



OPERATION & MAINTENANCE DESCRIPTION

***Jimmy's Dry Cleaner Site
61 Nassau Road
Roosevelt, New York 11575***

Site Number 1-30-080

May 12, 2005

Submitted to:

New York State Department of Environmental Conservation
Bureau of Eastern Remedial Action
625 Broadway
Albany, NY 12233-7015

Submitted by:

Shaw Environmental & Infrastructure Engineering of New York, P.C.
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Heide-Marie Dudek, P.E.
Project Manager

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1.0 Introduction/Background

This Operation and Maintenance (O&M) Description has been developed on behalf of the New York State Department of Environmental Conservation (NYSDEC) as a guide for performing activities related to the Interim Remedial Measure (IRM) being conducted at the Jimmy's Dry Cleaner Site (Site) located at 61 Nassau Road, Roosevelt, New York (**Figure 1**). A soil vapor extraction (SVE) system has been operating since August 7, 2002 to inhibit the migration of volatile organic compounds (VOCs) into a Deli that occupies a portion of the former dry cleaner building and several neighboring residences and commercial facilities. The IRM SVE system will continue to operate until it is determined that no impacts exist that threaten human health or the environment. A more complete Site description and history may be found in the *Remedial Investigation Report Jimmy's Dry Cleaner, Shaw Environmental, Inc., May 2003* and the *Feasibility Study Report, Jimmy's Dry Cleaners – Operable Unit 1, Shaw Environmental and Infrastructure Engineering of New York, P.C., January 2004*.

2.0 SVE System Description

The following sections provide a description of the SVE system that operates at the Site.

2.1 SVE Well Network

The SVE system well network consists of seven vapor extraction wells (SVE-1 through SVE-7) located on the Site or in close proximity to the Site. Extraction well locations are identified in **Figure 2**. The SVE wells are installed to depths ranging from approximately 5 to 10 feet below ground surface (bgs) with screened intervals ranging from approximately 3 to 5 feet. The screened interval was placed at the bottom of each SVE well. The screen and riser piping of each of the SVE wells are constructed from two-inch diameter, schedule 40 PVC piping. Each SVE well has an air flow control valve and an air sample port for the measurement of air flow, vacuum and VOC concentrations. Individual lateral piping runs from each of the well heads to the treatment enclosure. The lateral piping is constructed of schedule 80 PVC piping and is installed approximately one to two feet bgs.

2.2 SVE System Equipment

The SVE system components include a 1.5 horsepower (hp) blower motor with an in-line particulate filter and a 55-gallon capacity moisture separator. The blower motor specifications are 1.5 hp, 230 volt, single-phase power; it is capable of extracting approximately 100 cubic feet per minute (cfm) of air flow. Typical vacuum measurements observed at the blower range from approximately 20 to 30 inches of water column. The SVE blower is located within a water tight enclosure and the moisture separator is located just outside the enclosure.

2.3 SVE System Off-Gas Equipment

The SVE system utilizes two, 175 pound vapor-phase granular activated carbon (VGAC) units to treat off-gas prior to discharge to the atmosphere through a 15 foot high discharge stack. The VGAC units are connected in a series arrangement. Air sample ports are located at the influent, mid point and effluent points of the VGAC units for monitoring air flow and VOC concentrations. The VGAC unit process piping consists of 2-inch diameter, chemical rated, flexible hose with quick-connect fittings.

2.4 SVE System Electrical System

The SVE system is powered by a 230 volt, 3-phase, 100 amp dedicated electrical service. The Long Island Power Authority (LIPA) is the provider of the electric service for the system. Shaw's LIPA account number for the electrical service is 1591209241. The electric meter, LIPA meter number 99750190, is located on the south exterior wall of the former dry cleaner building. Both the Shaw account number and the LIPA meter number must be referenced when communicating with LIPA representatives. The electric service is routed to a locked, NEMA 4 electrical panel located above the system enclosure. Two 110 volt, weather proof outlets are located to the right of the system enclosure. The electrical panel switch that controls the outlets is left in the "off" position unless the outlets are in use.

3.0 Monthly Operation & Maintenance Program

The following sections provide a detailed description of the monthly O&M program for the SVE system.

3.1 Operation & Maintenance Requirements

Monthly O&M requirements include the measurement of SVE system operating parameters including VOC concentrations, air flow rate and vacuum at the well heads and at the system enclosure. An example Site visit form is presented as **Appendix A**. Quarterly reports summarizing SVE system operating data and observations made during site visits are submitted to the NYSDEC project manager Mr. Joe Peck, P.E.. Reporting information is described in more detail in **Section 5.0**. The SVE blower's in-line particulate filter must be inspected for the buildup of particulate matter and for its general condition during each monthly visit. Spare particulate filters should be available should the in-line filter need to be replaced. The SVE blower motor has sealed bearings and therefore does not require routine maintenance. O&M requirements also include adjusting the SVE system operational settings as necessary to eliminate or minimize the migration of VOCs into on-site and nearby off-site buildings.

Monitoring of the VGAC units for breakthrough must be performed during each monthly Site visit. Monitoring is typically performed with a photoionization detection (PID) meter. When breakthrough is observed in the lead VGAC unit, the VGAC unit must be removed from service and the inlet and outlets ports must be sealed. The lag unit is moved to the lead position and a fresh VGAC unit is placed in the lag position. The removal of spent VGAC units from the Site for regeneration will be discussed in **Section 7**. A VGAC specification sheet is included in **Appendix B** for reference.

Occasionally it is necessary to remove accumulated liquid from the moisture separator. Accumulated liquid is stored on-site in 55-gallon drums pending disposal at a permitted facility in accordance with Federal, State and local regulations. The removal of accumulated liquid from the Site for disposal will be discussed in greater detail in **Section 7**.

3.2 Monitoring Equipment

Monitoring equipment required for O&M of the SVE system includes, but is not limited to the following:

- Vacuum gauge (zero to fifty inches of water column operating range),
- Photoionization detector (PID), and
- TSI VelociCalc Plus Air Velocity Meter Model 8360 or equivalent.

Specification sheets for the VelociCalc Plus Air Meter and PID are presented as **Appendices C** and **D**, respectively.

3.3 Site Access

Extraction wells SVE-6 and SVE-7 are located in the back yard of #40 Dutchess Street, however, access is unrestricted. Access to the SVE system enclosure, extraction wells SVE-1, 2, 4 and 5 and the VGAC units is provided from Taylor Road. Please note that these SVE system components are located within a fenced and locked area that is used by a landscaping company to store equipment and materials. As such, O&M personnel must use a copy of the landscaping company's gate key to gain access to this area. Extraction well SVE-3 is located within a fenced and locked area used by the Deli. The gate key must be borrowed from the Deli during each monthly site visit to access to SVE-3.

3.4 Project Contacts

A complete listing of project contacts is presented as **Appendix E**.

4.0 Quarterly Indoor Air Monitoring Program

Quarterly monitoring is performed at the above referenced Deli and several neighboring residences and commercial facilities. The following sections discuss the indoor air monitoring program.

4.1 Notification Requirements

It is necessary to provide advance notice to the residents of #40 and #44 Dutchess Street for each quarterly air monitoring event to ensure access to their homes. The residents are notified via telephone approximately two to three weeks prior to each air monitoring event. A reminder telephone call is placed to each residence approximately one week prior to each air monitoring event. It is imperative to discuss potential scheduling conflicts with the residents to ensure access to their homes with minimal disturbance to their schedules.

It is not necessary to notify the Deli or KFC of each quarterly monitoring event, as both businesses are consistently open during typical business operating hours. Please note that KFC is generally not accessible until their business opens at 10:30 AM. However, occasionally it may be possible to gain access to their restaurant before they open for business.

A complete listing of all project contacts is presented as **Appendix E**.

4.2 Indoor Air Monitoring Locations

Four locations are monitored for indoor air quality. The locations include the Deli, KFC, and residences located at #40 and #44 Dutchess Street. Due to privacy concerns, the samples collected from #40 and #44 Dutchess Street are referred to as "G" and "J", respectively. The sample location within the "G" residence is located in the "baby's" room in the basement of the residence. The sample location within the "J" residence is located in the family room in the basement of the residence. The sample location within the Deli is located in the front room of the Deli. The sample location within KFC and its corresponding blind duplicate sample are located within the computer room in the kitchen area. An outdoor ambient air sample is collected from the front of the former dry cleaner building during each monitoring event. Additionally, a trip blank from the laboratory is used during each monitoring event for quality control purposes.

4.3 Laboratory Analytical Method

The samples are analyzed for the presence of tetrachloroethene (PCE) by New York State Department of Health (NYSDOH) Method 311-9. Galson Laboratories in East Syracuse, New York is the laboratory currently used to perform analysis of the samples.

4.4 Sample Collection Procedure

NYSDOH Method 311-9 air samples are collected with 3M 3500 Passive Diffusion Organic Vapor Monitors (OVM). The OVMs are acquired from the laboratory and come inside small metal canisters with a removable white plastic lid that overlies a removable, tamper evident metal lid. The OVMs begin to collect air samples as soon as the metal lid is removed from the canister, so care must be taken to avoid opening the metal lid prematurely. The OVMs consist of a circular carbon element that is overlain with a white mesh screen and is held in place by a dark orange plastic case with a plastic ring that snaps onto the plastic case. A spring loaded metal clip is attached to the end of the monitor to secure the monitor to the sample location.

Immediately prior to placing the OVMs at their sample locations during each monitoring event, the label on the back of the dark orange monitor case must be filled in with the exposure date, sample identification and the sample start time. The label on the white plastic canister lid must be filled out with the exposure date, sample identification, sampler, exposure time period and the specific vapor being tested, which in this case is PCE. The OVMs are then attached to a fixed object at their sample location with the spring loaded metal clip. The OVMs are collected from their sample locations after a twenty four-hour period. When each monitor is collected, the end time is filled in on the dark orange monitor case label and the plastic ring and white mesh that overly the carbon element are removed from the monitor case. An air-tight, clear plastic lid is snapped onto the monitor case prior to placing the OVM in the metal canister pending shipment to the laboratory.

A chain of custody (COC) form must be completed that, at a minimum, identifies each of the samples, the sample date, the sample medium (3500 OVM), the air sample time in minutes, the required analysis (PCE) and the method reference (NYSDOH 311-9). The COC must clearly indicate that minimum detection limits of 10 micrograms per cubic meter ($\mu\text{g}/\text{m}^3$) are required.

4.5 Sample Shipment Requirements

The monitors must be shipped on the same day they are collected to the laboratory via overnight delivery. The monitors do not require preservation and are typically shipped to the laboratory in the same box they were received from the laboratory.

5.0 Reporting

A report is submitted to Mr. Joe Peck, P.E., the NYSDEC project manager, on a quarterly schedule. The quarterly reports include a summary of the operation of the SVE system during the reporting period and a summary of the quarterly air monitoring event results. The quarterly air monitoring results are compared to the NYSDOH's ambient air guideline of $100 \mu\text{g}/\text{m}^3$ for PCE.

Letter reports that summarize the air monitoring results for each sample location are sent to a representative from each sample location. Each letter compares the monitoring results from that particular location to the NYSDOH's ambient air guideline of $100 \mu\text{g}/\text{m}^3$ for PCE.

6.0 Health and Safety

All work completed on the project must be performed in accordance with OSHA standards in strict compliance with a Site specific Health and Safety Plan (HASP). Each person that works on the Site must become familiar with the HASP and sign the acknowledgement form.

7.0 Disposal/Residuals Management

Waste streams that may be generated at the Site include: spent VGAC units, accumulated liquid from the moisture separator and spent SVE blower air filters. Currently, spent VGAC units are removed from the Site as hazardous waste and transported to Calgon Carbon Corporation (Calgon) for reactivation. The removal of spent VGAC units is coordinated by Carbon Service & Equipment Company, who is the current provider of new VGAC units to the Site. Prior to their removal from the Site, spent VGAC units are placed on 44-inch wide by 44-inch long pallets to meet Calgon's receiving requirements. One pallet can be used to store up to four VGAC units. Accumulated liquid from the moisture separator is stored on-Site in 55-gallon drums pending disposal at a permitted facility in accordance with Federal, State and local regulations. SVE blower air filters require infrequent replacement, and are disposed as non-hazardous waste.

FIGURES

DRAWING NUMBER 824324A25



NEW YORK SITE



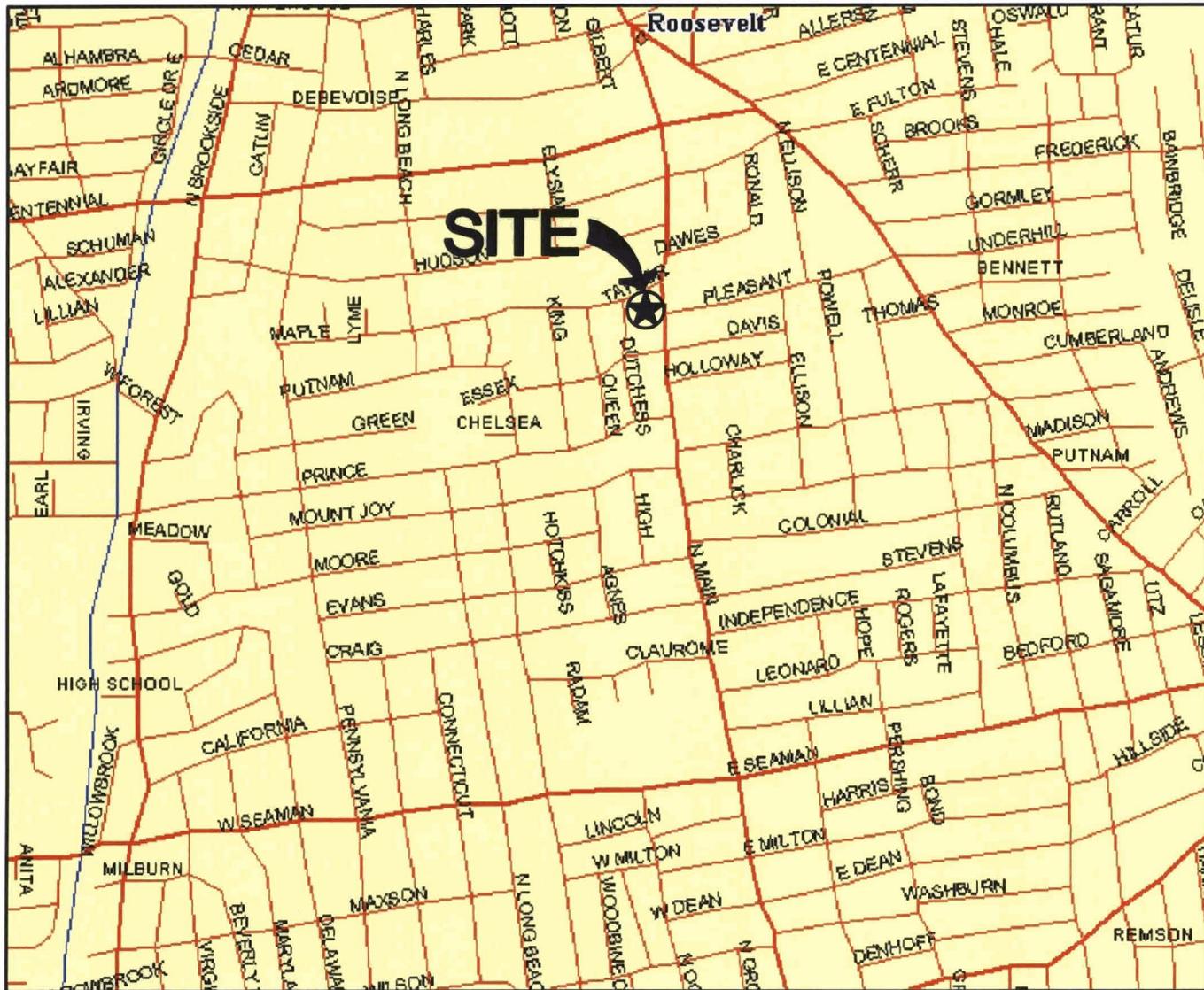
APPROVED BY

CHECKED BY

DRAWN BY S. SHKOLNIK 02-13-03

OFFICE ALBANY, NY

Image: ROOSEV_2
Plot Date/Time: 03/29/05 09:04am
Format Revised: 12/15/99



NOT TO SCALE

REFERENCE:
MAP FROM DELORME'S MAP EXPERT,
FREEPORT, MAINE.

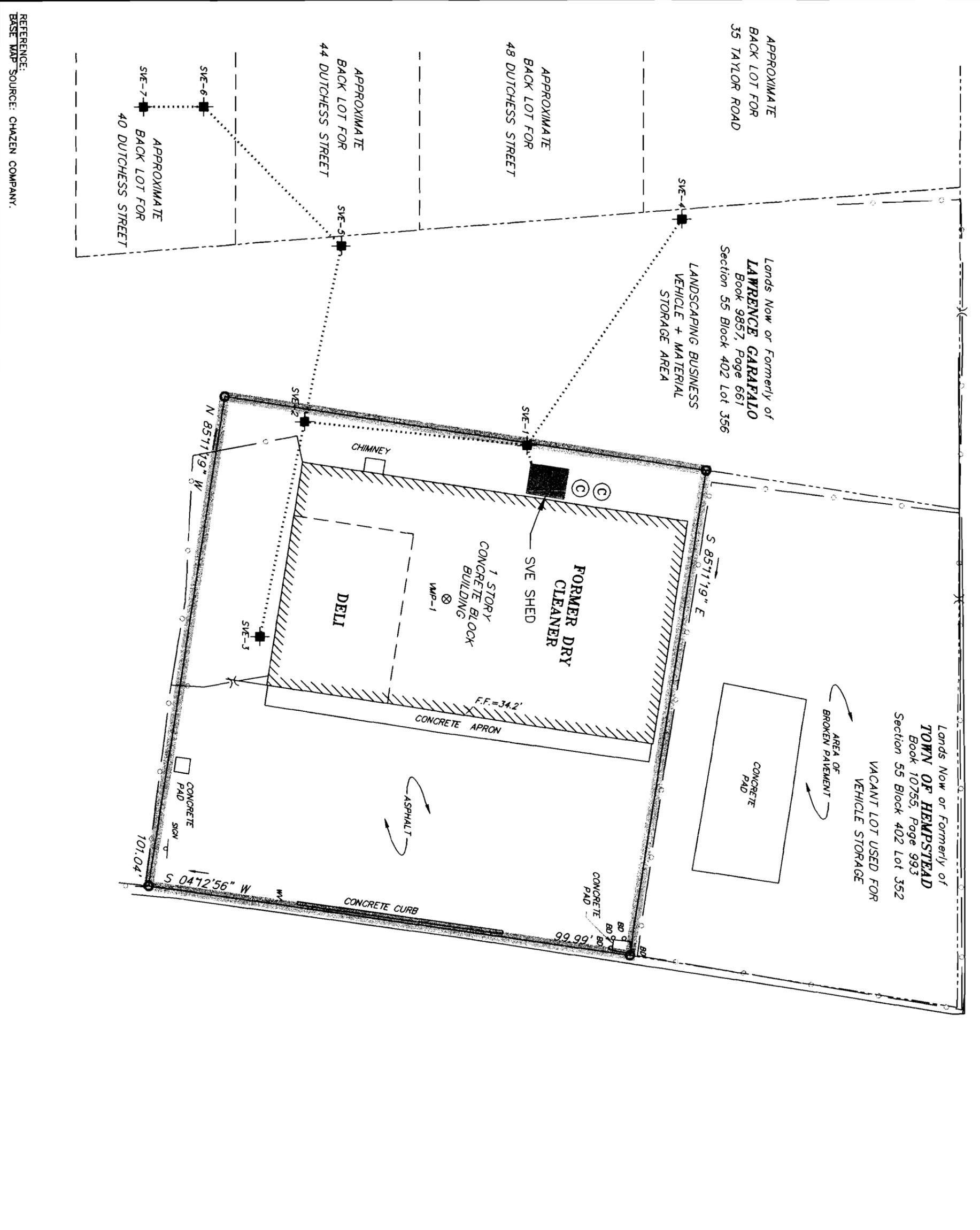


NYSDEC
JIMMY'S DRY CLEANER

FIGURE 1
SITE LOCATION MAP

ROOSEVELT, NEW YORK

OFFICE ALBANY, NY	DRAWN BY S. SHKOLNIK	CHECKED BY 03-17-05	APPROVED BY	DRAWING NUMBER 824324B29
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REFERENCE:
 BASE MAP SOURCE: CHAZEN COMPANY.

LEGEND:

- — NO PHYSICAL BOUNDS
- — ADJACENT PROPERTY LINE
- — EXISTING FENCE
- — SITE PERIMETER
- ⊕ — SOIL VAPOR EXTRACTION WELL
- ⊗ — VAPOR MONITORING POINT
- — SVE PIPING
- ⊙ — CARBON VESSELS

SCALE

0 20 40 FEET

Shaw Shaw Environmental, Inc.

NYSDEC JIMMY'S DRY CLEANER

FIGURE 2

IRM-SVE PLAN

ROOSEVELT, NEW YORK

APPENDIX A

EXAMPLE SITE VISIT FORM

APPENDIX B

SVE SYSTEM COMPONENT SPECIFICATION SHEETS

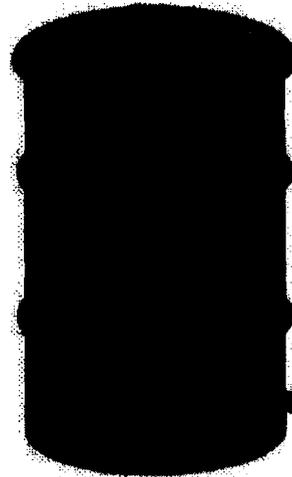
***(SVE BLOWER IN-LINE AIR FILTER SPECIFICATIONS)
(AIR 175 VAPOR PHASE GRANULAR ACTIVATED
CARBON UNIT SPECIFICATIONS)***



A Division of Encotech, Inc.

AIR 175

TYPICAL FLOWS	5-100 scfm
MAXIMUM SUGGESTED FLOW	150 scfm
MAXIMUM OPERATING PRESSURE	7 psig
MAXIMUM TEMPERATURE	140°F



Height: 34"
Diameter: 22"

STANDARD FEATURES

- ❖ Up-flow adsorber with 175 lbs. coal-base virgin or reactivated carbon
- ❖ Heavy-duty vessel with corrosion resistant coating and components
- ❖ 2" FNPT inlet and outlet connections
- ❖ Over 370 in² of surface area for superior air distribution and the lowest pressure drops
- ❖ Advanced internal distribution and collection systems designed to optimize carbon usage rates, minimizing operating expenses

OPTIONAL FEATURES

- ❖ Polyethylene liner
- ❖ Cam-Lok fittings
- ❖ Pressure gauge assembly
- ❖ Sample port assembly
- ❖ Pressure relief valve
- ❖ Condensate drain line
- ❖ Flexible hose assemblies



Catalog No. 396 (PDF)

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Pneumatics & Hydraulics > Air Compressors and Vacuum Pumps > Compressor Air Filter

Element, Intake Filter

Intake Filter Element, Inside Diameter 3 Inches, OD 4 3/8 Inches, Height 4 3/4 Inches, Element Material Polyester, For Use With Filter Number 4Z681, 4Z682, 5Z662, 5Z663

Grainger Item:	1R417	Ship Qty :	1
Price (ea) :	\$12.97	Sell Qty (Will-Call) :	1
Manufacturer:	SOLBERG	Usually Ships :	Today
Mfg. Model#:	19P	Catalog 396 Page:	1416

Qty.

Add to Order

Compare Alternates

Price shown may not reflect your price. [Log-in](#) above, or [click here](#) to register.

NOTES & RESTRICTIONS

See Catalog 396 Page for application and/or safety information.

ALTERNATE PRODUCTS

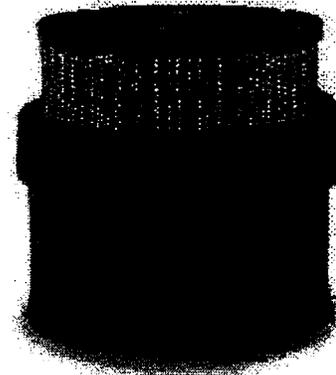
Element, Intake Filter

Intake Filter Element, Inside Diameter 3 Inches, OD 4 3/8 Inches, Height 4 3/4 Inches, Element Material Paper, For Use With Filter Number 4Z681, 4Z682,

Price (ea):	\$11.43	Usually Ships :	Today
Grainger Item#:	5A718		

Qty.

Add to Order



TECHNICAL SPECIFICATIONS

For Use With	Solberg Filters and Many OEM
Element Material	Polyester
Inside Dia. (In.)	3
Outside Dia. (In.)	4 3/8

APPENDIX C

***VELOCICALC PLUS AIR VELOCITY METER MODEL
8360 INFORMATION SHEET***

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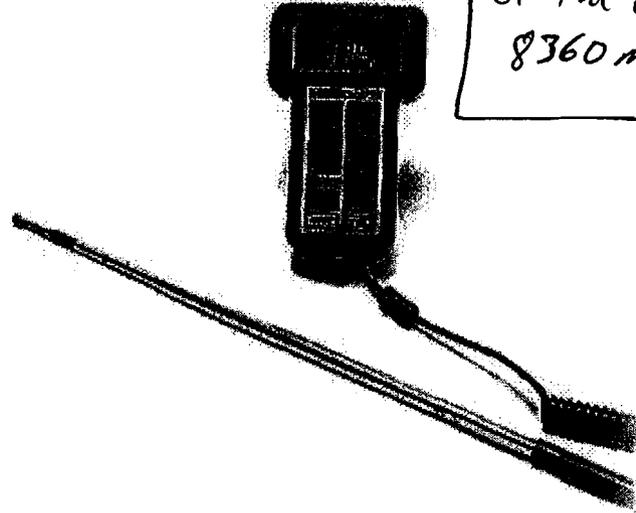
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VELOCICALC® Air Velocity Meters

Models 8345, 8346, 8347, and 8347(A)

TSI's VELOCICALC® Air Velocity Meters are easy to use from the first time you pick them up. The Models 8345 and 8346 measure velocity and temperature, calculate flowrate, perform multi-value averaging, and determine minimum and maximum readings. The Models 8347 and 8347(A) add a humidity measurement and perform dew point and wet bulb temperature calculations.



Current models that may be used in place of the obsolete 8360 model.

- ▲ [Features](#)
- ▲ [Applications](#)
- ▲ [Specifications](#)
- ▲ [Model Comparison](#)
- ▲ [Application Notes](#)
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For prices, delivery, or additional product information, please contact your TSI authorized representative or contact TSI directly.

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Features

- Extended velocity range of 0 to 6,000 ft/min
- Temperature range of 0 to 140°F or more
- Humidity range of 0 to 95% rh (Models 8347 and 8347(A) only)
- Easy to read digital display

- Variable time constant modes available for a steady display when measuring fluctuating flows
- Telescoping probes with etched length marks to make duct traverse measurements easier
- Sampling function allows for easy recording of multiple measuring points
- Direct calculation of dew point and wet bulb temperature -no psychrometric chart needed (Models 8347 and 8347(A) only)
- Statistics function can display average, maximum and minimum values, and the number of recorded samples
- Flowrate feature allows for simple and quick calculations of volumetric flowrate when the user inputs the duct shape and size
- Optional portable printer provides a hard copy documentation of your readings

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Applications

- HVAC duct measurements
- Fume hood face velocity tests
- Clean room studies
- Wind tunnel work
- Filter face velocity measurements
- Indoor Air Quality tests

BACK TO TOP

Model Options/Comparisons

The Models 8345, 8346, 8347 and 8347(A) all measure air velocity and temperature, calculate flowrate, perform multi-value averaging, and determine minimum and maximum readings. The Models 8347 and 8347(A) also measure humidity along with dew point and wet bulb temperature calculations. The Models 8346 and 8347(A) have the added feature of an articulating probe for measurements in ceiling outlet flows or clean benches.

Features	8345	8346	8347	8347(A)
Velocity	✓	✓	✓	✓
Temperature	✓	✓	✓	✓
Volumetric Flowrate	✓	✓	✓	✓
Averaging Capability	✓	✓	✓	✓
Variable Time Constant	✓	✓	✓	✓
Articulating Probe		✓		✓
Printer Output	✓	✓	✓	✓

NIST* Calibration Certificate	✓	✓	✓	✓
Humidity			✓	✓
Wet Bulb			✓	✓
Dew Point			✓	✓

*U.S. National Institute of Standards and Technology


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APPENDIX D

PHOTOIONIZATION DETECTOR INFORMATION SHEET



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2020 Photoionization Detector

RUGGED enough for the harshest conditions. **SENSITIVE** enough to meet 1 PPM detection requiremen



The Photovac 2020 PID is ideal for the fast detection of Volatile Organic Compounds (VOC). Weighing under 2 lbs., the Photovac 2020 is light, yet rugged. Samples are drawn in through pump and results are displayed within seconds on the large, easy-to-read backlit LCD display

Take advantage of proven technology

The 2020 operates all day long using photoionization, the technology of choice for detecting air, soil and groundwater. The 2020 is equipped standard with a 10.6 eV UV lamp, with an optional 9.8 eV UV lamp for ionizing chlorinated compounds.

Rely on it hour after hour

Operating automatically, the 2020 will run for a full workday. When preset levels are exceeded both audio and visual alarms are activated. The complete record of the day's activity is presented in a tabular format indicating concentration vs. time. Stored data is easily downloaded to a PC using Windows® Hyperterminal™

The Photovac 2020 PID is classified as Intrinsically Safe in North America (Class I, Division 1, Groups C and D) and Europe (Ex ib m IIC T4) for use in potentially explosive environments.

An excellent tool for monitoring toxic gases and vapors in workplace environments, the Photovac 2020 is the instrument of choice.

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2020 Photoionization Detector

RUGGED enough for the harshest conditions. **SENSITIVE** enough to meet 1 PPM detection requiremen



The Photovac 2020 PID is ideal for the fast detection of Volatile Organic Compounds (VOCs). Weighing under 2 lbs., the Photovac 2020 is light, yet rugged. Samples are drawn in through pump and results are displayed within seconds on the large, easy-to-read backlit LCD display.

Take advantage of proven technology

The 2020 operates all day long using photoionization, the technology of choice for detecting air, soil and groundwater. The 2020 is equipped standard with a 10.6 eV UV lamp, with an optional 10.6 eV UV lamp for ionizing chlorinated compounds.

Rely on it hour after hour

Operating automatically, the 2020 will run for a full workday. When preset levels are exceeded both auditory and visual alarms are activated. The complete record of the day's activity is presented in a tabular format indicating concentration vs. time. Stored data is easily downloaded to a PC using Windows® Hyperterminal™.

The Photovac 2020 PID is classified as Intrinsically Safe in North America (Class I, Division 1, Groups C and D) and Europe (ATEX ib m IIC T4) for use in potentially explosive environments.

An excellent tool for monitoring toxic gases and vapors in workplace environments, the Photovac 2020 is the choice.

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Phone: 781-290-0777 | Fax: 781-290-4884 | Email: customerservice@photovac.com
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APPENDIX E
PROJECT CONTACT LIST

**PROJECT CONTACT LIST
JIMMY'S DRY CLEANER SITE, ROOSEVELT, NEW YORK**

ORGANIZATION/CONTACT NAME & ADDRESS:	PHONE:	FAX:	E-MAIL:
New York State Department of Environmental Conservation 625 Broadway, Albany, NY 12233-7015 Mr. Joseph Peck, P.E. Mr. Robert Cozzy	518-402-9767 518-402-9627	518-402-9773 518-402-9627	jpeck@gw.dec.state.ny.us rcozzy@gw.dec.state.ny.us
New York State Department of Health 547 River Street, Troy NY 12180 Mr. Justin Deming	518-402-7850	518-402-7850	jhd01@health.state.ny.us
Nassau County Department of Health 240 Old Country Road, Mineola NY 11501 Mr. Joseph DeFranco	516-571-3344	516-571-1475	jdefranco@health.co.nassau.ny.us
Deli: 61 Nassau Road, Roosevelt, NY 11575 Mr. Jose Molina, Deli Mr. Jose Molina, Home	516-623-8408 516-379-6237	NA NA	NA NA
Residents: Gonzalez Residence 40 Dutchess Street, Roosevelt, NY 11575 Jackson Residence 44 Dutchess Street, Roosevelt, NY 11575	516-378-6587 516-377-1806	NA NA	NA NA
Kentucky Fried Chicken: 497 North Main Street, Freeport NY 11520	NA	NA	NA
Allstate Landscaping Cierro (Foreman)	516-322-4586	NA	NA
Long Island Power Authority 455 Mill Road, Hewlett, NY 11557	631-755-6000	NA	NA

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