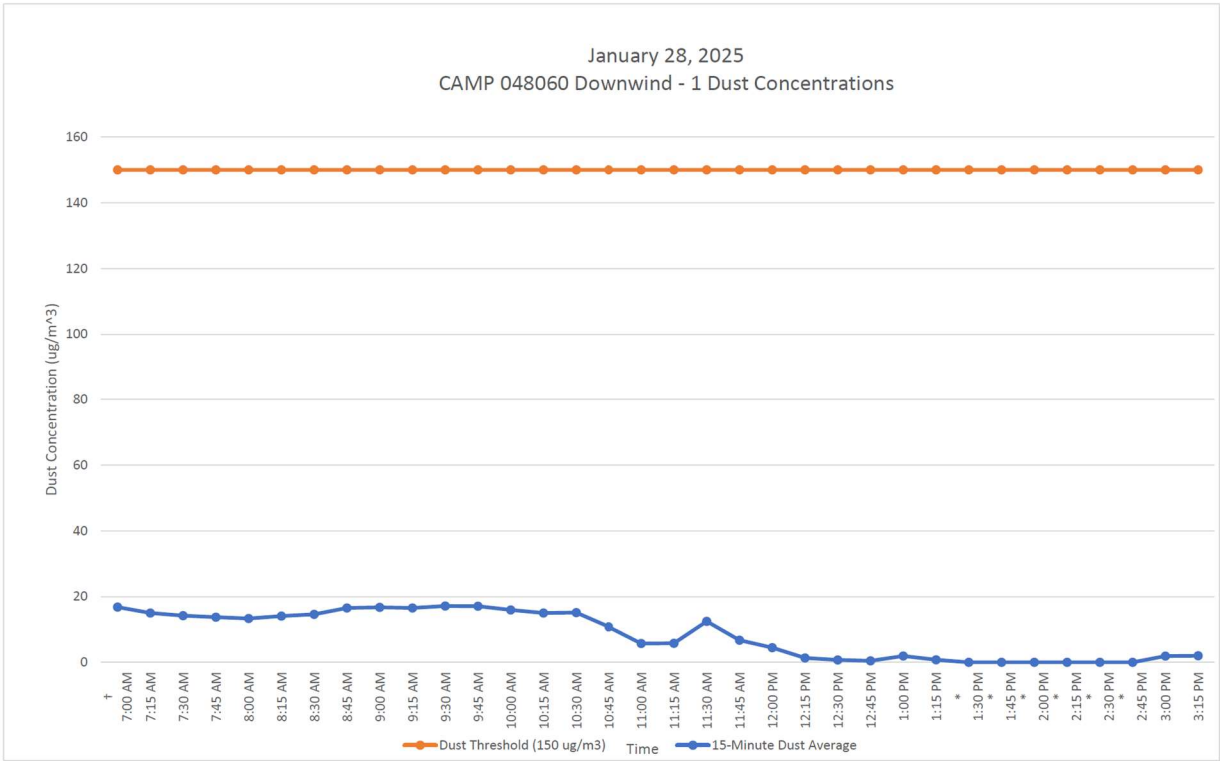
NOTES

†	Not a 15-minute time weighted average.
*	No data recorded due to dead batteries in CAMP station



GZA DAILY FIELD SUMMARY 006

DATE: 01/28/2025
 FILE NO: 41.0163385.00



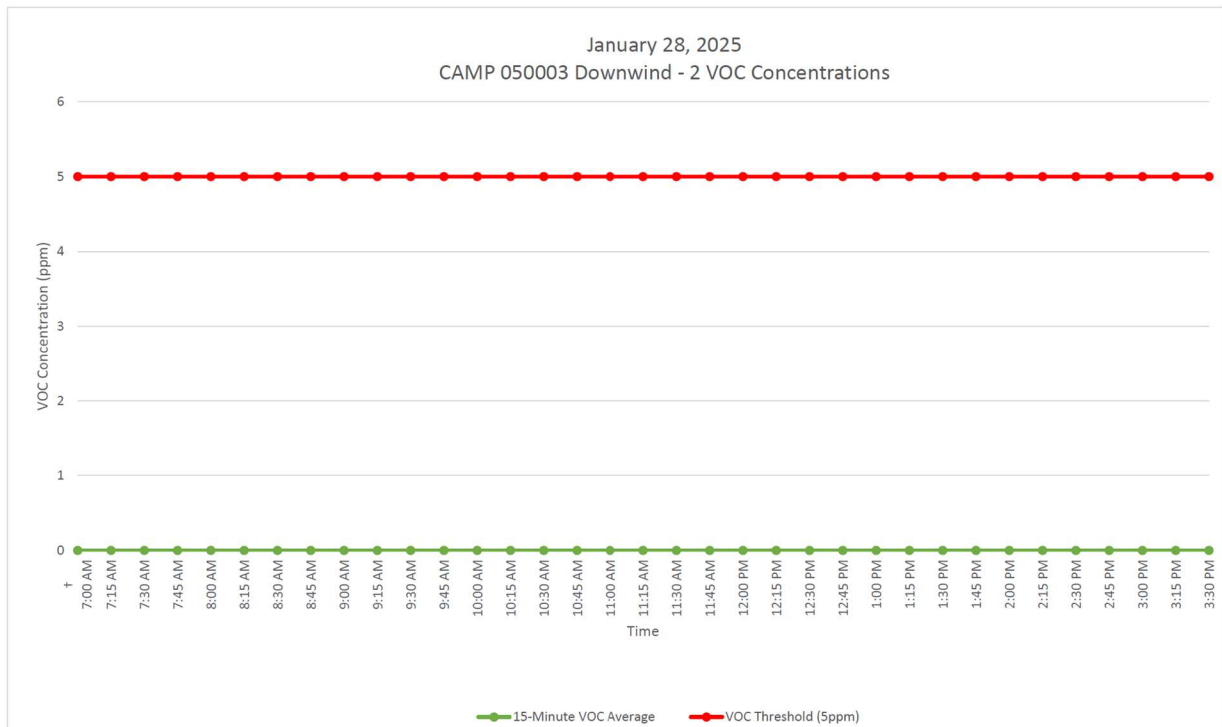
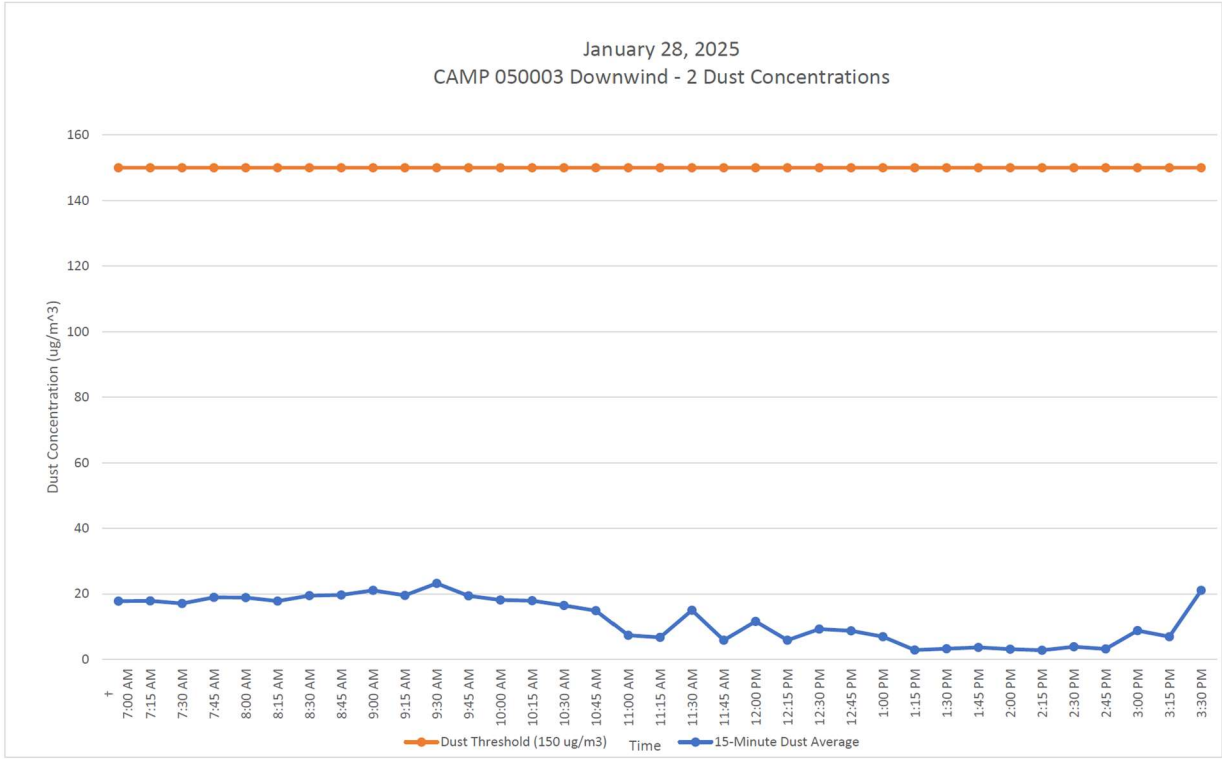
NOTES

- †. Not a 15-minute time weighted average.
- *. No data recorded due to dead batteries in CAMP station



GZA DAILY FIELD SUMMARY 006

DATE: 01/28/2025
 FILE NO: 41.0163385.00



NOTES

- †. Not a 15-minute time weighted average.
- *: No data recorded due to dead batteries in CAMP station



SVE Pilot Test Results and Design Letter Report
BCP No. C224390
19-29 Clay Street, & 60-62 Commercial Street, Brooklyn, NY

ATTACHMENT C

ENVIROTRAC SVE PILOT TEST REPORT



Soil Vapor Extraction (SVE) Pilot Test Report

Site:

19-29 Clay Street
Brooklyn, New York

Prepared for:

GZA
104 West 29th Street, 10th Floor
New York, New York 10001

Prepared by:

EnviroTrac
5 Old Dock Road
Yaphank, NY 11980

July 2025

Soil Vapor Extraction (SVE) Pilot Study Report

19-29 Clay Street, Brooklyn, New York.

PURPOSE

This report is intended to summarize the results of the SVE pilot study that was conducted by EnviroTrac on January 28, 2025. The purpose of the test was to determine the feasibility of implementing a full-scale SVE system to cover an approximate 20-ft wide area along the north and west property lines of the site. The results of this study were used to determine the required operating parameters and layout for the selected system. A site plan is included as **Figure 1**.

TECHNICAL SCOPE OF WORK PERFORMED

1. Pilot Test Equipment

For the purpose of the pilot test, EnviroTrac mobilized its mobile extraction test equipment. The test equipment consisted of a regenerative vacuum blower, a vapor phase granular activated carbon (VGAC) drum, a portable generator, vacuum gauges, flow/velocity ports, sample port, and associated hose/piping. The major test equipment is described below.

Soil Vapor Extraction Equipment:

- Extraction Blower – Ametek Rotron Inc. Model #EN606M5ML, Regenerative Vacuum Blower (3-HP, 115/230V, 1 Phase).
 - Max Flow: 200 SCFM
 - Max Vac: 75 "H₂O
- VGAC Drum – General Carbon 55-Gallon Air General

Additional Test Equipment

- Dwyer Handheld Air Velocity/Flow Meter – Model 471B
- UEI Handheld Digital Manometer – Model EM201SPKIT
- Photoionization detector (PID)

2. Test Wells

Two (2) SVE wells (VE-01 & VE-02) screened from 2-6' below grade were tested. Vacuum monitoring points (MP-1, MP-2, & MP-3), monitoring wells (MW-07S & MW-08S), and the inactive SVE well were used to monitor the subsurface vacuum responses. The location of each test well can be seen in **Figure 1**.

SVE TESTING METHODOLOGY

Each extraction well was tested at varying operational conditions. During each test, the vacuum blower was configured to operate at three different steps of increasing flow and vacuum. During each step, operating parameters such as applied flow, vacuum, and subsurface vacuum responses were recorded. For remedial design purposes the applied vacuum and extraction flow rate for each step were entered as the following:



VE-01

- Step 1 – 1.1 “H₂O Wellhead Vacuum, 12.5 cfm Extraction Flow Rate.
- Step 2 – 2.1 “H₂O Wellhead Vacuum, 22.4 cfm Extraction Flow Rate.
- Step 3 – 5.9 “H₂O Wellhead Vacuum, 31.7 cfm Extraction Flow Rate.
- Step 4 – 16 “H₂O Wellhead Vacuum, 78.7 cfm Extraction Flow Rate.
- Step 5 – 22 “H₂O Wellhead Vacuum, 123 cfm Extraction Flow Rate.
- Step 6 – 28 “H₂O Wellhead Vacuum, 129 cfm Extraction Flow Rate.

VE-02

- Step 1 – 1.0 “H₂O Wellhead Vacuum, 8.0 cfm Extraction Flow Rate.
- Step 2 – 2.9 “H₂O Wellhead Vacuum, 18.5 cfm Extraction Flow Rate.
- Step 3 – 5.0 “H₂O Wellhead Vacuum, 22.3 cfm Extraction Flow Rate.
- Step 4 – 18 “H₂O Wellhead Vacuum, 66.2 cfm Extraction Flow Rate.
- Step 5 – 34 “H₂O Wellhead Vacuum, 106 cfm Extraction Flow Rate.

During each step vacuum influence was recorded from all monitoring points utilizing a handheld digital manometer.

PILOT TESTING RESULTS

The field data collected during the SVE pilot test is included as an attachment to this report. Flow and vacuum readings were recorded during each step of the SVE test, while vacuum influence was measured at each observation point. A copy of the pilot test data analysis, along with the associated data plots, are also included as attachments to this report.

GZA collected air samples for laboratory analysis during the test of VE-01. The lab results showed extraction concentrations of 913.2 µg/m³ for TCE and 32.5 µg/m³ for PCE. The lab results are included in a table attached to this report.

To determine the performance requirements at the proposed SVE extraction wells, the pilot test data was used to generate a semi-logarithmic plot of the sub-slab vacuum response vs. the distance from the extraction well. From this plot the effective Radius of Influence (ROI) of each pilot test step is determined by finding the radial distance where the vacuum response equals 0.10” H₂O vacuum response.

In order to induce vacuum influence coverage over the area of concern an ROI of 20 ft was chosen for each extraction well. To produce an ROI of 20 ft, each test well had the following minimum performance requirements:

- VE-01 wellhead vacuum of 15 “H₂O, extraction flow rate of 76 cfm.
- VE-02 wellhead vacuum of 9 “H₂O, extraction flow rate of 36 cfm.

CONCLUSIONS

Based on the results tabulated, the pilot testing performed demonstrates that a full-scale SVE system can serve as an effective means of remediation for the area of concern. If a target ROI of 20 feet is selected for each proposed extraction point, it was determined that a minimum vacuum of 15 “H₂O and average extraction air flow rate of 56 CFM would need to be applied at each point. **Figure 2** shows the proposed radius of influence coverage.

Recommended Design Parameters (each extraction point):

- Target Radius of Influence (ROI): 20 feet
- Applied Vacuum: 15.0 “H₂O



- Average Extraction Flow Rate: 56 CFM

Recommended Design Parameters (Total System Performance, 8 Wells):

- Target Radius of Influence (ROI): 20 feet (per well)
- Fan Vacuum: 40 "H₂O (inc. SF for system losses)
- Fan Total Flow Rate: 450 CFM
- Proposed Extraction Blower: Atlantic Blower Model #AB1100

SVE SYSTEM SPECIFICATIONS

To provide adequate coverage of the treatment area it is proposed to install a full-scale remediation system consisting of eight (8) 2-inch diameter SVE wells. Each well will be piped to a common manifold using 2-inch diameter SCH 40 PVC pipe below grade and 2" galvanized steel pipe above grade. The manifold header shall be constructed of 4-inch diameter SCH 40 galvanized steel pipe. Each leg of the manifold shall contain a butterfly valve, a vacuum gauge, and an air flow meter. The common header pipe shall be piped to the system equipment room that will house the moisture separator, air filter, extraction blower, carbon vessels, transfer pump, and condensate storage drum. The effluent pipe shall exhaust to the atmosphere at a location that is at least 2-feet above the roofline and 10-ft from any opening to the building occupied spaces.

To monitor the system performance three (3) vacuum monitoring points (VMPs) should be installed in the locations indicated in **Figures 3 & 4**. **Figure 5** is the system process flow diagram. A specification sheet for the proposed extraction blower is attached.

FIGURES

- Figure 1: Site Plan with Pilot Test Well Locations
- Figure 2: Proposed SVE Radius of Influence Map
- Figure 3: Proposed SVE System Layout
- Figure 4: Proposed SVE Process and Instrumentation Diagram

ATTACHMENTS

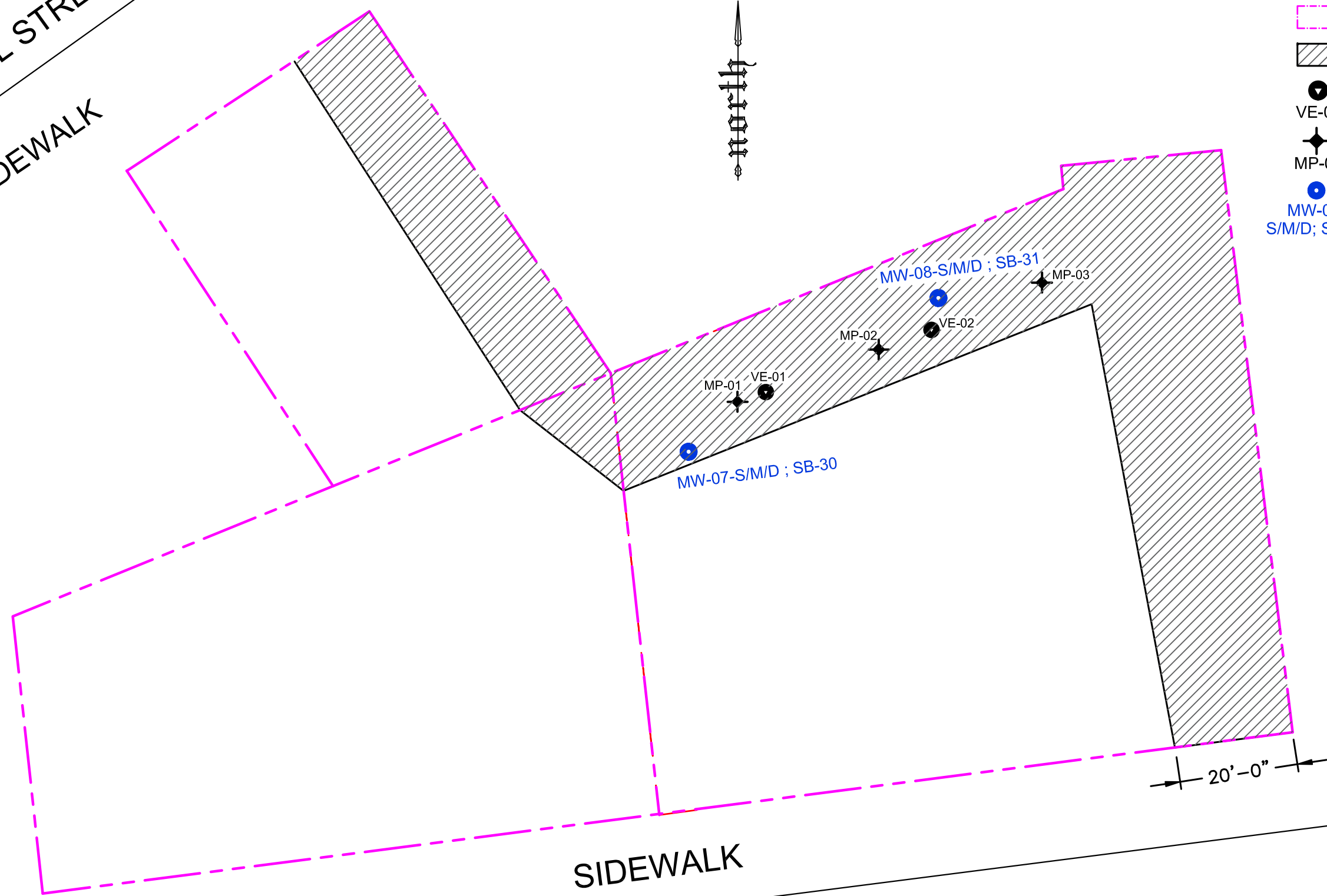
1. SVE Pilot Test Data
2. SVE Pilot Test Data Analysis
3. VE-01: Plot: SVE Vacuum Response vs. Monitoring Well Distance
4. VE-02: Plot: SVE Vacuum Response vs. Monitoring Well Distance
5. Pilot Test Air Sampling Laboratory Data
6. Specification Sheet for Extraction Blower

FIGURES

COMMERCIAL STREET
SIDEWALK



- LEGEND**
- APPROXIMATE SITE BOUNDARY
 - APPROXIMATE PROPOSED SVE TREATMENT AREA
 - SOIL VAPOR EXTRACTION WELL
 - VE-01
 - SOIL VAPOR MONITORING POINT
 - MP-01
 - MONITORING WELL CLUSTER
 - MW-07-S/M/D; SB-30



20'-0"

CLAY STREET

NOTE: BASE MAP TAKEN FROM SITE PLAN FIGURE PROVIDED BY GZA.



0 20
APPROXIMATE SCALE IN FEET

19-27 CLAY ST, 29 CLAY ST,
AND 60-62 COMMERCIAL ST
BROOKLYN, NY

SITE PLAN WITH PILOT TEST WELL LOCATIONS

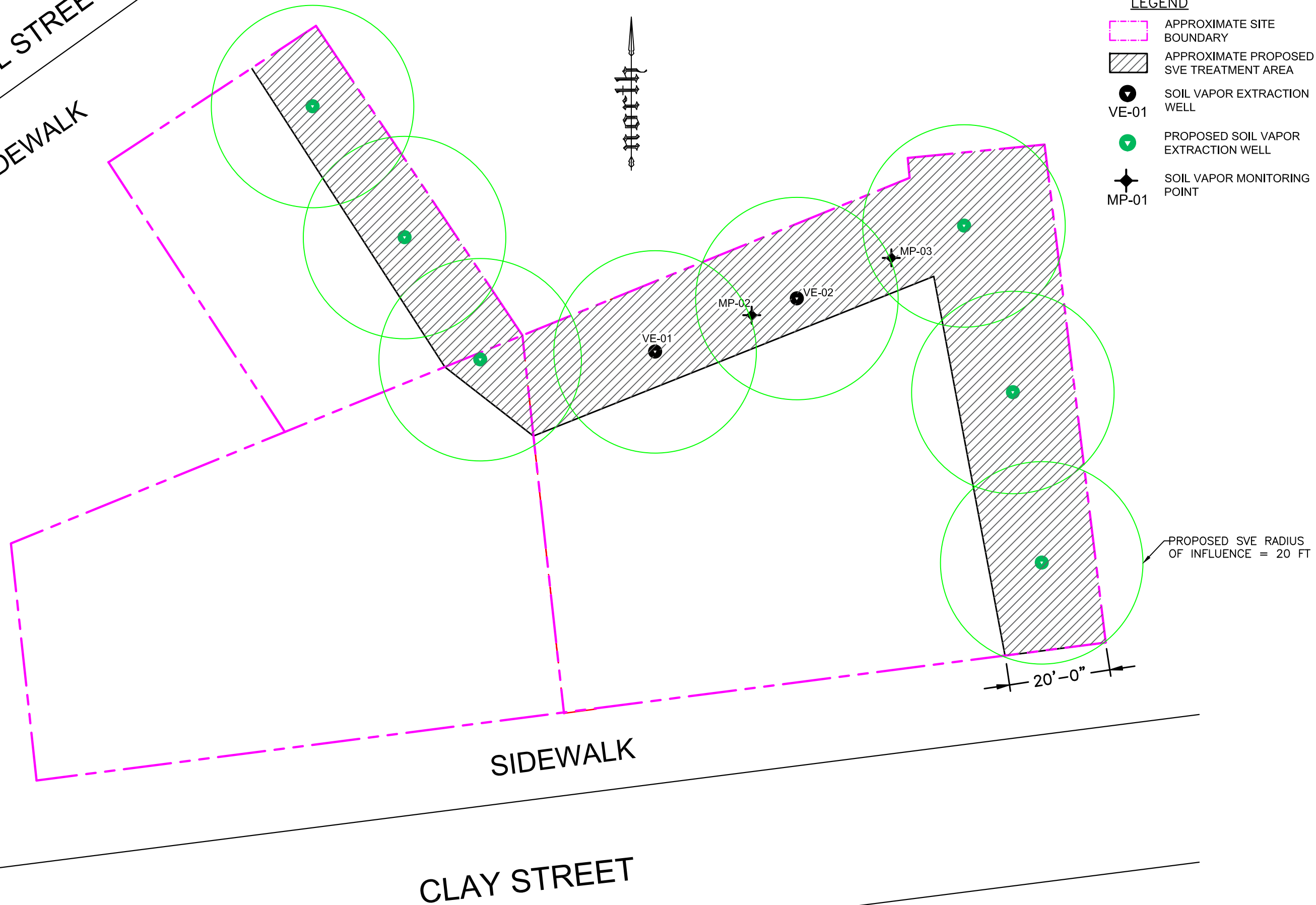
FIGURE #
1

REVISION DATE: 7/7/2025
REVISED BY: JW

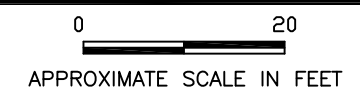
COMMERCIAL STREET
SIDEWALK



- LEGEND**
- APPROXIMATE SITE BOUNDARY
 - APPROXIMATE PROPOSED SVE TREATMENT AREA
 - SOIL VAPOR EXTRACTION WELL
VE-01
 - PROPOSED SOIL VAPOR EXTRACTION WELL
 - SOIL VAPOR MONITORING POINT
MP-01



NOTE: BASE MAP TAKEN FROM SITE PLAN FIGURE PROVIDED BY GZA.



19-27 CLAY ST, 29 CLAY ST,
AND 60-62 COMMERCIAL ST
BROOKLYN, NY







PROPOSED SVE RADIUS OF INFLUENCE MAP

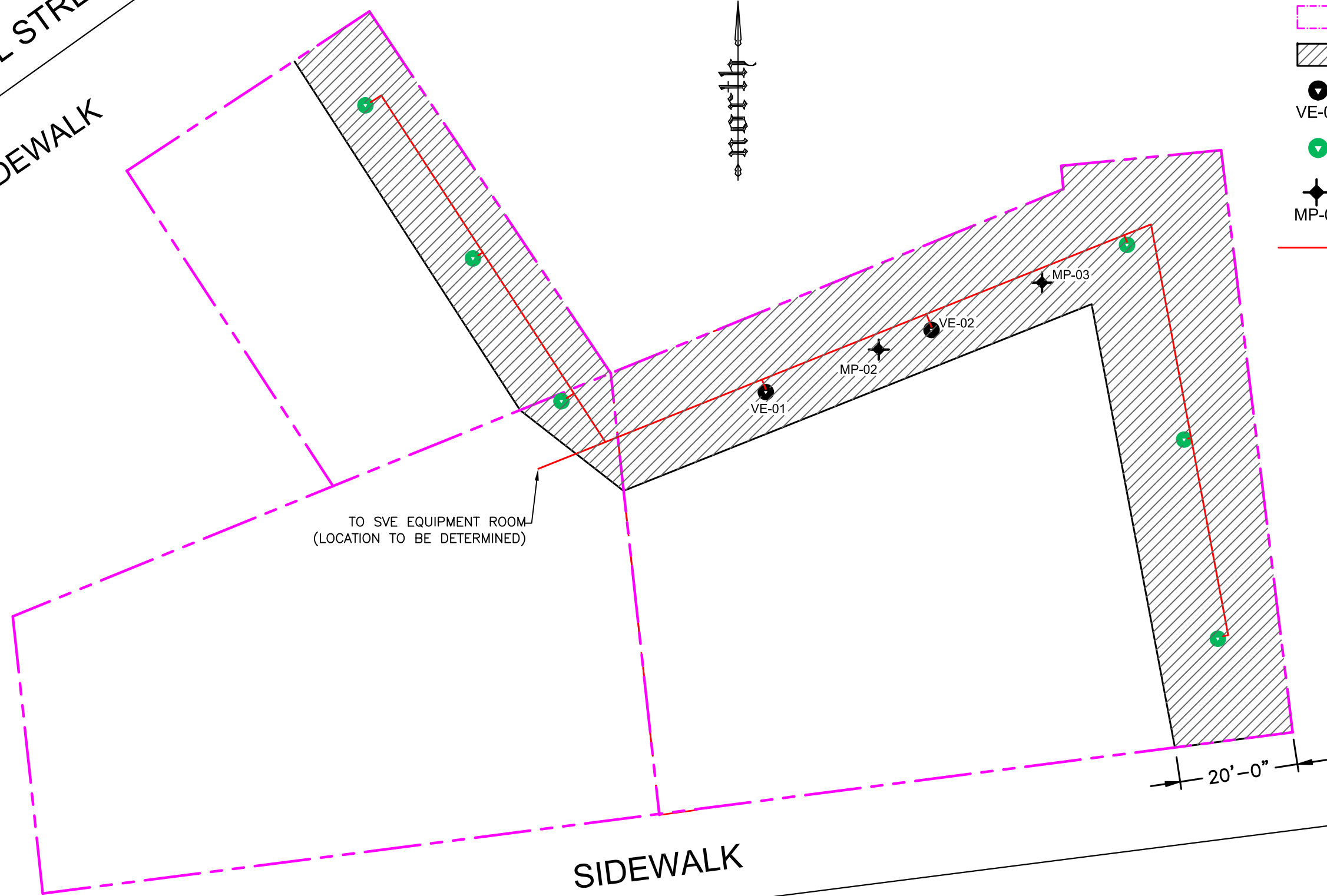
FIGURE #
2

REVISION DATE: 7/7/2025
REVISED BY: JW

COMMERCIAL STREET
SIDEWALK



- LEGEND**
-  APPROXIMATE SITE BOUNDARY
 -  APPROXIMATE PROPOSED SVE TREATMENT AREA
 -  SOIL VAPOR EXTRACTION WELL
VE-01
 -  PROPOSED SOIL VAPOR EXTRACTION WELL
 -  SOIL VAPOR MONITORING POINT
MP-01
 -  SUBSURFACE SVE PIPING



TO SVE EQUIPMENT ROOM
(LOCATION TO BE DETERMINED)

20'-0"

SIDEWALK
CLAY STREET

NOTE: BASE MAP TAKEN FROM SITE PLAN FIGURE PROVIDED BY GZA.



0 20
APPROXIMATE SCALE IN FEET

REVISION DATE: 7/8/2025

REVISED BY: JW

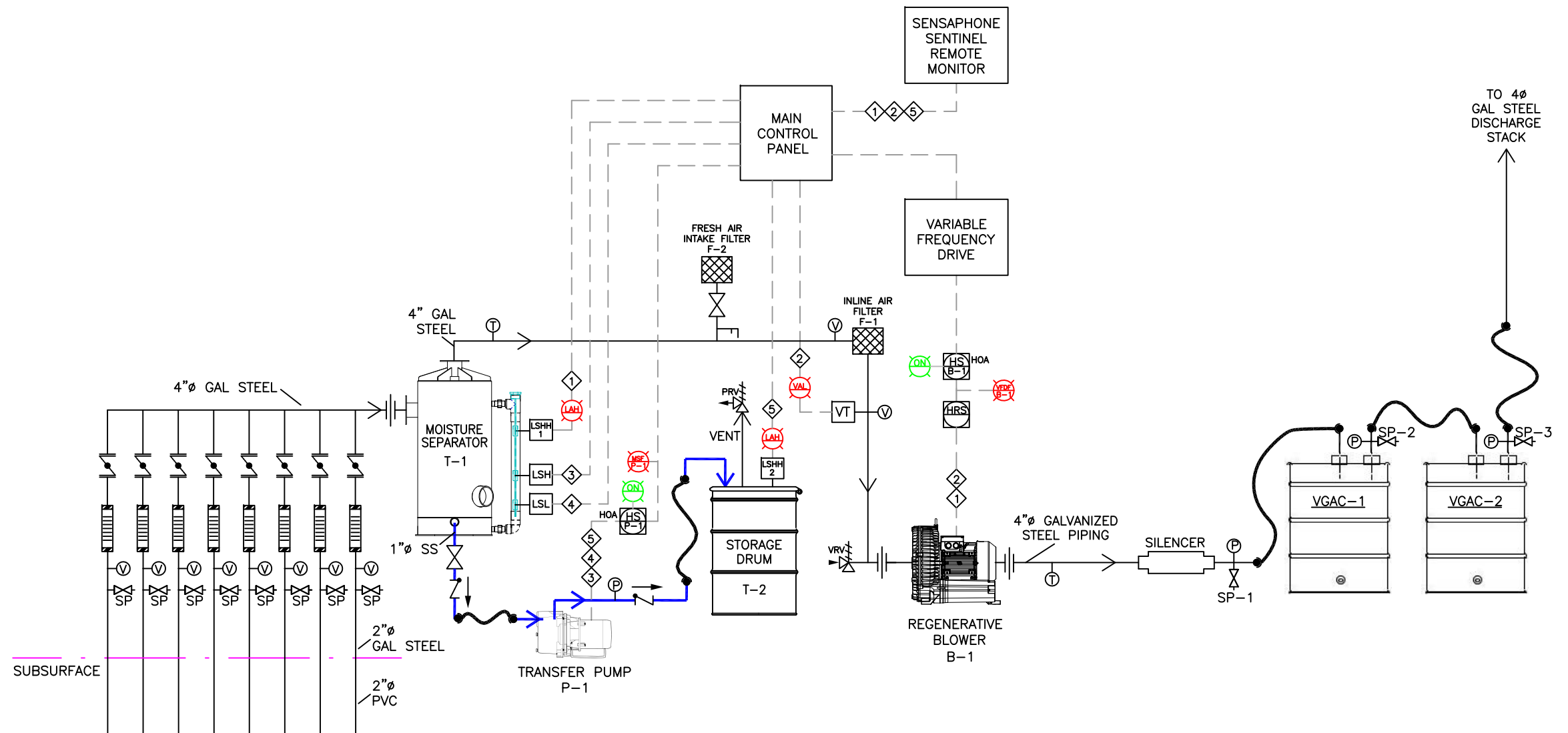
19-27 CLAY ST, 29 CLAY ST,
AND 60-62 COMMERCIAL ST
BROOKLYN, NY

PROPOSED SVE SYSTEM LAYOUT

FIGURE #
3

SYSTEM LEGEND:

- VACUUM GAUGE
- TEMPERATURE GAUGE
- PRESSURE GAUGE
- ROTAMETER FLOWMETER
- LEVEL SWITCH
- VACUUM TRANSMITTER
- BUTTERFLY VALVE
- BALL VALVE
- SAMPLE PORT
- RELIEF VALVE
- CHECK VALVE
- UNION
- FLOW/ANEMOMETER PORT
- HAND SWITCH PANEL MOUNTED
- RUN TIME METER
- CONTROL PANEL INDICATOR LIGHT
- CONTROL PANEL INTERLOCK
- ELECTRIC LINE
- ← AIR FLOW DIRECTION
- ← CONDENSATE WATER FLOW DIRECTION



HMI INDICATOR INDEX:

- LEVEL ALARM HIGH
- VACUUM ALARM
- VARIABLE FREQUENCY DRIVE FAULT
- MOTOR STARTER FAULT
- MOTOR RUN INDICATOR

INTERLOCK SCHEDULE:

- ① HIGH LEVEL IN T-1 - SHUT DOWN B-1, SEND ALARM NOTIFICATION..
- ② LOW OR HIGH BLOWER VACUUM - SHUT DOWN B-1, SEND ALARM NOTIFICATION.
- ③ LEVEL AT LSH - TURN ON P-1.
- ④ LEVEL BELOW LSL - TURN OFF P-1.
- ⑤ HIGH LEVEL IN T-2 - SEND WARNING NOTIFICATION, DISABLE P-1.

NOTES:

BLOWER B-1: ATLANTIC BLOWER MODEL NO: AB-1100 (15 HP, 3 PH, TEFC)
 PUMP P-1: DAYTON MODEL NO: 5RWH7 (0.5 HP, 3 PH, TEFC)

ATTACHMENTS

						Soil Vapor Extraction (SVE) Pilot Test Data					
Site Name: GZA 19-29 Clay Street, Brooklyn, NY						Extraction Well					
Test Date: 1/28/2025						VE-01					
Personnel: MS, NZ											
Weather: Clear, 35 DEG						Observation Well	Observation Well	Observation Well	Observation Well	Observation Well	Observation Well
						MP-01	MW-07S	MP-02	VE-02	MW-08S	MP-03
						Distance (ft)	Distance (ft)	Distance (ft)	Distance (ft)	Distance (ft)	Distance (ft)
						5.7	16	20	30	39	50.3
Time	Well Head Vac	Flow (acfm)	Flow (scfm)	Influent PID (ppm)	Effluent PID (ppm)	Vacuum"H ₂ O	Vacuum"H ₂ O	Vacuum"H ₂ O	Vacuum"H ₂ O	Vacuum"H ₂ O	Vacuum"H ₂ O
8:20	1.1	12.5	12.5	0.2	0.0	0.038	0.000	0.000	0.000	0.000	0.000
8:48	2.1	22.3	22.4	0.2	0.0	0.093	0.000	0.000	0.000	0.000	0.000
9:07	5.9	31.2	31.7	0.3	0.0	0.207	0.020	0.000	0.000	0.000	0.000
9:22	16.0	75.6	78.7	1.1	0.0	0.511	0.170	0.000	0.000	0.000	0.000
9:40	22.0	116.2	122.8	2.0	0.0	0.682	0.253	0.005	0.000	0.000	0.000
10:00	28.0	119.7	128.5	2.4	0.0	0.760	0.268	0.006	0.000	0.000	0.000
Comment / Notes:											

						Soil Vapor Extraction (SVE) Pilot Test Data					
Site Name: GZA 19-29 Clay Street, Brooklyn, NY						Extraction Well					
Test Date: 1/28/2025						VE-02					
Personnel: MS, NZ											
Weather: Clear, 35 DEG						Observation Well	Observation Well	Observation Well	Observation Well	Observation Well	Observation Well
						MP-02	MW-08S	MP-03	VE-01	MP-01	MW-07S
						Distance (ft)	Distance (ft)	Distance (ft)	Distance (ft)	Distance (ft)	Distance (ft)
						10.2	12.0	19.2	30.2	36	46.5
Time	Well Head Vac	Flow (acfm)	Flow (scfm)	Influent PID (ppm)	Effluent PID (ppm)	Vacuum"H ₂ O	Vacuum"H ₂ O	Vacuum"H ₂ O	Vacuum"H ₂ O	Vacuum"H ₂ O	Vacuum"H ₂ O
10:35	1.0	8.0	8.0	0.1	0.0	0.000	0.012	0.000	0.000	0.000	0.000
10:50	2.9	18.4	18.5	0.1	0.0	0.009	0.048	0.000	0.000	0.000	0.000
11:05	5.0	22	22.3	0.1	0.0	0.016	0.069	0.000	0.000	0.000	0.000
11:20	18.0	63.3	66.2	0.1	0.0	0.055	0.123	0.048	0.000	0.000	0.000
11:35	34.0	97.5	106.4	0.1	0.0	0.087	0.069	0.060	0.000	0.000	0.000
Comment / Notes:											

Summary of Soil Vapor Extraction Pilot Test Data
19-29 Clay Street
Brooklyn, NY

Test Date: 1/28/2025
Performed By: EnviroTrac
Extraction Well: VE-01
Test Duration (min.): 40
Wellhead Vacuum ("H2O): 1.1 to 28
Vapor Discharge Flow (scfm): 12.5 to 128.5

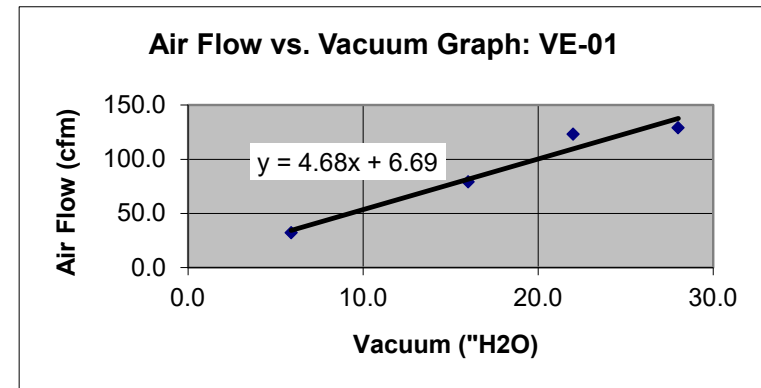
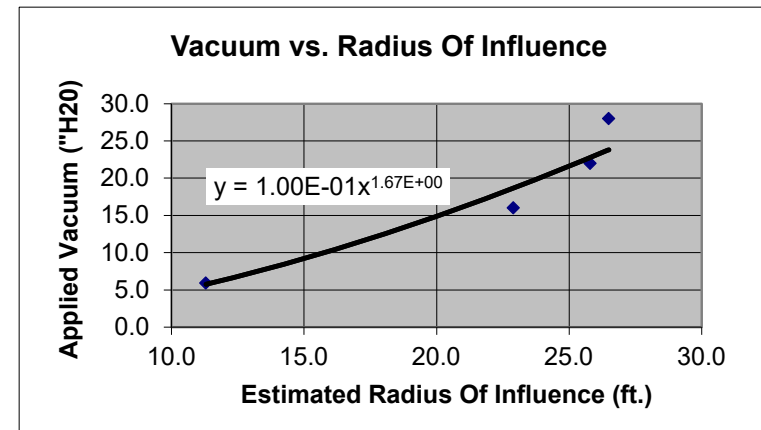
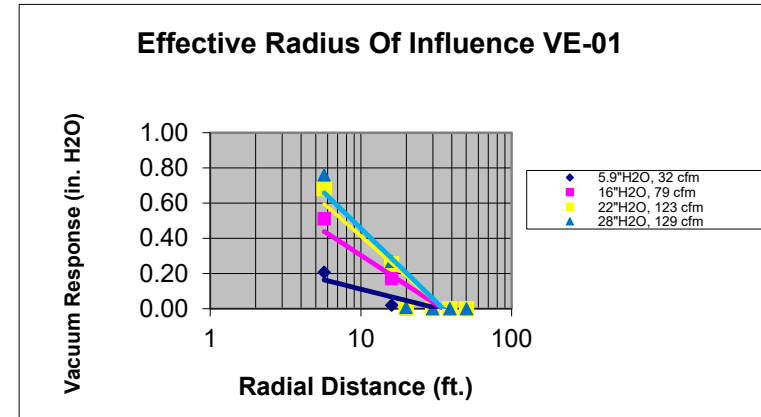
SVE Design Data

Radial Distance (ft.)	Vacuum Response 1 5.9" H2O Applied Vacuum, 32 scfm ("H2O)	Vacuum Response 2 16" H2O Applied Vacuum, 79 scfm ("H2O)	Vacuum Response 3 22" H2O Applied Vacuum, 123 scfm ("H2O)	Vacuum Response 4 28" H2O Applied Vacuum, 129 scfm ("H2O)
5.7	0.207	0.511	0.682	0.760
16	0.020	0.170	0.253	0.268
20	0.000	0.000	0.005	0.006
30	0.000	0.000	0.000	0.000
39	0.000	0.000	0.000	0.000
50.3	0.000	0.000	0.000	0.000

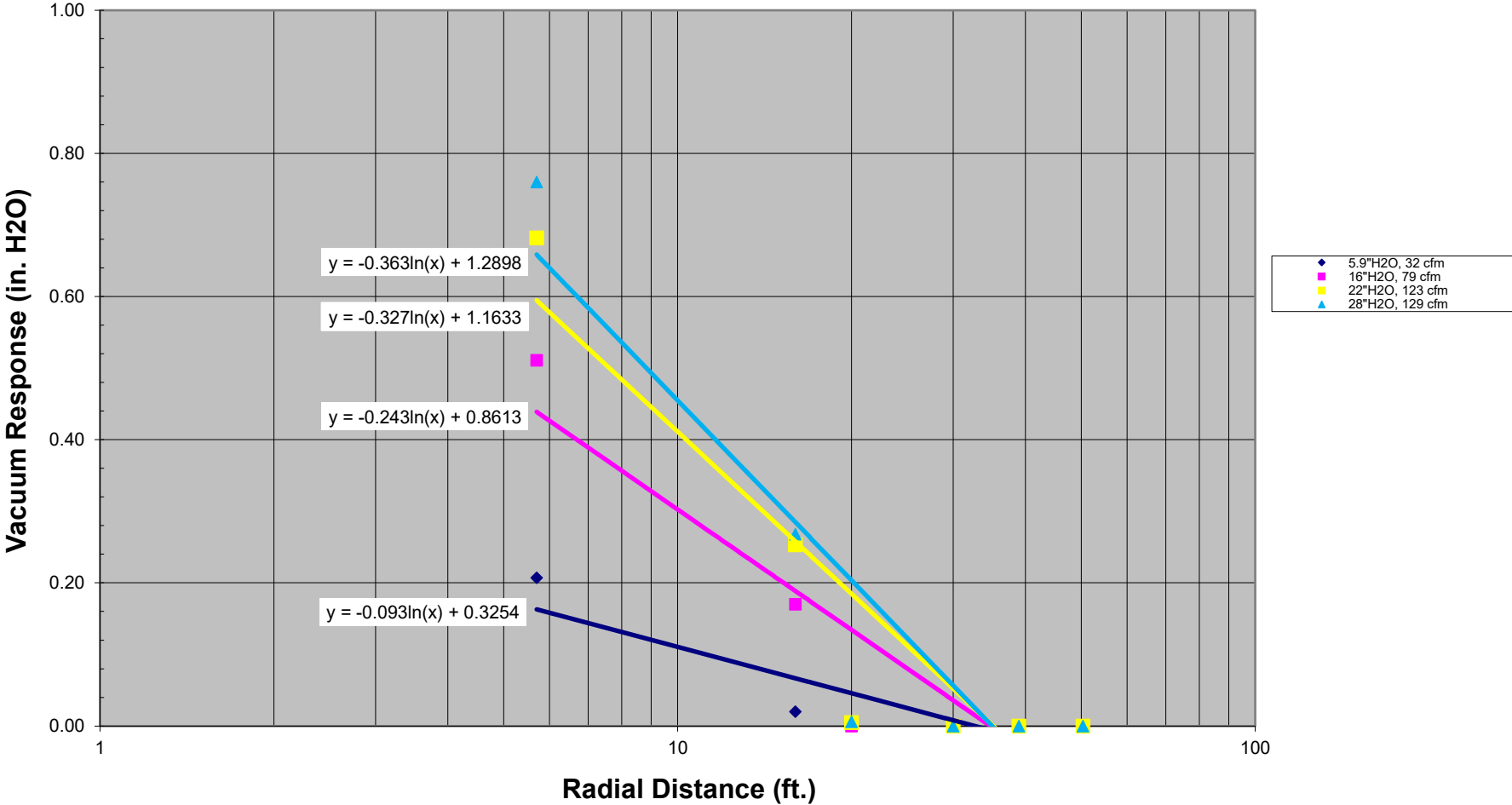
Est. ROI (ft.)	Vacuum ("H2O)	Flow (scfm)
11.3	5.9	32.0
22.9	16	79
25.8	22	123
26.5	28	129

Desired ROI = 20 ft
 @ ROI = 20 ft, Vacuum = 15"H2O
 @ 15"H2O Vacuum, Flow Rate = 76 cfm

Note: SVE ROI is the radial distance where the vacuum response equals 0.10" H2O.



Effective Radius Of Influence VE-01



Summary of Soil Vapor Extraction Pilot Test Data
19-29 Clay Street
Brooklyn, NY

Test Date: 1/28/2025
Performed By: EnviroTrac
Extraction Well: VE-02
Test Duration (min.): 60
Wellhead Vacuum ("H2O): 1.0 to 34
Vapor Discharge Flow (scfm): 8.0 to 106

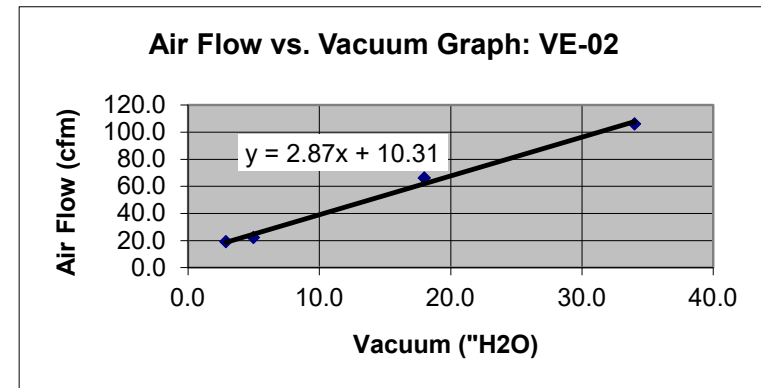
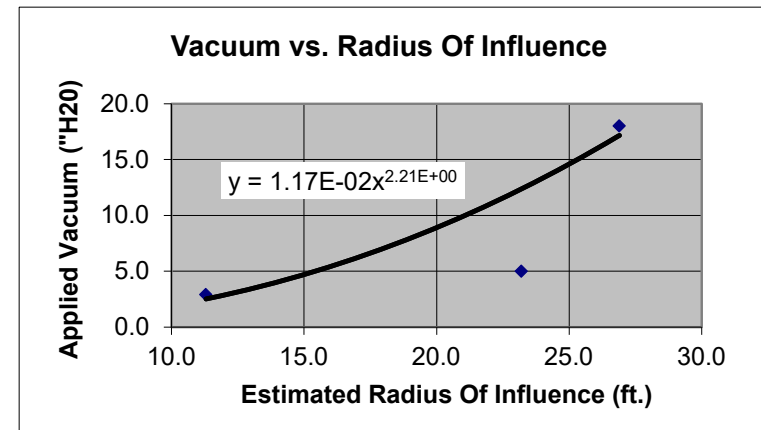
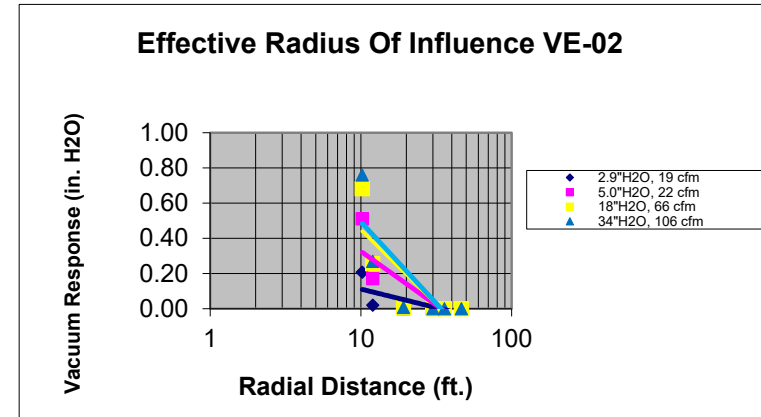
SVE Design Data

Radial Distance (ft.)	Vacuum Response 1 2.9" H2O Applied Vacuum, 19 scfm ("H2O)	Vacuum Response 2 5.0" H2O Applied Vacuum, 22 scfm ("H2O)	Vacuum Response 3 18" H2O Applied Vacuum, 66 scfm ("H2O)	Vacuum Response 4 34" H2O Applied Vacuum, 106 scfm ("H2O)
10.2	0.207	0.511	0.682	0.760
12.0	0.020	0.170	0.253	0.268
19.2	0.000	0.000	0.005	0.006
30.2	0.000	0.000	0.000	0.000
36.0	0.000	0.000	0.000	0.000
46.5	0.000	0.000	0.000	0.000

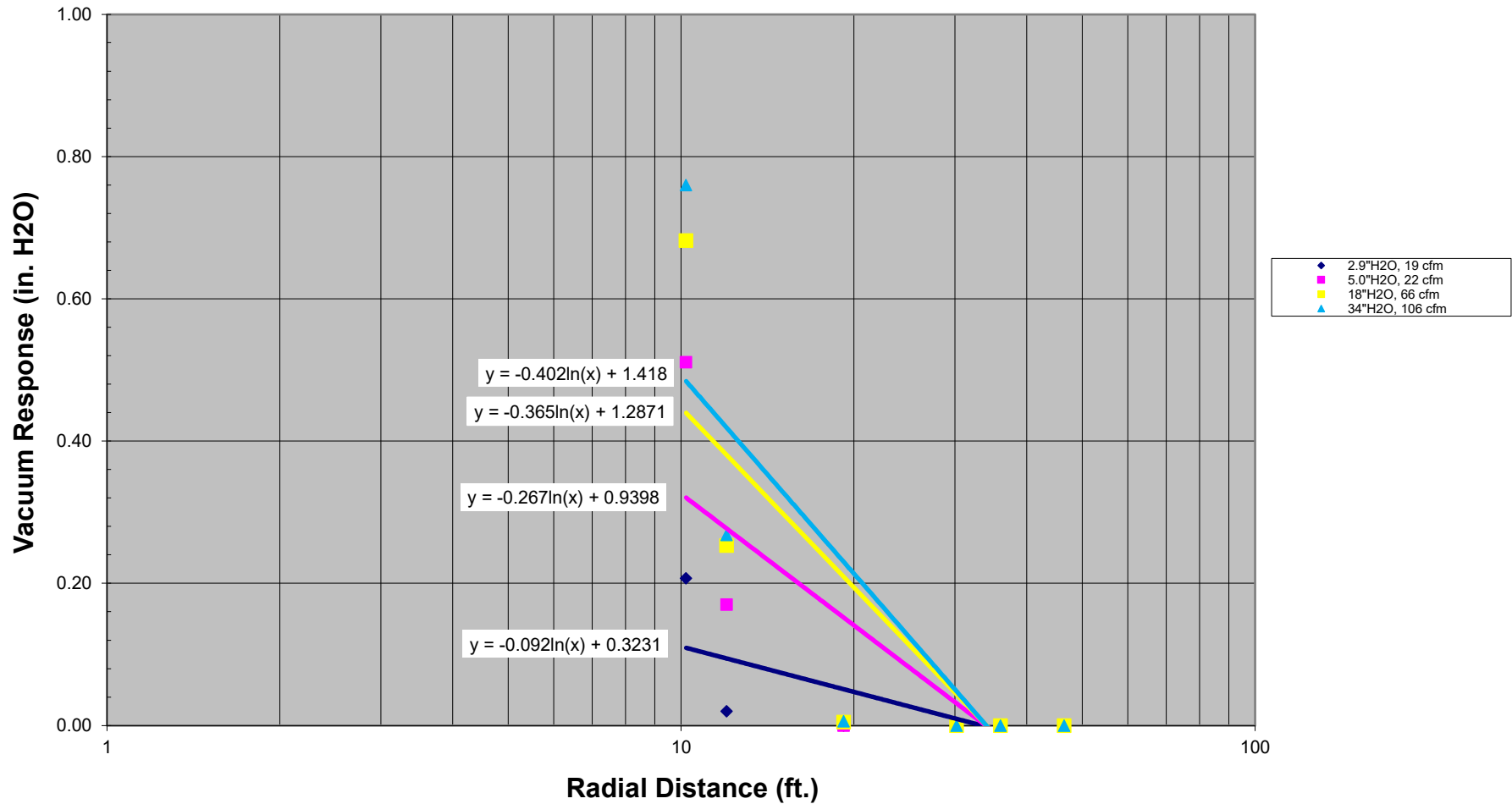
Est. ROI (ft.)	Vacuum ("H2O)	Flow (scfm)
11.3	2.9	19.0
23.2	5	22
26.9	18	66
26.5	34	106

Desired ROI = 20 ft
 @ ROI = 20 ft, Vacuum = 9"H2O
 @ 9"H2O Vacuum, Flow Rate = 36 cfm

Note: SVE ROI is the radial distance where the vacuum response equals 0.10" H2O.



Effective Radius Of Influence VE-01



AIR SAMPLING LABORATORY RESULTS

Sample ID Sample Description York ID Sampling Date Client Matrix	CAS Number	PT-01 VE-01 Pre-GAC at 6 inH2O 25A1579-01 1/28/2025 8:35:00 AM		PT-02 VE-01 Post-GAC at 6 inH2O 25A1579-02 1/28/2025 8:40:00 AM		PT-03 VE-01 Post-GAC at 6 inH2O 25A1579-03 1/28/2025 9:40:00 AM	
		Vapor Extraction Result	Q	Vapor Extraction Result	Q	Vapor Extraction Result	Q
Q_A_Volatile Organics, EPA TO15 Full List		ug/m3		ug/m3		ug/m3	
Dilution Factor		4		1		1	
1,1,1,2-Tetrachloroethane	630-20-6	2.745	U	0.686	U	0.686	U
1,1,1-Trichloroethane	71-55-6	2.182	U	0.545	U	0.545	U
1,1,2,2-Tetrachloroethane	79-34-5	2.745	U	0.686	U	0.686	U
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	76-13-1	3.064	U	0.766	U	0.766	U
1,1,2-Trichloroethane	79-00-5	2.182	U	0.545	U	0.545	U
1,1-Dichloroethane	75-34-3	1.618	U	0.405	U	0.405	U
1,1-Dichloroethylene	75-35-4	0.396	U	0.119		0.119	
1,2,4-Trichlorobenzene	120-82-1	2.967	U	0.742	U	0.742	U
1,2,4-Trimethylbenzene	95-63-6	3.734	D	0.491	U	0.491	U
1,2-Dibromoethane	106-93-4	3.072	U	0.768	U	0.768	U
1,2-Dichlorobenzene	95-50-1	2.404	U	0.601	U	0.601	U
1,2-Dichloroethane	107-06-2	1.618	U	0.405	U	0.405	U
1,2-Dichloropropane	78-87-5	1.848	U	0.462	U	0.462	U
1,2-Dichlorotetrafluoroethane	76-14-2	2.795	U	0.699	U	0.699	U
1,3,5-Trimethylbenzene	108-67-8	1.966	U	0.491	U	0.491	U
1,3-Butadiene	106-99-0	2.654	U	0.663	U	0.663	U
1,3-Dichlorobenzene	541-73-1	2.404	U	0.601	U	0.601	U
1,3-Dichloropropane	142-28-9	1.848	U	0.462	U	0.462	U
1,4-Dichlorobenzene	106-46-7	2.404	U	0.601	U	0.601	U
1,4-Dioxane	123-91-1	2.881	U	0.720	U	0.720	U
2,2,4-Trimethylpentane	540-84-1	1.494	D	0.234	J	0.280	
2-Butanone	78-93-3	1.179	D	0.472		0.560	
2-Hexanone	591-78-6	3.276	U	0.819	U	0.819	U
3-Chloropropene	107-05-1	6.258	U	1.564	U	1.564	U
4-Methyl-2-pentanone	108-10-1	1.966	D	1.147		1.679	
Acetone	67-64-1	7.598	J	3.562		5.461	
Acrylonitrile	107-13-1	11.280	U	2.820	U	2.820	U
Benzene	71-43-2	2.299	D	0.319	U	0.319	U
Benzyl chloride	100-44-7	2.070	U	0.517	U	0.517	U
Bromodichloromethane	75-27-4	2.679	U	0.670	U	0.670	U
Bromoform	75-25-2	4.133	U	1.033	U	1.033	U
Bromomethane	74-83-9	1.553	U	0.388	U	0.388	U
Carbon disulfide	75-15-0	1.245	U	0.311	U	0.311	U
Carbon tetrachloride	56-23-5	0.755	D	0.157	U	0.189	
Chlorobenzene	108-90-7	1.841	U	0.460	U	0.460	U
Chloroethane	75-00-3	1.055	U	0.264	U	0.264	U
Chloroform	67-66-3	1.952	U	0.488	U	0.488	U
Chloromethane	74-87-3	1.569	D	0.454		1.073	
cis-1,2-Dichloroethylene	156-59-2	0.634	D	0.0991	U	1.030	
cis-1,3-Dichloropropylene	10061-01-5	1.815	U	0.454	U	0.454	U
Cyclohexane	110-82-7	1.376	U	0.344	U	0.344	U
Dibromochloromethane	124-48-1	3.406	U	0.852	U	0.852	U
Dichlorodifluoromethane	75-71-8	1.977	D	0.494	U	0.741	
Ethyl acetate	141-78-6	3.026	D	2.557		3.962	
Ethyl Benzene	100-41-4	1.736	D	0.434	U	0.434	U
Hexachlorobutadiene	87-68-3	4.264	U	1.066	U	1.066	U
Isopropanol	67-63-0	5.897	J	1.474	J	3.686	
Methyl Methacrylate	80-62-6	2.455	D	1.719		2.046	
Methyl tert-butyl ether (MTBE)	1634-04-4	1.442	U	0.360	U	0.360	U
Methylene chloride	75-09-2	8.333	U	2.083	J	2.083	J
Naphthalene	91-20-3	4.192	U	1.048	U	1.048	U
n-Heptane	142-82-5	1.639	U	0.410	U	0.410	U
n-Hexane	110-54-3	2.114	D	0.352	U	0.352	U
o-Xylene	95-47-6	1.736	D	0.434	U	0.434	U
p- & m- Xylenes	179601-23-1	3.472	U	0.868	U	0.868	U
p-Ethyltoluene	622-96-8	2.359	D	0.491	U	0.491	U
Propylene	115-07-1	1.583	D	0.516		1.118	
Styrene	100-42-5	1.703	U	0.426	U	0.426	U
Tetrachloroethylene	127-18-4	32.542	D	0.678	U	1.085	
Tetrahydrofuran	109-99-9	2.358	U	0.590	U	0.590	U
Toluene	108-88-3	1.770	D	1.770		1.921	
trans-1,2-Dichloroethylene	156-60-5	1.585	U	0.396	U	0.396	U
trans-1,3-Dichloropropylene	10061-02-6	1.815	U	0.454	U	0.454	U
Trichloroethylene	79-01-6	913.177	D	2.202		0.215	
Trichlorofluoromethane (Freon 11)	75-69-4	2.246	U	0.562	U	0.562	U
Vinyl acetate	108-05-4	1.408	U	0.352	U	0.352	U
Vinyl bromide	593-60-2	1.749	U	0.437	U	0.437	U
Vinyl Chloride	75-01-4	0.511	U	0.128	U	0.153	

NOTES:

Any Regulatory Exceedences are color coded by Regulation

Q is the Qualifier Column with definitions as follows:

- D=result is from an analysis that required a dilution
- J=analyte detected at or above the MDL (method detection limit) but below the RL (Reporting Limit) - data is estimated
- U=analyte not detected at or above the level indicated
- B=analyte found in the analysis batch blank
- E=result is estimated and cannot be accurately reported due to levels encountered or interferences
- P=this flag is used for pesticide and PCB (Aroclor) target compounds when there is a % difference for detected concentrations that exceed method dictated limits between the two GC columns used for analysis
- NT=this indicates the analyte was not a target for this sample
- ~this indicates that no regulatory limit has been established for this analyte

DISCLAIMER:

York Analytical Laboratories, Inc. is providing this information as a convenience to you. York makes no representations or warranties that these data are accurate, complete or represent the latest regulatory authority limits or analytes. York is not responsible for any errors or omissions in these specific regulations. Your use of these data constitute your understanding of these limitations and you agree to hold York harmless from any and all action that may arise from use of

AIR SAMPLING LABORATORY RESULTS

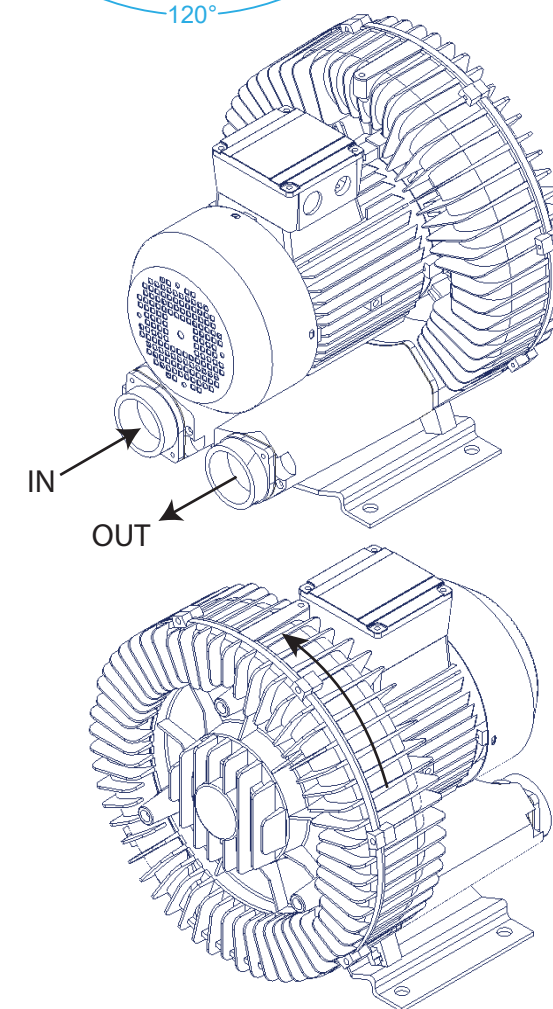
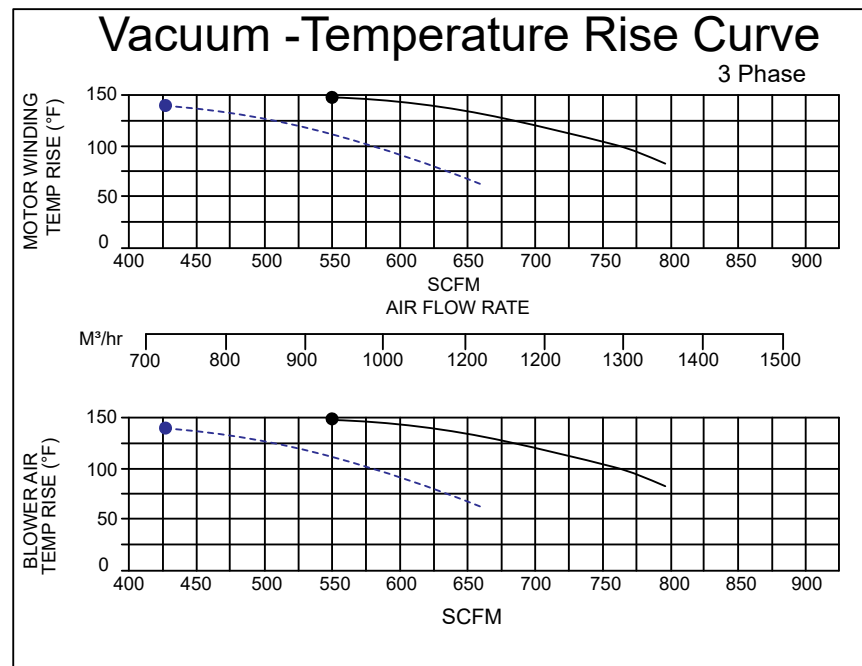
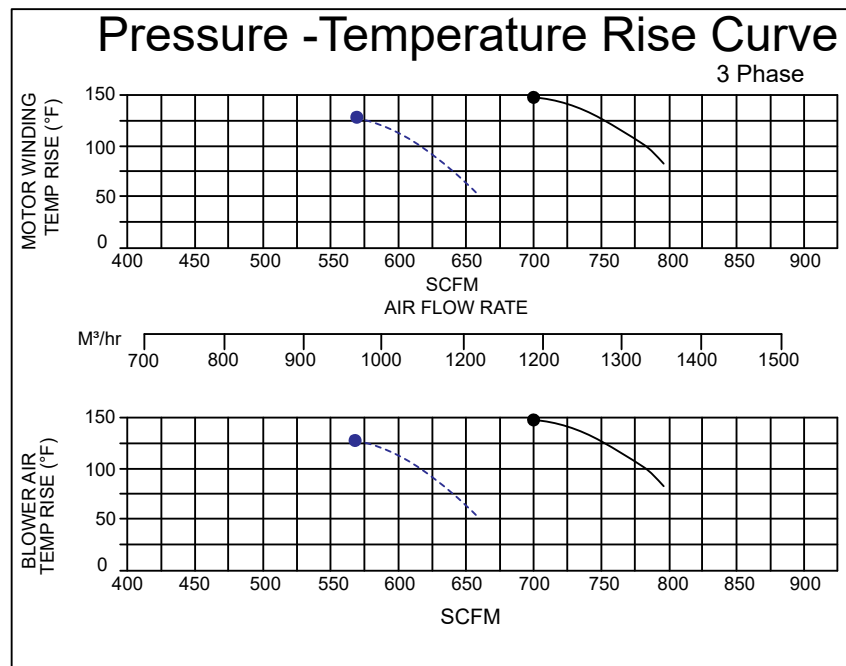
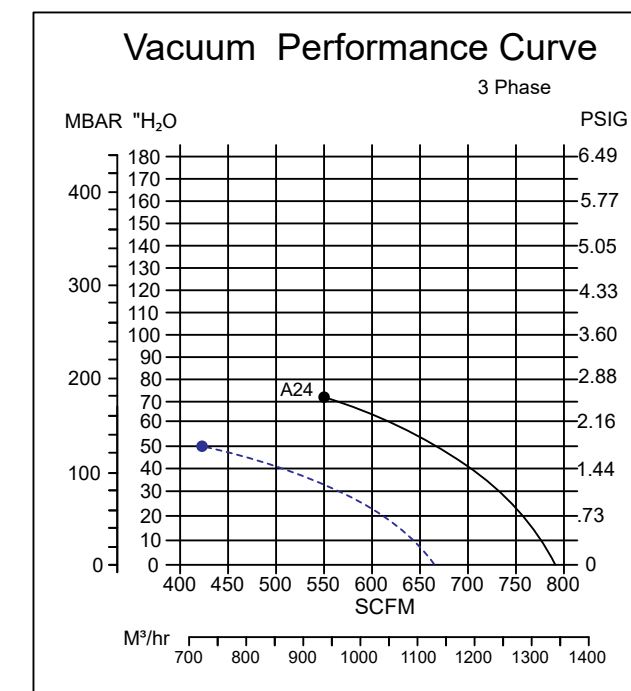
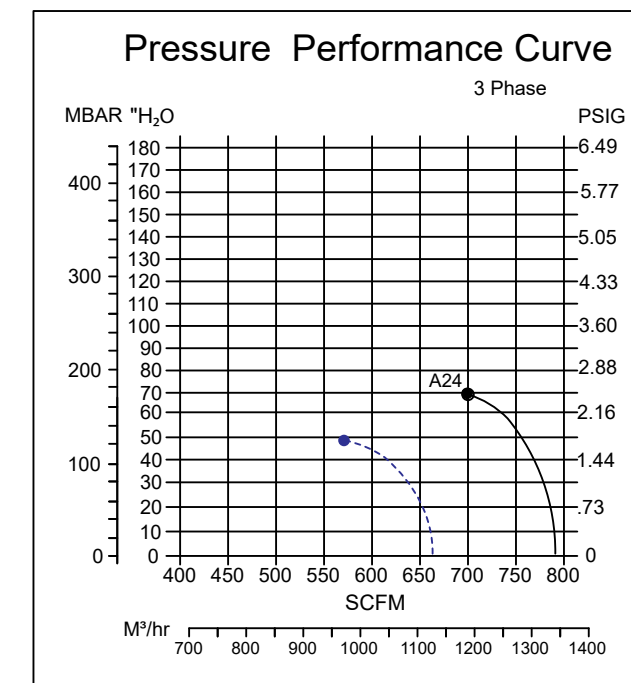
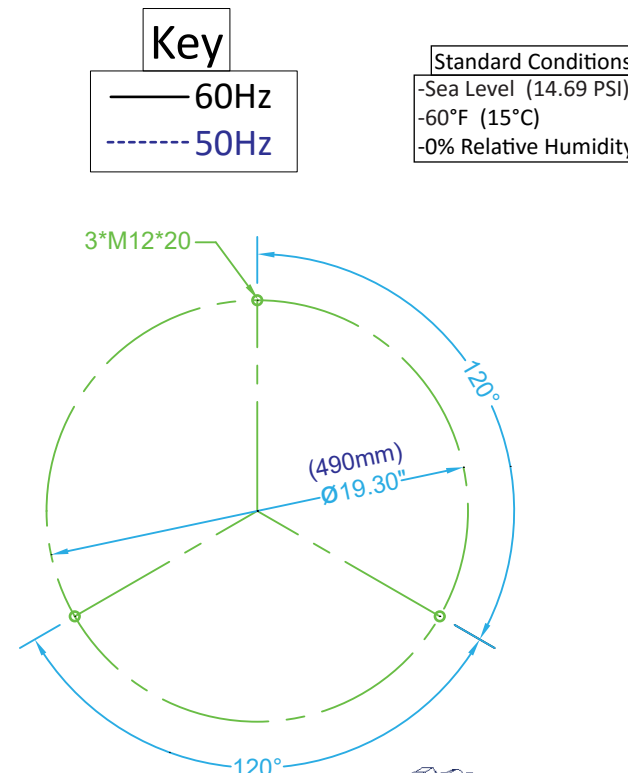
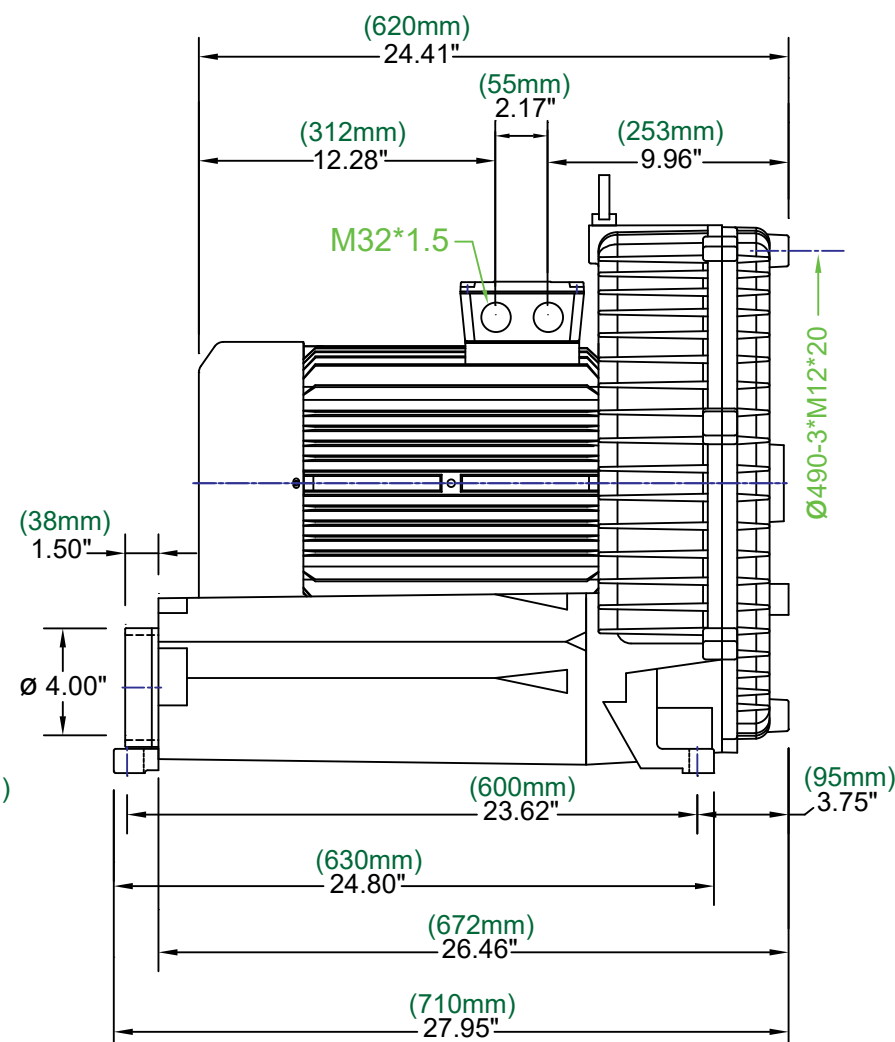
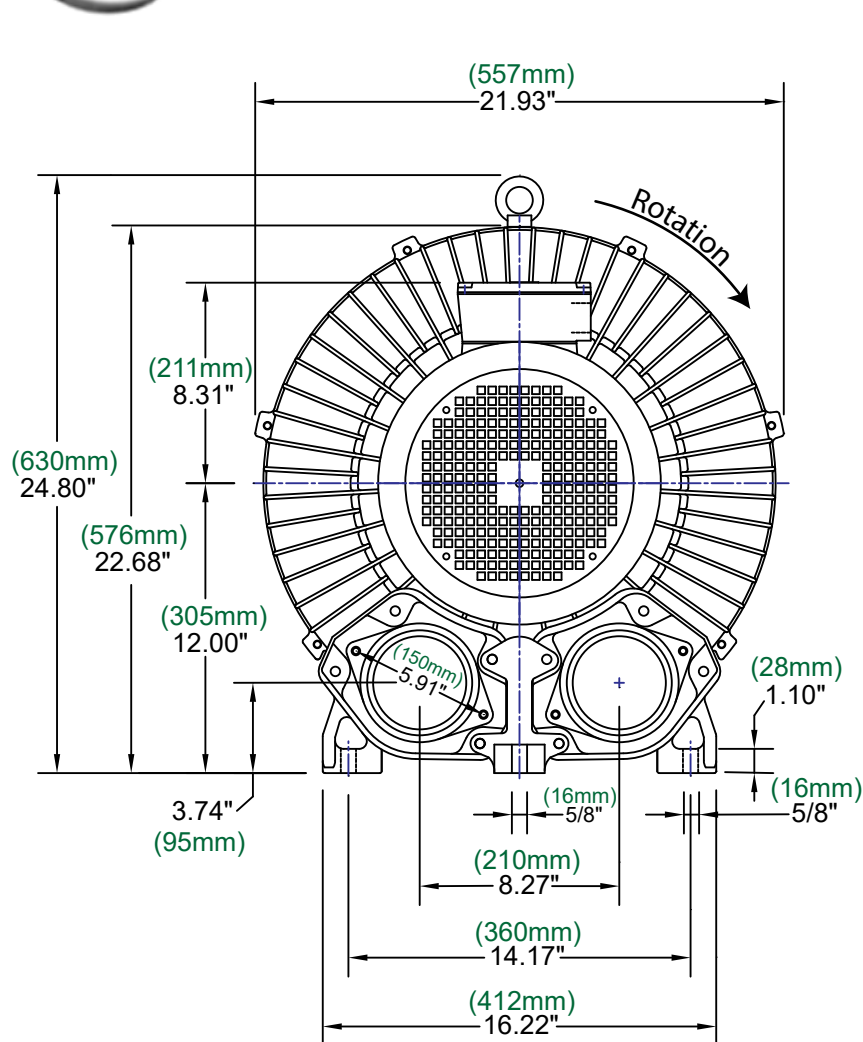
said information. As regulations change often, we encourage the user to review the regulatory limits and lists of interest to confirm these data.



Phase	Model Number	Curve Number	Frequency (Hz)	KW	HP	Max Flow (SCFM)	Max Pressure ("H ₂ O)	Maximum Vacuum	Sound Level (db)	Inlet Diameter	Voltage	Current (A)	Weight (lbs)
3	AB-1100	A24	60Hz	11.00	15.00	791	68	72	81	4.00"	220-275/380-480	37.0Δ/21.4Y	220
			50Hz	9.30	12.50	659	47	50	77		200-240/345-415	36.0Δ/20.8Y	

**Sound db measured at 3ft.

MODEL NO. : AB-1100 SINGLE STAGE



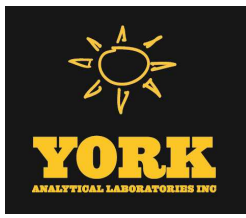
Disclaimer

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ATTACHMENT D

SVE PILOT TEST LABORATORY ANALYTICAL RESULTS



Technical Report

prepared for:

GZA GeoEnvironmental, Inc. - NYC
104 West 29th Street, 10th Floor
New York NY, 10001
Attention: Jackson Bogach

Report Date: 02/13/2025
Client Project ID: 41.0163385.00 Clay Property LLC
York Project (SDG) No.: 25A1579

Revision No. 1.0

Stratford, CT Laboratory IDs:
NY:10854, NJ: CT005, PA: 68-0440, CT: PH-0723



Richmond Hill, NY Laboratory IDs:
NY:12058, NJ: NY037, CT: PH-0721, NH: 2097,
EPA: NY01600

120 RESEARCH DRIVE
www.YORKLAB.com

STRATFORD, CT 06615
(203) 325-1371

132-02 89th AVENUE
FAX (203) 357-0166

RICHMOND HILL, NY 11418
ClientServices@yorklab.com

Report Date: 02/13/2025
Client Project ID: 41.0163385.00 Clay Property LLC
York Project (SDG) No.: 25A1579

GZA GeoEnvironmental, Inc. - NYC
104 West 29th Street, 10th Floor
New York NY, 10001
Attention: Jackson Bogach

Purpose and Results

This report contains the analytical data for the sample(s) identified on the attached chain-of-custody received in our laboratory on January 28, 2025 and listed below. The project was identified as your project: **41.0163385.00 Clay Property LLC**.

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

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

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

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

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

<u>York Sample ID</u>	<u>Client Sample ID</u>	<u>Matrix</u>	<u>Date Collected</u>	<u>Date Received</u>
25A1579-01	PT-01	Vapor Extraction	01/28/2025	01/28/2025
25A1579-02	PT-02	Vapor Extraction	01/28/2025	01/28/2025
25A1579-03	PT-03	Vapor Extraction	01/28/2025	01/28/2025

General Notes for York Project (SDG) No.: 25A1579

1. The RLs and MDLs (Reporting Limit and Method Detection Limit respectively) reported are adjusted for any dilution necessary due to the levels of target and/or non-target analytes and matrix interference. The RL(REPORTING LIMIT) is based upon the lowest standard utilized for the calibration where applicable.
2. Samples are retained for a period of thirty days after submittal of report, unless other arrangements are made.
3. York's liability for the above data is limited to the dollar value paid to York for the referenced project.
4. This report shall not be reproduced without the written approval of York Analytical Laboratories, Inc.
5. All analyses conducted met method or Laboratory SOP requirements. See the Sample and Data Qualifiers Section for further information.
6. It is noted that no analyses reported herein were subcontracted to another laboratory, unless noted in the report.
7. This report reflects results that relate only to the samples submitted on the attached chain-of-custody form(s) received by York.
8. Analyses conducted at York Analytical Laboratories, Inc. Stratford, CT are indicated by NY Cert. No. 10854, NJ Cert No. CT005, PA Cert No. 68-04440, CT Cert No. PH-0723; those conducted at York Analytical Laboratories, Inc., Richmond Hill, NY are indicated by NY Cert. No. 12058, NJ Cert No. NY037, CT Cert No. PH-0721, NH Cert No. 2097, EPA Cert No. NY01600.

Approved By:



Cassie L. Mosher
Laboratory Manager

Date: 02/13/2025





Sample Information

Client Sample ID: PT-01

York Sample ID: 25A1579-01

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

25A1579

41.0163385.00 Clay Property LLC

Vapor Extraction

January 28, 2025 8:35 am

01/28/2025

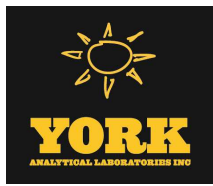
Volatile Organics, EPA TO15 Full List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	* 1,1,1,2-Tetrachloroethane	ND		ppbv	0.40	4	EPA TO-15 Certifications:	01/28/2025 12:00	01/28/2025 22:05	YR
71-55-6	1,1,1-Trichloroethane	ND		ppbv	0.40	4	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	01/28/2025 12:00	01/28/2025 22:05	YR
79-34-5	1,1,2,2-Tetrachloroethane	ND		ppbv	0.40	4	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	01/28/2025 12:00	01/28/2025 22:05	YR
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ppbv	0.40	4	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	01/28/2025 12:00	01/28/2025 22:05	YR
79-00-5	1,1,2-Trichloroethane	ND		ppbv	0.40	4	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	01/28/2025 12:00	01/28/2025 22:05	YR
75-34-3	1,1-Dichloroethane	ND		ppbv	0.40	4	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	01/28/2025 12:00	01/28/2025 22:05	YR
75-35-4	1,1-Dichloroethylene	ND		ppbv	0.10	4	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	01/28/2025 12:00	01/28/2025 22:05	YR
120-82-1	1,2,4-Trichlorobenzene	ND		ppbv	0.40	4	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	01/28/2025 12:00	01/28/2025 22:05	YR
95-63-6	1,2,4-Trimethylbenzene	0.76		ppbv	0.40	4	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	01/28/2025 12:00	01/28/2025 22:05	YR
106-93-4	1,2-Dibromoethane	ND		ppbv	0.40	4	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	01/28/2025 12:00	01/28/2025 22:05	YR
95-50-1	1,2-Dichlorobenzene	ND		ppbv	0.40	4	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	01/28/2025 12:00	01/28/2025 22:05	YR
107-06-2	1,2-Dichloroethane	ND		ppbv	0.40	4	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	01/28/2025 12:00	01/28/2025 22:05	YR
78-87-5	1,2-Dichloropropane	ND		ppbv	0.40	4	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	01/28/2025 12:00	01/28/2025 22:05	YR
76-14-2	1,2-Dichlorotetrafluoroethane	ND		ppbv	0.40	4	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	01/28/2025 12:00	01/28/2025 22:05	YR
108-67-8	1,3,5-Trimethylbenzene	ND		ppbv	0.40	4	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	01/28/2025 12:00	01/28/2025 22:05	YR
106-99-0	1,3-Butadiene	ND		ppbv	1.2	4	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	01/28/2025 12:00	01/28/2025 22:05	YR
541-73-1	1,3-Dichlorobenzene	ND		ppbv	0.40	4	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	01/28/2025 12:00	01/28/2025 22:05	YR
142-28-9	* 1,3-Dichloropropane	ND		ppbv	0.40	4	EPA TO-15 Certifications:	01/28/2025 12:00	01/28/2025 22:05	YR
106-46-7	1,4-Dichlorobenzene	ND		ppbv	0.40	4	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	01/28/2025 12:00	01/28/2025 22:05	YR
123-91-1	1,4-Dioxane	ND		ppbv	0.80	4	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	01/28/2025 12:00	01/28/2025 22:05	YR
540-84-1	* 2,2,4-Trimethylpentane	0.32		ppbv	0.20	4	EPA TO-15 Certifications:	01/28/2025 12:00	01/28/2025 22:05	YR
78-93-3	2-Butanone	0.40		ppbv	0.40	4	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	01/28/2025 12:00	01/28/2025 22:05	YR



Sample Information

Client Sample ID: PT-01

York Sample ID: 25A1579-01

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

25A1579

41.0163385.00 Clay Property LLC

Vapor Extraction

January 28, 2025 8:35 am

01/28/2025

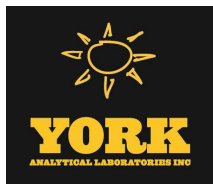
Volatile Organics, EPA TO15 Full List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
591-78-6	* 2-Hexanone	ND		ppbv	0.80	4	EPA TO-15 Certifications:	01/28/2025 12:00	01/28/2025 22:05	YR
107-05-1	3-Chloropropene	ND		ppbv	2.0	4	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	01/28/2025 12:00	01/28/2025 22:05	YR
108-10-1	4-Methyl-2-pentanone	0.48		ppbv	0.40	4	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	01/28/2025 12:00	01/28/2025 22:05	YR
67-64-1	Acetone	ND		ppbv	3.2	4	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	01/28/2025 12:00	01/28/2025 22:05	YR
107-13-1	Acrylonitrile	ND		ppbv	5.2	4	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	01/28/2025 12:00	01/28/2025 22:05	YR
71-43-2	Benzene	0.72		ppbv	0.40	4	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	01/28/2025 12:00	01/28/2025 22:05	YR
100-44-7	Benzyl chloride	ND		ppbv	0.40	4	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	01/28/2025 12:00	01/28/2025 22:05	YR
75-27-4	Bromodichloromethane	ND		ppbv	0.40	4	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	01/28/2025 12:00	01/28/2025 22:05	YR
75-25-2	Bromoform	ND		ppbv	0.40	4	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	01/28/2025 12:00	01/28/2025 22:05	YR
74-83-9	Bromomethane	ND		ppbv	0.40	4	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	01/28/2025 12:00	01/28/2025 22:05	YR
75-15-0	Carbon disulfide	ND		ppbv	0.40	4	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	01/28/2025 12:00	01/28/2025 22:05	YR
56-23-5	Carbon tetrachloride	0.12		ppbv	0.10	4	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	01/28/2025 12:00	01/28/2025 22:05	YR
108-90-7	Chlorobenzene	ND		ppbv	0.40	4	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	01/28/2025 12:00	01/28/2025 22:05	YR
75-00-3	Chloroethane	ND		ppbv	0.40	4	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	01/28/2025 12:00	01/28/2025 22:05	YR
67-66-3	Chloroform	ND		ppbv	0.40	4	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	01/28/2025 12:00	01/28/2025 22:05	YR
74-87-3	Chloromethane	0.76		ppbv	0.40	4	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	01/28/2025 12:00	01/28/2025 22:05	YR
156-59-2	cis-1,2-Dichloroethylene	0.16		ppbv	0.10	4	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	01/28/2025 12:00	01/28/2025 22:05	YR
10061-01-5	cis-1,3-Dichloropropylene	ND		ppbv	0.40	4	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	01/28/2025 12:00	01/28/2025 22:05	YR
110-82-7	Cyclohexane	ND		ppbv	0.40	4	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	01/28/2025 12:00	01/28/2025 22:05	YR
124-48-1	Dibromochloromethane	ND		ppbv	0.40	4	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	01/28/2025 12:00	01/28/2025 22:05	YR
75-71-8	Dichlorodifluoromethane	0.40		ppbv	0.40	4	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	01/28/2025 12:00	01/28/2025 22:05	YR
141-78-6	* Ethyl acetate	0.84		ppbv	0.80	4	EPA TO-15 Certifications:	01/28/2025 12:00	01/28/2025 22:05	YR
100-41-4	Ethyl Benzene	0.40		ppbv	0.40	4	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	01/28/2025 12:00	01/28/2025 22:05	YR



Sample Information

Client Sample ID: PT-01

York Sample ID: 25A1579-01

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

25A1579

41.0163385.00 Clay Property LLC

Vapor Extraction

January 28, 2025 8:35 am

01/28/2025

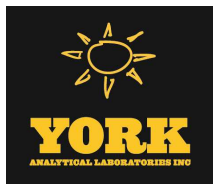
Volatile Organics, EPA TO15 Full List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
87-68-3	Hexachlorobutadiene	ND		ppbv	0.40	4	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	01/28/2025 12:00	01/28/2025 22:05	YR
67-63-0	Isopropanol	ND		ppbv	2.4	4	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	01/28/2025 12:00	01/28/2025 22:05	YR
80-62-6	Methyl Methacrylate	0.60		ppbv	0.40	4	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	01/28/2025 12:00	01/28/2025 22:05	YR
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ppbv	0.40	4	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	01/28/2025 12:00	01/28/2025 22:05	YR
75-09-2	Methylene chloride	ND		ppbv	2.4	4	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	01/28/2025 12:00	01/28/2025 22:05	YR
91-20-3	* Naphthalene	ND		ppbv	0.80	4	EPA TO-15 Certifications: NJDEP-NY037	01/28/2025 12:00	01/28/2025 22:05	YR
142-82-5	n-Heptane	ND		ppbv	0.40	4	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	01/28/2025 12:00	01/28/2025 22:05	YR
110-54-3	n-Hexane	0.60		ppbv	0.40	4	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	01/28/2025 12:00	01/28/2025 22:05	YR
95-47-6	o-Xylene	0.40		ppbv	0.40	4	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	01/28/2025 12:00	01/28/2025 22:05	YR
179601-23-1	p- & m- Xylenes	ND		ppbv	0.80	4	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	01/28/2025 12:00	01/28/2025 22:05	YR
622-96-8	* p-Ethyltoluene	0.48		ppbv	0.40	4	EPA TO-15 Certifications:	01/28/2025 12:00	01/28/2025 22:05	YR
115-07-1	* Propylene	0.92		ppbv	0.40	4	EPA TO-15 Certifications:	01/28/2025 12:00	01/28/2025 22:05	YR
100-42-5	Styrene	ND		ppbv	0.40	4	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	01/28/2025 12:00	01/28/2025 22:05	YR
127-18-4	Tetrachloroethylene	4.8		ppbv	0.40	4	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	01/28/2025 12:00	01/28/2025 22:05	YR
109-99-9	* Tetrahydrofuran	ND		ppbv	0.80	4	EPA TO-15 Certifications:	01/28/2025 12:00	01/28/2025 22:05	YR
108-88-3	Toluene	2.0		ppbv	0.40	4	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	01/28/2025 12:00	01/28/2025 22:05	YR
156-60-5	trans-1,2-Dichloroethylene	ND		ppbv	0.40	4	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	01/28/2025 12:00	01/28/2025 22:05	YR
10061-02-6	trans-1,3-Dichloropropylene	ND		ppbv	0.40	4	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	01/28/2025 12:00	01/28/2025 22:05	YR
79-01-6	Trichloroethylene	170		ppbv	0.10	4	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	01/28/2025 12:00	01/28/2025 22:05	YR
75-69-4	Trichlorofluoromethane (Freon 11)	ND		ppbv	0.40	4	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	01/28/2025 12:00	01/28/2025 22:05	YR
108-05-4	Vinyl acetate	ND		ppbv	0.40	4	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	01/28/2025 12:00	01/28/2025 22:05	YR
593-60-2	Vinyl bromide	ND		ppbv	0.40	4	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	01/28/2025 12:00	01/28/2025 22:05	YR
75-01-4	Vinyl Chloride	ND		ppbv	0.20	4	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	01/28/2025 12:00	01/28/2025 22:05	YR



Sample Information

Client Sample ID: PT-01

York Sample ID: 25A1579-01

<u>York Project (SDG) No.</u>	<u>Client Project ID</u>	<u>Matrix</u>	<u>Collection Date/Time</u>	<u>Date Received</u>
25A1579	41.0163385.00 Clay Property LLC	Vapor Extraction	January 28, 2025 8:35 am	01/28/2025

Sample Information

Client Sample ID: PT-02

York Sample ID: 25A1579-02

<u>York Project (SDG) No.</u>	<u>Client Project ID</u>	<u>Matrix</u>	<u>Collection Date/Time</u>	<u>Date Received</u>
25A1579	41.0163385.00 Clay Property LLC	Vapor Extraction	January 28, 2025 8:40 am	01/28/2025

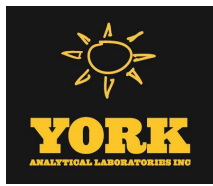
Volatile Organics, EPA TO15 Full List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	* 1,1,1,2-Tetrachloroethane	ND		ppbv	0.10	1	EPA TO-15 Certifications:	01/28/2025 12:00	01/28/2025 22:58	YR
71-55-6	1,1,1-Trichloroethane	ND		ppbv	0.10	1	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	01/28/2025 12:00	01/28/2025 22:58	YR
79-34-5	1,1,2,2-Tetrachloroethane	ND		ppbv	0.10	1	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	01/28/2025 12:00	01/28/2025 22:58	YR
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ppbv	0.10	1	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	01/28/2025 12:00	01/28/2025 22:58	YR
79-00-5	1,1,2-Trichloroethane	ND		ppbv	0.10	1	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	01/28/2025 12:00	01/28/2025 22:58	YR
75-34-3	1,1-Dichloroethane	ND		ppbv	0.10	1	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	01/28/2025 12:00	01/28/2025 22:58	YR
75-35-4	1,1-Dichloroethylene	0.030		ppbv	0.025	1	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	01/28/2025 12:00	01/28/2025 22:58	YR
120-82-1	1,2,4-Trichlorobenzene	ND		ppbv	0.10	1	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	01/28/2025 12:00	01/28/2025 22:58	YR
95-63-6	1,2,4-Trimethylbenzene	ND		ppbv	0.10	1	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	01/28/2025 12:00	01/28/2025 22:58	YR
106-93-4	1,2-Dibromoethane	ND		ppbv	0.10	1	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	01/28/2025 12:00	01/28/2025 22:58	YR
95-50-1	1,2-Dichlorobenzene	ND		ppbv	0.10	1	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	01/28/2025 12:00	01/28/2025 22:58	YR
107-06-2	1,2-Dichloroethane	ND		ppbv	0.10	1	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	01/28/2025 12:00	01/28/2025 22:58	YR
78-87-5	1,2-Dichloropropane	ND		ppbv	0.10	1	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	01/28/2025 12:00	01/28/2025 22:58	YR
76-14-2	1,2-Dichlorotetrafluoroethane	ND		ppbv	0.10	1	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	01/28/2025 12:00	01/28/2025 22:58	YR
108-67-8	1,3,5-Trimethylbenzene	ND		ppbv	0.10	1	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	01/28/2025 12:00	01/28/2025 22:58	YR
106-99-0	1,3-Butadiene	ND		ppbv	0.30	1	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	01/28/2025 12:00	01/28/2025 22:58	YR
541-73-1	1,3-Dichlorobenzene	ND		ppbv	0.10	1	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	01/28/2025 12:00	01/28/2025 22:58	YR
142-28-9	* 1,3-Dichloropropane	ND		ppbv	0.10	1	EPA TO-15 Certifications:	01/28/2025 12:00	01/28/2025 22:58	YR
106-46-7	1,4-Dichlorobenzene	ND		ppbv	0.10	1	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	01/28/2025 12:00	01/28/2025 22:58	YR



Sample Information

Client Sample ID: PT-02

York Sample ID: 25A1579-02

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

25A1579

41.0163385.00 Clay Property LLC

Vapor Extraction

January 28, 2025 8:40 am

01/28/2025

Volatile Organics, EPA TO15 Full List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
123-91-1	1,4-Dioxane	ND		ppbv	0.20	1	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	01/28/2025 12:00	01/28/2025 22:58	YR
540-84-1	* 2,2,4-Trimethylpentane	ND		ppbv	0.050	1	EPA TO-15 Certifications:	01/28/2025 12:00	01/28/2025 22:58	YR
78-93-3	2-Butanone	0.16		ppbv	0.10	1	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	01/28/2025 12:00	01/28/2025 22:58	YR
591-78-6	* 2-Hexanone	ND		ppbv	0.20	1	EPA TO-15 Certifications:	01/28/2025 12:00	01/28/2025 22:58	YR
107-05-1	3-Chloropropene	ND		ppbv	0.50	1	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	01/28/2025 12:00	01/28/2025 22:58	YR
108-10-1	4-Methyl-2-pentanone	0.28		ppbv	0.10	1	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	01/28/2025 12:00	01/28/2025 22:58	YR
67-64-1	Acetone	1.5		ppbv	0.80	1	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	01/28/2025 12:00	01/28/2025 22:58	YR
107-13-1	Acrylonitrile	ND		ppbv	1.3	1	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	01/28/2025 12:00	01/28/2025 22:58	YR
71-43-2	Benzene	ND		ppbv	0.10	1	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	01/28/2025 12:00	01/28/2025 22:58	YR
100-44-7	Benzyl chloride	ND		ppbv	0.10	1	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	01/28/2025 12:00	01/28/2025 22:58	YR
75-27-4	Bromodichloromethane	ND		ppbv	0.10	1	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	01/28/2025 12:00	01/28/2025 22:58	YR
75-25-2	Bromoform	ND		ppbv	0.10	1	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	01/28/2025 12:00	01/28/2025 22:58	YR
74-83-9	Bromomethane	ND		ppbv	0.10	1	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	01/28/2025 12:00	01/28/2025 22:58	YR
75-15-0	Carbon disulfide	ND		ppbv	0.10	1	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	01/28/2025 12:00	01/28/2025 22:58	YR
56-23-5	Carbon tetrachloride	ND		ppbv	0.025	1	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	01/28/2025 12:00	01/28/2025 22:58	YR
108-90-7	Chlorobenzene	ND		ppbv	0.10	1	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	01/28/2025 12:00	01/28/2025 22:58	YR
75-00-3	Chloroethane	ND		ppbv	0.10	1	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	01/28/2025 12:00	01/28/2025 22:58	YR
67-66-3	Chloroform	ND		ppbv	0.10	1	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	01/28/2025 12:00	01/28/2025 22:58	YR
74-87-3	Chloromethane	0.22		ppbv	0.10	1	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	01/28/2025 12:00	01/28/2025 22:58	YR
156-59-2	cis-1,2-Dichloroethylene	ND		ppbv	0.025	1	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	01/28/2025 12:00	01/28/2025 22:58	YR
10061-01-5	cis-1,3-Dichloropropylene	ND		ppbv	0.10	1	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	01/28/2025 12:00	01/28/2025 22:58	YR
110-82-7	Cyclohexane	ND		ppbv	0.10	1	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	01/28/2025 12:00	01/28/2025 22:58	YR
124-48-1	Dibromochloromethane	ND		ppbv	0.10	1	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	01/28/2025 12:00	01/28/2025 22:58	YR



Sample Information

Client Sample ID: PT-02

York Sample ID: 25A1579-02

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

25A1579

41.0163385.00 Clay Property LLC

Vapor Extraction

January 28, 2025 8:40 am

01/28/2025

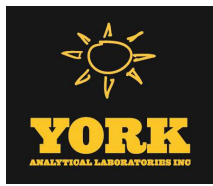
Volatile Organics, EPA TO15 Full List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
75-71-8	Dichlorodifluoromethane	ND		ppbv	0.10	1	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	01/28/2025 12:00	01/28/2025 22:58	YR
141-78-6	* Ethyl acetate	0.71		ppbv	0.20	1	EPA TO-15 Certifications:	01/28/2025 12:00	01/28/2025 22:58	YR
100-41-4	Ethyl Benzene	ND		ppbv	0.10	1	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	01/28/2025 12:00	01/28/2025 22:58	YR
87-68-3	Hexachlorobutadiene	ND		ppbv	0.10	1	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	01/28/2025 12:00	01/28/2025 22:58	YR
67-63-0	Isopropanol	ND		ppbv	0.60	1	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	01/28/2025 12:00	01/28/2025 22:58	YR
80-62-6	Methyl Methacrylate	0.42		ppbv	0.10	1	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	01/28/2025 12:00	01/28/2025 22:58	YR
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ppbv	0.10	1	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	01/28/2025 12:00	01/28/2025 22:58	YR
75-09-2	Methylene chloride	ND		ppbv	0.60	1	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	01/28/2025 12:00	01/28/2025 22:58	YR
91-20-3	* Naphthalene	ND		ppbv	0.20	1	EPA TO-15 Certifications: NJDEP-NY037	01/28/2025 12:00	01/28/2025 22:58	YR
142-82-5	n-Heptane	ND		ppbv	0.10	1	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	01/28/2025 12:00	01/28/2025 22:58	YR
110-54-3	n-Hexane	ND		ppbv	0.10	1	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	01/28/2025 12:00	01/28/2025 22:58	YR
95-47-6	o-Xylene	ND		ppbv	0.10	1	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	01/28/2025 12:00	01/28/2025 22:58	YR
179601-23-1	p- & m- Xylenes	ND		ppbv	0.20	1	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	01/28/2025 12:00	01/28/2025 22:58	YR
622-96-8	* p-Ethyltoluene	ND		ppbv	0.10	1	EPA TO-15 Certifications:	01/28/2025 12:00	01/28/2025 22:58	YR
115-07-1	* Propylene	0.30		ppbv	0.10	1	EPA TO-15 Certifications:	01/28/2025 12:00	01/28/2025 22:58	YR
100-42-5	Styrene	ND		ppbv	0.10	1	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	01/28/2025 12:00	01/28/2025 22:58	YR
127-18-4	Tetrachloroethylene	ND		ppbv	0.10	1	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	01/28/2025 12:00	01/28/2025 22:58	YR
109-99-9	* Tetrahydrofuran	ND		ppbv	0.20	1	EPA TO-15 Certifications:	01/28/2025 12:00	01/28/2025 22:58	YR
108-88-3	Toluene	0.47		ppbv	0.10	1	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	01/28/2025 12:00	01/28/2025 22:58	YR
156-60-5	trans-1,2-Dichloroethylene	ND		ppbv	0.10	1	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	01/28/2025 12:00	01/28/2025 22:58	YR
10061-02-6	trans-1,3-Dichloropropylene	ND		ppbv	0.10	1	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	01/28/2025 12:00	01/28/2025 22:58	YR
79-01-6	Trichloroethylene	0.41		ppbv	0.025	1	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	01/28/2025 12:00	01/28/2025 22:58	YR
75-69-4	Trichlorofluoromethane (Freon 11)	ND		ppbv	0.10	1	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	01/28/2025 12:00	01/28/2025 22:58	YR



Sample Information

Client Sample ID: PT-02

York Sample ID: 25A1579-02

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

25A1579

41.0163385.00 Clay Property LLC

Vapor Extraction

January 28, 2025 8:40 am

01/28/2025

Volatile Organics, EPA TO15 Full List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA TO15 PREP

Table with 12 columns: CAS No., Parameter, Result, Flag, Units, Reported to LOQ, Dilution, Reference Method, Date/Time Prepared, Date/Time Analyzed, Analyst. Rows include Vinyl acetate, Vinyl bromide, and Vinyl Chloride.

Sample Information

Client Sample ID: PT-03

York Sample ID: 25A1579-03

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

25A1579

41.0163385.00 Clay Property LLC

Vapor Extraction

January 28, 2025 9:40 am

01/28/2025

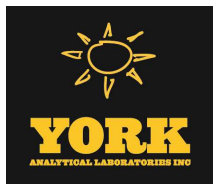
Volatile Organics, EPA TO15 Full List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA TO15 PREP

Table with 12 columns: CAS No., Parameter, Result, Flag, Units, Reported to LOQ, Dilution, Reference Method, Date/Time Prepared, Date/Time Analyzed, Analyst. Rows include various chlorinated hydrocarbons, with 1,1-Dichloroethylene showing a result of 0.030.



Sample Information

Client Sample ID: PT-03

York Sample ID: 25A1579-03

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

25A1579

41.0163385.00 Clay Property LLC

Vapor Extraction

January 28, 2025 9:40 am

01/28/2025

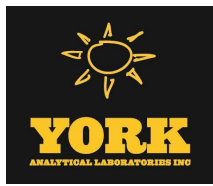
Volatile Organics, EPA TO15 Full List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
76-14-2	1,2-Dichlorotetrafluoroethane	ND		ppbv	0.10	1	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	01/28/2025 12:00	01/28/2025 23:50	YR
108-67-8	1,3,5-Trimethylbenzene	ND		ppbv	0.10	1	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	01/28/2025 12:00	01/28/2025 23:50	YR
106-99-0	1,3-Butadiene	ND		ppbv	0.30	1	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	01/28/2025 12:00	01/28/2025 23:50	YR
541-73-1	1,3-Dichlorobenzene	ND		ppbv	0.10	1	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	01/28/2025 12:00	01/28/2025 23:50	YR
142-28-9	* 1,3-Dichloropropane	ND		ppbv	0.10	1	EPA TO-15 Certifications:	01/28/2025 12:00	01/28/2025 23:50	YR
106-46-7	1,4-Dichlorobenzene	ND		ppbv	0.10	1	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	01/28/2025 12:00	01/28/2025 23:50	YR
123-91-1	1,4-Dioxane	ND		ppbv	0.20	1	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	01/28/2025 12:00	01/28/2025 23:50	YR
540-84-1	* 2,2,4-Trimethylpentane	0.060		ppbv	0.050	1	EPA TO-15 Certifications:	01/28/2025 12:00	01/28/2025 23:50	YR
78-93-3	2-Butanone	0.19		ppbv	0.10	1	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	01/28/2025 12:00	01/28/2025 23:50	YR
591-78-6	* 2-Hexanone	ND		ppbv	0.20	1	EPA TO-15 Certifications:	01/28/2025 12:00	01/28/2025 23:50	YR
107-05-1	3-Chloropropene	ND		ppbv	0.50	1	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	01/28/2025 12:00	01/28/2025 23:50	YR
108-10-1	4-Methyl-2-pentanone	0.41		ppbv	0.10	1	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	01/28/2025 12:00	01/28/2025 23:50	YR
67-64-1	Acetone	2.3		ppbv	0.80	1	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	01/28/2025 12:00	01/28/2025 23:50	YR
107-13-1	Acrylonitrile	ND		ppbv	1.3	1	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	01/28/2025 12:00	01/28/2025 23:50	YR
71-43-2	Benzene	ND		ppbv	0.10	1	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	01/28/2025 12:00	01/28/2025 23:50	YR
100-44-7	Benzyl chloride	ND		ppbv	0.10	1	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	01/28/2025 12:00	01/28/2025 23:50	YR
75-27-4	Bromodichloromethane	ND		ppbv	0.10	1	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	01/28/2025 12:00	01/28/2025 23:50	YR
75-25-2	Bromoform	ND		ppbv	0.10	1	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	01/28/2025 12:00	01/28/2025 23:50	YR
74-83-9	Bromomethane	ND		ppbv	0.10	1	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	01/28/2025 12:00	01/28/2025 23:50	YR
75-15-0	Carbon disulfide	ND		ppbv	0.10	1	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	01/28/2025 12:00	01/28/2025 23:50	YR
56-23-5	Carbon tetrachloride	0.030		ppbv	0.025	1	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	01/28/2025 12:00	01/28/2025 23:50	YR
108-90-7	Chlorobenzene	ND		ppbv	0.10	1	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	01/28/2025 12:00	01/28/2025 23:50	YR
75-00-3	Chloroethane	ND		ppbv	0.10	1	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	01/28/2025 12:00	01/28/2025 23:50	YR



Sample Information

Client Sample ID: PT-03

York Sample ID: 25A1579-03

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

25A1579

41.0163385.00 Clay Property LLC

Vapor Extraction

January 28, 2025 9:40 am

01/28/2025

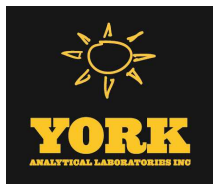
Volatile Organics, EPA TO15 Full List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
67-66-3	Chloroform	ND		ppbv	0.10	1	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	01/28/2025 12:00	01/28/2025 23:50	YR
74-87-3	Chloromethane	0.52		ppbv	0.10	1	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	01/28/2025 12:00	01/28/2025 23:50	YR
156-59-2	cis-1,2-Dichloroethylene	0.26		ppbv	0.025	1	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	01/28/2025 12:00	01/28/2025 23:50	YR
10061-01-5	cis-1,3-Dichloropropylene	ND		ppbv	0.10	1	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	01/28/2025 12:00	01/28/2025 23:50	YR
110-82-7	Cyclohexane	ND		ppbv	0.10	1	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	01/28/2025 12:00	01/28/2025 23:50	YR
124-48-1	Dibromochloromethane	ND		ppbv	0.10	1	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	01/28/2025 12:00	01/28/2025 23:50	YR
75-71-8	Dichlorodifluoromethane	0.15		ppbv	0.10	1	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	01/28/2025 12:00	01/28/2025 23:50	YR
141-78-6	* Ethyl acetate	1.1		ppbv	0.20	1	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	01/28/2025 12:00	01/28/2025 23:50	YR
100-41-4	Ethyl Benzene	ND		ppbv	0.10	1	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	01/28/2025 12:00	01/28/2025 23:50	YR
87-68-3	Hexachlorobutadiene	ND		ppbv	0.10	1	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	01/28/2025 12:00	01/28/2025 23:50	YR
67-63-0	Isopropanol	1.5		ppbv	0.60	1	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	01/28/2025 12:00	01/28/2025 23:50	YR
80-62-6	Methyl Methacrylate	0.50		ppbv	0.10	1	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	01/28/2025 12:00	01/28/2025 23:50	YR
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ppbv	0.10	1	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	01/28/2025 12:00	01/28/2025 23:50	YR
75-09-2	Methylene chloride	ND		ppbv	0.60	1	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	01/28/2025 12:00	01/28/2025 23:50	YR
91-20-3	* Naphthalene	ND		ppbv	0.20	1	EPA TO-15 Certifications: NJDEP-NY037	01/28/2025 12:00	01/28/2025 23:50	YR
142-82-5	n-Heptane	ND		ppbv	0.10	1	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	01/28/2025 12:00	01/28/2025 23:50	YR
110-54-3	n-Hexane	ND		ppbv	0.10	1	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	01/28/2025 12:00	01/28/2025 23:50	YR
95-47-6	o-Xylene	ND		ppbv	0.10	1	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	01/28/2025 12:00	01/28/2025 23:50	YR
179601-23-1	p- & m- Xylenes	ND		ppbv	0.20	1	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	01/28/2025 12:00	01/28/2025 23:50	YR
622-96-8	* p-Ethyltoluene	ND		ppbv	0.10	1	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	01/28/2025 12:00	01/28/2025 23:50	YR
115-07-1	* Propylene	0.65		ppbv	0.10	1	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	01/28/2025 12:00	01/28/2025 23:50	YR
100-42-5	Styrene	ND		ppbv	0.10	1	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	01/28/2025 12:00	01/28/2025 23:50	YR
127-18-4	Tetrachloroethylene	0.16		ppbv	0.10	1	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	01/28/2025 12:00	01/28/2025 23:50	YR



Sample Information

Client Sample ID: PT-03

York Sample ID: 25A1579-03

York Project (SDG) No.

Client Project ID

Matrix

Collection Date/Time

Date Received

25A1579

41.0163385.00 Clay Property LLC

Vapor Extraction

January 28, 2025 9:40 am

01/28/2025

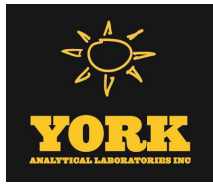
Volatile Organics, EPA TO15 Full List

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA TO15 PREP

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
109-99-9	* Tetrahydrofuran	ND		ppbv	0.20	1	EPA TO-15 Certifications:	01/28/2025 12:00	01/28/2025 23:50	YR
108-88-3	Toluene	0.51		ppbv	0.10	1	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	01/28/2025 12:00	01/28/2025 23:50	YR
156-60-5	trans-1,2-Dichloroethylene	ND		ppbv	0.10	1	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	01/28/2025 12:00	01/28/2025 23:50	YR
10061-02-6	trans-1,3-Dichloropropylene	ND		ppbv	0.10	1	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	01/28/2025 12:00	01/28/2025 23:50	YR
79-01-6	Trichloroethylene	0.040		ppbv	0.025	1	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	01/28/2025 12:00	01/28/2025 23:50	YR
75-69-4	Trichlorofluoromethane (Freon 11)	ND		ppbv	0.10	1	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	01/28/2025 12:00	01/28/2025 23:50	YR
108-05-4	Vinyl acetate	ND		ppbv	0.10	1	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	01/28/2025 12:00	01/28/2025 23:50	YR
593-60-2	Vinyl bromide	ND		ppbv	0.10	1	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	01/28/2025 12:00	01/28/2025 23:50	YR
75-01-4	Vinyl Chloride	0.060		ppbv	0.050	1	EPA TO-15 Certifications: NELAC-NY12058,NJDEP-NY037	01/28/2025 12:00	01/28/2025 23:50	YR



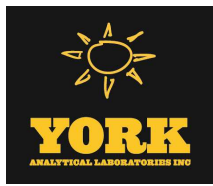
Analytical Batch Summary

Batch ID: BA51748

Preparation Method: EPA TO15 PREP

Prepared By: YR

YORK Sample ID	Client Sample ID	Preparation Date
25A1579-01	PT-01	01/28/25
25A1579-02	PT-02	01/28/25
25A1579-03	PT-03	01/28/25
BA51748-BLK1	Blank	01/28/25
BA51748-BS1	LCS	01/28/25



Volatile Organic Compounds in Air by GC/MS - Quality Control Data
York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
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Batch BA51748 - EPA TO15 PREP

Blank (BA51748-BLK1)

Prepared & Analyzed: 01/28/2025

1,1,1,2-Tetrachloroethane	ND	0.10	ppbv								
1,1,1-Trichloroethane	ND	0.10	"								
1,1,2,2-Tetrachloroethane	ND	0.10	"								
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.10	"								
1,1,2-Trichloroethane	ND	0.10	"								
1,1-Dichloroethane	ND	0.10	"								
1,1-Dichloroethylene	ND	0.025	"								
1,2,4-Trichlorobenzene	ND	0.10	"								
1,2,4-Trimethylbenzene	ND	0.10	"								
1,2-Dibromoethane	ND	0.10	"								
1,2-Dichlorobenzene	ND	0.10	"								
1,2-Dichloroethane	ND	0.10	"								
1,2-Dichloropropane	ND	0.10	"								
1,2-Dichlorotetrafluoroethane	ND	0.10	"								
1,3,5-Trimethylbenzene	ND	0.10	"								
1,3-Butadiene	ND	0.30	"								
1,3-Dichlorobenzene	ND	0.10	"								
1,3-Dichloropropane	ND	0.10	"								
1,4-Dichlorobenzene	ND	0.10	"								
1,4-Dioxane	ND	0.20	"								
2,2,4-Trimethylpentane	ND	0.050	"								
2-Butanone	ND	0.10	"								
2-Hexanone	ND	0.20	"								
3-Chloropropene	ND	0.50	"								
4-Methyl-2-pentanone	ND	0.10	"								
Acetone	ND	0.80	"								
Acrylonitrile	ND	1.3	"								
Benzene	ND	0.10	"								
Benzyl chloride	ND	0.10	"								
Bromodichloromethane	ND	0.10	"								
Bromoform	ND	0.10	"								
Bromomethane	ND	0.10	"								
Carbon disulfide	ND	0.10	"								
Carbon tetrachloride	ND	0.025	"								
Chlorobenzene	ND	0.10	"								
Chloroethane	ND	0.10	"								
Chloroform	ND	0.10	"								
Chloromethane	ND	0.10	"								
cis-1,2-Dichloroethylene	ND	0.025	"								
cis-1,3-Dichloropropylene	ND	0.10	"								
Cyclohexane	ND	0.10	"								
Dibromochloromethane	ND	0.10	"								
Dichlorodifluoromethane	ND	0.10	"								
Ethyl acetate	ND	0.20	"								
Ethyl Benzene	ND	0.10	"								
Hexachlorobutadiene	ND	0.10	"								
Isopropanol	ND	0.60	"								
Methyl Methacrylate	ND	0.10	"								
Methyl tert-butyl ether (MTBE)	ND	0.10	"								



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

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
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Batch BA51748 - EPA TO15 PREP

Blank (BA51748-BLK1)

Prepared & Analyzed: 01/28/2025

Methylene chloride	ND	0.60	ppbv								
Naphthalene	ND	0.20	"								
n-Heptane	ND	0.10	"								
n-Hexane	ND	0.10	"								
o-Xylene	ND	0.10	"								
p- & m- Xylenes	ND	0.20	"								
p-Ethyltoluene	ND	0.10	"								
Propylene	ND	0.10	"								
Styrene	ND	0.10	"								
Tetrachloroethylene	ND	0.10	"								
Tetrahydrofuran	ND	0.20	"								
Toluene	ND	0.10	"								
trans-1,2-Dichloroethylene	ND	0.10	"								
trans-1,3-Dichloropropylene	ND	0.10	"								
Trichloroethylene	ND	0.025	"								
Trichlorofluoromethane (Freon 11)	ND	0.10	"								
Vinyl acetate	ND	0.10	"								
Vinyl bromide	ND	0.10	"								
Vinyl Chloride	ND	0.050	"								

LCS (BA51748-BS1)

Prepared & Analyzed: 01/28/2025

1,1,1,2-Tetrachloroethane	9.89		ppbv	10.0	98.9	70-130					
1,1,1-Trichloroethane	8.97		"	10.0	89.7	70-130					
1,1,2,2-Tetrachloroethane	10.2		"	10.0	102	70-130					
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	9.40		"	10.0	94.0	70-130					
1,1,2-Trichloroethane	11.0		"	10.0	110	70-130					
1,1-Dichloroethane	8.92		"	10.0	89.2	70-130					
1,1-Dichloroethylene	8.89		"	10.0	88.9	70-130					
1,2,4-Trichlorobenzene	18.6		"	10.0	186	70-130					High Bias
1,2,4-Trimethylbenzene	10.7		"	10.0	107	70-130					
1,2-Dibromoethane	10.5		"	10.0	105	70-130					
1,2-Dichlorobenzene	11.5		"	10.0	115	70-130					
1,2-Dichloroethane	8.54		"	10.0	85.4	70-130					
1,2-Dichloropropane	10.6		"	10.0	106	70-130					
1,2-Dichlorotetrafluoroethane	10.8		"	10.0	108	70-130					
1,3,5-Trimethylbenzene	9.87		"	10.0	98.7	70-130					
1,3-Butadiene	12.0		"	10.0	120	70-130					
1,3-Dichlorobenzene	11.6		"	10.0	116	70-130					
1,3-Dichloropropane	10.3		"	10.0	103	70-130					
1,4-Dichlorobenzene	11.6		"	10.0	116	70-130					
1,4-Dioxane	10.4		"	10.0	104	70-130					
2,2,4-Trimethylpentane	9.66		"	10.0	96.6	70-130					
2-Butanone	8.87		"	10.0	88.7	70-130					
2-Hexanone	10.7		"	10.0	107	70-130					
3-Chloropropene	8.91		"	10.0	89.1	70-130					
4-Methyl-2-pentanone	10.1		"	10.0	101	70-130					
Acetone	7.80		"	10.0	78.0	70-130					
Acrylonitrile	8.25		"	10.0	82.5	70-130					
Benzene	9.40		"	10.0	94.0	70-130					
Benzyl chloride	10.8		"	10.0	108	70-130					
Bromodichloromethane	10.4		"	10.0	104	70-130					



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

York Analytical Laboratories, Inc. - Stratford

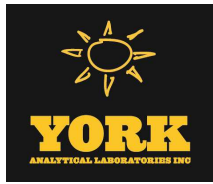
Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
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Batch BA51748 - EPA TO15 PREP

LCS (BA51748-BS1)

Prepared & Analyzed: 01/28/2025

Bromoform	8.93		ppbv	10.0		89.3	70-130				
Bromomethane	7.00		"	10.0		70.0	70-130				
Carbon disulfide	9.20		"	10.0		92.0	70-130				
Carbon tetrachloride	9.15		"	10.0		91.5	70-130				
Chlorobenzene	9.83		"	10.0		98.3	70-130				
Chloroethane	6.17		"	10.0		61.7	70-130	Low Bias			
Chloroform	9.17		"	10.0		91.7	70-130				
Chloromethane	12.0		"	10.0		120	70-130				
cis-1,2-Dichloroethylene	8.37		"	10.0		83.7	70-130				
cis-1,3-Dichloropropylene	10.7		"	10.0		107	70-130				
Cyclohexane	9.06		"	10.0		90.6	70-130				
Dibromochloromethane	10.4		"	10.0		104	70-130				
Dichlorodifluoromethane	6.62		"	10.0		66.2	70-130	Low Bias			
Ethyl acetate	10.8		"	10.0		108	70-130				
Ethyl Benzene	9.81		"	10.0		98.1	70-130				
Hexachlorobutadiene	10.4		"	10.0		104	70-130				
Isopropanol	7.95		"	10.0		79.5	70-130				
Methyl Methacrylate	10.3		"	10.0		103	70-130				
Methyl tert-butyl ether (MTBE)	8.97		"	10.0		89.7	70-130				
Methylene chloride	8.17		"	10.0		81.7	70-130				
Naphthalene	15.4		"	10.0		154	70-130	High Bias			
n-Heptane	8.97		"	10.0		89.7	70-130				
n-Hexane	9.19		"	10.0		91.9	70-130				
o-Xylene	9.91		"	10.0		99.1	70-130				
p- & m- Xylenes	10.0		"	20.0		50.2	70-130	Low Bias			
p-Ethyltoluene	10.9		"	10.0		109	70-130				
Propylene	7.31		"	10.0		73.1	70-130				
Styrene	10.6		"	10.0		106	70-130				
Tetrachloroethylene	10.4		"	10.0		104	70-130				
Tetrahydrofuran	8.84		"	10.0		88.4	70-130				
Toluene	10.5		"	10.0		105	70-130				
trans-1,2-Dichloroethylene	9.14		"	10.0		91.4	70-130				
trans-1,3-Dichloropropylene	10.4		"	10.0		104	70-130				
Trichloroethylene	10.2		"	10.0		102	70-130				
Trichlorofluoromethane (Freon 11)	8.97		"	10.0		89.7	70-130				
Vinyl acetate	4.68		"	10.0		46.8	70-130	Low Bias			
Vinyl bromide	9.76		"	10.0		97.6	70-130				
Vinyl Chloride	11.5		"	10.0		115	70-130				



Sample and Data Qualifiers Relating to This Work Order

Definitions and Other Explanations

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

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

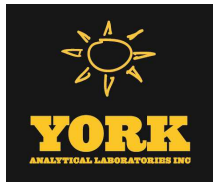
If Total PCBs are detected and the target aroclors reported are "Not detected", the Total PCB value is reported due to the presence of either or both Aroclors 1262 and 1268 which are non-target aroclors for some regulatory lists.

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

Certification for pH is no longer offered by NYDOH ELAP.

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

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



Revision Description: The report has been revised following a correction to the data upload for all samples. Results were originally reported off a 10x dilution. The revised results report off 1x and 4x dilutions.





York Analytical Laboratories, Inc.
120 Research Drive Stratford, CT 06615
132-02 89th Ave Queens, NY 11418

Field Chain-of-Custody Record - AIR

YORK Project No.
25A1579



clientservices@yorklab.com
www.yorklab.com

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

Your Page 1 of 1

YOUR Information		Report To:	Invoice To:	YOUR Project Number	Turn-Around Time
Company: <u>U-2A Geo Environmental</u>	Company: <u>[Signature]</u>	Company: <u>[Signature]</u>	Company: <u>[Signature]</u>	<u>41.0163385.00</u>	RUSH - Next Day
Address: <u>104 W 29th St New York, NY, 10001</u>	Address: <u>[Signature]</u>	Address: <u>[Signature]</u>	Address: <u>[Signature]</u>		RUSH - Two Day
Phone: <u>332-215-6344</u>	Phone: <u>[Signature]</u>	Phone: <u>[Signature]</u>	Phone: <u>[Signature]</u>	YOUR Project Name	RUSH - Three Day
Contact: <u>Jackson Bogach</u>	Contact: <u>[Signature]</u>	Contact: <u>[Signature]</u>	Contact: <u>[Signature]</u>	<u>Clay Properties LLC</u>	RUSH - Four Day
E-mail: <u>Jackson.Bogach@yorklab.com</u>	E-mail: <u>[Signature]</u>	E-mail: <u>[Signature]</u>	E-mail: <u>[Signature]</u>	YOUR PO#: <u>41.0163385.00</u>	Standard (5-7 Day) <input checked="" type="checkbox"/>

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

Samples Collected by: (print your name above and sign below) <u>Jackson Bogach</u> <u>Jackson Bogach</u>	Air Matrix Codes	Samples From	Report / EDD Type (circle selections)			YORK Reg. Comp.
	AI - Indoor Ambient Air	New York	<input checked="" type="checkbox"/>	Summary Report	CT RCP	Standard Excel EDD
	AO - Outdoor Amb. Air	New Jersey	<input type="checkbox"/>	QA Report	CT RCP DQA/DUE	EQulS (Standard)
	AE - Vapor Extraction Well/ Process Gas/Effluent	Connecticut	<input type="checkbox"/>	NY ASP A Package	NJDEP Reduced Deliv.	<u>NYSDEC EQulS</u>
	Pennsylvania	<input type="checkbox"/>	<u>NY ASP B Package</u>	NJDQKP	NJDEP SRP HazSite	
	AS - Soil Vapor/Sub-Slab	Other	<input type="checkbox"/>	Other:		

Certified Canisters: Batch <u> </u> Individual <u> </u>		Please enter the following REQUIRED Field Data					Reporting Units: ug/m ³ <u> </u> ppbv <input checked="" type="checkbox"/> ppmv <u> </u>
Sample Identification	Date/Time Sampled	Air Matrix	Canister Vacuum Before Sampling (in Hg)	Canister Vacuum After Sampling (in Hg)	Canister ID	Flow Cont. ID	Analysis Requested
<u>PT-01</u>	<u>1/28/25 835</u>	<u>AE</u>	<u>Tedlar</u>	<u> </u>	<u> </u>	<u> </u>	<u>T0-15 VOCs</u>
<u>PT-02</u>	<u>1/28/25 840</u>	<u>AE</u>	<u>Tedlar</u>	<u> </u>	<u> </u>	<u> </u>	<u>T0-15 VOCs</u>
<u>PT-03</u>	<u>1/28/25 940</u>	<u>AE</u>	<u>Tedlar</u>	<u> </u>	<u> </u>	<u> </u>	<u>T0-15 VOCs</u>

Comments:	Detection Limits Required	Sampling Media
	$\leq 1 \text{ ug/m}^3$ Routine Survey <u> </u> Other <u> </u> NYSDEC V1 Limits <u> </u>	6 Liter Canister <u> </u> Tedlar Bag <input checked="" type="checkbox"/>

Samples Relinquished by / Company	Date/Time	Samples Received by / Company	Date/Time	Samples Relinquished by / Company	Date/Time
<u>Jackson Bogach / U-2A</u>	<u>1/28/25 1430</u>	<u>[Signature]</u>	<u>1/28/25 1430</u>	<u>[Signature]</u>	<u>1/28/25 1500</u>
Samples Received by / Company	Date/Time	Samples Relinquished by / Company	Date/Time	Samples Received by / Company	Date/Time
Samples Relinquished by / Company	Date/Time	Samples Received by / Company	Date/Time	Samples Received in LAB by	Date/Time
				<u>[Signature]</u>	<u>1/28/25 1500</u>